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	nOY1809249211
District RP	1RP-5003.
Facility ID	
Application ID	

# **Release Notification**

## **Responsible Party**

Responsible Party Marathon Oil Permian LLC	OGRID 372098
Contact Name Melodie Sanjari	Contact Telephone 575-988-8753
Contact email msanjari@marathonoil.com	Incident # (assigned by OCD)
Contact mailing address 4111 S. Tidwell Rd., Carlsbad, NM 8220	

## **Location of Release Source**

Latitude 32.7459831

Longitude -103.5429764

(NAD 83 in decimal degrees to 5 decimal places)

Site Name TONTO 15 STATE #001	Site Type Oil & Gas Facility
Date Release Discovered: 3/14/2018	API# (if applicable) 30-025-28897

Unit Letter	Section	Township	Range	County
Ι	15	18S	34E	Lea

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) 7 Volume Recovered (bbls) 5 Produced Water Volume Released (bbls) Volume Recovered (bbls) Is the concentration of dissolved chloride in the  $\boxtimes$  Yes  $\square$  No produced water >10,000 mg/l? Condensate Volume Released (bbls) Volume Recovered (bbls) 🗌 Natural Gas Volume Released (Mcf) Volume Recovered (Mcf) Volume/Weight Released (provide units) Other (describe) Volume/Weight Recovered (provide units)

### Cause of Release

While conducting daily rounds, Operator arrived onside and observed standing fluids around the perimeter of the wellhead. Upon investigation, it was found the stuffing box had released and misted approx. 6. 32 bbl. onsite around the wellhead. Misting affected a 55 ft x 3 ft. area and a 30 ft x 30 ft. area. A vac truck was dispatched to recover standing fluids. Contaminated soils will be removed and disposed of at R360.

# Amended Closure Report Starts on Page 76

Page	2
rage	4

### Oil Conservation Division

Incident ID	nOY1809249211
District RP	1RP-5003.
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the responsible party consider this a major release?
🗌 Yes 🖾 No	
If YES, was immediate ne	otice 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

 $\boxtimes$  The source of the release has been stopped.

The impacted area has been secured to protect human health and the environment.

Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.

All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

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

Printed Name:	Callie Karrigan	Title:	Environmenta	l Professiona

Signature: Callie Karrigan Date: 4/02/2018

email: Telephone:

OCD Only

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

Received by OCD: 9/21/2023 6:16:51 AM Form C-141 State of New Mexico

Page 3

Oil Conservation Division

Incident ID	nOY1809249211
District RP	1RP-5003.
Facility ID	
Application ID	

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# Site Assessment/Characterization

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

	1
What is the shallowest depth to groundwater beneath the area affected by the release?	<u>&lt;50</u> (ft bgs)
Did this release impact groundwater or surface water?	
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ⊠ No ☐ 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?	
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ⊠ No ☐ Yes ⊠ No
Are the lateral extents of the release within 300 feet of a wetland?	
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 <b>not</b> on an exploration, development, production, or storage site?	🗌 Yes 🛛 No
2 in the receive infrate ment of an englisteriolity, as enspirionity production, of storage sites	🗌 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

 $\boxtimes$  Depth to water determination

- Determination of water sources and significant watercourses within <sup>1</sup>/<sub>2</sub>-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.

	6:16:51 AM State of New Mexico				Page 4 of 4
			Incident ID	nO	Y1809249211
Page 4	Oil Conservation Division	n	District RP	1R	P-5003.
			Facility ID		
			Application 1	D	
public health or the environme failed to adequately investigate	quired to report and/or file certain release notification nt. The acceptance of a C-141 report by the OCD do e and remediate contamination that pose a threat to gr C-141 report does not relieve the operator of response	es not reli oundwater	eve the operator of liability, surface water, human h	ity should the alth or the	neir operations have environment. In
Printed Name: <u>Melod</u> Signature: <u>Melodí</u> email: <u>msanjari@maratho</u>	<u>e Sanjarí</u> D	ate: 9/21/	<u>Environmental Prof</u> 2023 <u>575-988-8753</u>	essional	

Page 6

Oil Conservation Division

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: <u>Melodie Sanjari</u> Title: Environmental Professional Signature: <u>Melodie Sanjari</u> Date 9/21/2023 email: msanjari@marathonoil.com Telephone: 575-988-8753 **OCD Only** Received by: \_\_\_\_\_ Date: Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations. Closure Approved by: Hall Date: 11/6/2023 Title: Environmental Specialist Printed Name: Brittany Hall



July 10, 2018

NMOCD District I Olivia Yu 1625 N. French Drive Hobbs, NM 88240

Souder, Miller & Associates 201 S. Halagueno St. Carlsbad, NM 88220

(575) 689-8801

REVIEWED By Olivia Yu at 10:22 am, Jul 25, 2018

NMOCD agrees that delineation is completed for 1RP-4869 & 1RP-5003. See email correspondence regarding remediation.

#5E27122-BG8

SUBJECT: SOIL REMEDIATION CLOSURE REPORT FOR THE INCIDENTS AT THE TONTO 15 STATE #1, LEA COUNTY, NEW MEXICO

Dear Ms. Yu:

On behalf of Marathon Oil Permian LLC, Souder, Miller & Associates (SMA) has prepared this CLOSURE REPORT that describes the assessment, delineation and remediation for the releases associated with the Tonto 15 State #1. The site is in UNIT I, SECTION 15, TOWNSHIP 18S, RANGE 34E, NMPM, Lea County, New Mexico, on State land. Figure 1 illustrates the vicinity and location of the site. Table 1, below, summarizes information regarding the release.

Table 1: Release information and Site Ranking		
Name	Tonto 15 State #1	
Company	Marathon Oil Permian LLC	
Incident Number	1RP-4869	
	1RP-5003	
API Number	30-025-28897	
Location	32.7459831, -103.5429764	
Estimated Date of Release	1RP-4869-October 29, 2017	
Estimated Date of Release	1RP-5003-March 14, 2018	
Date Reported to NMOCD	1RP-4869-November 2, 2017	
	1RP-5003-March 15, 2018	
Land Owner	State	
Reported To	NMOCD District I	
Source of Release	1RP-4869-Stuffing Box	
	1RP-5003-Stuffing Box	
Released Material	1RP-4869-Oil	
	1RP-5003-Oil	
Released Volume	1RP-4869-23 bbls	
	1RP-5003-6.32 bbls	
Recovered Volume	1RP-4869-12 bbls	
	1RP-5003-5.3 bbls	
Net Release	1RP-4869-11 bbls	
	1RP-5003-1.02 bbls	
Nearest Waterway	Surface water is approximately 2,660' SW of location	
Depth to Groundwater	Estimated to be 100'	
Nearest Domestic Water Source	Greater than 1,000 feet	
NMOCD Ranking	0	
SMA Response Dates	April 26, 2018, May 17, 2018, June 7, 2018	

Page 7 of 406

Page 2 of 4

Tonto 15 State #1 July 10, 2018

# **1.0 Background**

On October 29, 2017, a 23 bbl oil spill occurred due to a valve at the well being inadvertently closed, which resulted in the stuffing box forming a leak (1RP-4869). The surface impact was confined to the well pad and access road. An area of approximately 144 feet wide by 4 feet long was impacted on the well pad. An area approximately 16 feet wide and 48 feet long was impacted on the access road. A vacuum truck was able to recover approximately 12 bbls of standing fluid.

On March 14, 2018, a 6.32 bbls oil spill occurred due to a stuffing box leak (1RP-5003). The surface impact was confined to the well pad. Two areas of impact were observed measuring approximately 55 feet wide by 3 feet long and 30 feet wide by 30 feet long. A vacuum truck was able to recover approximately 1 bbl of standing fluid.

# 2.0 Site Ranking and Land Jurisdiction

The release site is located near Artesia, New Mexico with an elevation of approximately 4,020 feet above sea level. SMA searched the New Mexico State Engineer's Office (NMOSE) online water well database for water wells in the vicinity of the release. Several wells are located within a three-mile radius of the site. After evaluation of the site using aerial photography and topographic maps, depth to groundwater is estimated to be 100 feet below ground surface (bgs).

Recommended Remediation Action Levels (RRALs) are determined by the site ranking according to the NMOCD Guidelines for Remediation of Leaks, Spills, and Releases (1993). Below in Table 2 are the remediation standards and the site ranking for this location. Justification for this site ranking is found in Figure 1 and Appendix B.

0

Table 2.			
Soil Remediation Standards	0 to 9	10 to 19	>19
Benzene	10 PPM	10 PPM	10 PPM
BTEX	50 PPM	50 PPM	50 PPM
ТРН	5000 PPM	1000 PPM	100 PPM

**NMOCD Numeric Rank** Depth to Groundwater < 50 BGS = 20 50' to 99' = 10 >100' = 0 NMOCD Numeric Rank **Distance to Nearest Surface Water** < 200' = 20 2001 10001 - 10

$200^{\circ} - 1000^{\circ} = 10^{\circ}$	
>1000' = 0	0
Well Head Protection	NMOCD Numeric Rank
<1000' (or <200' domestic) = 20	
> 1000' = 0	0
Total Site Ranking	0

Page 3 of 4

Tonto 15 State #1 July 10, 2018

## 3.0 Release Characterization

On April 26, 2018, SMA field personnel assessed the release area. Soil samples were field-screened using a mobile EC unit (EPA 4500) and a calibrated MiniRAE 3000 photoionization detector (PID). Five sample locations (L1-L5) were augured by hand to a maximum depth of 1 foot bgs to characterize the release.

On May 17, 2018, SMA field personnel returned to the location to further delineate sample locations L1 through L5 with a backhoe service. The backhoe encountered limestone bedrock across the pad at depths that ranged from 10 inches to 2 feet. This occurance is validated in the Web Soil Survey (USDA), which states that bedrock should be found from 10 to 16 inches and will continue to at least 80 inches.

As summarized in Table 3, results indicated that hydrocarbon impacts were primarily surficial (0.5 foot), with chloride impacts extending to at least 1.5 feet. SMA recommended excavation of the impacted area to remove chloride-contaminated soil, or until bedrock was encountered.

All samples were collected and processed according to NMOCD soil sampling procedures. The samples were sent under chain-of-custody protocols to Hall Environmental Analysis Laboratory for analysis for MRO, DRO, and GRO by EPA Method 8015D, BTEX by EPA Method 8021, and Chlorides by Method 300. Sample locations are depicted on Figure 2. All field screening and laboratory results are summarized in Table 3. Laboratory reports are included in Appendix C.

# 4.0 Soil Remediation

SMA guided the excavation in the impact area to bedrock. Sample L4 was excavated to 1 foot bgs, sample locations L2 and L3 were excavated to 1.5 feet bgs, and the pooling area around sample location L5 was excavated to 2 feet bgs. SMA continuously guided the excavation activities by collecting soil samples for field screening with a mobile EC unit (EPA 4500) and PID unit. Seven sidewall samples were collected from the excavated area to demonstrate lateral delineation. However, one sidewall (SW6) and two bottom hole (L2 and L3) samples still resulted in elevated chlorides, so these areas were extended and resampled on June 20, 2018.

All samples were collected and processed according to NMOCD soil sampling procedures. The samples were sent under chain-of-custody protocols to Hall Environmental Analysis Laboratory for analysis for MRO, DRO, and GRO by EPA Method 8015D, BTEX by EPA Method 8021, and Chlorides by Method 300. Contaminated soils were removed and replaced with clean backfill material to return the surface to previous contours. The contaminated soils were transported for proper disposal at an NMOCD permitted disposal facility. Sample location L1 was not excavated due to multiple electrical lines and proximity to the pump jack. We are requesting to defer the cleanup in the area until site abandonment.

# 5.0 Scope and Limitations

The scope of our services consisted of the performance of assessment sampling, verification of release stabilization, regulatory liaison, remediation and preparation of this closure report. All work has been performed in accordance with generally accepted professional environmental consulting practices for oil and gas releases in the Permian Basin in New Mexico.

Tonto 15 State #1 July 10, 2018 Page 4 of 4

If there are any questions regarding this report, please contact either Austin Weyant at 575-689-8801 or Shawna Chubbuck at 505-325-7535.

Submitted by: SOUDER, MILLER & ASSOCIATES Reviewed by:

histo Merant

Austin Weyant Project Scientist

hauna Chubbuck

Shawna Chubbuck Senior Scientist

### ATTACHMENTS:

### Figures:

Figure 1: Vicinity and Well Head Protection Map Figure 2: Site and Sample Location Map

### Tables:

Table 3: Summary of Sample Results

### **Appendices:**

Appendix A: Form C141 Initial Appendix B: NMOSE Wells Report Appendix C: Laboratory Analytical Reports

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# FIGURE 1 VICINITY AND NMOSE DATA MAP



# FIGURE 2 SITE AND SAMPLE LOCATION MAP



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# TABLE 3 SUMMARY SAMPLE RESULTS

# Tonto 15 State #1

Table 3.

Sample		_		BTEX	Benzene	GRO	DRO	MRO	Total TPH	CI-
Number on Figure 2	Sample Date	Depth (feet bgs)	Action Taken	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	Laboratory mg/Kg
	NMOCD RRAL's	for Site Ranking	0	50 mg/Kg	10 mg/Kg				5000 mg/Kg	600
L1	4/26/2018	0.5	in-situ	141	<0.49	970	23000	9300	33270	920
LI	5/17/2018	2.5	in-situ	<0.23	<0.025	<5.0	45	55	100	490
	4/26/2018	0.5	excavated	49.9	<0.46	480	17000	7900	25380	210
L2	5/17/2018	1	excavated	<0.23	<0.023	<4.7	66	53	119	860
LZ	6/7/2018	1.5	excavated			<4.8	500	420	920	770
	6/20/2018	1.75	in-situ			<4.7	12	<47	12	120
	4/26/2018	0.5	excavated	120	<0.50	970	17,000	6,200	24,170	250
L3	5/17/2018	1	excavated	0.5	<0.024	9.8	2000	1200	3209.8	2100
LS	6/7/2018	1.5	excavated			5.2	680	640	1325.2	1900
	6/20/2018	1.75	in-situ			<4.6	180	<48	180	160
L4	4/26/2018	0.5	excavated	147	<0.48	1400	17000	5900	24300	300
L4	5/17/2018	1	in-situ	<0.23	<0.025	<5.0	23	<50	23	530
	4/26/2018	1	excavated	2.75	<0.12	31	6100	3800	9931	920
L5	5/17/2018	1.5	excavated	<0.23	<0.024	<4.8	690	470	1160	1200
	5/17/2018	2	in-situ	<0.23	<0.024	<4.9	22	<50	22	250
SW1	6/7/2018	sidewall	in-situ			<4.8	60	61	121	180
SW2	6/7/2018	sidewall	in-situ			<4.7	110	210	320	610
SW3	6/7/2018	sidewall	in-situ			<4.8	<9.9	<50	<65	480
SW4	6/7/2018	sidewall	in-situ			<4.9	550	390	940	57
SW5	6/7/2018	sidewall	in-situ			<4.7	160	350	510	120
CN/C	6/7/2018	sidewall	excavated			<4.8	35	60	95	1200
SW6	6/20/2018	sidewall	in-situ							550
SW7	6/7/2018	sidewall	in-situ			<4.8	20	<47	20	380
SP	4/26/2018	comp	hauled	13.1	<0.12	94	7400	5300	12794	1500

"--" = Not Analyzed

# APPENDIX A FORM C141 INITIAL

State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised April 3, 2017

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

API No. :30-025-28897

### **Release Notification and Corrective Action**

	<b>OPERATOR</b>	Initial Report	Final Repo
Name of Company Marathon Oil Permian LLC	Contact Raquel Chacon		
Address 5555 San Felipe Street, Houston, Texas 77056	Telephone No. 281-910-0441	(cell) 575-297-0988 (offi	ice)
Facility Name: Tonto 15 State #1	Facility Type Oil and gas prod	duction facilities	
	· · · · · · · · · · · · · · · · · · ·		

Surface: Owner: State of NM

### LOCATION OF RELEASE

Mineral: Owner: State of NM

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County					
Ι	15	18S	34E	1980	South	900	East	Lea					

#### Latitude 32.745796 Longitude -103.542489

### NATURE OF RELEASE

Type of Release : Oil	Volume of Release : 23 bbls	Volume Recovered : 12 bbls						
Source of Release: stuffing box	Date and Hour of Occurrence	Date and Hour of Discovery						
	10/29/2017 approximately 8:00 10/29/2017 4:30 pm							
	am							
Was Immediate Notice Given?	If YES, To Whom?							
🗌 Yes 🔲 No 🖾 Not Required								
By Whom?	Date and Hour							
Was a Watercourse Reached?	If YES, Volume Impacting the Wat	tercourse.						
🗌 Yes 🖾 No								
If a Weters and I Describe Fully *								
If a Watercourse was Impacted, Describe Fully.*	RECEIVED							
Not applicable.	By Olivia Vy at 2	22 pm Nov 15 2017						
	by Olivia Tu at 3.	22 pm, Nov 15, 2017						
Describe Cause of Problem and Remedial Action Taken.*								
The valve at the wellhead was found to be shut by an unknown source. The	e well was still active and resulted in	a release at the stuffing box. The pumping						
unit was shut in immediately until the cause was discovered. A vacuum tr								
and the unit was put back on-line.								
1								
Describe Area Affected and Cleanup Action Taken.*								
The area affected was on the well pad and access road. The area on the w	ell pad was 144' wide by 4' long and	the area on the road was 16' wide and 48'						
long. An 811 call was placed immediately in order for a backhoe to	o remove contaminants in order to	prevent further impact to soils or						
tracking with vehicles. Soil samples will be submitted to a laborat								
corrective actions were effective.								
I hereby certify that the information given above is true and complete to the								
regulations all operators are required to report and/or file certain release n								
public health or the environment. The acceptance of a C-141 report by the								
should their operations have failed to adequately investigate and remediate								
or the environment. In addition, NMOCD acceptance of a C-141 report d	oes not relieve the operator of respons	sibility for compliance with any other						
federal, state, or local laws and/or regulations.								
Signature: Bagual Chasen	OIL CONSERV	ATION DIVISION						
Signature: Raquel Chacon								
Printed Name: Raquel Chacon		PV /						
Finted Name. Raquel Chacon	Approved by Environmental Specialis	st:						
	11/15/2017							
Title: HES Environmental Professional	Approval Date:	Expiration Date:						
E mail Address whereas Groundham 'l	Conditions of Annual							
E-mail Address: rchacon@marathonoil.com	Conditions of Approval:							
		Attached						
Date: 11/2/2017	see attached directive							

\* Attach Additional Sheets If Necessary

1RP-4869

nOY1731955602

pOY1731959593

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### Operator/Responsible Party,

The OCD has received the form C-141 you provided on \_11/6/2017\_ regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number \_1RP-4869\_ has been assigned. Please refer to this case number in all future correspondence.

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

The responsible person shall complete <u>division-approved corrective action</u> for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC. [emphasis added]

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District \_1\_ office in \_\_Hobbs\_\_\_\_ on or before \_12/15/2017\_. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.

The goals of a characterization effort are: 1) determination of the lateral and vertical extents along with the magnitude of soil contamination. 2) determine if groundwater or surface waters have been impacted. 3) If groundwater or surface waters have been impacted, what are the extents and magnitude of that impact. 4) The characterization of any other adverse impacts that may have occurred (examples: impacts on vegetation, impacts on wildlife, air quality, loss of use of property, etc.). To meet these goals as quickly as possible, the following items must, at a minimum, be addressed in the release characterization workplan and subsequent reporting:

• Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C<sub>6</sub> thru C<sub>36</sub>), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.

• Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C<sub>6</sub> thru C<sub>36</sub>), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.

• Nominal detection limits for field and laboratory analyses must be provided.

• Composite sampling is not generally allowed.

• Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

for laboratory analysis from each borehole or test pit (highest observed contamination and deepest depth investigated). Copies of the actual laboratory results must be provided including chain of custody documentation.

•Probable depth to shallowest protectable groundwater and lateral distance to nearest surface water. If there is an estimate of groundwater depth, the information used to arrive at that estimate must be provided. If there is a reasonable assumption that the depth to protectable water is 50 feet or less, the responsible party should anticipate the need for at least one groundwater monitoring well to be installed in the area of likely maximum contamination.

• If groundwater contamination is encountered, an additional investigation workplan may be required to determine the extents of that contamination. Groundwater and/or surface water samples, if any, must be analyzed by a competent laboratory for volatile organic hydrocarbons (typically Method 8260 full list), total dissolved solids, pH, major anions and cations including chloride and sulfate, dissolved iron, and dissolved manganese. The investigation workplan must provide the groundwater sampling method(s) and sample handling protocols. To the fullest extent possible, aqueous analyses must be undertaken using nominal method detection limits. As with the soil analyses, copies of the actual laboratory results must be provided including chain of custody documentation.

• Accurately scaled and well-drafted site maps must be provided providing the location of borings, test pits, monitoring wells, potentially impacted areas, and significant surface features including roads and site infrastructure that might limit either the release characterization or remedial efforts. Field sketches may be included in subsequent reporting, but should not be considered stand-alone documentation of the site's layout. Digital photographic documentation of the location and fieldwork is recommended, especially if unusual circumstances are encountered.

Nothing herein should be interpreted to preclude emergency response actions or to imply immediate remediation by removal cannot proceed as warranted. Nonetheless, characterization of impacts and confirmation of the effectiveness of remedial efforts must still be provided to the OCD before any release incident will be closed.

Jim Griswold OCD Environmental Bureau Chief 1220 South St. Francis Drive Santa Fe, New Mexico 87505 505-476-3465 jim.griswold@state.nm.us State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised April 3, 2017

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

1220 S. St. Fran	icis Dr., Santa	Fe, NM 87505		S	anta Fe	e, NM 875	05							
			Rele	ase Notifi	cation	and Co	rrec	ctive A	ctio	n				
						<b>OPERA</b>	<b>FOR</b>			🛛 Initi	al Report		Final Report	
Name of Co	ompany Ma	rathon Oil F	Permian I	LC		Contact Callie Karrigan								
Address 55	55 San Felij	pe Street, H	ouston, T	exas 77056	,	Telephone No. 405-202-1028 (cell) 575-297-0956 (office)								
Facility Nat	me: Tonto 1	5 State #1			]	Facility Typ	e Oil a	and gas pr	oduct	tion facilitie	es			
Surface: Ov	vner: State			Mineral:	Owner <sup>.</sup>	State				API No	. :30-025-2	8897		
Surface. 04	where blute						ТАС	SE.		minte		20077		
Unit Letter	Section	Township	Range	Feet from the		N OF REI South Line		from the	East	/West Line	County			
Ι	15	18S	34E	1980	South		900		East		Lea			
				Latitude 32.	746234	Longitude	32.	745983	1,-1	03.54297	764			
						OF RELI	-							
Type of Rele	ase : Oil			1 1 1 1		Volume of			rrels	Volume I	Recovered : :	5.30 b	arrels	
Source of Re		ig box				Date and H					Hour of Dis			
		-				3/14/18 un				3/14/18 0	1:15 pm	-		
Was Immedi	ate Notice G		Yes	No 🗌 Not R	equired	If YES, To Olivia Yu	Whom	1?						
By Whom? (	Callie Karrig				1	Date and H	our 03	/15/18 11:	15 am					
Was a Water		ned?		-		If YES, Vo				atercourse.				
			Yes 🛛	No										
If a Waterco	-	acted, Descri	ibe Fully.*	<		R	<b>C</b> E	IVED	)					
Not applicab	le.									4.94	. A		040	
						Ву	OIN	via vu	at	1:31 pn	i, Apr C	12, 4	2018	
Describe Cau	use of Proble	m and Reme	dial Action	n Taken.*										
				d onsite and obse					er of t	he wellhead.	Upon inves	tigatio	on, it was	
found the stu	iffing box ha	d released an	d misted a	pproximately 6.3	32 barrels	onsite aroun	d the w	vellhead.						
Describe Are	ea Affected a	nd Cleanup A	Action Tak	en.*										
		-												
				vac truck was di										
down.	rmation samp	oles will be ta	ken and u	ne affected area v	viii de da	ckilled. In a	antion	, the wellne	ead an	a equipment	will also be	wasn	ed and wiped	
	ify that the ir	formation gi	ven above	is true and com	plete to th	ne best of my	knowle	edge and u	nderst	and that purs	suant to NM	OCD 1	rules and	
regulations a	ll operators a	re required to	o report ar	d/or file certain	release no	otifications a	nd perf	orm correc	tive ac	ctions for rel	eases which	may e	endanger	
				e of a C-141 rep										
				investigate and tance of a C-141										
federal, state				talice of a C-141	report de	Jes not renev	e the of	perator or r	lespon	isibility for c	omphance w	iui an	y other	
	,						OI	L CON	SER	VATION	DIVISIO	)N		
Signature: C	allie Karr	rígan					<u></u>	<u>L 001</u>				<u>, , , , , , , , , , , , , , , , , , , </u>		
	a 11 - 11									67	_			
Printed Nam	e: Callie Kar			Approved by Environmental Specialist:										
Title: HES P	rofessional			Approval Date: 4/2/2018 Expiration Date:										
E-mail Addr	ess: cnkarrig	an@maratho	noil.com			Conditions of Approval:								
					_	Attached								
Date: 03/28/					see attached directive									
Phone: 405-				fice)										
<sup>c</sup> Attach Addi	tional Shee	ts If Necess	ary						000	249211	7			
					1	RP-5003			0094	249211				

pOY1809249756

### Operator/Responsible Party,

The OCD has received the form C-141 you provided on \_3/28/2018\_ regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number \_1RP-5003\_ has been assigned. Please refer to this case number in all future correspondence.

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

The responsible person shall complete <u>division-approved corrective action</u> for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC. [emphasis added]

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District \_1\_ office in \_\_Hobbs\_\_\_\_ on or before \_5/2/2018\_. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.

The goals of a characterization effort are: 1) determination of the lateral and vertical extents along with the magnitude of soil contamination. 2) determine if groundwater or surface waters have been impacted. 3) If groundwater or surface waters have been impacted, what are the extents and magnitude of that impact. 4) The characterization of any other adverse impacts that may have occurred (examples: impacts on vegetation, impacts on wildlife, air quality, loss of use of property, etc.). To meet these goals as quickly as possible, the following items must, at a minimum, be addressed in the release characterization workplan and subsequent reporting:

• Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C<sub>6</sub> thru C<sub>36</sub>), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.

• Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C<sub>6</sub> thru C<sub>36</sub>), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.

• Nominal detection limits for field and laboratory analyses must be provided.

• Composite sampling is not generally allowed.

• Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

for laboratory analysis from each borehole or test pit (highest observed contamination and deepest depth investigated). Copies of the actual laboratory results must be provided including chain of custody documentation.

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Jim Griswold OCD Environmental Bureau Chief 1220 South St. Francis Drive Santa Fe, New Mexico 87505 505-476-3465 jim.griswold@state.nm.us

# APPENDIX B NMOSE WELLS REPORT



# 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	(R=POD has been replace O=orphaned, C=the file is		(quai	ters a	are 1	=NW	2=NE 3	3=SW 4=SE	,				
water right file.)	closed)		(quai	ters a	are si	malles	st to lar	gest) (NA	AD83 UTM in me	eters)	(	n feet)	_
	POD Sub-		Q	QQ							Depth	Depth	Water
POD Number	Code basin	Count			Sec	Tws	Rng	х	Y	Distance			Column
L 04531	L	LE		13	14	18S	34E	637016	3624067* 🌍	512	125	100	25
L 09775	L	LE	1	23	14	18S	34E	637249	3624084 🌍	744	183	110	73
L 05881	L	LE		1 1	15	18S	34E	635395	3624846* 🌍	1355	230	110	120
L 01613 S2	L	LE	2	33	11	18S	34E	637095	3625374* 🌍	1435	220	99	121
L 05876	L	LE	3	14	10	18S	34E	636085	3625563* 🌍	1554	230	110	120
L 05374	L	LE		22	16	18S	34E	634994	3624840* 🌍	1696	192	105	87
L 05882	L	LE		14	16	18S	34E	634605	3624030* 🌍	1899	230	110	120
L 01613	L	LE	3	14	11	18S	34E	637696	3625589* 🌍	1933	211	85	126
L 13211 POD1	L	LE	4	34	16	18S	34E	634629	3623592 🌍	1934	140		
L 05875	L	LE		42	10	18S	34E	636581	3626073* 🌍	2008	230	110	120
L 09767	L	LE		33	13	18S	34E	638636	3623688* 🌍	2165	182	96	86
L 03765 POD4	L	LE	2	12	27	18S	34E	636475	3621831 🌍	2235	180	80	100
L 09750	L	LE		33	22	18S	34E	635440	3622029* 🌍	2298	200		
L 05574	R L	LE	1	33	12	18S	34E	638509	3625399* 🌍	2407			
L 05355	L	LE		12	10	18S	34E	636173	3626469* 🌍	2425	186	110	76
L 02499 POD3	L	LE	1	1 1	27	18S	34E	635252	3621814 🌍	2576	180	121	59
L 05885	L	LE		2 1	11	18S	34E	637380	3626489* 🌍	2576	230	110	120
L 05079	L	LE		13	12	18S	34E	638604	3625702* 🌍	2662	159	76	83
L 02722 S3	L	LE		43	02	18S	34E	637374	3626892* 🌍	2956			
L 13634 POD1	L	LE	3	3 1	27	18S	34E	635352	3621122 🌍	3160	182	152	30
L 01614	L	LE	3	14	12	18S	34E	639305	3625618* 🌍	3202	204	85	119
L 05139	L	LE		2 1	12	18S	34E	638992	3626517* 🌍	3492	150	95	55
L 07361	L	LE		2 1	12	18S	34E	638992	3626517* 🌍	3492	202	100	102
L 04160	L	LE		33	01	18S	34E	638585	3626911* 🌍	3524	165	100	65
L 09752	L	LE	3	12	20	18S	34E	632968	3623188 🌍	3643	179	130	49
L 05788 POD10	L	LE	4	4 1	02	18S	34E	637459	3627596* 🌍	3656	240	100	140
*UTM location was derived f	rom PLSS - see	Help											

5/14/18 2:23 PM

### Received by OCD: 9/21/2023 6:16:51 AM

water right file.)

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) Page 25 of 406

(In	feet)	

	POD Sub-		Q	QQ	!						Depth	Depth	Water
POD Number	Code basin (	-					-	Х	Y	Distance			Column
L 05788 POD17	L	LE	4	4 1	02	18S	34E	637459	3627596* 🌍	3656	240	97	143
L 13563 POD1	L	LE	4	4 4	20	18S	34E	633506	3621920 🌍	3686	200		
<u>L 03721</u>	L	LE		33	18	18S	35E	640241	3623717* 🌍	3753	161	90	71
<u>L 10236</u>	L	LE		33	27	18S	34E	635466	3620420* 🌍	3790			
L 10344 POD2	L	LE		33	27	18S	34E	635466	3620420* 🌍	3790	142	112	30
L 13526 POD1	L	LE	2	2 1	20	18S	34E	632769	3623271 🌍	3818	196	106	90
L 05788 POD19	L	LE	2	4 1	02	18S	34E	637459	3627796* 🌍	3850	240	98	142
L 12633 POD1	L	LE	2	2 2	34	18S	34E	636852	3620203 🌍	3877	180	117	63
L 04851	L	LE		4 2	12	18S	34E	639801	3626130* 🌍	3889	155	95	60
L 05788 POD20	L	LE	1	32	02	18S	34E	637662	3627802* 🌍	3911	240	96	144
L 05788 POD7	L	LE	1	32	02	18S	34E	637662	3627802* 🌍	3911	240		
<u>L 05172</u>	L	LE		33	07	18S	35E	640214	3625331* 🌍	3919	161	85	76
L 03888	L	LE		3 1	19	18S	35E	640253	3622912* 🌍	3922	107	70	37
L 10202	L	LE		4 4	- 28	18S	34E	635065	3620414* 🌍	3925	70	50	20
L 05788 POD11	L	LE	2	32	02	18S	34E	637862	3627802* 🌍	3975	240	95	145
L 05788 POD16	L	LE	2	3 2	02	18S	34E	637862	3627802* 🌍	3975	240	96	144
L 05788 POD6	L	LE	2	3 2	02	18S	34E	637862	3627802* 🌍	3975	240	94	146
L 05788 POD9	L	LE	2	3 2	02	18S	34E	637862	3627802* 🌍	3975	250	95	155
L 05788 POD15	L	LE	4	2 1	02	18S	34E	637451	3627998* 🌍	4044	240		
L 05788 POD4	L	LE	4	2 1	02	18S	34E	637451	3627998* 🌍	4044	240	98	142
L 04931 X	L	LE		13	07	18S	35E	640208	3625735* 🌍	4062	212	105	107
L 09576	L	LE		1 1	35	18S	34E	637082	3620041* 🌍	4066	180	130	50
CP 01582 POD1	CP	LE	2	1 2	29	18S	34E	633167	3621715 🌍	4081	180	180	0
L 02722 S	L	LE	3	1 2	02	18S	34E	637654	3628004* 🌍	4102	236	70	166
L 05788 POD14	L	LE	3	1 2	02	18S	34E	637654	3628004* 🌍	4102	240	97	143
L 05788 POD18	L	LE	3	1 2	02	18S	34E	637654	3628004* 🌍	4102	240	97	143
L 05788 POD21	L	LE	3	1 2	02	18S	34E	637654	3628004* 🌍	4102	240	96	144
L 12926 POD1	L	LE	2	23	25	18S	34E	639839	3621631 🌍	4129	182	117	65
<u>L 05788</u>	L	LE	4	1 2	02	18S	34E	637854	3628004* 🌍	4162	230	97	133

\*UTM location was derived from PLSS - see Help

5/14/18 2:23 PM

### Received by OCD: 9/21/2023 6:16:51 AM

water right file.)

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 Sub-		Q	QQ	2						Depth	Depth	Water
POD Number	Code basin						-	Х	Y	Distance			Column
L 05788 POD12	L	LE	4	1 2	2 02	18S	34E	637854	3628004* 🌍	4162	240	94	146
L 05788 POD13	L	LE	4	1 2	2 02	18S	34E	637854	3628004* 🌍	4162	240	95	145
L 04906	L	LE		3	07	18S	35E	640415	3625532* 🌍	4176	155	87	68
L 10345 POD2	L	LE		23	3 20	18S	34E	632620	3622393* 🌍	4228	130	120	10
L 02722 S2	L	LE	3	2 2	02	18S	34E	638057	3628011* 🌍	4239	228	89	139
L 05788 POD2	L	LE	3	2 2	2 02	18S	34E	638057	3628011* 🌍	4239	240	98	142
L 05788 POD5	L	LE	3	2 2	2 02	18S	34E	638057	3628011* 🌍	4239	240	94	146
L 05788 POD8	L	LE	3	2 2	2 02	18S	34E	638057	3628011* 🌍	4239	240	95	145
L 07928	L	LE	4	4 1	19	18S	35E	640639	3622915 🌍	4292	175		
L 05788 POD22	L	LE	4	2 2	2 02	18S	34E	638257	3628011* 🌍	4316			
L 08100	L	LE	3	4 4	34	17S	34E	636439	3628393* 🌍	4327	135	80	55
L 05851	L	LE		1	34	18S	34E	635681	3619816* 🌍	4329	240	85	155
L 05788 POD3	L	LE	2	1 2	2 02	18S	34E	637854	3628204* 🌍	4352	240	97	143
L 04953	L	LE	4	33	8 08	18S	34E	632269	3625104* 🌍	4360	200	150	50
L 06031	L	LE		2 2	2 02	18S	34E	638158	3628112* 🌍	4370	230	102	128
L 02722	L	LE	3	1 1	01	18S	34E	638460	3628017* 🌍	4408	229	105	124
L 02724 S3	L	LE		3 4	34	17S	34E	636137	3628487* 🌍	4436	210	95	115
L 05883	L	LE		34	34	17S	34E	636137	3628487* 🌍	4436	244	93	151
<u>L 10040</u>	L	LE		33	80 8	18S	34E	632170	3625205* 🌍	4481	215	145	70
<u>L 10346</u>	L	LE		3	20	18S	34E	632425	3622187* 🌍	4490	130		
<u>L 10436</u>	L	LE		3	20	18S	34E	632425	3622187* 🌍	4490	120	80	40
<u>L 04975</u>	L	LE	2	23	07	18S	35E	640688	3625837* 🌍	4543	152	105	47
<u>L 06115</u>	L	LE	1	1 1	01	18S	34E	638460	3628217* 🌍	4588	230	110	120
<u>L 02349</u>	R L	LE	3	1 4	07	18S	35E	640891	3625641* 🌍	4661	207	85	122
<u>L 06029</u>	L	LE		4 4	35	17S	34E	638150	3628523* 🌍	4751	230	102	128
<u>L 04778</u>	L	LE		2 1	07	18S	35E	640575	3626545* 🌍	4766	150	75	75
L 02724 S4	L	LE	3	33	36	17S	34E	638451	3628429* 🌍	4777	230	140	90
L 02349 POD2	L	LE	4	1 4	07	18S	35E	641091	3625641* 🌍	4849	214	85	129
L 02349 POD3	L	LE	4	1 4	07	18S	35E	641091	3625641 🌍	4849	220	142	78

\*UTM location was derived from PLSS - see Help

5/14/18 2:23 PM

Received by OCD: 9/21/20	023 6:16:51 AM	1										Page	27 of 406
(A CLW##### in the POD suffix indicates the	(R=POD has been replaced	d,											
POD has been replaced & no longer serves a	O=orphaned, C=the file is	(	auarte	ersa	are 1	=NW	2=NE :	3=SW 4=SE	)				
water right file.)	closed)		•				st to lar		, AD83 UTM in me	eters)	(	In feet)	
	POD												
	Sub-		QC								-	Depth	
POD Number	Code basin (	County	/ 64 1	64	Sec	Tws	Rng	Х	Y	Distance	Well	Water (	Column
L 05842	L	LE		4	35	17S	34E	637948	3628716* 🌍	4868	240	95	145
L 06030	L	LE	;	33	36	17S	34E	638552	3628530* 🌍	4911	230	102	128
<u>L 04794</u>	L	LE		4	07	18S	35E	641200	3625540* 🌍	4921	150	95	55
L 10467	L	LE		12	01	18S	34E	639365	3628137* 🌍	4975	231	115	116
									Avera	ge Depth to	Water:	101 1	eet
										Minimum	Depth:	50 f	eet
										Maximum	Depth:	180 1	eet
Record Count: 88													

#### Record Count: 88

### UTMNAD83 Radius Search (in meters):

Easting (X): 636503.91

Northing (Y): 3624066.14

Radius: 5000

#### \*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.

# APPENDIX C LABORATORY ANALYTICAL REPORTS



May 10, 2018

Austin Weyant Souder, Miller & Associates 201 S Halagueno Carlsbad, NM 88221 TEL: (575) 689-7040 FAX Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: <u>www.hallenvironmental.com</u>

OrderNo.: 1805017

RE: Tonto

Dear Austin Weyant:

Hall Environmental Analysis Laboratory received 6 sample(s) on 5/1/2018 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to <u>www.hallenvironmental.com</u> or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

**Project:** 

Lab ID:

**CLIENT:** Souder, Miller & Associates

1805017-001

Tonto

Analytical Report
Lab Order 1805017

Hall Environmental Analysis Laboratory, Inc.	Date I

Matrix: SOIL

Lab Order **1805017** Date Reported: **5/10/2018** 

Client Sample ID: L1-3"	
Collection Date: 4/26/2018 2:43:00 PM	
Received Date: 5/1/2018 9:15:00 AM	

Analyses	Result	PQL (	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	MRA
Chloride	920	30		mg/Kg	20	5/7/2018 1:43:15 PM	37967
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS	;				Analyst	том
Diesel Range Organics (DRO)	23000	1000		mg/Kg	100	5/4/2018 2:40:42 AM	37916
Motor Oil Range Organics (MRO)	9300	5000		mg/Kg	100	5/4/2018 2:40:42 AM	37916
Surr: DNOP	0	70-130	S	%Rec	100	5/4/2018 2:40:42 AM	37916
EPA METHOD 8015D: GASOLINE RAN	GE					Analyst	: NSB
Gasoline Range Organics (GRO)	970	97		mg/Kg	20	5/3/2018 12:15:25 PM	37890
Surr: BFB	478	15-316	S	%Rec	20	5/3/2018 12:15:25 PM	37890
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Methyl tert-butyl ether (MTBE)	ND	1.9		mg/Kg	20	5/3/2018 12:15:25 PM	37890
Benzene	ND	0.49		mg/Kg	20	5/3/2018 12:15:25 PM	37890
Toluene	19	0.97		mg/Kg	20	5/3/2018 12:15:25 PM	37890
Ethylbenzene	48	0.97		mg/Kg	20	5/3/2018 12:15:25 PM	37890
Xylenes, Total	74	1.9		mg/Kg	20	5/3/2018 12:15:25 PM	37890
Surr: 4-Bromofluorobenzene	197	80-120	S	%Rec	20	5/3/2018 12:15:25 PM	37890

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 1 of 10
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Analytical Report
Lab Order 1805017

Hall Environmental Analysis Laboratory, Inc.	Dat

Lab Order **1805017** Date Reported: **5/10/2018** 

CLIENT: Souder, Miller & Associates		Client Sample ID: L2-3" Collection Date: 4/26/2018 2:38:00 PM									
Project: Tonto											
Lab ID: 1805017-002	Matrix:	SOIL		Received I							
Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch				
EPA METHOD 300.0: ANIONS						Analys	t: MRA				
Chloride	210	30		mg/Kg	20	5/7/2018 1:55:39 PM	37967				
EPA METHOD 8015M/D: DIESEL RANG	GE ORGANICS	5				Analys	t: TOM				
Diesel Range Organics (DRO)	17000	940		mg/Kg	100	5/4/2018 3:27:39 AM	37916				
Motor Oil Range Organics (MRO)	7900	4700		mg/Kg	100	5/4/2018 3:27:39 AM	37916				
Surr: DNOP	0	70-130	S	%Rec	100	5/4/2018 3:27:39 AM	37916				
EPA METHOD 8015D: GASOLINE RAM	IGE					Analys	t: NSB				
Gasoline Range Organics (GRO)	480	92		mg/Kg	20	5/3/2018 1:02:06 PM	37890				
Surr: BFB	314	15-316		%Rec	20	5/3/2018 1:02:06 PM	37890				
EPA METHOD 8021B: VOLATILES						Analys	t: NSB				
Methyl tert-butyl ether (MTBE)	ND	1.8		mg/Kg	20	5/3/2018 1:02:06 PM	37890				
Benzene	ND	0.46		mg/Kg	20	5/3/2018 1:02:06 PM	37890				
Toluene	4.9	0.92		mg/Kg	20	5/3/2018 1:02:06 PM	37890				
Ethylbenzene	16	0.92		mg/Kg	20	5/3/2018 1:02:06 PM	37890				
Xylenes, Total	29	1.8		mg/Kg	20	5/3/2018 1:02:06 PM	37890				
Surr: 4-Bromofluorobenzene	148	80-120	S	%Rec	20	5/3/2018 1:02:06 PM	37890				

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:
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- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 2 of 10
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

**Project:** 

Lab ID:

**CLIENT:** Souder, Miller & Associates

1805017-003

Tonto

Analytical Report
Lab Order 1805017

Hall Environmental Analysis Laboratory, Inc.	Date Report

Matrix: SOIL

Date Reported: 5/10/2018
Client Sample ID: L3-3"

Collection Date: 4/26/2018 2:30:00 PM Received Date: 5/1/2018 9:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analys	t: MRA
Chloride	250	30		mg/Kg	20	5/7/2018 2:32:54 PM	37967
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANICS	i				Analys	t: TOM
Diesel Range Organics (DRO)	17000	960		mg/Kg	100	5/4/2018 4:14:34 AM	37916
Motor Oil Range Organics (MRO)	6200	4800		mg/Kg	100	5/4/2018 4:14:34 AM	37916
Surr: DNOP	0	70-130	S	%Rec	100	5/4/2018 4:14:34 AM	37916
EPA METHOD 8015D: GASOLINE RA	ANGE					Analys	t: NSB
Gasoline Range Organics (GRO)	970	99		mg/Kg	20	5/3/2018 1:49:06 PM	37890
Surr: BFB	495	15-316	S	%Rec	20	5/3/2018 1:49:06 PM	37890
EPA METHOD 8021B: VOLATILES						Analys	t: NSB
Methyl tert-butyl ether (MTBE)	ND	2.0		mg/Kg	20	5/3/2018 1:49:06 PM	37890
Benzene	ND	0.50		mg/Kg	20	5/3/2018 1:49:06 PM	37890
Toluene	14	0.99		mg/Kg	20	5/3/2018 1:49:06 PM	37890
Ethylbenzene	41	0.99		mg/Kg	20	5/3/2018 1:49:06 PM	37890
Xylenes, Total	65	2.0		mg/Kg	20	5/3/2018 1:49:06 PM	37890
Surr: 4-Bromofluorobenzene	192	80-120	S	%Rec	20	5/3/2018 1:49:06 PM	37890

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- \* Value exceeds Maximum Contaminant Level.D Sample Diluted Due to Matrix
- D Sample Difuted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 3 of 10
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

**Analytical Report** Lab Order 1805017

Hall Environmental Analysis Laboratory, Inc.	Da
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220

ate Reported: 5/10/2018

<b>CLIENT:</b> Souder, Miller & Associates <b>Project:</b> Tonto	Client Sample ID: L4-3" Collection Date: 4/26/2018 2:23:00 PM									
Lab ID: 1805017-004	Matrix: SOIL			Received l	2018 9:15:00 AM					
Analyses	Result	PQL (	)ual	Units	DF	Date Analyzed	Batch			
EPA METHOD 300.0: ANIONS						Analysi	MRA			
Chloride	300	30		mg/Kg	20	5/7/2018 2:45:18 PM	37967			
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS	5				Analyst	: том			
Diesel Range Organics (DRO)	17000	990		mg/Kg	100	5/4/2018 5:01:31 AM	37916			
Motor Oil Range Organics (MRO)	5900	5000		mg/Kg	100	5/4/2018 5:01:31 AM	37916			
Surr: DNOP	0	70-130	S	%Rec	100	5/4/2018 5:01:31 AM	37916			
EPA METHOD 8015D: GASOLINE RAN	GE					Analyst	: NSB			
Gasoline Range Organics (GRO)	1400	97		mg/Kg	20	5/4/2018 1:19:53 PM	37890			
Surr: BFB	684	15-316	S	%Rec	20	5/4/2018 1:19:53 PM	37890			
EPA METHOD 8021B: VOLATILES						Analyst	: NSB			
Methyl tert-butyl ether (MTBE)	ND	1.9		mg/Kg	20	5/3/2018 5:44:20 PM	37890			
Benzene	ND	0.48		mg/Kg	20	5/3/2018 5:44:20 PM	37890			
Toluene	15	0.97		mg/Kg	20	5/3/2018 5:44:20 PM	37890			

0.97

80-120

1.9

S

mg/Kg

mg/Kg

%Rec

20

20

20

5/3/2018 5:44:20 PM

5/3/2018 5:44:20 PM

5/3/2018 5:44:20 PM

37890

37890

37890

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Ethylbenzene

Xylenes, Total

Surr: 4-Bromofluorobenzene

- Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded Н
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 4 of 10 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified W

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Analytical Report
Lab Order 1805017

Hall Environmental Analysis Laboratory, Inc.
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Lab Order 1805017 Date Reported: 5/10/2018

CLIENT: Souder, Miller & Associates	Client Sample ID: L5-1									
Project: Tonto	Collection Date: 4/26/2018 2:56:00 PM									
Lab ID: 1805017-005	Matrix: SOIL			<b>Received Date: 5</b> /1/2018 9:15:00 AM						
Analyses	Result	PQL (	)ual	Units	DF	Date Analyzed	Batch			
EPA METHOD 300.0: ANIONS						Analys	t: MRA			
Chloride	920	30		mg/Kg	20	5/7/2018 3:22:33 PM	37967			
EPA METHOD 8015M/D: DIESEL RANG		5				Analys	t: TOM			
Diesel Range Organics (DRO)	6100	98		mg/Kg	10	5/5/2018 12:12:43 AM	37916			
Motor Oil Range Organics (MRO)	3800	490		mg/Kg	10	5/5/2018 12:12:43 AM	37916			
Surr: DNOP	0	70-130	S	%Rec	10	5/5/2018 12:12:43 AM	37916			
EPA METHOD 8015D: GASOLINE RANG	GE					Analys	t: NSB			
Gasoline Range Organics (GRO)	31	25		mg/Kg	5	5/4/2018 2:06:30 PM	37890			
Surr: BFB	129	15-316		%Rec	5	5/4/2018 2:06:30 PM	37890			
EPA METHOD 8021B: VOLATILES						Analys	t: NSB			
Methyl tert-butyl ether (MTBE)	ND	0.49		mg/Kg	5	5/3/2018 6:31:19 PM	37890			
Benzene	ND	0.12		mg/Kg	5	5/3/2018 6:31:19 PM	37890			
Toluene	0.49	0.25		mg/Kg	5	5/3/2018 6:31:19 PM	37890			
Ethylbenzene	0.86	0.25		mg/Kg	5	5/3/2018 6:31:19 PM	37890			
Xylenes, Total	1.4	0.49		mg/Kg	5	5/3/2018 6:31:19 PM	37890			

80-120

%Rec

5

5/3/2018 6:31:19 PM

37890

103

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- \* Value exceeds Maximum Contaminant Level.D Sample Diluted Due to Matrix
- D Sample Diluted Due to Maurix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 5 of 10
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Surr: 4-Bromofluorobenzene

**Project:** 

Lab ID:

**CLIENT:** Souder, Miller & Associates

1805017-006

Tonto

Analytical Report
Lab Order 1805017

Lab Order **1805017** Date Reported: **5/10/2018** 

Client Sample ID: SP
Collection Date: 4/26/2018 2:47:00 PM

Received Date: 5/1/2018 9:15:00 AM

Analyses	Result	PQL Q	)ual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	smb
Chloride	1500	75		mg/Kg	50	5/8/2018 11:55:09 PM	37967
EPA METHOD 8015M/D: DIESEL RAN	IGE ORGANICS	i				Analyst	том
Diesel Range Organics (DRO)	7400	96		mg/Kg	10	5/5/2018 12:56:40 AM	37916
Motor Oil Range Organics (MRO)	5300	480		mg/Kg	10	5/5/2018 12:56:40 AM	37916
Surr: DNOP	0	70-130	S	%Rec	10	5/5/2018 12:56:40 AM	37916
EPA METHOD 8015D: GASOLINE RA	NGE					Analyst	: NSB
Gasoline Range Organics (GRO)	94	23		mg/Kg	5	5/4/2018 2:53:24 PM	37890
Surr: BFB	207	15-316		%Rec	5	5/4/2018 2:53:24 PM	37890
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Methyl tert-butyl ether (MTBE)	ND	0.47		mg/Kg	5	5/3/2018 6:54:47 PM	37890
Benzene	ND	0.12		mg/Kg	5	5/3/2018 6:54:47 PM	37890
Toluene	2.5	0.23		mg/Kg	5	5/3/2018 6:54:47 PM	37890
Ethylbenzene	4.2	0.23		mg/Kg	5	5/3/2018 6:54:47 PM	37890
Xylenes, Total	6.4	0.47		mg/Kg	5	5/3/2018 6:54:47 PM	37890
Surr: 4-Bromofluorobenzene	119	80-120		%Rec	5	5/3/2018 6:54:47 PM	37890

Matrix: SOIL

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- \* Value exceeds Maximum Contaminant Level.D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 6 of 10
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Client: Project:	Souder, Tonto	Miller & Associat	es								
Sample ID	MB-37967	SampType: mblk TestCode: EPA Method			300.0: Anion	s					
Client ID:	PBS	Batch ID: 37	967	RunNo: 51083							
Prep Date:	5/7/2018	Analysis Date: 5	/7/2018	S	SeqNo: 1659	9638	Units: mg/K	g			
Analyte		Result PQL	SPK value	SPK Ref Val	%REC L	owLimit	HighLimit	%RPD	RPDLimit	Qual	
Chloride		ND 1.5									
Sample ID	LCS-37967	SampType: Ics TestCode: EPA Method 300.0: Anions									
Client ID:	LCSS	Batch ID: 37	7967	RunNo: 51083							
Prep Date:	5/7/2018	Analysis Date: 5	/7/2018	SeqNo: 1659639			Units: mg/Kg				
Analyte		Result PQL	SPK value	SPK Ref Val	%REC L	owLimit	HighLimit	%RPD	RPDLimit	Qual	
Chloride		14 1.5	15.00	0	95.0	90	110				

#### **Qualifiers:**

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- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

1805017

10-May-18

WO#:

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Client:Souder,Project:Tonto	Miller & A	ssociate	es							
Sample ID LCS-37916	SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics									
Client ID: LCSS	Batch	Batch ID: 37916 RunNo: 51013								
Prep Date: 5/2/2018	Analysis D	ate: 5/	3/2018	S	SeqNo: 1	657153	Units: <b>mg/k</b>	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	41	10	50.00	0	82.6	70	130			
Surr: DNOP	3.5		5.000		70.7	70	130			
Sample ID MB-37916	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: PBS	Batch	n ID: 37	916	F	RunNo: 5 <sup>,</sup>	1013				
Prep Date: 5/2/2018	Analysis D	ate: 5/	3/2018	S	SeqNo: 1	657154	Units: mg/H	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	7.8		10.00		78.3	70	130			

### **Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

1805017

10-May-18

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Client: Project:	Souder, Tonto	Miller & A	ssociate	es							
Sample ID	MB-37890	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e	
Client ID: F	PBS	Batch ID: 37890 RunNo: 50982			0982						
Prep Date:	5/1/2018	Analysis D	ate: 5/	2/2018	S	SeqNo: 1	655670	Units: <b>mg/k</b>	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range	Organics (GRO)	ND	5.0								
Surr: BFB		910		1000		91.2	15	316			
Sample ID	_CS-37890	SampT	ype: LC	S	Tes	tCode: El	PA Method	8015D: Gasc	line Rang	e	
Client ID:	CSS	Batch	n ID: 37	890	F	anNo: 5	0982				
Prep Date:	5/1/2018	Analysis D	ate: 5/	2/2018	S	SeqNo: 1	655671	Units: <b>mg/K</b>	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range	Organics (GRO)	26	5.0	25.00	0	104	75.9	131			
Surr: BFB		1000		1000		102	15	316			

### Qualifiers:

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- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

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Client:	Souder, M	liller & A	ssociate	es							
Project:	Tonto										
Sample ID MB-37	7890	SampT	ype: ME	BLK	Test	TestCode: EPA Method 8021B: Volatiles					
Client ID: PBS		Batch	h ID: 37	890	R	unNo: 5	0982				
Prep Date: 5/1/2	2018	Analysis D	)ate: 5/	2/2018	S	eqNo: 1	655710	Units: mg/K	ίg		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (	MTBE)	ND	0.10								
Benzene		ND	0.025								
Toluene		ND	0.050								
Ethylbenzene		ND	0.050								
Xylenes, Total		ND	0.10								
Surr: 4-Bromofluorob	oenzene	1.0		1.000		104	80	120			
Sample ID LCS-3	37890	SampT	ype: LC	S	Test	Code: El	PA Method	8021B: Volat	tiles		
		Batch ID: <b>37890</b> RunNo: <b>50982</b>									
Client ID: LCSS		Batch	ו ID: <b>37</b> 8	890	R	unNo: 5	0982				
Client ID: LCSS Prep Date: 5/1/2		Batch Analysis D				unNo: 50		Units: <b>mg/K</b>	ζg		
				2/2018		-		Units: <b>mg/K</b> HighLimit	<b>′g</b> %RPD	RPDLimit	Qual
Prep Date: 5/1/2 Analyte	018	Analysis D	Date: 5/	2/2018	S	eqNo: 1	655711	•	•	RPDLimit	Qual
Prep Date: 5/1/2 Analyte Methyl tert-butyl ether (i	018	Analysis D Result	Date: <b>5/</b> PQL	<b>2/2018</b> SPK value	S SPK Ref Val	eqNo: 1	655711 LowLimit	HighLimit	•	RPDLimit	Qual
Prep Date: 5/1/2 Analyte Methyl tert-butyl ether (i Benzene	018	Analysis D Result 0.96	Date: <b>5/</b> PQL 0.10	2/2018 SPK value 1.000	SPK Ref Val	eqNo: 10 %REC 95.5	655711 LowLimit 70.1	HighLimit 121	•	RPDLimit	Qual
Prep Date: 5/1/2 Analyte Methyl tert-butyl ether (i Benzene Toluene	018	Analysis D Result 0.96 0.98	Date: <b>5/</b> PQL 0.10 0.025	2/2018 SPK value 1.000 1.000	SPK Ref Val 0 0	eqNo: 10 %REC 95.5 97.9	655711 LowLimit 70.1 77.3	HighLimit 121 128	•	RPDLimit	Qual
Prep Date: 5/1/2	018	Analysis D Result 0.96 0.98 0.99	Date: 5/ PQL 0.10 0.025 0.050	2/2018 SPK value 1.000 1.000 1.000	SPK Ref Val 0 0 0	eqNo: 10 %REC 95.5 97.9 99.4	555711 LowLimit 70.1 77.3 79.2	HighLimit 121 128 125	•	RPDLimit	Qual

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

1805017

10-May-18

WO#:

- Page 10 of 10

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HALL ENVIRONMENTAL ANALYSIS LABORATORY	Hall Environmental Analysis Labı 4901 Hawk Albuquerque, NM TEL: 505-345-3975 FAX: 505-34 Website: www.hallenvironment	kins NE 187109 Sample Log-In Check List 15-4107	
Client Name: SMA-CARLSBAD V	Vork Order Number: 1805017	RcptNo: 1	
Received By: Isaiah Ortiz 5/1	/2018 9:15:00 AM	I Cal	
	2018 11:44:20 AM	A	
Reviewed By: ENM 5/	Vis Labe	led by: <u>Stro</u>	
Chain of Custody			
1. Is Chain of Custody complete?	Yes 🔽	No 🔲 Not Present 🗔	
2. How was the sample delivered?	Courier		
Log In			
3. Was an attempt made to cool the samples?	Yes 🗹	No NA NA	· . :
4. Were all samples received at a temperature of >0	°C to 6.0°C Yes 🗹		
5. Sample(s) in proper container(s)?	Yes 🔽	No 🗔	:
6. Sufficient sample volume for indicated test(s)?	Yes 🔽	No 🗍	
7. Are samples (except VOA and ONG) properly pres	erved? Yes 🗹	No 🗔	
8. Was preservative added to bottles?	Yes		r -
9. VOA vials have zero headspace?	Yes 🗌	No 🗌 No VOA Vials 🗹	
10. Were any sample containers received broken?	Yes	No 🗹	]
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes 🗹	No D	
12, Are matrices correctly identified on Chain of Custon	dy? Yes 🗹	No Adjusted	
13. Is it clear what analyses were requested?	Yes 🗹		
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes 🔽	No Checked by:	
Special Handling (if applicable)			
15. Was client notified of all discrepancies with this or	der? Yes	No 🗌 NA 🗹	
Person Notified: By Whom: Regarding:	Date Date Via: eMail D	Phone 🗌 Fax 🔄 In Person	
Client Instructions:	·····		
16. Additional remarks:			
17. <u>Cooler Information</u> <u>Cooler No</u> Temp °C Condition Seal Inta 1 0.8 Good Yes	act Seal No Seal Date	Signed By	
Page 1 of 1			

HALL ENVIRONMENTAL ANALYSIS LABORATORY www.hallenvironmental.com kins NE - Albuquerque, NM 87109 445-3975 Fax 505-345-4107	8500B (VOV) (AOV-ime) (AOV-ime)		
HALL ENVIRONME         ANALYSIS LABOR/         www.hallenvironmental.com         ins NE - Albuquerque, NM 87109         45-3975        Fax 505-345-4107	Analysis Requested or 8270 SIMS) Analysis Requested by Metals (8310 or 8270 SIMS) Analysis Request Analysis		- Vant
ANAL ANAL www.ha 4901 Hawkins NE Tel. 505-345-3975	EDB (Method 504.1) TPH 8015B (GRO / DRO / MRO) TPH 8015B (GRO / DRO / MRO)	$\times \times \times \times \times$	Remarks: M BWW
5 des hun	BODDI-1 180501-1 180501-1 180501-1		Date Time <b>Under Time</b> Date Time
Ime:	Iger: M <i>W</i> <i>W</i> <i>W</i> <i>W</i> <i>W</i> <i>W</i> <i>W</i> <i>W</i> <i>W</i> <i>W</i>		Courte
Turn-Around <sup>7</sup> <u>     Standard</u> Project Name Project #:	Project Manager: Project Manager: Sampler: HUU On Ice: Content Sample Tempera Container Pre	20-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	Received
Chain-of-Custody Record うん	<ul> <li>Level 4 (Full Validation)</li> <li>Sample Request ID</li> </ul>	$\frac{1}{22}$ $\frac{1}{31}$ $\frac{1}{22}$ $\frac{1}{31}$ $\frac{1}{22}$ $\frac{1}{31}$ $\frac{1}{52}$	July
ain-of-Cu	Fax#: ackage: ard ard Type) Time Matrix	2.43 Soil	Time: Relinquished by OS36 Avy Time: Relinquished by
Client: Chain- Client: M Mailing Address:	Phone #: email or Fax#: QA/QC Package: XStandard Accreditation D NELAP D EDD (Type) Date Date Time	12012 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Ipate: Time: Edits 099 Date: Time:

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.



June 01, 2018

Austin Weyant Souder, Miller & Associates 201 S Halagueno Carlsbad, NM 88221 TEL: (575) 689-7040 FAX Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: <u>www.hallenvironmental.com</u>

RE: Tonto 15-1

OrderNo.: 1805B66

Dear Austin Weyant:

Hall Environmental Analysis Laboratory received 6 sample(s) on 5/22/2018 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to <u>www.hallenvironmental.com</u> or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Lab Order 1805B66

Date Reported: 6/1/2018

					Date Reported. 0/1/201	0
CLIENT: Souder, Miller & Associates			Client Sampl	e ID: L1	-2.5	
Project: Tonto 15-1			Collection 1	Date: 5/1	7/2018 12:23:00 PM	
Lab ID: 1805B66-001	Matrix:	SOLID	Received Date: 5/22/2018 10:05:00 AM			
Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: CJS
Chloride	490	30	mg/Kg	20	5/25/2018 3:16:03 PM	38333
EPA METHOD 8015M/D: DIESEL RAN	IGE ORGANICS	6			Analys	t: TOM
Diesel Range Organics (DRO)	45	10	mg/Kg	1	5/24/2018 12:25:34 AN	/ 38269
Motor Oil Range Organics (MRO)	55	51	mg/Kg	1	5/24/2018 12:25:34 AN	/ 38269
Surr: DNOP	114	70-130	%Rec	1	5/24/2018 12:25:34 AN	1 38269
EPA METHOD 8015D: GASOLINE RA	NGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	5/24/2018 1:30:37 AM	38263
Surr: BFB	89.5	15-316	%Rec	1	5/24/2018 1:30:37 AM	38263
FPA METHOD 8021B: VOLATILES					Analys	t. NSB

Surr: BFB	89.5	15-316	%Rec	1	5/24/2018 1:30:37 AM	38263
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
Benzene	ND	0.025	mg/Kg	1	5/24/2018 1:30:37 AM	38263
Toluene	ND	0.050	mg/Kg	1	5/24/2018 1:30:37 AM	38263
Ethylbenzene	ND	0.050	mg/Kg	1	5/24/2018 1:30:37 AM	38263
Xylenes, Total	ND	0.099	mg/Kg	1	5/24/2018 1:30:37 AM	38263
Surr: 4-Bromofluorobenzene	99.7	80-120	%Rec	1	5/24/2018 1:30:37 AM	38263

- \* Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix D
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 1 of 10 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order 1805B66

Date Reported: 6/1/2018

					Date Reported. 0/1/201	10	
CLIENT: Souder, Miller & Associates			Client Sampl	le ID: L2	-1		
Project: Tonto 15-1			Collection 1	Date: 5/17/2018 12:36:00 PM			
Lab ID: 1805B66-002	Matrix:	SOIL	Received Date: 5/22/2018 10:05:00 AM				
Analyses	Result	PQL Qua	d Units	DF	Date Analyzed	Batch	
EPA METHOD 300.0: ANIONS					Analys	t: CJS	
Chloride	860	30	mg/Kg	20	5/25/2018 3:28:28 PM	38333	
EPA METHOD 8015M/D: DIESEL RANG	GE ORGANICS	6			Analys	t: TOM	
Diesel Range Organics (DRO)	66	9.9	mg/Kg	1	5/24/2018 12:49:38 AM	/ 38269	
Motor Oil Range Organics (MRO)	53	50	mg/Kg	1	5/24/2018 12:49:38 AN	/ 38269	
Surr: DNOP	108	70-130	%Rec	1	5/24/2018 12:49:38 AN	/ 38269	
EPA METHOD 8015D: GASOLINE RAN	IGE				Analys	t: NSB	
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	5/24/2018 1:54:09 AM	38263	
Surr: BFB	91.2	15-316	%Rec	1	5/24/2018 1:54:09 AM	38263	
EPA METHOD 8021B: VOLATILES					Analys	t: NSB	

Surr: BFB	91.2	15-316	%Rec	1	5/24/2018 1:54:09 AM	38263
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
Benzene	ND	0.023	mg/Kg	1	5/24/2018 1:54:09 AM	38263
Toluene	ND	0.047	mg/Kg	1	5/24/2018 1:54:09 AM	38263
Ethylbenzene	ND	0.047	mg/Kg	1	5/24/2018 1:54:09 AM	38263
Xylenes, Total	ND	0.094	mg/Kg	1	5/24/2018 1:54:09 AM	38263
Surr: 4-Bromofluorobenzene	102	80-120	%Rec	1	5/24/2018 1:54:09 AM	38263

- \* Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix D
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 2 of 10 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Surr: 4-Bromofluorobenzene

**Analytical Report** 

Lab Order 1805B66

Date Reported: 6/1/2018

<b>CLIENT:</b> Souder, Miller & Associates <b>Project:</b> Tonto 15-1 <b>Lab ID:</b> 1805B66-003	Matrix:	Client Sample ID: L3-1           Collection Date: 5/17/2018 12:45:00 PM           Matrix: SOIL         Received Date: 5/22/2018 10:05:00 AM						
Analyses	Result	PQL (	Qual	Units	DF	Date Analyzed	Batch	
EPA METHOD 300.0: ANIONS						Analyst	MRA	
Chloride	2100	75		mg/Kg	50	5/29/2018 2:27:39 PM	38333	
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS	6				Analyst	: TOM	
Diesel Range Organics (DRO)	2000	99		mg/Kg	10	5/24/2018 1:13:50 AM	38269	
Motor Oil Range Organics (MRO)	1200	500		mg/Kg	10	5/24/2018 1:13:50 AM	38269	
Surr: DNOP	0	70-130	S	%Rec	10	5/24/2018 1:13:50 AM	38269	
EPA METHOD 8015D: GASOLINE RAI	NGE					Analyst	: NSB	
Gasoline Range Organics (GRO)	9.8	4.9		mg/Kg	1	5/24/2018 3:00:21 PM	38263	
Surr: BFB	181	15-316		%Rec	1	5/24/2018 3:00:21 PM	38263	
EPA METHOD 8021B: VOLATILES						Analyst	: NSB	
Benzene	ND	0.024		mg/Kg	1	5/24/2018 3:00:21 PM	38263	
Toluene	ND	0.049		mg/Kg	1	5/24/2018 3:00:21 PM	38263	
Ethylbenzene	0.12	0.049		mg/Kg	1	5/24/2018 3:00:21 PM	38263	
Xylenes, Total	0.38	0.097		mg/Kg	1	5/24/2018 3:00:21 PM	38263	

80-120

%Rec

1

5/24/2018 3:00:21 PM

38263

117

- \* Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- Н
- Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 3 of 10 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified W

Lab Order 1805B66

Date Reported: 6/1/2018

5/24/2018 2:41:07 AM

5/24/2018 2:41:07 AM

1

1

38263

38263

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CLIENT: Souder, Miller & Associates Project: Tonto 15-1 Lab ID: 1805B66-004	Client Sample ID: L4-1 Collection Date: 5/17/2018 1:01:00 PM Matrix: SOLID Received Date: 5/22/2018 10:05:00 AM						
Analyses	Result	PQL Qual	Units	DF	Date Analyzed	Batch	
EPA METHOD 300.0: ANIONS					Analyst	: CJS	
Chloride	530	30	mg/Kg	20	5/25/2018 4:42:53 PM	38333	
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS	5			Analyst	: том	
Diesel Range Organics (DRO)	23	10	mg/Kg	1	5/24/2018 2:02:17 AM	38269	
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	5/24/2018 2:02:17 AM	38269	
Surr: DNOP	111	70-130	%Rec	1	5/24/2018 2:02:17 AM	38269	
EPA METHOD 8015D: GASOLINE RANG	GE				Analyst	: NSB	
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	5/24/2018 2:41:07 AM	38263	
Surr: BFB	90.4	15-316	%Rec	1	5/24/2018 2:41:07 AM	38263	
EPA METHOD 8021B: VOLATILES					Analyst	: NSB	
Benzene	ND	0.025	mg/Kg	1	5/24/2018 2:41:07 AM	38263	
Toluene	ND	0.050	mg/Kg	1	5/24/2018 2:41:07 AM	38263	
Ethylbenzene	ND	0.050	mg/Kg	1	5/24/2018 2:41:07 AM	38263	

0.099

80-120

mg/Kg

%Rec

ND

102

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Xylenes, Total

Surr: 4-Bromofluorobenzene

- \* Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix D
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 4 of 10 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified W

Surr: 4-Bromofluorobenzene

**Analytical Report** 

Lab Order 1805B66

Date Reported: 6/1/2018

CLIENT: Souder, Miller & Associates Project: Tonto 15-1	Client Sample ID: L5-2 Collection Date: 5/17/2018 1:18:00 PM						
Lab ID: 1805B66-005	Matrix: SOLID		<b>Received</b>				
Analyses	Result	PQL Qua	al Units	DF	Date Analyzed	Batch	
EPA METHOD 300.0: ANIONS					Analyst	MRA	
Chloride	250	30	mg/Kg	20	5/29/2018 1:16:27 PM	38357	
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS	5			Analyst	том	
Diesel Range Organics (DRO)	22	10	mg/Kg	1	5/24/2018 2:26:28 AM	38269	
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	5/24/2018 2:26:28 AM	38269	
Surr: DNOP	105	70-130	%Rec	1	5/24/2018 2:26:28 AM	38269	
EPA METHOD 8015D: GASOLINE RANG	GE				Analyst	: NSB	
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/24/2018 3:04:37 AM	38263	
Surr: BFB	88.6	15-316	%Rec	1	5/24/2018 3:04:37 AM	38263	
EPA METHOD 8021B: VOLATILES					Analyst	: NSB	
Benzene	ND	0.024	mg/Kg	1	5/24/2018 3:04:37 AM	38263	
Toluene	ND	0.049	mg/Kg	1	5/24/2018 3:04:37 AM	38263	
Ethylbenzene	ND	0.049	mg/Kg	1	5/24/2018 3:04:37 AM	38263	
Xylenes, Total	ND	0.097	mg/Kg	1	5/24/2018 3:04:37 AM	38263	

80-120

%Rec

98.8

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- \* Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix D
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S
- В Analyte detected in the associated Method Blank

1

5/24/2018 3:04:37 AM

38263

- Е Value above quantitation range
- Analyte detected below quantitation limits Page 5 of 10 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified W

Lab Order 1805B66

Date Reported: 6/1/2018

CLIENT:Souder, Miller & AssociatesProject:Tonto 15-1Lab ID:1805B66-006	Client Sample ID: L5-1           Collection Date: 5/17/2018 1:12:00 PM           Matrix: SOIL         Received Date: 5/22/2018 10:05:00 AM							
Analyses	Result	PQL Qual	Units	DF	Date Analyzed	Batch		
EPA METHOD 300.0: ANIONS					Analyst	: MRA		
Chloride	1200	75	mg/Kg	50	5/29/2018 3:54:31 PM	38357		
EPA METHOD 8015M/D: DIESEL RANG	GE ORGANICS	3			Analyst	: TOM		
Diesel Range Organics (DRO)	690	10	mg/Kg	1	5/24/2018 2:20:30 PM	38269		
Motor Oil Range Organics (MRO)	470	50	mg/Kg	1	5/24/2018 2:20:30 PM	38269		
Surr: DNOP	126	70-130	%Rec	1	5/24/2018 2:20:30 PM	38269		
EPA METHOD 8015D: GASOLINE RAN	IGE				Analyst	: NSB		
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	5/24/2018 3:47:11 PM	38263		
Surr: BFB	104	15-316	%Rec	1	5/24/2018 3:47:11 PM	38263		
EPA METHOD 8021B: VOLATILES					Analyst	: NSB		
Benzene	ND	0.024	mg/Kg	1	5/24/2018 3:47:11 PM	38263		

Benzene	ND	0.024	mg/Kg	1	5/24/2018 3:47:11 PM	38263
Toluene	ND	0.048	mg/Kg	1	5/24/2018 3:47:11 PM	38263
Ethylbenzene	ND	0.048	mg/Kg	1	5/24/2018 3:47:11 PM	38263
Xylenes, Total	ND	0.096	mg/Kg	1	5/24/2018 3:47:11 PM	38263
Surr: 4-Bromofluorobenzene	104	80-120	%Rec	1	5/24/2018 3:47:11 PM	38263

Qualifiers:	
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- \* Value exceeds Maximum Contaminant Level. D
- Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded Н
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 6 of 10 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified W

Client: Project:	Souder, Tonto 1	Miller & Associate 5-1	es							
Sample ID	MB-38333	SampType: <b>ml</b>	olk	Test	tCode: EP	A Method	300.0: Anion	s		
Client ID:	PBS	Batch ID: 38	333	R	unNo: <b>51</b>	542				
Prep Date:	5/25/2018	Analysis Date: 5/	25/2018	S	eqNo: 16	79970	Units: mg/K	g		
Analyte Chloride		Result PQL ND 1.5	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sample ID	LCS-38333	SampType: Ics	5	Test	tCode: EP	A Method	300.0: Anion	s		
Client ID:	LCSS	Batch ID: 38	333	R	unNo: <b>51</b>	542				
Prep Date:	5/25/2018	Analysis Date: 5/	25/2018	S	eqNo: 16	79971	Units: mg/K	ģ		
Analyte		Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		14 1.5	15.00	0	94.5	90	110			
Sample ID	MB-38357	SampType: ml	olk	Test	tCode: EP	A Method	300.0: Anion	s		
Client ID:	PBS	Batch ID: 38	357	R	unNo: <b>51</b>	572				
Prep Date:	5/29/2018	Analysis Date: 5/	29/2018	S	eqNo: 16	82543	Units: mg/K	g		
Analyte		Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND 1.5								
Sample ID	LCS-38357	SampType: Ics	5	Test	Code: EP	A Method	300.0: Anion	s		
Client ID:	LCSS	Batch ID: 38	357	R	unNo: <b>51</b>	572				
Prep Date:	5/29/2018	Analysis Date: 5/	29/2018	S	eqNo: 16	82544	Units: <b>mg/K</b>	g		
Analyte		Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		14 1.5	15.00	0	93.5	90	110			

### **Qualifiers:**

- Value exceeds Maximum Contaminant Level. \*
- Sample Diluted Due to Matrix D
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- Reporting Detection Limit RL
- W Sample container temperature is out of limit as specified

1805B66

01-Jun-18

WO#:

Page 7 of 10

Client: Souder, Project: Tonto 1	Miller & A 5-1	ssociate	28							
Sample ID LCS-38269	SampT	ype: LC	s	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: LCSS	Batch	n ID: 38	269	F	RunNo: 5	1394				
Prep Date: 5/22/2018	Analysis D	ate: 5/	23/2018	S	SeqNo: 1	676949	Units: <b>mg/k</b>	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	10	50.00	0	96.2	70	130			
Surr: DNOP	5.3		5.000		105	70	130			
Sample ID MB-38269	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: PBS	Batch	n ID: 38	269	F	tunNo: 5	1394				
Prep Date: 5/22/2018	Analysis D	ate: 5/	23/2018	S	SeqNo: 1	676950	Units: <b>mg/k</b>	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Notor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	12		10.00		116	70	130			

### **Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

1805B66

01-Jun-18

WO#:

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Client: Souder, Project: Tonto 1	Miller & Assoc 5-1	viates							
Sample ID MB-38263	SampType:	MBLK	Tes	tCode: EF	PA Method	8015D: Gaso	line Rang	e	
Client ID: PBS	Batch ID:	38263	R	RunNo: 51	480				
Prep Date: 5/22/2018	Analysis Date:	5/23/2018	S	SeqNo: 16	676698	Units: mg/K	g		
Analyte	Result PC	QL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0							
Surr: BFB	910	1000		91.4	15	316			
Sample ID LCS-38263	SampType:	LCS	Tes	tCode: EF	PA Method	8015D: Gaso	line Rang	e	
Client ID: LCSS	Batch ID:	38263	R	RunNo: 51	480				
Prep Date: 5/22/2018	Analysis Date:	5/23/2018	S	SeqNo: 16	676699	Units: mg/K	g		
Analyte	Result PC	QL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	5.0 25.00	0	114	75.9	131			
Surr: BFB	1000	1000		105	15	316			

### Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

1805B66

01-Jun-18

WO#:

Page 9 of 10

Client:SouderProject:Tonto	r, Miller & A 15-1	ssociate	es							
Sample ID MB-38263	SampT	Гуре: МЕ	BLK	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID: PBS	Batcl	h ID: 38	263	F	unNo: 5	1480				
Prep Date: 5/22/2018	Analysis D	Date: 5/	23/2018	S	SeqNo: 1	676739	Units: <b>mg/k</b>	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		102	80	120			
Sample ID LCS-38263	SampT	Type: LC	s	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID: LCSS	Batcl	h ID: 38	263	F	lunNo: 5	1480				
Prep Date: 5/22/2018	Analysis E	Date: 5/	23/2018	S	SeqNo: 1	676740	Units: mg/k	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.025	1.000	0	94.8	77.3	128			
Toluene	0.97	0.050	1.000	0	97.0	79.2	125			
Ethylbenzene	0.95	0.050	1.000	0	95.2	80.7	127			
Xylenes, Total	2.9	0.10	3.000	0	97.7	81.6	129			
Surr: 4-Bromofluorobenzene	1.0		1.000		103	80	120			

### **Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

1805B66

01-Jun-18

WO#:

Released to Imaging: 11/6/2023 11:57:53 AM

HALL ENVIRON ANALYSI LABORAT		TEL: 505-345	ntal Analysis Lab 4901 Haw Albuquerque, NM 3975 FAX: 505-34 w.hallenvironmen	kins NE (87109 Sai (5-4107	mple Log-In Check List
Client Name: SM	A-CARLSBAD	Work Order Num	ber: 1805B66		RoptNo: 1
Received By: E	rin Melendrez	5/22/2018 10:05:00	AM	Ma	5
Completed By: M	ichelle Garcia	5/22/2018 11:00:13	3 AM	minus (	(Durine)
Reviewed By:	IND	5 22/18			<i>p</i>
LB: ENN	1				
Chain of Custod					
1 Is Chain of Custo			Yes 🖌	No 🗌	Not Present
2. How was the sam			Courier		
••• • • • • • • • • • • • • • • • • •			Control		
Log In					
<ol><li>Was an attempt m</li></ol>	ade to cool the sam	ples?	Yes 🗸	No 🗌	NA 🗌
4. Were all samples	received at a temper	rature of ≥0° C to 6.0°C	Yes 🔽	No 🗌	NA 🗌
5. Sample(s) in prop	er container(s)?		Yes 🔽	No 🗌	
6. Sufficient sample v	volume for indicated	test(s)?	Yes 🔽	No 🗌	
7. Are samples (exce	pt VOA and ONG) p	roperly preserved?	Yes 🔽	No 🗆	
8. Was preservative a	added to bottles?		Yes 🗌	No 🗹	NA 🗌
9. VOA vials have ze	ro headspace?		Yes 🗌	No 🗌	No VOA Vials 🗹
0. Were any sample	containers received	broken?	Үөв 🗆	No 🗸	18
					# of preserved bottles checked
1. Does paperwork m			Yes 🗹	No 🗌	
2. Are matrices correl	s on chain of custod		Yes 🔽	No 🗆	Adjusted?
<ol> <li>Is it clear what ana</li> </ol>	Sterne an amanage of St	1999 - 1997 - 1997 - 1997 - 1998 - 1998 - 1997 -	Yes ⊻ Yes ⊻		15/
4. Were all holding tin			Yes 🗹	No 🗌	Checked by:
	ner for authorization.	)	1014 0001		/
pecial Handling	(if applicable)			10	
15. Was client notified		with this order?	Yes	No 🗌	NA 🔽
Person Notif	lea;	Date:	Second Second Second	D	
By Whom: Regarding		Via;	🗌 eMail 📋	Phone 🔄 Fax	In Person
Client Instruc	tions:				
<ol> <li>Additional remark:</li> </ol>	5				
17. Cooler Informatio	the second s				
Cooler No Te 1 4.8	Good Condition	Yes Seal Intact Seal No	Seal Date	Signed By	

Page 1 of 1

ANALYSIS LABORATORY www.hallenvironmental.com kins NE - Albuquerque, NM 87109 45-3975 Fax 505-345-4107 Analysis Request	۲۹۲۹۲۶ ۲۹۹۹ ۱۹۹۹ (۲۹۹۹) ۱۹۹۹ (۲۹۹۹) ۱۹۹۹ (۲۹۹۹) ۱۹۹۹ (۲۰۹۸) ۱۹۹۹ (۲۰۹۲) ۱۹۹۹ (۲۰۹۲)		×	×	×	×		Verified analysis + 12/1
Hawki 505-34	PH 80156 (GRO / DRO / MPO) PH (Method 504.1) GB (Method 504.1) CPH's (8310 or 8270 SIMS)		X	X	X	X		M Guard
4901 Tel.	SIEX + WIBE + ILH (Cas OUI))		X	X	~	1		Remarks:
me: me: 157 Toto	Project Manager: Hustin Wegant Sampler: Headur Rahassn On los: Syes DNo Sample Temperature: U-3 Container Preservative HEAL No. Type and # Type 1 on 21 of 2		'S	0			000	Date Time Date Time
Distandard Project Name:	Project Manag	Qt buy	Yor	yor	Qt buy	at bay	201	Received by:
	<ul> <li>Level 4 (Full Validation)</li> <li>Sample Request ID</li> </ul>	21-2.5	1-27		1-17	2-51	13-1	a for the
Client: SMA Mailing Address: Phone #:	ernail or Fax#: QA/GC Package: Astandard Cacreditation Cacredi	12:23	12:36 Soll	12:45 So.1			1:00 21:1	Time: Relification by Office by Define the Time: Relinquighted by Time:
Client: Mailing A	ermail or Fax#: QA/QC Package Astandard Accreditation DELAP Date Time	(2/1X	-	1	1	-		Pate; M/K



June 22, 2018

Austin Weyant Souder, Miller & Associates 201 S Halagueno Carlsbad, NM 88221 TEL: (575) 689-7040 FAX Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: <u>www.hallenvironmental.com</u>

RE: Tonto

OrderNo.: 1806638

Dear Austin Weyant:

Hall Environmental Analysis Laboratory received 9 sample(s) on 6/12/2018 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to <u>www.hallenvironmental.com</u> or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Lab Order 1806638

Date Reported: 6/22/2018

CLIENT: Souder, Miller & Associates Project: Tonto		Client Sample ID: SW1 Collection Date: 6/7/2018 1:05:00 PM									
Lab ID: 1806638-001	Matrix: SOIL		<b>Received Date</b>	e: 6/1	2/2018 9:43:00 AM						
Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch					
EPA METHOD 300.0: ANIONS					Analyst	MRA					
Chloride	180	30	mg/Kg	20	6/18/2018 4:31:03 PM	38725					
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	том					
Diesel Range Organics (DRO)	60	10	mg/Kg	1	6/16/2018 5:02:56 AM	38667					
Motor Oil Range Organics (MRO)	61	50	mg/Kg	1	6/16/2018 5:02:56 AM	38667					
Surr: DNOP	115	70-130	%Rec	1	6/16/2018 5:02:56 AM	38667					
EPA METHOD 8015D: GASOLINE RANGE	E				Analyst	NSB					
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	6/13/2018 2:45:19 PM	38635					
Surr: BFB	87.1	15-316	%Rec	1	6/13/2018 2:45:19 PM	38635					

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*

- Sample Diluted Due to Matrix D
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

Value exceeds Maximum Contaminant Level.

- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 1 of 14 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order 1806638

Date Reported: 6/22/2018

CLIENT: Souder, Miller & Associates Project: Tonto	Client Sample ID: SW2 Collection Date: 6/7/2018 1:15:00 PM					
Lab ID: 1806638-002	Matrix: SOIL	<b>Received Date:</b> 6/12/2018 9:43:00 AM				
Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	610	30	mg/Kg	20	6/18/2018 5:08:16 PM	38725
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	: том
Diesel Range Organics (DRO)	110	10	mg/Kg	1	6/16/2018 5:51:29 AM	38667
Motor Oil Range Organics (MRO)	210	50	mg/Kg	1	6/16/2018 5:51:29 AM	38667
Surr: DNOP	124	70-130	%Rec	1	6/16/2018 5:51:29 AM	38667
EPA METHOD 8015D: GASOLINE RANG	E				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	6/13/2018 3:08:57 PM	38635
Surr: BFB	80.7	15-316	%Rec	1	6/13/2018 3:08:57 PM	38635

Q	ualifiers:	*

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix D
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 2 of 14 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order 1806638

Date Reported: 6/22/2018

CLIENT: Souder, Miller & Associates Project: Tonto	Client Sample ID: SW3 Collection Date: 6/7/2018 1:20:00 PM					
Lab ID: 1806638-003	Matrix: SOIL	<b>Received Date:</b> 6/12/2018 9:43:00 AM				
Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	480	30	mg/Kg	20	6/18/2018 6:47:34 PM	38733
EPA METHOD 8015M/D: DIESEL RANGI	E ORGANICS				Analyst	TOM
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	6/15/2018 1:26:54 AM	38667
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	6/15/2018 1:26:54 AM	38667
Surr: DNOP	116	70-130	%Rec	1	6/15/2018 1:26:54 AM	38667
EPA METHOD 8015D: GASOLINE RANG	θE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	6/13/2018 3:32:39 PM	38635
Surr: BFB	79.9	15-316	%Rec	1	6/13/2018 3:32:39 PM	38635

Qualifiers:	*
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- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 3 of 14 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified W

**Analytical Report** Lab Order 1806638

Date Reported: 6/22/2018

CLIENT: Souder, Miller & Associates Project: Tonto	Client Sample ID: SW4 Collection Date: 6/7/2018 1:25:00 PM					
Lab ID: 1806638-004	Matrix: SOIL	<b>Received Date:</b> 6/12/2018 9:43:00 AM				
Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	57	30	mg/Kg	20	6/18/2018 6:59:58 PM	38733
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	том
Diesel Range Organics (DRO)	550	9.3	mg/Kg	1	6/18/2018 5:05:12 PM	38685
Motor Oil Range Organics (MRO)	390	47	mg/Kg	1	6/18/2018 5:05:12 PM	38685
Surr: DNOP	108	70-130	%Rec	1	6/18/2018 5:05:12 PM	38685
EPA METHOD 8015D: GASOLINE RANGE	i i				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	6/14/2018 9:56:52 AM	38669
Surr: BFB	91.6	15-316	%Rec	1	6/14/2018 9:56:52 AM	38669

Qualifiers:	*
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- Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix D
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 4 of 14 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

**Analytical Report** Lab Order 1806638

Date Reported: 6/22/2018

CLIENT: Souder, Miller & Associates Project: Tonto	Client Sample ID: SW5 Collection Date: 6/7/2018 1:35:00 PM					
Lab ID: 1806638-005	Matrix: SOIL	<b>Received Date:</b> 6/12/2018 9:43:00 AM				
Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	120	30	mg/Kg	20	6/18/2018 7:37:11 PM	38733
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	том
Diesel Range Organics (DRO)	160	9.9	mg/Kg	1	6/18/2018 5:49:29 PM	38685
Motor Oil Range Organics (MRO)	350	49	mg/Kg	1	6/18/2018 5:49:29 PM	38685
Surr: DNOP	107	70-130	%Rec	1	6/18/2018 5:49:29 PM	38685
EPA METHOD 8015D: GASOLINE RANG	E				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	6/14/2018 12:17:20 PM	38669
Surr: BFB	88.5	15-316	%Rec	1	6/14/2018 12:17:20 PM	38669

Qualifiers:	*
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- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix D
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 5 of 14 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order 1806638

Date Reported: 6/22/2018

CLIENT: Souder, Miller & Associates Project: Tonto	Client Sample ID: SW6 Collection Date: 6/7/2018 1:40:00 PM						
Lab ID: 1806638-006	Matrix: SOIL	Received Date: 6/12/2018 9:43:00 AM					
Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch	
EPA METHOD 300.0: ANIONS					Analys	t: MRA	
Chloride	1200	75	mg/Kg	50	6/20/2018 5:28:55 AM	38733	
EPA METHOD 8015M/D: DIESEL RANG	GE ORGANICS				Analys	t: TOM	
Diesel Range Organics (DRO)	35	9.6	mg/Kg	1	6/18/2018 6:34:24 PM	38685	
Motor Oil Range Organics (MRO)	60	48	mg/Kg	1	6/18/2018 6:34:24 PM	38685	
Surr: DNOP	85.0	70-130	%Rec	1	6/18/2018 6:34:24 PM	38685	
EPA METHOD 8015D: GASOLINE RAN	IGE				Analys	t: NSB	
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	6/14/2018 12:40:50 PM	1 38669	
Surr: BFB	83.8	15-316	%Rec	1	6/14/2018 12:40:50 PM	1 38669	

Qualifiers:	k
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- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix D
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 6 of 14 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified W

Lab Order 1806638

Date Reported: 6/22/2018

CLIENT: Souder, Miller & Associates Project: Tonto	Client Sample ID: SW7 Collection Date: 6/7/2018 1:45:00 PM						
Lab ID: 1806638-007	Matrix: SOIL	Received Date: 6/12/2018 9:43:00 AM					
Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch	
EPA METHOD 300.0: ANIONS					Analysi	: MRA	
Chloride	380	30	mg/Kg	20	6/18/2018 8:02:00 PM	38733	
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS				Analyst	TOM	
Diesel Range Organics (DRO)	20	9.4	mg/Kg	1	6/18/2018 7:18:45 PM	38685	
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	6/18/2018 7:18:45 PM	38685	
Surr: DNOP	89.4	70-130	%Rec	1	6/18/2018 7:18:45 PM	38685	
EPA METHOD 8015D: GASOLINE RANG	<b>GE</b>				Analyst	: NSB	
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	6/14/2018 1:04:21 PM	38669	
Surr: BFB	85.3	15-316	%Rec	1	6/14/2018 1:04:21 PM	38669	

Qualifiers:	*
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- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix D
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 7 of 14 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified W

Lab Order 1806638

Date Reported: 6/22/2018

CLIENT: Souder, Miller & Associates Project: Tonto	Client Sample ID: L2-1.5 Collection Date: 6/7/2018 2:00:00 PM						
Lab ID: 1806638-008	Matrix: SOLID         Received Date: 6/12/2018 9:43:00 AM						
Analyses	Result	PQL	Qual U	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	MRA
Chloride	770	30	r	ng/Kg	20	6/18/2018 8:14:25 PM	38733
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS					Analyst	TOM
Diesel Range Organics (DRO)	500	9.4	r	ng/Kg	1	6/18/2018 8:03:06 PM	38685
Motor Oil Range Organics (MRO)	420	47	r	ng/Kg	1	6/18/2018 8:03:06 PM	38685
Surr: DNOP	85.1	70-130	Q	%Rec	1	6/18/2018 8:03:06 PM	38685
EPA METHOD 8015D: GASOLINE RANGI	E					Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.8	r	ng/Kg	1	6/14/2018 1:27:53 PM	38669
Surr: BFB	92.5	15-316	Q	%Rec	1	6/14/2018 1:27:53 PM	38669

Qualifiers:	k
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- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix D
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 8 of 14 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Surr: BFB

**Analytical Report** 

Lab Order 1806638

Date Reported: 6	5/22/2018
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6/14/2018 1:51:29 PM

38669

CLIENT: Souder, Miller & Associates	Client Sample ID: L3-1.5						
Project: Tonto Lab ID: 1806638-009	Collection Date: 6/7/2018 2:15:00 PM           Matrix: SOLID         Received Date: 6/12/2018 9:43:00 AM						
Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch	
EPA METHOD 300.0: ANIONS					Analyst	MRA	
Chloride	1900	75	mg/Kg	50	6/20/2018 6:06:09 AM	38733	
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	: том	
Diesel Range Organics (DRO)	680	9.7	mg/Kg	1	6/18/2018 8:47:31 PM	38685	
Motor Oil Range Organics (MRO)	640	48	mg/Kg	1	6/18/2018 8:47:31 PM	38685	
Surr: DNOP	94.9	70-130	%Rec	1	6/18/2018 8:47:31 PM	38685	
EPA METHOD 8015D: GASOLINE RANG	E				Analyst	: NSB	
Gasoline Range Organics (GRO)	5.2	4.9	mg/Kg	1	6/14/2018 1:51:29 PM	38669	

142

15-316

%Rec

1

Qualifiers:	*
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- Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix D
- Н
- Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 9 of 14 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified W

Client: Project:	Souder, I Tonto	Miller & Associate	es											
Sample ID	MB-38725	SampType: ME	SI K	Test	Code: FP	PA Method	300.0: Anion	s						
Client ID:		Batch ID: 38			unNo: 52									
Prep Date:	6/18/2018	Analysis Date: 6/	-		eqNo: 17		Units: mg/K	a						
	0/10/2010				·		•	•						
Analyte		Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual				
Chloride		ND 1.5												
Sample ID	LCS-38725	SampType: LC	S	TestCode: EPA Method 300.0: Anions										
Client ID:	LCSS	Batch ID: 38	725	RunNo: <b>52050</b>										
Prep Date:	6/18/2018	Analysis Date: 6/	S	eqNo: 17	03854	Units: mg/Kg								
Analyte		Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual				
Chloride		14 1.5	15.00	0	94.0	90	110							
Sample ID	MB-38733	SampType: <b>ME</b>	BLK	Test	Code: EP	A Method	300.0: Anion	s						
Client ID:	PBS	Batch ID: 38	733	R	unNo: 52	2050								
Prep Date:	6/18/2018	Analysis Date: 6/	18/2018	S	eqNo: 17	03885	Units: mg/Kg							
Analyte		Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual				
Chloride		ND 1.5												
Sample ID	LCS-38733	SampType: LC	S	Test	Code: EP	A Method	300.0: Anion	s						
Client ID:	LCSS	Batch ID: 38	733	R	unNo: 52	2050								
Prep Date:	6/18/2018	Analysis Date: 6/	18/2018	S	eqNo: 17	03886	Units: mg/K	g						
Analyte		Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual				
Chloride		14 1.5	15.00	0	94.9	90	110							

### **Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

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Client: Souder, Project: Tonto	Miller & Associates									
•										
Sample ID LCS-38667	SampType: LCS		8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 38667	RunNo: <b>51922</b>								
Prep Date: 6/13/2018	Analysis Date: 6/14/2018	SeqNo: 1700099	Units: <b>mg/Kg</b>							
Analyte		SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual							
Diesel Range Organics (DRO)	48 10 50.00	0 96.2 70	130							
Surr: DNOP	4.9 5.000	97.7 70	130							
Sample ID MB-38667	SampType: MBLK	TestCode: EPA Method	8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 38667	RunNo: 51922								
Prep Date: 6/13/2018	Analysis Date: 6/14/2018	SeqNo: 1700100	Units: mg/Kg							
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual							
Diesel Range Organics (DRO)	ND 10									
Motor Oil Range Organics (MRO)	ND 50									
Surr: DNOP	11 10.00	108 70	130							
Sample ID LCS-38685	SampType: LCS	TestCode: EPA Method	8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 38685	RunNo: 52007								
Prep Date: 6/14/2018	Analysis Date: 6/15/2018	SeqNo: 1701649	Units: mg/Kg							
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual							
Diesel Range Organics (DRO)	46 10 50.00	0 92.4 70	130							
Surr: DNOP	4.9 5.000	98.4 70	130							
Sample ID MB-38685	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 38685	RunNo: 52007								
Prep Date: 6/14/2018	Analysis Date: 6/15/2018	SeqNo: 1701650	Units: mg/Kg							
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual							
Diesel Range Organics (DRO)	ND 10									
Motor Oil Range Organics (MRO)	ND 50									
Surr: DNOP	9.9 10.00	99.1 70	130							
Sample ID LCS-38702	SampType: LCS	TestCode: EPA Method	8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 38702	RunNo: 52041								
Prep Date: 6/15/2018	Analysis Date: 6/18/2018	SeqNo: 1702706	Units: %Rec							
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual							

### **Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

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Client:	Souder, Miller & Associates													
Project:	Tonto													
Sample ID	MB-38702	SampT	уре: М	BLK	Tes	tCode: El	PA Method	8015M/D: Die	esel Range	e Organics				
Client ID:	PBS	Batch	ID: 38	3702	R	RunNo: 5	2041							
Prep Date:	6/15/2018	Analysis D	ate: 6	/18/2018	S	SeqNo: 1	702707	Units: %Red	•					
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Surr: DNOP		10		10.00		102	70	130						

### **Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

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Client:	Souder, N	Ailler & Assoc	ciates													
Project:	Tonto															
O a marke JD	ND 00005	0T		<b></b>			00150 0									
	MB-38635	SampType:		TestCode: EPA Method 8015D: Gasoline Range RunNo: 51956												
Client ID:	-	Batch ID:					linite. menuli									
Prep Date:	6/12/2018	Analysis Date:	6/13/2018	2	SeqNo: 16	98126	Units: mg/k	g								
Analyte			QL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual						
Gasoline Rang Surr: BFB	e Organics (GRO)	ND 890	5.0 1000		88.8	15	316									
Sample ID	LCS-38635	SampType:	LCS	Tes	tCode: EF	PA Method	8015D: Gaso	oline Rang	e							
Client ID:	LCSS	Batch ID:	38635	F	RunNo: 51	1956										
Prep Date:	6/12/2018	Analysis Date:	6/13/2018	5	SeqNo: 16	698127	Units: <b>mg/k</b>	٢g								
Analyte		Result PC	QL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual						
	e Organics (GRO)		5.0 25.00	0	110	75.9	131									
Surr: BFB		980	1000		97.6	15	316									
Sample ID	MB-38669	SampType:	MBLK	Tes	tCode: EF	PA Method	8015D: Gaso	oline Rang	e							
Client ID:	PBS	Batch ID:	38669	F	RunNo: 51	1984										
Prep Date:	6/13/2018	Analysis Date:	6/14/2018	5	SeqNo: 17	700018	Units: <b>mg/k</b>	٢g								
Analyte		Result PC	QL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual						
Gasoline Rang Surr: BFB	e Organics (GRO)	ND 870	5.0 1000		86.8	15	316									
Sample ID	LCS-38669	SampType:	LCS	Tes	tCode: EF	PA Method	8015D: Gaso	oline Rang	e							
Client ID:	LCSS	Batch ID:	38669	F	RunNo: 51	1984										
Prep Date:	6/13/2018	Analysis Date:	6/14/2018	5	SeqNo: 17	700019	Units: mg/k	٢g								
Analyte		Result PC	QL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual						
Gasoline Rang	e Organics (GRO)	28	5.0 25.00	0	112	75.9	131									
Surr: BFB		1000	1000		101	15	316									
Sample ID	1806638-004AMS	SampType:	MS	Tes	tCode: EF	PA Method	8015D: Gaso	oline Rang	e							
Client ID:	SW4	Batch ID:	38669	F	RunNo: 51	1984										
Prep Date:	6/13/2018	Analysis Date:	6/14/2018	5	SeqNo: 17	700021	Units: mg/k	٢g								
Analyte		Result PC	QL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual						
Gasoline Rang	e Organics (GRO)	30	5.0 24.85	0	119	77.8	128									
Surr: BFB		1000	994.0		102	15	316									
Sample ID	1806638-004AMSI	D SampType:	MSD	Tes	tCode: EF	PA Method	8015D: Gaso	oline Rang	e							
Client ID:	SW4	Batch ID:	38669	F	RunNo: 51	1984		-								
Prep Date:	6/13/2018	Analysis Date:	6/14/2018	S	SeqNo: 17	700022	Units: mg/k	٢g								
Analyte		Result PC	QL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual						

### Qualifiers:

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- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

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Released to Imaging: 11/6/2023 11:57:53 AM	
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Client:	Souder, N	filler & As	sociate	es							
Project:	Tonto										
Sample ID	1806638-004AMSE	SampT	/pe: <b>M</b> \$	SD	Tes	tCode: El	PA Method	8015D: Gaso	oline Rang	e	
Client ID:	SW4	Batch	ID: 38	669	F	RunNo: 5	1984				
Prep Date: 6/13/2018		Analysis D	ate: 6/	14/2018	S	SeqNo: 1	700022	Units: <b>mg/k</b>	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	e Organics (GRO)	26	5.0	24.95	0	103	77.8	128	13.5	20	
Surr: BFB		1100		998.0		107	15	316	0	0	

### **Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

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WO#:

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HALL ENVIRONMENTAL ANALYSIS LABORATORY	TEL: 505-345-3	ntal Analysis Labord 4901 Hawkin Albuquerque, NM 8 1975 FAX: 505-345 v.hallenvironmental	ns NE 7109 <b>San</b> 4107	nple Log-In Ch	ieck List
Client Name: SMA-CARLSBAD	Work Order Num	ber: 1806638		RcptNo:	1
Received By: Erin Melendrez Completed By: Erin Melendrez Reviewed By: CB:CO[]]]	6/12/2018 9:43:00↓ 6/12/2018 10:06:28 ○ 𝒴 \ [ Ə \ \ S &		IL NA IL NA	7	
Chain of Custody					
1. Is Chain of Custody complete?		Yes 🔽	No 🗌	Not Present	
2. How was the sample delivered?		Courier			
Log In 3. Was an attempt made to cool the sar	nples?	Yes 🗹	No 🗌	NA 🗆	
4. Were all samples received at a tempe	erature of >0" C to 6.0°C	Yes 🔽	No 🗌	NA 🗌	
5. Sample(s) in proper container(s)?		Yes 🗹	No 🗌		
6. Sufficient sample volume for indicated	test(s)?	Yes 🗹	No 🗌		
7. Are samples (except VOA and ONG)	properly preserved?	Yes 🗹	No 🗌		
8. Was preservative added to bottles?		Yes 🗍	No 🗹	NA 🗆	Xid
9. VOA vials have zero headspace?		Yes	No 🗌	No VOA Vials 🗹	
10. Were any sample containers received	broken?	Yes 🗌	No 🗹 🛛	# of preserved	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custo	dy)	Yes 🔽	No 🗌	bottles checked for pH:	12 unless noted)
12. Are matrices correctly identified on Ch	ain of Custody?	Yes 🗹	No 🗌	Adjusted?	
13. Is it clear what analyses were request	ed?	Yes 🗹	No 🗌	$/ < \mathbb{N}$	
14. Were all holding times able to be met' (If no, notify customer for authorization		Yes 🗹	Νο	checked by	
Special Handling (if applicable)					
15. Was client notified of all discrepancie	s with this order?	Yes 🗌	No 🗌	NA 🗹	
Person Notified:	Date:				
By Whom:	Via:	eMail P	hone 🗌 Fax	In Person	
Regarding:			_		
Client Instructions:					
16. Additional remarks:					
17. <u>Cooler Information</u> Cooler No.   Temp <sup>o</sup> C   Conditio	n Seal Intact Seal No	Seal Date			
1 0.1 Good	Yes		Signed By		

Page 1 of 1

Istody Record Turn-Around Time: 5 der hourd	Standard Bush	]		4901 Hawkins NE - Albuquerque, NM 87109	Project #: Tel. 505-345-315 Fax 505-345-4107	Analvsis	(C		5 <sup>47</sup> 00	Sampler: Hentler (2, Hender 1) 2002 1 1002 1	 BE (G 0 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0	Sample Request ID Type and # Type		, ×		X	Swee / -One × ×						My Construction Date Time Remarks:	d by Received by Date when Link
F-Custody Record	Client: SM A		, Mailing Address:			Phone #:	email or Fax#:	QA/QC Package:		Accreditation				1;10  $ 5w3$	/ 1776 / 5 wy	(1:35) Sw5	$\prec$	SWO	Pock 12-1.5	13-15		Timo: Dout of isboard in the	142 Mar and	Date: Time: Relinquished by:

Released to Imaging: 11/6/2023 11:57:53 AM



July 03, 2018

Austin Weyant Souder, Miller & Associates 201 S Halagueno Carlsbad, NM 88221 TEL: (575) 689-7040 FAX Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

RE: Tonto

OrderNo.: 1806E47

Dear Austin Weyant:

Hall Environmental Analysis Laboratory received 3 sample(s) on 6/23/2018 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to <u>www.hallenvironmental.com</u> or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109
**Analytical Report** 

Lab Order 1806E47

Date Reported: 7/3/2018

CLIENT: Souder, Miller & Associates Project: Tonto	Client Sample ID: L2-1.8 Collection Date: 6/20/2018 9:00:00 AM									
Lab ID: 1806E47-001	Matrix: SOLID		<b>Received Dat</b>	<b>e:</b> 6/2	23/2018 10:40:00 AM					
Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch				
EPA METHOD 300.0: ANIONS					Analyst	MRA				
Chloride	120	30	mg/Kg	20	6/29/2018 5:40:20 PM	38971				
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS				Analyst	ТОМ				
Diesel Range Organics (DRO)	12	9.4	mg/Kg	1	6/26/2018 6:05:49 PM	38862				
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	6/26/2018 6:05:49 PM	38862				
Surr: DNOP	83.5	70-130	%Rec	1	6/26/2018 6:05:49 PM	38862				
EPA METHOD 8015D: GASOLINE RANG	θE				Analyst	: NSB				
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	6/26/2018 8:06:38 PM	38869				
Surr: BFB	82.2	15-316	%Rec	1	6/26/2018 8:06:38 PM	38869				

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*
	-

- D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded Н

Value exceeds Maximum Contaminant Level.

- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 1 of 6 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified W

**Analytical Report** 

Lab Order 1806E47

Date Reported: 7/3/2018

CLIENT: Souder, Miller & Associates		Client Sample ID: L3-1.8										
Project: Tonto		Collection Date: 6/20/2018 9:10:00 AM										
Lab ID: 1806E47-002	Matrix: SOLID	<b>Received Date:</b> 6/23/2018 10:40:00 AM										
Analyses	Result	Result PQL Qual Units				Batch						
EPA METHOD 300.0: ANIONS					Analyst	MRA						
Chloride	160	30	mg/Kg	20	6/29/2018 5:52:44 PM	38971						
EPA METHOD 8015M/D: DIESEL RAM	IGE ORGANICS				Analyst	: ТОМ						
Diesel Range Organics (DRO)	180	9.6	mg/Kg	1	6/26/2018 6:28:18 PM	38862						
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	6/26/2018 6:28:18 PM	38862						
Surr: DNOP	95.7	70-130	%Rec	1	6/26/2018 6:28:18 PM	38862						
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst	: NSB						
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	6/26/2018 8:30:18 PM	38869						
Surr: BFB	81.5	15-316	%Rec	1	6/26/2018 8:30:18 PM	38869						

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*
	Б

- Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded Н
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 2 of 6 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified W

Hall Environmental Analysis	s Laboratory, I	nc.		Analytical Repor Lab Order 1806E47 Date Reported: 7/3/	,		
CLIENT: Souder, Miller & Associates Project: Tonto Lab ID: 1806E47-003	Client Sample ID: SW6 Collection Date: 6/20/2018 9:20:00 AM Matrix: SOIL Received Date: 6/23/2018 10:40:00 AM						
Analyses	Result	PQL Qu	al Units	DF Date Analyzed	Batch		
EPA METHOD 300.0: ANIONS Chloride	550	30	mg/Kg	Ana 20 6/29/2018 6:05:08 I	alyst: <b>MRA</b> PM 38971		

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 3 of 6
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

# **QC SUMMARY REPORT** Hall Environmental Analysis Laboratory, Inc.

Client:	Souder	, Miller & Associ	ates							
Project:	Tonto									
Sample ID	MB-38971	SampType:	mblk	Tes	tCode: EPA N	lethod	300.0: Anion	s		
Client ID:	PBS	Batch ID:	38971	F	RunNo: <b>52369</b>	)				
Prep Date:	6/29/2018	Analysis Date:	6/29/2018	5	SeqNo: 17172	33	Units: <b>mg/K</b>	g		
Analyte		Result PQ	L SPK value	SPK Ref Val	%REC Lov	wLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND 1	.5							
Sample ID	LCS-38971	SampType:	lcs	Tes	tCode: EPA N	lethod	300.0: Anion	s		
Client ID:	LCSS	Batch ID:	38971	F	RunNo: <b>52369</b>	)				
Prep Date:	6/29/2018	Analysis Date:	6/29/2018	5	SeqNo: <b>17172</b>	34	Units: mg/K	g		
Analyte		Result PQ	L SPK value	SPK Ref Val	%REC Lov	wLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		15 1	.5 15.00	0	97.2	90	110			

#### Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

1806E47

03-Jul-18

WO#:

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# **QC SUMMARY REPORT** Hall Environmental Analysis Laboratory, Inc.

Client:Souder,Project:Tonto	Miller & As	ssociate	es							
Sample ID LCS-38862	D LCS-38862 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics									
Client ID: LCSS	Batch	n ID: 38	862	F	anNo: 52	2229				
Prep Date: 6/25/2018	Analysis D	ate: 6/	ate: 6/26/2018 SeqNo: 1711929 Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	41	10	50.00	0	82.7	70	130			
Surr: DNOP	4.2		5.000		83.9	70	130			
Sample ID MB-38862	SampT	ype: ME	BLK	Tes	tCode: EF	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: PBS	Batch	n ID: 38	862	F	unNo: 52	2229				
Prep Date: 6/25/2018	Analysis D	ate: 6/	26/2018	S	SeqNo: 17	711930	Units: mg/k	ζg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.3		10.00		93.1	70	130			

#### **Qualifiers:**

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- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

1806E47

03-Jul-18

WO#:

Page 5 of 6

# **QC SUMMARY REPORT** Hall Environmental Analysis Laboratory, Inc.

Client: Project:	Souder, Tonto	Miller & A	ssociate	es							
Sample ID	MB-38869	SampT	ype: M	BLK	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e	
Client ID:	PBS	Batch	Batch ID: 38869 RunNo: 52243			2243					
Prep Date:	6/25/2018	Analysis D	oate: 6/	26/2018	SeqNo: 1712088 Units: mg/Kg						
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range	e Organics (GRO)	ND	5.0								
Surr: BFB		850		1000		85.4	15	316			
Sample ID	LCS-38869	SampT	ype: LC	s	Tes	tCode: El	PA Method	8015D: Gasc	line Rang	e	
Client ID:	LCSS	Batch	n ID: 38	869	F	anNo: 5	2243				
Prep Date:	6/25/2018	Analysis D	ate: 6/	26/2018	S	SeqNo: 1	712089	Units: <b>mg/K</b>	ģ		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range	e Organics (GRO)	23	5.0	25.00	0	92.6	75.9	131			
Surr: BFB		980		1000		98.4	15	316			

#### Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

1806E47

03-Jul-18

WO#:

Page 6 of 6

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HALL ENVIRONMENTAL ANALYSIS LABORATORY	TEL: 505-345-3	ttal Analysis Labord 4901 Hawkin Albuquerque, NM 8 975 FAX: 505-345- Nallenvironmental	s NE 7109 <b>San</b> 4107	Sample Log-In Check List				
Client Name: SMA-CARLSBAD	Work Order Numb	per: 1806E47		RcptNo	: 1			
Received By: Andy Freeman	6/23/2018 10:40:00	АМ	and					
Completed By: Isaiah Ortiz	6/25/2018 7:38:58 /	M	IG	-				
Reviewed By: ENM LB:MW UZS/18 <u>Chain of Custody</u>	6125/18		_					
1. Is Chain of Custody complete?		Yes 🗹	No 🗌	Not Present				
2. How was the sample delivered?		Courier						
Log In 3. Was an attempt made to cool the samples?		Yes 🗹	No 🗌					
4. Were all samples received at a temperature	of >0° C to 6.0°C	Yes 🗹	No 🗌	NA 🗆				
5. Sample(s) in proper container(s)?		Yes 🗹	No 🗌					
6. Sufficient sample volume for indicated test(s	)?	Yes 🗹	No 🗌					
7. Are samples (except VOA and ONG) proper	y preserved?	Yes 🗹	No 🗌					
8. Was preservative added to bottles?		Yes	No 🔽	NA 🗌				
9. VOA vials have zero headspace?		Yes	No 🗌	No VOA Vials 🔽				
10. Were any sample containers received broke	n?	Yes	No 🔽	# of preserved	118/			
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes 🗹	No 🗌	bottles checked for pH:	12 unless noted)			
12. Are matrices correctly identified on Chain of	Custody?	Yes 🗹	No 🗌	Adjuster				
13. Is it clear what analyses were requested?		Yes 🗹	No 🗌	ND				
14. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes 🗹	No 🗌	Checked by:				
Special Handling (if applicable)								
15. Was client notified of all discrepancies with t	his order?	Yes 🗌	No 🗌	NA 🗹				
Person Notified:	Date:			<u>.</u>	-			
By Whom:	 Via:	eMail 🗍 Pl	ione 🗌 Fax	In Person				
Regarding:								
Client Instructions:								
16. Additional remarks:					-			
17. <u>Cooler Information</u>	<b>,</b> .							
Cooler No         Temp ℃         Condition         Set           1         3.8         Good         Yes	al Intact Seal No	Seal Date	Signed By					

HALL ENVIRONMENTAL ANALYSIS LABORATORY www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109 Tel. 505-345-375 Fax 505-345-4107 Analysis Request	TPH (Method 504.1) EDB (Method 504.1) PAH's (8310 or 8270 SIMS) RCRA 8 Metals Anions (F, OVO <sub>3</sub> , NO <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub> ) 8081 Pesticides / 8082 PCB's 8081 Pesticides / 8082 PCB's 8081 Pesticides / 8082 PCB's 8270 (Semi-VOA) 8270 (Semi-VOA)		Date Time Remarks: Date Time Remarks: $\delta/23/18$ / $0$ 4 $c$ $\delta/23/18$ / $0$ 4 $c$ This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.
4901 H	ВТЕХ + МТВЕ + ТРН (Gas only) ТРН 8015В (GRO / DRO / MRO)		Remarks:
I urn-Around Time: See how Candard Rush Project Name: Project #:			dited laboratiories.
Client: Custody Record         Client: SMA         Mailing Address:         Phone #:         email or Fax#:	QA/QC Package:	0/4/am kavk L2-1,8 9/40 11 L3-1,8 9/10 3: 5ule	Pate: Time: Relinquished by: Received by: Date: Time: Relinquished by: Received by: Date: Time: Relinquished by: Regiver by: If necessary, samples submitted to Hall Environmental may be subcontracted to other acce

# **APPENDIX** A

# CARMONA RESOURCES



August 29, 2023

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

Re: Amendment to Closure Report Tonto 15 State #1 Marathon Oil Corporation 1RP-4869 & 1RP-5003 Site Location: Unit I, S15, T18S, R34E (Lat 32.7459831°, Long -103.5429764°) Lea County, New Mexico

To whom it may concern:

On behalf of Marathon Oil Corporation (Marathon), Carmona Resource, LLC has prepared this letter to document additional site activities for the Tonto 15 State #1. The site is located at the GPS 32.7459831°, - 103.5429764° within Unit I, S15, T18S, R34E in Lea County, New Mexico.

#### **1.0 Site Information and Background**

#### 1RP-4868 & 1RP-5003

On July 25, 2018 the New Mexico OCD denied the closure report for the following reason: Please be advised that any deferral of a portion of the release area, even if the majority of the impacted area has been remediated, will not require a final C-141. Please note that under the new NMAC 19.15.29, to be in effect in August 2018, there will be no adjustment to the permissible levels left in place. For example, if  $\leq 600 \text{ mg/kg}$  chloride level is not obtained (+ 5% standard deviation or standard error not accepted), the excavated area must be laterally or vertically extended. In assessing depth to groundwater, please check USGS database. NMOCD will agree that delineation has been completed for 1RP-4869 & 1RP-5003. However, several concerns regarding the remediation process: 1. Please demarcated clearly the areas represented by each of the delineation sample locations. Where are the borders among the differing depths of excavation? For example, the area represented by L1 is proposed for deferral, while the L2/L3 area has 1.75 ft removed. The transition edge/sidewall should confirmatory soil samples taken. 2. Was the elevated BTEX, TPH extended, and chlorides at 0.5 ft in the area represented by L1, at least surficially addressed through non-mechanical methods? Any areas to be deferred must be explicitly outlined on a scaled map for documentation.

#### 2.0 Site Characterization and Groundwater

The site is located within a low karst area. Based on a review of the New Mexico Office of State Engineers and USGS databases, no known water features are within a 0.50-mile radius of the location. The nearest identified well is approximately 0.28 miles Southeast of the site in S15, T18S, R34E and was drilled in 1996. The well has a reported depth to groundwater of 114.50 feet below the ground surface (ft bgs). A copy of the associated Summary Report is attached in Appendix D of the amended report.

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



## **3.0 NMAC Regulatory Criteria**

Per the NMOCD regulatory criteria established in 19.15.29.12 NMAC, the following 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

On July 25, and September 7, 2023, Carmona Resources, LLC performed site assessment activities to evaluate soil impacts stemming from the release. To assess the vertical extent, seven (7) sample points (S-1 through S-7) were advanced to depths ranging from surface to 3' bgs inside the release area at the previous sample locations (L1, SW1, SW2, SW4, SW5, SW6, and L3). See Figure 3 for the sample locations. For chemical analysis, the soil samples were collected and placed directly into laboratory-provided sample containers, stored on ice, and transported under the proper chain-of-custody protocol to Eurofins Laboratories in Midland, Texas. The sample points S-1, and S-7 were analyzed for total petroleum hydrocarbons (TPH) by EPA method 8015, modified benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8021B, and chloride by EPA method 300.0. The sample points S-2, S-3, S-4, S-5, and S-6 were analyzed for total petroleum hydrocarbons (TPH) by EPA method 8015, and modified benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8021B. The laboratory reports, including analytical methods, results, and chain-of-custody documents, are attached in Appendix E of the amended report.

All samples were below the regulatory requirements for TPH, BTEX, and chloride. Refer to Table 1. All sample points have undergone attenuation from precipitation and weather events that occurred from the sampling events April 26, May 17, and June 7, 2018 to the present.

## 5.0 Conclusions

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

Sincerely,

Mike Carmona Environmental Manager

Clinton Merritt Sr. Project Manager





Released to Imaging: 11/6/2023 11:57:53 AM









# **APPENDIX B**

# CARMONA RESOURCES

### Table 1 Marathon Oil Tonto 15 State #1 Lea County, New Mexico

Sample ID		_	TPH (mg/kg)			Benzene	Toluene	Ethlybenzene	Xylene	Total BTEX	Chloride	
Sample ID	Date	Depth (ft)	GRO	DRO	MRO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
	9/7/2023	0-1	<49.8	54.4	<49.8	54.4	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	96.0
S-1	"	1.5	<49.6	60.5	<49.6	60.5	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	38.0
5-1	"	2.0	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	30.1
	"	3.0	<49.6	<49.6	<49.6	<49.6	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	78.8
	7/25/2023	0-1	<49.6	<49.6	<49.6	<49.6	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	-
S-2	"	2.0	<49.7	<49.7	<49.7	<49.7	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	-
	"	3.0	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	-
	7/25/2023	0-1	<49.6	<49.6	<49.6	<49.6	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	-
S-3	"	2.0	<49.6	<49.6	<49.6	<49.6	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	-
	"	3.0	<50.2	<50.2	<50.2	<50.2	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	-
	7/25/2023	0-1	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	-
S-4	"	2.0	<50.5	<50.5	<50.5	<50.5	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	-
	"	3.0	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	-
	7/25/2023	0-1	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	-
S-5	"	2.0	<50.3	<50.3	<50.3	<50.3	<0.00198	<0.00198	<0.00198	< 0.00396	< 0.00396	-
	"	3.0	<50.4	<50.4	<50.4	<50.4	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	-
	7/25/2023	0-1	<50.3	<50.3	<50.3	<50.3	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	-
S-6	"	2.0	<50.3	<50.3	<50.3	<50.3	<0.00200	<0.00200	<0.00200	<0.00401	< 0.00401	-
	"	3.0	<50.5	<50.5	<50.5	<50.5	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	-
	9/7/2023	0-1	<50.2	<50.2	<50.2	<50.2	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	97.0
S-7	"	1.5	<50.1	<50.1	<50.1	<50.1	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	67.6
	"	2.0	<50.5	<50.5	<50.5	<50.5	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	86.4
	ory Criteria <sup>A</sup>					100 mg/kg	10 mg/kg				50 mg/kg	600 mg/kg

(-) Not Analyzed

<sup>A</sup> – Table 1 - 19.15.29 NMAC

mg/kg - milligram per kilogram TPH- Total Petroleum Hydrocarbons

ft-feet

(S) Sample Point

# **APPENDIX C**

# CARMONA RESOURCES

# **PHOTOGRAPHIC LOG**

## **Marathon Oil Corporation**

Photograph N	lo. 1	E <b>S</b> SV <b>W</b> NV
Facility:	Tonto 15 State #1	© 226°SW (T) LAT: 32.746094 LON: -103.542713 ±16ft ▲ 4017ft
County:	Lea County, New Mexico	+
Description: View Southwest	of sample points S-1, S-2, and S-3.	25 Jul 2023 10:2421 AM
Photograph N	lo. 2	NE E S S 60 90 120 150 180 210 •   •   •   •   •   •   •   •   •   •
Facility:	Tonto 15 State #1	© 124°SE (T) LAT: 32.745744 LON: -103.542718 ±13ft ▲ 4026ft
County:	Lea County, New Mexico	
<b>Description:</b> View Southeast	of sample points S-3, S-4, and S-5.	25 Jul 2023, 10:25:44 AM
Photograph N	lo. 3	SW W NW N 210 240 270 300 330 0
Facility:	Tonto 15 State #1	© 297°NW (T) LAT: 32.745612 LON: -103.542437 ±13ft ▲ 4025ft
County:	Lea County, New Mexico	
Description: View Northwest	of sample points S-5, S-6, and S-7.	25 Jul 2023, 1026, 21 AM

# **APPENDIX D**

# CARMONA RESOURCES

Received by OCD: 9/21/2023 6:16:51 AM



**Environment Testing** 

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**ANALYTICAL REPORT** 

# PREPARED FOR

Attn: Clint Merritt **Carmona Resources** 310 W Wall St Ste 500 Midland, Texas 79701 Generated 9/14/2023 11:15:47 AM

# **JOB DESCRIPTION**

Tonto 15 State #1 SDG NUMBER Lea County NM

# **JOB NUMBER**

880-33031-1

**Eurofins Midland** 1211 W. Florida Ave Midland TX 79701

See page two for job notes and contact information.



# **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

AMER

Generated 9/14/2023 11:15:47 AM

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

Eurofins Midland is a laboratory within Eurofins Environment Testing South Central, LLC, a company within Eurofins Environment Testing Group of Companies

Laboratory Job ID: 880-33031-1 SDG: Lea County NM

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# **Definitions/Glossary**

#### Client: Carmona Resources Project/Site: Tonto 15 State #1

Job ID: 880-33031-1 SDG: Lea County NM

	rc
Qualifie	13

Quaimers		3
GC VOA		
Qualifier	Qualifier Description	
S1-	Surrogate recovery exceeds control limits, low biased.	
U	Indicates the analyte was analyzed for but not detected.	5
GC Semi VO	Α	
Qualifier	Qualifier Description	
F2	MS/MSD RPD exceeds control limits	
S1+	Surrogate recovery exceeds control limits, high biased.	
U	Indicates the analyte was analyzed for but not detected.	
HPLC/IC		8
Qualifier	Qualifier Description	
F1	MS and/or MSD recovery exceeds control limits.	9
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	4.0
CNF	Contains No Free Liquid	13
DER	Duplicate Error Ratio (normalized absolute difference)	

CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (nor
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

Positive / Present POS PQL Practical Quantitation Limit Presumptive PRES

Quality Control QC 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
- Toxicity Equivalent Factor (Dioxin) TEF
- TEQ Toxicity Equivalent Quotient (Dioxin)
- TNTC Too Numerous To Count

#### Job ID: 880-33031-1 SDG: Lea County NM

#### Job ID: 880-33031-1

Client: Carmona Resources Project/Site: Tonto 15 State #1

#### Laboratory: Eurofins Midland

#### Narrative

Job Narrative 880-33031-1

#### Receipt

The samples were received on 9/8/2023 1:34 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 -2.7°C

#### GC VOA

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-62082 and analytical batch 880-62040 was outside the upper control limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: (890-5210-A-1-C) and (880-32833-A-8-A MB). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (MB 880-62041/5-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.

#### GC Semi VOA

Method 8015MOD\_NM: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 880-62103 and analytical batch 880-62118 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 8015MOD\_NM: Surrogate recovery for the following samples were outside control limits: S-1 (0-1') (880-33031-1), S-1 (1.5') (880-33031-2), S-1 (2') (880-33031-3), S-1 (3') (880-33031-4) and (880-33016-A-1-D). Evidence of matrix interferences is not obvious.

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

#### HPLC/IC

Method 300\_ORGFM\_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-62152 and analytical batch 880-62392 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

# **Client Sample Results**

Client: Carmona Resources Project/Site: Tonto 15 State #1

### Client Sample ID: S-1 (0-1') Date Collected: 09/07/23 00:00

Date Received: 09/08/23 13:34

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/08/23 13:56	09/09/23 03:52	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/08/23 13:56	09/09/23 03:52	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/08/23 13:56	09/09/23 03:52	1
n-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		09/08/23 13:56	09/09/23 03:52	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/08/23 13:56	09/09/23 03:52	1
Kylenes, Total	<0.00401	U	0.00401		mg/Kg		09/08/23 13:56	09/09/23 03:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	79		70 - 130				09/08/23 13:56	09/09/23 03:52	1
1,4-Difluorobenzene (Surr)	86		70 - 130				09/08/23 13:56	09/09/23 03:52	1
Method: TAL SOP Total BTEX - To									
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			09/11/23 13:03	1
Method: SW846 8015 NM - Diesel									
Analyte Fotal TPH	Result 54.4	Qualifier		MDL	Unit mg/Kg	D	Prepared	Analyzed 09/12/23 09:16	Dil Fa
Nethod: SW846 8015B NM - Diese malyte	Result	Qualifier		MDL	Unit	D	Prepared	Analyzed	Dil Fa
Analyte	Result	Qualifier		MDL		<u>D</u>			Dil Fac
Gasoline Range Organics GRO)-C6-C10	<49.8	0	49.8		mg/Kg		09/08/23 15:14	09/11/23 18:04	
Diesel Range Organics (Over C10-C28)	54.4		49.8		mg/Kg		09/08/23 15:14	09/11/23 18:04	
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		09/08/23 15:14	09/11/23 18:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
-Chlorooctane	145	S1+	70 - 130				09/08/23 15:14	09/11/23 18:04	
p-Terphenyl	152	S1+	70 - 130				09/08/23 15:14	09/11/23 18:04	1
Method: EPA 300.0 - Anions, Ion C	Chromatograp	hy - Soluble	e						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	96.0		5.03		mg/Kg			09/14/23 02:20	1
lient Sample ID: S-1 (1.5')							Lab Sam	ple ID: 880-3	3031-2
ate Collected: 09/07/23 00:00 ate Received: 09/08/23 13:34								Matri	x: Solic
Method: SW846 8021B - Volatile C	raanic Come	ounds (CC)							

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		09/08/23 13:56	09/09/23 04:13	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/08/23 13:56	09/09/23 04:13	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/08/23 13:56	09/09/23 04:13	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		09/08/23 13:56	09/09/23 04:13	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/08/23 13:56	09/09/23 04:13	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/08/23 13:56	09/09/23 04:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130				09/08/23 13:56	09/09/23 04:13	1
1,4-Difluorobenzene (Surr)	73		70 - 130				09/08/23 13:56	09/09/23 04:13	1

Job ID: 880-33031-1 SDG: Lea County NM

# Lab Sample ID: 880-33031-1

Matrix: Solid

5

# **Client Sample Results**

Job ID: 880-33031-1 SDG: Lea County NM

Lab Sample ID: 880-33031-2

# Client Sample ID: S-1 (1.5')

Date Collected: 09/07/23 00:00 Date Received: 09/08/23 13:34

Client: Carmona Resources

Project/Site: Tonto 15 State #1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			09/11/23 13:03	
Method: SW846 8015 NM - Diese	Range Organ	ics (DRO) (	GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	60.5		49.6		mg/Kg			09/12/23 09:16	
Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.6	U	49.6		mg/Kg		09/08/23 15:14	09/11/23 18:26	·
(GRO)-C6-C10									
Diesel Range Organics (Over	60.5		49.6		mg/Kg		09/08/23 15:14	09/11/23 18:26	
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		09/08/23 15:14	09/11/23 18:26	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	138	S1+	70 - 130				09/08/23 15:14	09/11/23 18:26	
o-Terphenyl	143	S1+	70 - 130				09/08/23 15:14	09/11/23 18:26	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	38.0		5.01		mg/Kg			09/14/23 02:27	

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

Date Collected: 09/07/23 00:00 Date Received: 09/08/23 13:34

## Lab Sample ID: 880-33031-3 Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/08/23 13:56	09/09/23 04:33	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/08/23 13:56	09/09/23 04:33	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/08/23 13:56	09/09/23 04:33	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		09/08/23 13:56	09/09/23 04:33	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/08/23 13:56	09/09/23 04:33	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/08/23 13:56	09/09/23 04:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		70 - 130				09/08/23 13:56	09/09/23 04:33	1
1,4-Difluorobenzene (Surr)	72		70 - 130				09/08/23 13:56	09/09/23 04:33	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			09/11/23 13:03	1
- Method: SW846 8015 NM - Die	esel Range Organ	ics (DRO) (C	GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			09/12/23 09:16	1
 Method: SW846 8015B NM - D	)iesel Range Orga	nics (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		09/08/23 15:14	09/11/23 18:48	1

09/11/23 18:48

09/08/23 15:14

Matrix: Solid

5

Diesel Range Organics (Over

C10-C28)

50.0

mg/Kg

<50.0 U

1

Matrix: Solid

5

Job ID: 880-33031-1 SDG: Lea County NM

Lab Sample ID: 880-33031-3

### Client Sample ID: S-1 (2') Date Collected: 09/07/23 00:00

Project/Site: Tonto 15 State #1

Date Received: 09/08/23 13:34

Client: Carmona Resources

				<b>.</b>					
Method: SW846 8015B NM - Dies					11		Dremered	Amelyined	
Analyte Oll Range Organics (Over C28-C36)		Qualifier	RL 50.0	MDL	mg/Kg	<u>D</u>	Prepared 09/08/23 15:14	Analyzed 09/11/23 18:48	Dil Fac
On Mange Organics (Over 020-030)	<50.0	0	50.0		mg/rtg		09/00/23 13.14	09/11/23 10:40	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	138	S1+	70 - 130				09/08/23 15:14	09/11/23 18:48	
o-Terphenyl	146	S1+	70 - 130				09/08/23 15:14	09/11/23 18:48	-
- Method: EPA 300.0 - Anions, Ion	Chromatograp	ohy - Solubl	e						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	30.1		5.02		mg/Kg			09/14/23 02:33	
Client Sample ID: S-1 (3')							Lab Sam	ple ID: 880-3	3031-4
Date Collected: 09/07/23 00:00								Matri	x: Solic
Date Received: 09/08/23 13:34									
Method: SW846 8021B - Volatile	Organic Comp	ounds (GC	)						
Analyte		Qualifier	RL	MDL		D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/08/23 13:56	09/09/23 04:54	
Toluene	<0.00199		0.00199		mg/Kg		09/08/23 13:56	09/09/23 04:54	
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/08/23 13:56	09/09/23 04:54	
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/08/23 13:56	09/09/23 04:54	
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/08/23 13:56	09/09/23 04:54	
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/08/23 13:56	09/09/23 04:54	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	80		70 - 130				09/08/23 13:56	09/09/23 04:54	1
1,4-Difluorobenzene (Surr) 	79		70 - 130				09/08/23 13:56	09/09/23 04:54	-
Method: TAL SOP Total BTEX - T	otal BTEX Cal	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			09/11/23 13:03	
 Method: SW846 8015 NM - Diese	I Range Organ	ics (DRO) (	GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			09/12/23 09:16	
 Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6		mg/Kg		09/08/23 15:14	09/11/23 19:09	
Diesel Range Organics (Over	<49.6	U	49.6		mg/Kg		09/08/23 15:14	09/11/23 19:09	
C10-C28) Oll Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		09/08/23 15:14	09/11/23 19:09	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	135	S1+	70 - 130				09/08/23 15:14	09/11/23 19:09	
o-Terphenyl	140	S1+	70 - 130				09/08/23 15:14	09/11/23 19:09	-
_ Method: EPA 300.0 - Anions, Ion	Chromatogram	ohy - Solubl	e						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
								-	

Client: Carmona Resources Project/Site: Tonto 15 State #1

### Method: 8021B - Volatile Organic Compounds (GC) Matrix: Solid

				Percent Surrogate Recovery (Acceptance Limits
		BFB1	DFBZ1	
Sample ID	Client Sample ID	(70-130)	(70-130)	
2833-A-8-A MB	Method Blank	65 S1-	101	
031-1	S-1 (0-1')	79	86	
3031-2	S-1 (1.5')	96	73	
3031-3	S-1 (2')	80	72	
3031-4	S-1 (3')	80	79	
10-A-1-A MS	Matrix Spike	113	113	
10-A-1-B MSD	Matrix Spike Duplicate	110	96	
0-62082/1-A	Lab Control Sample	122	111	
880-62082/2-A	Lab Control Sample Dup	110	113	
0-62082/5-A	Method Blank	62 S1-	99	

#### Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Ma	TLX	SOI	α

				Percent Surrogate Recovery
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-33016-A-1-E MS	Matrix Spike	120	116	
880-33016-A-1-F MSD	Matrix Spike Duplicate	128	124	
880-33031-1	S-1 (0-1')	145 S1+	152 S1+	
880-33031-2	S-1 (1.5')	138 S1+	143 S1+	
880-33031-3	S-1 (2')	138 S1+	146 S1+	
880-33031-4	S-1 (3')	135 S1+	140 S1+	
LCS 880-62103/2-A	Lab Control Sample	98	109	
LCSD 880-62103/3-A	Lab Control Sample Dup	94	108	
MB 880-62103/1-A	Method Blank	110	119	

#### Surrogate Legend

1CO = 1-Chlorooctane OTPH = o-Terphenyl 5

6

Prep Type: Total/NA

Prep Type: Total/NA

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

Lab Sample ID: 880-32833-A-8-											mple ID: Metho	
Matrix: Solid											Prep Type:	
Analysis Batch: 62040											Prep Batc	h: 62041
Awahata		MB				11		-	_		A	D!!
Analyte		Qualifier			MDL	Unit		<u>D</u>		repared	Analyzed	Dil Fac
Benzene	< 0.00200		0.00200			mg/Kg				8/23 08:55	09/08/23 17:11	1
	<0.00200		0.00200			mg/Kg				8/23 08:55	09/08/23 17:11	1
Ethylbenzene	<0.00200		0.00200			mg/Kg				8/23 08:55	09/08/23 17:11	1
m-Xylene & p-Xylene	<0.00400	U	0.00400			mg/Kg			09/0	8/23 08:55	09/08/23 17:11	1
o-Xylene	<0.00200	U	0.00200			mg/Kg			09/0	8/23 08:55	09/08/23 17:11	1
Xylenes, Total	<0.00400	U	0.00400			mg/Kg			09/0	8/23 08:55	09/08/23 17:11	1
	MB	МВ										
Surrogate	%Recovery	Qualifier	Limits						P	repared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	65	S1-	70 - 130						09/0	8/23 08:55	09/08/23 17:11	1
1,4-Difluorobenzene (Surr)	101		70 - 130						09/0	8/23 08:55	09/08/23 17:11	1
Lab Sample ID: MB 880-62082/	5-A									Client Sa	mple ID: Metho	
Matrix: Solid											Prep Type:	
Analysis Batch: 62040											Prep Batc	h: 62082
A h da		MB				11		-	_		<b>A</b>	D!!
Analyte Benzene	Result <0.00200		RL 0.00200		MDL	Unit mg/Kg		<u>D</u>		repared 8/23 11:01	Analyzed 09/08/23 22:40	Dil Fac
Toluene	<0.00200		0.00200							8/23 11:01	09/08/23 22:40	1
						mg/Kg						
Ethylbenzene	< 0.00200		0.00200			mg/Kg				8/23 11:01	09/08/23 22:40	1
m-Xylene & p-Xylene	< 0.00400		0.00400			mg/Kg				8/23 11:01	09/08/23 22:40	1
o-Xylene	<0.00200		0.00200			mg/Kg				8/23 11:01	09/08/23 22:40	1
Xylenes, Total	<0.00400	U	0.00400			mg/Kg			09/0	8/23 11:01	09/08/23 22:40	1
	МВ	МВ										
Surrogate	%Recovery	Qualifier	Limits						P	repared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	62	S1-	70 - 130						09/0	8/23 11:01	09/08/23 22:40	1
1,4-Difluorobenzene (Surr)	99		70 - 130						09/0	8/23 11:01	09/08/23 22:40	1
Lab Sample ID: LCS 890 62092	N/4 A							<b>C</b>	liont	Sampla	D: Lab Control	Comple
Lab Sample ID: LCS 880-62082	./ <b>I-A</b>								nem	Sample		
Matrix: Solid											Prep Type:	
Analysis Batch: 62040			<b>o</b> "								Prep Batc	n: 62082
			Spike		LCS				_	~ <b>-</b>	%Rec	
Analyte			Added	Result	Qua		Jnit		D	%Rec	Limits	
Benzene			0.100	0.09941			ng/Kg			99	70 - 130	
Toluene			0.100	0.1014			ng/Kg			101	70 - 130	
Ethylbenzene			0.100	0.1016		r	ng/Kg			102	70 - 130	
m-Xylene & p-Xylene			0.200	0.2210		r	ng/Kg			111	70 - 130	
o-Xylene			0.100	0.1157		r	ng/Kg			116	70 - 130	
	LCS LCS	;										
Surrogate	%Recovery Qua	lifier	Limits									
4-Bromofluorobenzene (Surr)	122		70 - 130									
1,4-Difluorobenzene (Surr)	111		70 - 130									
							•		•			
Lab Sample ID: LCSD 880-6208	52/2-A						Cli	ent	Sam	ipie ID: La	ab Control San	
Matrix: Solid											Prep Type:	
Analysis Batch: 62040											Prep Batc	
			Spike	LCSD	LCS	D					%Rec	RPD
			•							%Rec		

0	4	35
Eurof	ins Mic	lland

5

7 8

Job ID: 880-33031-1

SDG: Lea County NM

Benzene

0.09561

mg/Kg

96

70 - 130

0.100

35

Client: Carmona Resources Project/Site: Tonto 15 State #1 Job ID: 880-33031-1 SDG: Lea County NM

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

Lab Sample ID: LCSD 880-6	2082/2-A					Clie	nt Sam	ple ID: I	Lab Contro		
Matrix: Solid									Prep 1	Гуре: То	tal/NA
Analysis Batch: 62040									Prep	Batch:	62082
			Spike	LCSD	LCSD				%Rec		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limi
Toluene			0.100	0.09614		mg/Kg		96	70 - 130	5	35
Ethylbenzene			0.100	0.09614		mg/Kg		96	70 - 130	6	35
m-Xylene & p-Xylene			0.200	0.2067		mg/Kg		103	70 - 130	7	3
o-Xylene			0.100	0.1039		mg/Kg		104	70 - 130	11	35
	LCSD	LCSD									
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)			70 - 130								
1,4-Difluorobenzene (Surr)	113		70 - 130								
Lab Sample ID: 890-5210-A-	1-A MS							Client	Sample ID	• Matrix	Spike
Matrix: Solid								onem		Гуре: То	
Analysis Batch: 62040										Batch:	
	Sample	Sample	Spike	MS	MS				%Rec	201011	
Analyte	•	Qualifier	Added		Qualifier	Unit	D	%Rec	Limits		
Benzene	< 0.00199	U	0.0998	0.08017		mg/Kg		80	70 - 130		
Toluene	<0.00199		0.0998	0.08157		mg/Kg		82	70 - 130		
Ethylbenzene	<0.00199	U	0.0998	0.08150		mg/Kg		82	70 - 130		
m-Xylene & p-Xylene	<0.00398	U	0.200	0.1714		mg/Kg		86	70 - 130		
o-Xylene	<0.00199	U	0.0998	0.08588		mg/Kg		86	70 - 130		
	MS	MS									
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	113		70 - 130								
1,4-Difluorobenzene (Surr)	113		70 - 130								
Lab Sample ID: 890-5210-A-	1-B MSD					CI	ient Sa	ample ID	): Matrix Sp	oike Dup	olicate
Matrix: Solid									Prep 1	Гуре: То	tal/NA
Analysis Batch: 62040									Prep	Batch:	62082
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
		•	•								

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00199	U	0.100	0.08514		mg/Kg		85	70 - 130	6	35
Toluene	<0.00199	U	0.100	0.08931		mg/Kg		89	70 - 130	9	35
Ethylbenzene	<0.00199	U	0.100	0.08778		mg/Kg		88	70 - 130	7	35
m-Xylene & p-Xylene	<0.00398	U	0.200	0.1806		mg/Kg		90	70 - 130	5	35
o-Xylene	<0.00199	U	0.100	0.09035		mg/Kg		90	70 - 130	5	35
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	110		70 - 130								

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

96

Lab Sample ID: MB 880-62103/1-A Matrix: Solid Analysis Batch: 62118						Client Sa	mple ID: Metho Prep Type: <sup>-</sup> Prep Batcl	Total/NA	
	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		09/08/23 15:14	09/11/23 08:30	1
(GRO)-C6-C10									

70 - 130

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1,4-Difluorobenzene (Surr)

Client: Carmona Resources Project/Site: Tonto 15 State #1

#### Job ID: 880-33031-1 SDG: Lea County NM

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

Lab Sample ID: MB 880-62103/	/1 <b>-A</b>										Client Sa	mple ID: N		
Matrix: Solid												Prep T	ype: T	otal/NA
Analysis Batch: 62118												Prep	Batch	: 62103
		МВ												
Analyte			Qualifier	RL		MDL	Unit		<u>D</u>		repared	Analyze		Dil Fac
Diesel Range Organics (Over	<	50.0	U	50.0	)		mg/K	g		09/0	8/23 15:14	09/11/23 0	08:30	
C10-C28) Oll Range Organics (Over C28-C36)	_	50.0		50.0	h		mg/K	a		00/0	8/23 15:14	09/11/23 0	18.30	
On Range Organics (Over C20-C30)		50.0	0	50.0	)		my/K	g		09/0	10/23 13.14	09/11/23 0	0.30	
		MB	МВ											
Surrogate	%Reco	very	Qualifier	Limits	_					P	repared	Analyz	ed	Dil Fa
1-Chlorooctane		110		70 - 130						09/0	08/23 15:14	09/11/23 0	08:30	
o-Terphenyl		119		70 - 130						09/0	08/23 15:14	09/11/23 0	08:30	
Lab Sample ID: LCS 880-62103	3/2-4								CI	ient	Sample	ID: Lab Co	ntrol	Sample
Matrix: Solid	~~~~								0.	icin	Campie	Prep T		
Analysis Batch: 62118														: 62103
Analysis Baten. 02110				Spike	LCS	LCS						%Rec	Batten	. 02100
Analyte				Added	Result			Unit		D	%Rec	Limits		
Gasoline Range Organics				1000	955.3			mg/Kg		_	96	70 - 130		
(GRO)-C6-C10					200.0						20			
Diesel Range Organics (Over				1000	964.0			mg/Kg			96	70 - 130		
C10-C28)														
	LCS	LCS												
Surrogate	%Recovery	Quali	ifier	Limits										
1-Chlorooctane	98			70 - 130										
o-Terphenyl	109			70 - 130										
Matrix: Solid Analysis Batch: 62118				Spike	LCSD	LCS	:D					Prep T Prep %Rec		: 6210 RP
Analyte				Added	Result			Unit		D	%Rec	Limits	RPD	
Gasoline Range Organics				1000	925.0			mg/Kg		_	92	70 - 130	3	
(GRO)-C6-C10								0 0						
Diesel Range Organics (Over				1000	970.3			mg/Kg			97	70 - 130	1	20
C10-C28)														
	LCSD	LCSE	)											
Surrogate	%Recovery	Quali	ifier	Limits										
1-Chlorooctane	94			70 - 130										
o-Terphenyl	108			70 - 130										
Lab Sample ID: 880-33016-A-1	-E MS										Client 9	Sample ID:	Matri	v Snike
Matrix: Solid											onent c	Prep T		
Analysis Batch: 62118														: 6210
Analysis Baten. 02110	Sample	Samn	ble	Spike	MS	MS						%Rec	Batten	. 02100
Analyte	Result	-		Added	Result		lifier	Unit		D	%Rec	Limits		
Gasoline Range Organics	<50.1			997	955.7			mg/Kg		_	96	70 - 130		
(GRO)-C6-C10		-						5. 5						
Diesel Range Organics (Over C10-C28)	<50.1	U		997	1098			mg/Kg			106	70 - 130		
	MS	мs												
Surrogate		Quali	ifier	Limits										
1-Chlorooctane	120			70 - 130										

116

o-Terphenyl

70 - 130

Client: Carmona Resources Project/Site: Tonto 15 State #1 Job ID: 880-33031-1 SDG: Lea County NM

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

Matrix: Solid	-1-F MSD						ient 30		): Matrix Sp	ріке Бир Гуре: То	
Analysis Batch: 62118	Commis	Commis	Cuilta	MCD	MOD					Batch:	RPE
Analyta		Sample	Spike		MSD Qualifian	11		% Dee	%Rec	000	
Analyte		Qualifier	Added		Qualifier	Unit	D	%Rec	Limits	RPD	Limi
Gasoline Range Organics (GRO)-C6-C10	<50.1	U F2	997	1180	F2	mg/Kg		118	70 - 130	21	20
Diesel Range Organics (Over C10-C28)	<50.1	U	997	1185		mg/Kg		115	70 - 130	8	2
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	128		70 - 130								
o-Terphenyl	124		70 - 130								
Lab Sample ID: MB 880-6215 Matrix: Solid Analysis Batch: 62392	2/1-A							Client S	ample ID: Prep	Method Type: So	
Amaluta		MB MB		ы					Analu	na d	
Analyte		esult Qualifier			MDL Unit		D P	repared	Analyz		Dil Fa
Chloride		<5.00 U		5.00	mg/K	g			09/13/23	23.20	
	32/2-A						Cilent	Sample	; ID. Lab C	ontrol Sa	annu
Matrix: Solid										Type: So	
Matrix: Solid			Spike	LCS	LCS						
Matrix: Solid Analysis Batch: 62392			Spike Added		LCS Qualifier	Unit	D	%Rec	Prep		
Matrix: Solid Analysis Batch: 62392 <sup>Analyte</sup>						- <mark>Unit</mark> mg/Kg		-	Prep %Rec		
Matrix: Solid Analysis Batch: 62392 Analyte Chloride			Added	Result		mg/Kg	D	<b>%Rec</b> 99	Prep %Rec Limits 90 - 110	Type: So	olub
Matrix: Solid Analysis Batch: 62392 Analyte Chloride Lab Sample ID: LCSD 880-62			Added	Result		mg/Kg	D	<b>%Rec</b> 99	Prep %Rec Limits 90 - 110	Type: So	olubl
Matrix: Solid Analysis Batch: 62392 Analyte Chloride Lab Sample ID: LCSD 880-62 Matrix: Solid			Added	Result		mg/Kg	D	<b>%Rec</b> 99	Prep %Rec Limits 90 - 110	Type: So	e Du
Matrix: Solid Analysis Batch: 62392 Analyte Chloride Lab Sample ID: LCSD 880-62 Matrix: Solid			Added 250	Result 246.8	Qualifier	mg/Kg	D	<b>%Rec</b> 99	Prep %Rec Limits 90 - 110 Lab Contro Prep	Type: So	e Du olubi
Matrix: Solid Analysis Batch: 62392 Analyte Chloride Lab Sample ID: LCSD 880-62 Matrix: Solid Analysis Batch: 62392			Added 250 Spike	Result 246.8 LCSD	Qualifier	mg/Kg Clie	D	%Rec 99	Prep %Rec Limits 90 - 110 Lab Contro Prep %Rec	Type: So  ol Sampl Type: So	e Du olubi RP
Matrix: Solid Analysis Batch: 62392 Analyte Chloride Lab Sample ID: LCSD 880-62 Matrix: Solid Analysis Batch: 62392 Analyte			Added 250 Spike Added	Result 246.8 LCSD Result	Qualifier	mg/Kg Clie Unit	D	%Rec 99 ple ID: I	Prep %Rec Limits 90 - 110 Lab Contro Prep %Rec Limits	Type: So DI Sampl Type: So 	e Du olubi olubi RP Lim
Matrix: Solid Analysis Batch: 62392 Analyte Chloride Lab Sample ID: LCSD 880-62 Matrix: Solid Analysis Batch: 62392 Analyte			Added 250 Spike	Result 246.8 LCSD	Qualifier	mg/Kg Clie	D	%Rec 99	Prep %Rec Limits 90 - 110 Lab Contro Prep %Rec	Type: So  ol Sampl Type: So	e Du olubi olubi RP Lim
Matrix: Solid Analysis Batch: 62392 Analyte Chloride Lab Sample ID: LCSD 880-62 Matrix: Solid Analysis Batch: 62392 Analyte Chloride	152/3-A		Added 250 Spike Added	Result 246.8 LCSD Result	Qualifier	mg/Kg Clie Unit	D	%Rec           99           ple ID: I           %Rec           98	Prep %Rec Limits 90 - 110 Lab Contro Prep %Rec Limits 90 - 110	Type: So DI Sampl Type: So <u>RPD</u> 1	e Du olubi olubi RP Lim 2
Matrix: Solid Analysis Batch: 62392 Analyte Chloride Lab Sample ID: LCSD 880-62 Matrix: Solid Analysis Batch: 62392 Analyte Chloride Lab Sample ID: 880-33029-A-	152/3-A		Added 250 Spike Added	Result 246.8 LCSD Result	Qualifier	mg/Kg Clie Unit	D	%Rec           99           ple ID: I           %Rec           98	Prep %Rec Limits 90 - 110 Lab Contro Prep %Rec Limits 90 - 110 Sample ID	Type: So ol Sampl Type: So <u></u> 1 : Matrix	e Du olubi RP Lim 2 Spik
Lab Sample ID: LCS 880-621 Matrix: Solid Analysis Batch: 62392 Analyte Chloride Lab Sample ID: LCSD 880-62 Matrix: Solid Analysis Batch: 62392 Analyte Chloride Lab Sample ID: 880-33029-A- Matrix: Solid Analysis Batch: 62392	152/3-A		Added 250 Spike Added	Result 246.8 LCSD Result	Qualifier	mg/Kg Clie Unit	D	%Rec           99           ple ID: I           %Rec           98	Prep %Rec Limits 90 - 110 Lab Contro Prep %Rec Limits 90 - 110 Sample ID	Type: So DI Sampl Type: So <u>RPD</u> 1	e Du olubi RP Lim 2 Spik
Matrix: Solid Analysis Batch: 62392 Analyte Chloride Lab Sample ID: LCSD 880-62 Matrix: Solid Analysis Batch: 62392 Analyte Chloride Lab Sample ID: 880-33029-A-			Added 250 Spike Added 250	Result 246.8 LCSD Result 243.8	Qualifier LCSD Qualifier	mg/Kg Clie Unit	D	%Rec           99           ple ID: I           %Rec           98	Prep %Rec Limits 90 - 110 Lab Contro Prep %Rec Limits 90 - 110 Sample ID Prep	Type: So ol Sampl Type: So <u></u> 1 : Matrix	e Du olubi olubi RP Lim 2 Spik
Matrix: Solid Analysis Batch: 62392 Analyte Chloride Lab Sample ID: LCSD 880-62 Matrix: Solid Analysis Batch: 62392 Analyte Chloride Lab Sample ID: 880-33029-A- Matrix: Solid Analysis Batch: 62392	2152/3-A 	Sample Qualifier	Added 250 Spike Added 250 Spike	Result 246.8 LCSD Result 243.8	Qualifier LCSD Qualifier MS	Unit mg/Kg	D nt Sam D	%Rec 99 ple ID: I %Rec 98 Client	Prep %Rec Limits 90 - 110 Lab Contro Prep %Rec Limits 90 - 110 Sample ID Prep %Rec	Type: So ol Sampl Type: So <u></u> 1 : Matrix	e Du olubi RP Lim 2 Spik
Matrix: Solid Analysis Batch: 62392 Analyte Chloride Lab Sample ID: LCSD 880-62 Matrix: Solid Analysis Batch: 62392 Analyte Chloride Lab Sample ID: 880-33029-A- Matrix: Solid Analysis Batch: 62392 Analyte	2152/3-A 	Qualifier	Added 250 Spike Added 250	Result 246.8 LCSD Result 243.8	Qualifier LCSD Qualifier MS Qualifier	mg/Kg Clie Unit	D	%Rec           99           ple ID: I           %Rec           98	Prep %Rec Limits 90 - 110 Lab Contro Prep %Rec Limits 90 - 110 Sample ID Prep	Type: So ol Sampl Type: So <u></u> 1 : Matrix	e Du olubi RP Lim 2 Spik
Matrix: Solid Analysis Batch: 62392 Analyte Chloride Lab Sample ID: LCSD 880-62 Matrix: Solid Analysis Batch: 62392 Analyte Chloride Lab Sample ID: 880-33029-A- Matrix: Solid Analysis Batch: 62392 Analyte Chloride Lab Sample ID: 880-33029-A- Matrix: Solid	2152/3-A -1-F MS Sample Result 40.4	Qualifier	Added 250 Spike Added 250 Spike Added	Result 246.8 LCSD Result 243.8 MS Result	Qualifier LCSD Qualifier MS Qualifier	Unit mg/Kg	D	%Rec         99           ple ID: I         %Rec           98         Client           %Rec         122	Prep %Rec Limits 90 - 110 Lab Contro Prep %Rec Limits 90 - 110 Sample ID Prep %Rec Limits 90 - 110	Type: So DI Sampl Type: So <u>RPD</u> 1 2: Matrix Type: So	e Du olubi RP Lim 2 Spik olubi
Matrix: Solid Analysis Batch: 62392 Analyte Chloride Lab Sample ID: LCSD 880-62 Matrix: Solid Analysis Batch: 62392 Analyte Chloride Lab Sample ID: 880-33029-A- Matrix: Solid Analysis Batch: 62392 Analyte Chloride Lab Sample ID: 880-33029-A- Matrix: Solid	-1-F MS 	Qualifier F1	Added 250 Spike Added 250 Spike Added 251	Result 246.8 LCSD Result 243.8 MS Result 345.3	Qualifier LCSD Qualifier MS Qualifier F1	Unit mg/Kg	D	%Rec         99           ple ID: I         %Rec           98         Client           %Rec         122	Prep %Rec Limits 90 - 110 Lab Contro Prep %Rec Limits 90 - 110 Sample ID Prep %Rec Limits 90 - 110 0: Matrix Sp	Type: So ol Sampl Type: So <u>RPD</u> 1 : Matrix Type: So  pike Dup	e Du olubl RP Lim 2 Spik olubl
Matrix: Solid Analysis Batch: 62392 Analyte Chloride Lab Sample ID: LCSD 880-62 Matrix: Solid Analysis Batch: 62392 Analyte Chloride Lab Sample ID: 880-33029-A- Matrix: Solid	2152/3-A -1-F MS Sample Result 40.4 -1-G MSD Sample	Qualifier	Added 250 Spike Added 250 Spike Added	Result 246.8 LCSD Result 243.8 MS Result 345.3	Qualifier LCSD Qualifier MS Qualifier	Unit mg/Kg	D	%Rec         99           ple ID: I         %Rec           98         Client           %Rec         122	Prep %Rec Limits 90 - 110 Lab Contro Prep %Rec Limits 90 - 110 Sample ID Prep %Rec Limits 90 - 110	Type: So ol Sampl Type: So <u>RPD</u> 1 : Matrix Type: So  pike Dup	e Du olubi RPI Lim 2 Spik olubi

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# **QC Association Summary**

Client: Carmona Resources Project/Site: Tonto 15 State #1

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Job ID: 880-33031-1 SDG: Lea County NM

## **GC VOA**

#### Analysis Batch: 62040

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33031-1	S-1 (0-1')	Total/NA	Solid	8021B	62082
880-33031-2	S-1 (1.5')	Total/NA	Solid	8021B	62082
880-33031-3	S-1 (2')	Total/NA	Solid	8021B	62082
880-33031-4	S-1 (3')	Total/NA	Solid	8021B	62082
880-32833-A-8-A MB	Method Blank	Total/NA	Solid	8021B	62041
MB 880-62082/5-A	Method Blank	Total/NA	Solid	8021B	62082
LCS 880-62082/1-A	Lab Control Sample	Total/NA	Solid	8021B	62082
LCSD 880-62082/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	62082
890-5210-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	62082
890-5210-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	62082

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
880-32833-A-8-A MB	Method Blank	Total/NA	Solid	5030B	

#### Prep Batch: 62082

LCS 880-62082/1-A	Lab Control Sample	Iotal/NA	Solid	8021B	62082	
LCSD 880-62082/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	62082	8
890-5210-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	62082	
890-5210-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	62082	9
Prep Batch: 62041						10
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch	
880-32833-A-8-A MB	Method Blank	Total/NA	Solid	5030B		11
Prep Batch: 62082						4.0
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch	12
880-33031-1	S-1 (0-1')	Total/NA	Solid	5035		40
880-33031-2	S-1 (1.5')	Total/NA	Solid	5035		13
880-33031-3	S-1 (2')	Total/NA	Solid	5035		
880-33031-4	S-1 (3')	Total/NA	Solid	5035		14
MB 880-62082/5-A	Method Blank	Total/NA	Solid	5035		
LCS 880-62082/1-A	Lab Control Sample	Total/NA	Solid	5035		
LCSD 880-62082/2-A	Lab Control Sample Dup	Total/NA	Solid	5035		
000 5040 4 4 4 40		Total/NA	Solid	5035		
890-5210-A-1-A MS	Matrix Spike	TOtal/INA	30110	5055		
890-5210-A-1-A MS 890-5210-A-1-B MSD	Matrix Spike Matrix Spike Duplicate	Total/NA	Solid	5035		

#### Analysis Batch: 62184

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
880-33031-1	S-1 (0-1')	Total/NA	Solid	Total BTEX	
880-33031-2	S-1 (1.5')	Total/NA	Solid	Total BTEX	
880-33031-3	S-1 (2')	Total/NA	Solid	Total BTEX	
880-33031-4	S-1 (3')	Total/NA	Solid	Total BTEX	

## GC Semi VOA

#### Prep Batch: 62103

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33031-1	S-1 (0-1')	Total/NA	Solid	8015NM Prep	
880-33031-2	S-1 (1.5')	Total/NA	Solid	8015NM Prep	
880-33031-3	S-1 (2')	Total/NA	Solid	8015NM Prep	
880-33031-4	S-1 (3')	Total/NA	Solid	8015NM Prep	
MB 880-62103/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-62103/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-62103/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-33016-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-33016-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	
Analysis Batch: 62118					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33031-1	S-1 (0-1')	Total/NA	Solid	8015B NM	62103

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# **QC Association Summary**

Client: Carmona Resources Project/Site: Tonto 15 State #1

## GC Semi VOA (Continued)

## Analysis Batch: 62118 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33031-2	S-1 (1.5')	Total/NA	Solid	8015B NM	62103
880-33031-3	S-1 (2')	Total/NA	Solid	8015B NM	62103
880-33031-4	S-1 (3')	Total/NA	Solid	8015B NM	62103
MB 880-62103/1-A	Method Blank	Total/NA	Solid	8015B NM	62103
LCS 880-62103/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	62103
LCSD 880-62103/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	62103
880-33016-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	62103
880-33016-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	62103
Analysis Batch: 62244					

_ab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-33031-1	S-1 (0-1')	Total/NA	Solid	8015 NM	
380-33031-2	S-1 (1.5')	Total/NA	Solid	8015 NM	
380-33031-3	S-1 (2')	Total/NA	Solid	8015 NM	
380-33031-4	S-1 (3')	Total/NA	Solid	8015 NM	

### HPLC/IC

### Leach Batch: 62152

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33031-1	S-1 (0-1')	Soluble	Solid	DI Leach	
380-33031-2	S-1 (1.5')	Soluble	Solid	DI Leach	
380-33031-3	S-1 (2')	Soluble	Solid	DI Leach	
380-33031-4	S-1 (3')	Soluble	Solid	DI Leach	
MB 880-62152/1-A	Method Blank	Soluble	Solid	DI Leach	
_CS 880-62152/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
_CSD 880-62152/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
380-33029-A-1-F MS	Matrix Spike	Soluble	Solid	DI Leach	
880-33029-A-1-G MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

#### Analysis Batch: 62392

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
880-33031-1	S-1 (0-1')	Soluble	Solid	300.0	62152
880-33031-2	S-1 (1.5')	Soluble	Solid	300.0	62152
880-33031-3	S-1 (2')	Soluble	Solid	300.0	62152
880-33031-4	S-1 (3')	Soluble	Solid	300.0	62152
MB 880-62152/1-A	Method Blank	Soluble	Solid	300.0	62152
LCS 880-62152/2-A	Lab Control Sample	Soluble	Solid	300.0	62152
LCSD 880-62152/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	62152
880-33029-A-1-F MS	Matrix Spike	Soluble	Solid	300.0	62152
880-33029-A-1-G MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	62152

Job ID: 880-33031-1 SDG: Lea County NM

# Lab Sample ID: 880-33031-1

Matrix: Solid

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Client Sample ID: S-1 (0-1') Date Collected: 09/07/23 00:00 Date Received: 09/08/23 13:34

Client: Carmona Resources

Project/Site: Tonto 15 State #1

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	62082	09/08/23 13:56	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62040	09/09/23 03:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62184	09/11/23 13:03	SM	EET MID
Total/NA	Analysis	8015 NM		1			62244	09/12/23 09:16	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	62103	09/08/23 15:14	ткс	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62118	09/11/23 18:04	AJ	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	62152	09/11/23 10:16	AG	EET MID
Soluble	Analysis	300.0		1			62392	09/14/23 02:20	СН	EET MID

# Lab Sample ID: 880-33031-2

Lab Sample ID: 880-33031-3

Lab Sample ID: 880-33031-4

Matrix: Solid

Matrix: Solid

#### Date Collected: 09/07/23 00:00 Date Received: 09/08/23 13:34

Client Sample ID: S-1 (1.5')

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	62082	09/08/23 13:56	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62040	09/09/23 04:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62184	09/11/23 13:03	SM	EET MID
Total/NA	Analysis	8015 NM		1			62244	09/12/23 09:16	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	62103	09/08/23 15:14	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62118	09/11/23 18:26	AJ	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	62152	09/11/23 10:16	AG	EET MID
Soluble	Analysis	300.0		1			62392	09/14/23 02:27	СН	EET MID

### Client Sample ID: S-1 (2') Date Collected: 09/07/23 00:00

#### Date Received: 09/08/23 13:34

Ргер Туре	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	62040	09/09/23 04:33	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62184	09/11/23 13:03	SM	EET MID
Total/NA	Analysis	8015 NM		1			62244	09/12/23 09:16	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	62103	09/08/23 15:14	ткс	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62118	09/11/23 18:48	AJ	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	62152	09/11/23 10:16	AG	EET MID
Soluble	Analysis	300.0		1			62392	09/14/23 02:33	СН	EET MID

#### Client Sample ID: S-1 (3') Date Collected: 09/07/23 00:00 Date Received: 09/08/23 13:34

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	62082	09/08/23 13:56	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62040	09/09/23 04:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62184	09/11/23 13:03	SM	EET MID

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Matrix: Solid

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# Released to Imaging: 11/6/2023 11:57:53 AM
Job ID: 880-33031-1

SDG: Lea County NM

Matrix: Solid

Lab Sample ID: 880-33031-4

### Lab Chronicle

Client: Carmona Resources Project/Site: Tonto 15 State #1

### Client Sample ID: S-1 (3') Date Collected: 09/07/23 00:00 Date Received: 09/08/23 13:34

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			62244	09/12/23 09:16	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	62103	09/08/23 15:14	ткс	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62118	09/11/23 19:09	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	62152	09/11/23 10:16	AG	EET MID
Soluble	Analysis	300.0		1			62392	09/14/23 02:40	СН	EET MID

### Laboratory References:

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

Eurofins Midland

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### Accreditation/Certification Summary

Client: Carmona Resources Project/Site: Tonto 15 State #1 Job ID: 880-33031-1 SDG: Lea County NM

### Laboratory: Eurofins Midland

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

uthority		rogram	Identification Number	Expiration Date
exas	N	ELAP	T104704400-23-26	06-30-24
The following analytes	are included in this report by	ut the laboratory is not certifi	ied by the governing authority. This list ma	v include analytes for w
the agency does not of	fer certification.	·		,
the agency does not of Analysis Method	• •	Matrix	Analyte	
the agency does not of	fer certification.	·		

Eurofins Midland

### **Method Summary**

Client: Carmona Resources Project/Site: Tonto 15 State #1

Job ID: 880-33031-1 SDG: Lea County NM

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
EPA = US	STM International Environmental Protection Agency		
	"Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third E = TestAmerica Laboratories, Standard Operating Procedure	dition, November 1986 And Its Updates.	
Laboratory Re			
EET MID =	= Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440	J	

### Laboratory References:

Eurofins Midland

Client: Carmona Resources Project/Site: Tonto 15 State #1 Job ID: 880-33031-1 SDG: Lea County NM

ab Sample ID.	Client Sample ID	Matrix	Collected	Received	
80-33031-1	S-1 (0-1')	Solid	09/07/23 00:00	09/08/23 13:34	
80-33031-2	S-1 (1.5')	Solid	09/07/23 00:00	09/08/23 13:34	
80-33031-3	S-1 (2')	Solid	09/07/23 00:00	09/08/23 13:34	
80-33031-4	S-1 (3')	Solid	09/07/23 00:00	09/08/23 13:34	

Received by OCD: 9/21/2023 6:16:51 AM

arritt Resources all St Site 500 IX 79701 Tonto 15 State #1 2089 CCM Temp Blank Ves No Ves No No Themometer ID Ves No NiA Temperature Reading Corrected Temperature.	Email Email Turn Routine Due Date Due Date Due Date nometer ID nometer ID toometer ID toometer ID toometer ID	Email Email Email Curn Factor Erature Reading	Bill to:     Bill to:       Company Name     Company Name       Address.     Address.       Email     Insanjari@marathonoil.c.       Furn Around     Pres.       Oue Date     5 day       Due Date     5 day       Onometer ID     Ut ce.       Vet ice.     Cies No       Parameters     Parameters	Bill to:     Bill to:     Bill to:     Bill to:     Bill to:     Gompany Name       Company Name     Address.     City, State ZIP:     City, State ZIP:       Email     Insanjari@marathonol.c.       Furn Around     Rush     Code       Oue Date     5 day     Pres.       Due Date     5 day     Code       Oumeter ID     Wet Ice.     V.G. No       Parameters     Oue Date     5 day	Bill for (if different)    Melodie Sanjari       Company Name     Marathon Oil Corporation       Address.     990 Town and Country Blvd       City, State ZIP     Houston, TX 77024       Email     msanjari@marathonoil.com       Finali     msanjari@marathonoil.com       Under Date     5 day       Due Date     5 day       Parameters     5 day       Parameters     5 day	Hill to: (if different)     Melodie Sanjari       Company Name     Marathon Oil Corporation       Address.     990 Town and Country Blvd       City, State ZIP:     Houston, TX 77024       Email     Insanjari@marathonol.com       Email     Insanjari@marathonol.com       Vet Ice     5 day       Parameters     BTEX \$8021B       It (GR0 + DR0 + MR0)       It or ide	Hill for (if different)     Melodie Sanjari       Company Name     Marathon Oil Corporation       Address.     990 Town and Country Blvd       City, State ZIP     Houston, TX 77024       Email     Insanjari@marathonol.com       Email     Insanjari@marathonol.com       Vet Ice     5 day       Parameters     BTEX 8021B       It (GRO + DRO + MRO)     It (GRO + DRO + MRO)
			Bill to: (if different) Company Name Address. City, State ZIP City, State ZIP Rush Pres. 5 day Parameters Parameters	Bill to: (if different)       Company Name       Address.       City, State ZIP       City, State ZIP       Rush       Pres.       State Zip       No       Pres.       Turn Around       Pres.       City, State Zip       City, State Zip       City, State Zip       Rush       Code       Staty       Turn Around       Pres.       Staty       Parameters	u     Bill t0:-(fr different)     Image: Company Name     Marathon Oil Corporation       Address.     990 Town and Country Blvd       City, State ZIP     Houston, TX 77024       mail     msanlari@marathonol.com       5 day     Pres.       SR0 + DR0 + MR0)     ride 300.0	Bill to: (fr different)     Melodie Sanjari       Company Name     Marathon Oil Corporation       Address.     990 Town and Country Blvd       City, State ZIP     Houston, TX 77024       mail     msanjari@marathonoil.com       S day     Pres.       Parameters     BTEX 8021B       tr (GRO + DRO + MRO)     I       hloride 300.0     I	Turn Around     Pres.       State ZIP     Houston, TX 77024       City, State ZIP     Houston, TX 77024       Bill to: (tritterem)     S day       Parameters     Pres.       BTEX 8021B     City GRO + DRO + MRO)
Parameters Code GRO + DRO + MRO) Itoride 300.0	In control (Comporation) Trathon Oil Corporation Trathon Oil Corporation TX 77024 Inoride 300.0 Inoride 30	ANALYSIS REQUEST	ANALYSIS REQUEST	erables. EDD	of Project: erables. EDD		
Parameters       Melodie Sanjari       Work Order Comm         Parameters       990 Town and Country Blvd       990 Town and Country Blvd       Program: UST/PST PRP Irownfields         State of Project:       Reporting Level II       ILevel III       IST/UST         A ( GRO + DRO + MRO)       ANALYSIS REQUEST       Deliverables. EDD       ADaPT         Intoride 300.0       Intoride 300.0       Intoride 300.0       Intoride 300.0       Intoride 300.0	Interview of the second	Importation       Work Order Comm         State of Project:       None         ANALYSIS REQUEST       Peliverables. EDD       ADaPT         Importation       Importation       None         Importation       Importation       Program: UST/PST         Importation       Importation       Importation         Importation       Importation       Importati	ANALYSIS REQUEST ANALYS	Work Order Comm       of Project:       erables.       EDD       ADaPT       Cool       HCL       H2,S0       None       H2,S0       H2,S0       Na+3	Work Order Comm       ram: UST/PST       PRP       infing Level II       Cool       erables.       EDD       ADaPT       Cool       H1_2S0       H2_S0       H3_PC       H3_PC       H3_PC	Work Order Comm       ST     PRP       Image: Distribution of the state of the	Pa Prownfields DST/UST ADaPT ADaPT ADaPT Cool 0 HCL F H2S04 H3P04 Na2S2
Parameters     Code       BTEX 8021B     Houston, TX 77024       015M (GRO + DRO + MRO)     ANALYSIS REQU	Iodie Sanjari       Page1         Irathon Oil Corporation       Vork Order Comments         D Town and Country Blvd       Program: UST/PST □PRP □rownfields □RRP         Uston, TX 77024       Program: UST/PST □PRP □rownfields □RRP         Deliverables. EDD □       ADaPT □         Deliverables. EDD □       ADaPT □         Othoride 300.0       Image: Cool in the structure of the str	Page_1         WorkOrder Comments         State of Project:         Reporting Level II       Level III       Strust       Preservati         ANALYSIS REQUEST       Preservati       Preservati         ANALYSIS REQUEST       Preservati       None NO         Cool       Cool       Cool       Cool         Mone NO       Cool       Cool       H2         Mone NO       Cool Cool       H2       H3PO4       H2         MatSo4       NABIS       NaBIS       NaEso4       NaEso4	Page1         Work Order Comments         Program: UST/PST       PRP       Prownfields       & Rc         State of Project:       Reporting Level III       Istr/UST       PRP         Deliverables.       EDD       ADaPT       Other         Mone <no< th="">       Cool       Cool       Cool         Hold       Hold       Hold       Hold       Hold         ANALYSIS REQUEST       Preservati       Preservati         Hold       Hold       None NO       Cool       Cool         Hold       Hold       Hold       Hold       Hold       Hold         Naleso,       Naleso,       Naleso,       Nacetate+NaO</no<>	Page1	Page1	Page_1 Work Order Comments ST PRP Prownfields RRC Level III DST/UST RRP D ADaPT D Other D ADaPT D Other Preservati None NO Cool Cool HCL. HC H <sub>2</sub> S04 H <sub>2</sub> H <sub>3</sub> PO4 HP Na <sub>2</sub> S2O3 NaSO3	ents ents RRP Other Other Other H₂ H₂ H₂ NO Othas Oth

9/14/2023

Job Number: 880-33031-1 SDG Number: Lea County NM

List Source: Eurofins Midland

### Login Sample Receipt Checklist

Client: Carmona Resources

### Login Number: 33031 List Number: 1

<6mm (1/4").

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	N/A	

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**Environment Testing** 

# **ANALYTICAL REPORT**

# PREPARED FOR

Attn: Clint Merritt Carmona Resources 310 W Wall St Ste 500 Midland, Texas 79701 Generated 8/7/2023 12:34:56 PM

# JOB DESCRIPTION

Tonto 15 State #1 SDG NUMBER Lea County, New Mexico

# **JOB NUMBER**

880-31275-1

ËOL

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

AMER

Generated 8/7/2023 12:34:56 PM

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

Eurofins Midland is a laboratory within Eurofins Environment Testing South Central, LLC, a company within Eurofins Environment Testing Group of Companies

Laboratory Job ID: 880-31275-1 SDG: Lea County, New Mexico

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### Client: Carmona Resources Project/Site: Tonto 15 State #1

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Job ID: 880-31275-1
SDG: Lea County, New Mexico

		3
GC VOA Qualifier	Qualifier Description	
S1-	Surrogate recovery exceeds control limits, low biased.	
U	Indicates the analyte was analyzed for but not detected.	5
		9
GC Semi VOA		
Qualifier *-	Qualifier DescriptionLCS and/or LCSD is outside acceptance limits, low biased.	
- U	Indicates the analyte was analyzed for but not detected.	
0	indicates the analyte was analyzed for but not detected.	
Glossary		0
Abbreviation	These commonly used abbreviations may or may not be present in this report.	0
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis	Q
%R	Percent Recovery	3
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)	13
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)	

Toxicity Equivalent Quotient (Dioxin)

Too Numerous To Count

TEQ

TNTC

4

5

Job ID: 880-31275-1 SDG: Lea County, New Mexico

### Job ID: 880-31275-1

Client: Carmona Resources Project/Site: Tonto 15 State #1

### Laboratory: Eurofins Midland

### Narrative

Job Narrative 880-31275-1

### Receipt

The sample was received on 7/26/2023 4:45 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.5°C

### GC VOA

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-59172 recovered above the upper control limit for Benzene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 880-59172/20).

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-59110 and analytical batch 880-59172 was outside the upper control limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (880-31278-A-1-A). 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: The laboratory control sample (LCS) associated with preparation batch 880-59369 and analytical batch 880-59409 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.

Job ID: 880-31275-1 SDG: Lea County, New Mexico

### Lab Sample ID: 880-31275-1

Matrix: Solid

5

### Client: Carmona Resources Project/Site: Tonto 15 State #1

### Client Sample ID: S-2 (2') Date Collected: 07/25/23 00:00 Date Received: 07/26/23 16:45

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		08/01/23 09:01	08/04/23 05:48	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/01/23 09:01	08/04/23 05:48	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/01/23 09:01	08/04/23 05:48	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/01/23 09:01	08/04/23 05:48	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/01/23 09:01	08/04/23 05:48	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/01/23 09:01	08/04/23 05:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 130				08/01/23 09:01	08/04/23 05:48	1
1,4-Difluorobenzene (Surr)	70		70 - 130				08/01/23 09:01	08/04/23 05:48	1
Method: TAL SOP Total BTEX - To	otal BTEX Calo	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			08/04/23 10:48	1
Method: SW846 8015 NM - Diese	Range Organ	ics (DRO) (	GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			08/07/23 10:15	1
Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U *-	49.7		mg/Kg		08/04/23 17:30	08/06/23 14:07	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		08/04/23 17:30	08/06/23 14:07	1
Oll Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		08/04/23 17:30	08/06/23 14:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130				08/04/23 17:30	08/06/23 14:07	1
o-Terphenyl	94		70 - 130				08/04/23 17:30	08/06/23 14:07	1

Job ID: 880-31275-1 SDG: Lea County, New Mexico

Prep Type: Total/NA

Prep Type: Total/NA

### Method: 8021B - Volatile Organic Compounds (GC) Matrix: Solid

				Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1		
Lab Sample ID	Client Sample ID	(70-130)	(70-130)		
880-31275-1	S-2 (2')	84	70		
880-31278-A-1-B MS	Matrix Spike	121	124		
880-31278-A-1-C MSD	Matrix Spike Duplicate	119	91		
LCS 880-58969/1-A	Lab Control Sample	115	111		
LCSD 880-58969/2-A	Lab Control Sample Dup	114	109		
MB 880-58969/5-A	Method Blank	73	79		
MB 880-59110/5-A	Method Blank	68 S1-	100		
Surrogate Legend					

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

### Matrix: Solid

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Sample ID	Client Sample ID	(70-130)	(70-130)	
275-1	S-2 (2')	94	94	
1664-A-2-F MS	Matrix Spike	123	104	
64-A-2-G MSD	Matrix Spike Duplicate	128	112	
)-59369/2-A	Lab Control Sample	93	94	
80-59369/3-A	Lab Control Sample Dup	85	82	
380-59369/1-A	Method Blank	88	94	

### Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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### **QC Sample Results**

Client: Carmona Resources Project/Site: Tonto 15 State #1

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

Lab Sample ID: MB 880-58969/5-A	
Matrix: Solid	

Analysis Batch: 59172

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/01/23 09:01	08/03/23 22:38	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/01/23 09:01	08/03/23 22:38	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/01/23 09:01	08/03/23 22:38	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/01/23 09:01	08/03/23 22:38	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/01/23 09:01	08/03/23 22:38	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/01/23 09:01	08/03/23 22:38	1
	МВ	МВ							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	73		70 - 130				08/01/23 09:01	08/03/23 22:38	1
1,4-Difluorobenzene (Surr)	79		70 - 130				08/01/23 09:01	08/03/23 22:38	1

### Lab Sample ID: LCS 880-58969/1-A Matrix: Solid

### Analysis Batch: 59172

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09442		mg/Kg		94	70 - 130	
Toluene	0.100	0.08693		mg/Kg		87	70 - 130	
Ethylbenzene	0.100	0.1010		mg/Kg		101	70 - 130	
m-Xylene & p-Xylene	0.200	0.2099		mg/Kg		105	70 - 130	
o-Xylene	0.100	0.1041		mg/Kg		104	70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	115		70 - 130
1,4-Difluorobenzene (Surr)	111		70 - 130

### Lab Sample ID: LCSD 880-58969/2-A

### Matrix: Solid

Analysis Batch: 59172							Prep	Batch:	58969
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.08592		mg/Kg		86	70 - 130	9	35
Toluene	0.100	0.08219		mg/Kg		82	70 - 130	6	35
Ethylbenzene	0.100	0.08963		mg/Kg		90	70 - 130	12	35
m-Xylene & p-Xylene	0.200	0.1870		mg/Kg		94	70 - 130	12	35
o-Xylene	0.100	0.09268		mg/Kg		93	70 - 130	12	35

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

### Lab Sample ID: 880-31278-A-1-B MS

### Matrix: Solid Analysis Retaby 50172

Analysis Batch: 59172									Pre	Batch: 58969
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00202	U	0.0994	0.1002		mg/Kg		101	70 - 130	
Toluene	<0.00202	U	0.0994	0.09371		mg/Kg		94	70 - 130	

Prep Type: Total/NA

**Client Sample ID: Method Blank** 

Prep Type: Total/NA

Prep Batch: 58969

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### Prep Type: Total/NA Prep Batch: 58969

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

**Client Sample ID: Lab Control Sample** 

**Client Sample ID: Matrix Spike** 

Client: Carmona Resources

Project/Site: Tonto 15 State #1

### Job ID: 880-31275-1 SDG: Lea County, New Mexico

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

Lab Sample ID: 880-31278-4	A-1-B MS										Client S	Sample ID:	Matrix	Spike
Matrix: Solid												Prep T	ype: To	otal/NA
Analysis Batch: 59172												Prep	Batch:	5896
	Sample	Samp	ole	Spike	MS	MS						%Rec		
Analyte	Result	Quali	fier	Added	Result	Qua	lifier	Unit		D	%Rec	Limits		
Ethylbenzene	<0.00202	U		0.0994	0.1030			mg/Kg		_	104	70 - 130		
m-Xylene & p-Xylene	<0.00403	U		0.199	0.2125			mg/Kg			107	70 - 130		
o-Xylene	<0.00202	U		0.0994	0.1040			mg/Kg			105	70 - 130		
	MS	мs												
Surrogate	%Recovery	Quali	ifier	Limits										
4-Bromofluorobenzene (Surr)	121			70 - 130										
1,4-Difluorobenzene (Surr)	124			70 - 130										
Lab Sample ID: 880-31278-4	A-1-C MSD								Clier	nt Sa	mple ID:	Matrix Sp	ike Du	plicat
Matrix: Solid												Prep T	ype: To	otal/N/
Analysis Batch: 59172													Batch:	
	Sample	Samp	ole	Spike	MSD	MSD	)					%Rec		RPI
Analyte	Result	Quali	fier	Added	Result	Qua	lifier	Unit		D	%Rec	Limits	RPD	Lim
Benzene	<0.00202	U		0.0998	0.09502			mg/Kg		_	95	70 - 130	5	3
Toluene	<0.00202	U		0.0998	0.09100			mg/Kg			91	70 - 130	3	3
Ethylbenzene	<0.00202	U		0.0998	0.1021			mg/Kg			102	70 - 130	1	3
m-Xylene & p-Xylene	<0.00403	U		0.200	0.2097			mg/Kg			105	70 - 130	1	3
o-Xylene	<0.00202	U		0.0998	0.1024			mg/Kg			103	70 - 130	2	3
	MSD	MSD												
Surrogate	%Recovery	Quali	ifier	Limits										
4-Bromofluorobenzene (Surr)	119			70 - 130										
1,4-Difluorobenzene (Surr)	91			70 - 130										
Lab Sample ID: MB 880-591	10/5-A										Client Sa	mple ID: M	Nethod	Blan
Matrix: Solid												Prep T	ype: To	otal/N/
Analysis Batch: 59172												Prep	Batch:	<b>5911</b>
		MB	МВ											
Analyte	Re	sult	Qualifier	R	L	MDL	Unit		D	Pi	repared	Analyze	ed	Dil Fa
Benzene	<0.00	200	U	0.0020	0		mg/Kg	]		08/0	2/23 11:14	08/03/23 1	11:30	
Toluene	<0.00	200	U	0.0020	0		mg/Kg	9		08/0	2/23 11:14	08/03/23 1	11:30	
Ethylbenzene	<0.00	200	U	0.0020	0		mg/Kg	9		08/0	2/23 11:14	08/03/23 1	11:30	
m-Xylene & p-Xylene	<0.00	400	U	0.0040	0		mg/Kg	9		08/0	2/23 11:14	08/03/23 1	11:30	
o-Xylene	<0.00	200	U	0.0020	0		mg/Kg	9		08/0	2/23 11:14	08/03/23 1	11:30	
Xylenes, Total	<0.00	400	U	0.0040	0		mg/Kg	9		08/0	2/23 11:14	08/03/23 1	11:30	
_		ΜВ												
Surrogate	%Recov		Qualifier	Limits	_						repared	Analyz		Dil Fa
4-Bromofluorobenzene (Surr)		68	S1-	70 - 130							2/23 11:14	08/03/23		
1,4-Difluorobenzene (Surr)		100		70 - 130						08/0	2/23 11:14	08/03/23	11:30	

Lab Sample ID: MB 880-59369/1-A Matrix: Solid Analysis Batch: 59409							Client Sa	mple ID: Metho Prep Type: ⊺ Prep Batcł	Total/NA
	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		08/04/23 17:29	08/06/23 08:16	1
(GRO)-C6-C10									

Job ID: 880-31275-1 SDG: Lea County, New Mexico

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

Lab Sample ID: MB 880-59369	/ <b>1-A</b>									Client S	ample ID:		
Matrix: Solid											Prep	Type: To	otal/NA
Analysis Batch: 59409											Prep	Batch:	59369
		В МВ											
Analyte		t Qualifier	RL		MDL			<u>D</u>		epared	Analy		Dil Fac
Diesel Range Organics (Over	<50.	D U	50.0			mg/Kg			08/04	4/23 17:29	08/06/23	08:16	1
C10-C28) Oll Range Organics (Over C28-C36)	<50.	וו ר	50.0			mg/Kg			08/0/	1/23 17:29	08/06/23	08.16	1
	-00.		00.0			iiig/itg			00/0-	720 17.20	00/00/20	00.10	
	M	B MB											
Surrogate	%Recover	Qualifier	Limits					_	Pr	repared	Analy	zed	Dil Fac
1-Chlorooctane	8		70 - 130						08/04	4/23 17:29	08/06/23	08:16	1
o-Terphenyl	9	4	70 _ 130						08/04	4/23 17:29	08/06/23	08:16	1
Lab Sample ID: LCS 880-5936	9/2-4							CI	ient	Sample	ID: Lab C	ontrol S	amnle
Matrix: Solid										Campio		Type: To	
Analysis Batch: 59409												Batch:	
· · · · · · · · · · · · · · · · · · ·			Spike	LCS	LCS						%Rec		
Analyte			Added	Result			Unit		D	%Rec	Limits		
Gasoline Range Organics			1000	661.8			mg/Kg			66	70 - 130		
(GRO)-C6-C10													
Diesel Range Organics (Over			1000	873.3			mg/Kg			87	70 - 130		
C10-C28)													
	LCS LC	S											
Surrogate	%Recovery Qu	alifier	Limits										
Surroyate													
1-Chlorooctane	93		70 - 130										
	93 94		70 - 130 70 - 130										
1-Chlorooctane o-Terphenyl	94						Cli	ont	Sam		ab Contre	ol Samn	
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-593	94						Cli	ent S	Sam	ple ID: L	ab Contro	-	
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-593 Matrix: Solid	94						Cli	ent S	Sam	ple ID: L	Prep	Type: To	otal/NA
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-593	94		70 - 130	LCSD	LCSI	D	Cli	ent \$	Sam	ple ID: L	Prep Prep	-	otal/NA 59369
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-593 Matrix: Solid Analysis Batch: 59409	94			LCSD Result			Cli Unit	ent S	Sam	ple ID: L %Rec	Prep	Type: To	otal/NA
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-593 Matrix: Solid	94		70 - 130 Spike		Qual		Unit	ent \$		-	Prep Prep %Rec	Type: To Batch:	59369 RPD
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-593 Matrix: Solid Analysis Batch: 59409 Analyte	94		70 - 130 Spike Added	Result	Qual			ent \$		%Rec	Prep Prep %Rec Limits	Type: To Batch: 	59369 RPD Limit
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-593 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	94		70 - 130 Spike Added	Result	Qual		Unit	ent \$		%Rec	Prep Prep %Rec Limits	Type: To Batch: 	59369 RPD Limit
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-593 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10	94		70 - 130 Spike Added 1000	<b>Result</b> 660.9	Qual		Unit mg/Kg	ent \$		%Rec	Prep Prep %Rec Limits 70 - 130	Type: To b Batch: RPD 0	<b>59369</b> <b>RPD</b> Limit 20
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-593 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	94		70 - 130 Spike Added 1000	<b>Result</b> 660.9	Qual		Unit mg/Kg	ent \$		%Rec	Prep Prep %Rec Limits 70 - 130	Type: To b Batch: RPD 0	<b>59369</b> <b>RPD</b> Limit 20
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-593 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	94 69/3-A		70 - 130 Spike Added 1000	<b>Result</b> 660.9	Qual		Unit mg/Kg	ent \$		%Rec	Prep Prep %Rec Limits 70 - 130	Type: To b Batch: RPD 0	<b>59369</b> <b>RPD</b> Limit 20
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-593 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	94 69/3-A 		70 - 130 Spike Added 1000	<b>Result</b> 660.9	Qual		Unit mg/Kg	ent S		%Rec	Prep Prep %Rec Limits 70 - 130	Type: To b Batch: RPD 0	<b>59369</b> <b>RPD</b> Limit 20
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-593 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate	94 69/3-A 		70 - 130 Spike Added 1000 1000 Limits	<b>Result</b> 660.9	Qual		Unit mg/Kg	ent S		%Rec	Prep Prep %Rec Limits 70 - 130	Type: To b Batch: RPD 0	<b>59369</b> <b>RPD</b> Limit 20
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-593 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl	94 69/3-A 		70 - 130 Spike Added 1000 1000 Limits 70 - 130	<b>Result</b> 660.9	Qual		Unit mg/Kg	ent \$		<b>%Rec</b> 66 85	Prep %Rec Limits 70 - 130 70 - 130	Type: To Batch: RPD 0 3	<b>59369</b> <b>RPD</b> Limit 20
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-593 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 880-31664-A-2	94 69/3-A 		70 - 130 Spike Added 1000 1000 Limits 70 - 130	<b>Result</b> 660.9	Qual		Unit mg/Kg	ent {		<b>%Rec</b> 66 85	Prep %Rec Limits 70 - 130 70 - 130	Type: To Batch: RPD 0 3 2: Matrix	stal/NA 59369 RPD Limit 20 20
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-593 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 880-31664-A-2 Matrix: Solid	94 69/3-A 		70 - 130 Spike Added 1000 1000 Limits 70 - 130	<b>Result</b> 660.9	Qual		Unit mg/Kg	ent \$		<b>%Rec</b> 66 85	Prep %Rec Limits 70 - 130 70 - 130 70 - 130	Type: To Batch:	stal/NA 59369 RPD Limit 20 20 20
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-593 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 880-31664-A-2	94 69/3-A 	alifier	70 - 130 Spike Added 1000 1000 Limits 70 - 130	Result 660.9 845.2	Qual		Unit mg/Kg	ent \$		<b>%Rec</b> 66 85	Prep %Rec Limits 70 - 130 70 - 130 70 - 130	Type: To Batch: RPD 0 3 2: Matrix	stal/NA 59369 RPD Limit 20 20 20
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-593 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 880-31664-A-2 Matrix: Solid	94 69/3-A 	alifier	70 - 130 Spike Added 1000 1000 Limits 70 - 130 70 - 130	Result 660.9 845.2	Qual *_	ifier	Unit mg/Kg	ent S		<b>%Rec</b> 66 85	Prep %Rec Limits 70 - 130 70 - 130 70 - 130 Sample IE Prep Prep	Type: To Batch:	stal/NA 59369 RPD Limit 20 20 20
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-593 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 880-31664-A-2 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics	94 69/3-A 	alifier	70 - 130 Spike Added 1000 1000 Limits 70 - 130 70 - 130 Spike	Result 660.9 845.2 MS	Qual *_	ifier	Unit mg/Kg mg/Kg	ent \$	<u>D</u> .	%Rec 66 85 Client	Prep %Rec Limits 70 - 130 70 - 130 70 - 130 Sample IL Prep %Rec	Type: To Batch:	stal/NA 59369 RPD Limit 20 20 20
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-593 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 880-31664-A-2 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10	94 69/3-A 	alifier	70 - 130         Spike         Added         1000         1000         1000         1000         1000         50 - 130         70 - 130         70 - 130         Spike         Added         993	Result           660.9           845.2           MS           Result           876.9	Qual *_	ifier	Unit mg/Kg mg/Kg <u>Unit</u> mg/Kg	ent \$	<u>D</u> .	%Rec 66 85 Client 5 %Rec 86	Prep           %Rec           Limits           70 - 130           70 - 130           70 - 130           Sample IC           Prep           %Rec           Limits           70 - 130	Type: To Batch:	stal/NA 59369 RPD Limit 20 20 20
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-593 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 880-31664-A-2 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10	94 69/3-A 	alifier	70 - 130         Spike         Added         1000         1000         1000         1000         1000         50 - 130         70 - 130         70 - 130         Spike         Added	Result           660.9           845.2           MS           Result	Qual *_	ifier	Unit mg/Kg mg/Kg	ent \$	<u>D</u> .	%Rec 66 85 Client	Prep %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130 8 8 8 9 9 70 - 130 70 - 130 70 - 130 70 - 130	Type: To Batch:	stal/NA 59369 RPD Limit 20 20 20
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-593 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 880-31664-A-2 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	94 69/3-A 	alifier mple alifier	70 - 130         Spike         Added         1000         1000         1000         1000         1000         50 - 130         70 - 130         70 - 130         Spike         Added         993	Result           660.9           845.2           MS           Result           876.9	Qual *_	ifier	Unit mg/Kg mg/Kg <u>Unit</u> mg/Kg	ent \$	<u>D</u> .	%Rec 66 85 Client 5 %Rec 86	Prep           %Rec           Limits           70 - 130           70 - 130           70 - 130           Sample IC           Prep           %Rec           Limits           70 - 130	Type: To Batch:	stal/NA 59369 RPD Limit 20 20 20
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-593 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 880-31664-A-2 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	94 69/3-A <i>LCSD LC</i> %Recovery QL 85 82 8-F MS Sample Sa <u>Result Qu</u> <50.3 U	alifier mple alifier	70 - 130         Spike         Added         1000         1000         1000         1000         1000         50 - 130         70 - 130         70 - 130         Spike         Added         993	Result           660.9           845.2           MS           Result           876.9	Qual *_	ifier	Unit mg/Kg mg/Kg <u>Unit</u> mg/Kg	ent \$	<u>D</u> .	%Rec 66 85 Client 5 %Rec 86	Prep           %Rec           Limits           70 - 130           70 - 130           70 - 130           Sample IC           Prep           %Rec           Limits           70 - 130	Type: To Batch:	stal/NA 59369 RPD Limit 20 20 20
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-593 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 880-31664-A-2 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	94 69/3-A <i>LCSD LC</i> %Recovery QL 85 82 2-F MS Sample Sa Result QU <50.3 U 61.5 MS MS	alifier mple alifier	70 - 130         Spike         Added         1000         1000         1000         1000         1000         1000         5pike         Added         993         993         993	Result           660.9           845.2           MS           Result           876.9	Qual *_	ifier	Unit mg/Kg mg/Kg <u>Unit</u> mg/Kg	ent \$	<u>D</u> .	%Rec 66 85 Client 5 %Rec 86	Prep           %Rec           Limits           70 - 130           70 - 130           70 - 130           Sample IC           Prep           %Rec           Limits           70 - 130	Type: To Batch:	stal/NA 59369 RPD Limit 20 20 20

### **QC Sample Results**

Client: Carmona Resources Project/Site: Tonto 15 State #1 Job ID: 880-31275-1 SDG: Lea County, New Mexico

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

Analysis Batch: 59409	<b>.</b> .		•							Batch:		
• • •	-	Sample	Spike		MSD		_		%Rec		RPD	
Analyte		Qualifier	Added		Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10	<50.3	U *-	992	918.4		mg/Kg		91	70 - 130	5	20	
Diesel Range Organics (Over	61.5		992	1254		mg/Kg		120	70 - 130	6	20	
C10-C28)												
	MSD	MSD										
Surrogate	%Recovery	Qualifier	Limits									2
1-Chlorooctane	128		70 - 130									
o-Terphenyl	112		70 - 130									

**Client Sample ID** 

Lab Control Sample

Lab Control Sample Dup

Matrix Spike Duplicate

**Client Sample ID** 

**Client Sample ID** 

Method Blank

Method Blank

Matrix Spike

Lab Control Sample

Lab Control Sample Dup

Matrix Spike Duplicate

S-2 (2')

Method Blank

Method Blank

Matrix Spike

S-2 (2')

### **QC** Association Summary

Prep Type

Total/NA

Total/NA

Total/NA

Client: Carmona Resources Project/Site: Tonto 15 State #1

**GC VOA** 

880-31275-1

Prep Batch: 58969 Lab Sample ID

MB 880-58969/5-A

LCS 880-58969/1-A

LCSD 880-58969/2-A

880-31278-A-1-B MS

880-31278-A-1-C MSD

Prep Batch: 59110

MB 880-59110/5-A

Analysis Batch: 59172

Lab Sample ID

Lab Sample ID

MB 880-58969/5-A

MB 880-59110/5-A

LCS 880-58969/1-A

LCSD 880-58969/2-A

880-31278-A-1-B MS

880-31278-A-1-C MSD

880-31275-1

Job ID: 880-31275-1 SDG: Lea County, New Mexico

Method

5035

5035

5035

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Prep Batch

# 8

Total/NA Solid 5035 Total/NA Solid 5035 Total/NA Solid 5035 Prep Type Matrix Method Prep Batch 5035 Total/NA Solid Prep Type Matrix Method Prep Batch 8021B Total/NA Solid 58969 Total/NA Solid 8021B 58969 Total/NA Solid 8021B 59110 Total/NA Solid 8021B 58969 Total/NA Solid 8021B 58969 Total/NA Solid 8021B 58969 Total/NA Solid 8021B 58969

Matrix

Solid

Solid

Solid

### Analysis Batch: 59323

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
880-31275-1	S-2 (2')	Total/NA	Solid	Total BTEX	

### GC Semi VOA

### Prep Batch: 59369

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31275-1	S-2 (2')	Total/NA	Solid	8015NM Prep	
MB 880-59369/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-59369/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-59369/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-31664-A-2-F MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-31664-A-2-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

### Analysis Batch: 59409

Lab Sample ID	Client Sample ID	D Prep Type N		Method	Prep Batch
880-31275-1	S-2 (2')	Total/NA	Solid	8015B NM	59369
MB 880-59369/1-A	Method Blank	Total/NA	Solid	8015B NM	59369
LCS 880-59369/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	59369
LCSD 880-59369/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	59369
880-31664-A-2-F MS	Matrix Spike	Total/NA	Solid	8015B NM	59369
880-31664-A-2-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	59369
Analysis Batch: 59477					

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31275-1	S-2 (2')	Total/NA	Solid	8015 NM	

# Client Sample ID: S-2 (2')

Date Collected: 07/25/23 00:00 Date Received: 07/26/23 16:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	58969	08/01/23 09:01	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	59172	08/04/23 05:48	SM	EET MID
Total/NA	Analysis	Total BTEX		1			59323	08/04/23 10:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			59477	08/07/23 10:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	59369	08/04/23 17:30	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59409	08/06/23 14:07	SM	EET MID

### Laboratory References:

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

Job ID: 880-31275-1 SDG: Lea County, New Mexico

# Lab Sample ID: 880-31275-1

Matrix: Solid

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Client: Carmona Resources Project/Site: Tonto 15 State #1 Job ID: 880-31275-1 SDG: Lea County, New Mexico

### Laboratory: Eurofins Midland

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

Authority		rogram	Identification Number	Expiration Date			
exas		IELAP	AP T104704400-23-26 06-30-24				
The following analytes	are included in this report, b	out the laboratory is not certif	ied by the governing authority. This list ma	ay include analytes for w			
the agency does not of							
the agency does not of Analysis Method	fer certification. Prep Method	Matrix	Analyte				
0,		Matrix Solid	Analyte Total TPH				

Eurofins Midland

**Released to Imaging: 11/6/2023 11:57:53 AM** 

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### **Method Summary**

### Client: Carmona Resources Project/Site: Tonto 15 State #1

Job ID: 880-31275-1 SDG: Lea County, New Mexico

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
Protocol Refe	rences;		
	'Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third E = TestAmerica Laboratories, Standard Operating Procedure	Edition, November 1986 And Its Updates.	
		a	
EET MID	= Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-544	0	

### Protocol References:

### Laboratory References:

### Sample Summary

Client: Carmona Resources Project/Site: Tonto 15 State #1 Job ID: 880-31275-1 SDG: Lea County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-31275-1	S-2 (2')	Solid	07/25/23 00:00	07/26/23 16:45

### Received by OCD: 9/21/2023 6:16:51 AM

M	Comments Email			S-2 (2')	Sample Identification	Total Containers	Sample Custody Seals	Cooler Custody Seals.	Received Intact:	SAMPLE RECEIPT	P0 #	Sampler's Name	Project I ocation	Project Name		Phone	City, State ZIP	Address	Company Name	Project Manager	
Reli	Email results to Mike Carmona mcarmona@carmonaresources com, Conner Moehring cmoehring@carmonaresources com, Clint Merritt MerrittC@carmonaresources com			2)	tification		s Yes No	. Yes No		<b>PT</b> Temp Blank			1 ea Co		Tont		Midland, TX 79701	310 W Wall St Ste 500	Carmona Resources	Clinton Merritt	
	armona m			7 25 23	Date		MA	Ô		3lank		CCM	inty New M	2000	Tonto 15 State #1			500	xes		
Relinguished by (Signature)	carmona@car				Time	Corrected Temperature	Temperature Reading	Correction Factor	Thermometer ID	Yes ho		CARCO			Ξ						
	monaresource			×	Soil	erature	ading			Wet Ice				Turn	1	Email					
	s com, Cor				Water G		3.5	55	27.T	Kee No	8	o uay		Turn Around		msanjan@marathonoil.com	City State ZIP	Address.	Company Name	Bill to (if different)	Management of the second s
	nner Moek			G 1	Grab/ # of Comp Cont		u	Pa	1	eter	 s		Code	Pre		marathono	P		Ime	ent)	
Date/Time	ring cm			×	* *	1	BI	TEX 8	3021	в			•			Il com	Houst	990 To	Marath	Melod	i
ime	behring(			×	ТР	H 801		GR			+ MF	RO)		-			Houston TX 77024	own and C	Marathon Oil Corporation	Melodie Sanjari	
	)) Joarmor																024	990 Town and Country Blvd	rporation		
	aresourc	880-31275	,											AN				đ			
	Jes com,	1275 Cha												ALYSIS							
Réceived by	Clint Me	Chain of Custody		 	****									ANALYSIS REQUEST			Rep	Sta	Pro		
	erritt Mer	tody									-,					Deliverables EDD	Reporting Level II Level III	State of Project.	gram <sup>.</sup> US		
(Signature)	nttC@ca												_				el II 🗌 Le	ect.	T/PST	5	
	rmonare	╶┿╸╵ ┥╴┨╶┨														AD				fork Ord	
	sources		and the second s			NaOH	Zn Ac	Na-S-	N OSHEN	H_DO_ HE		Cool Cool	None NO	-		ADaPT	ST/UST		Program UST/PST PRP rownfields	Work Order Comments	Pa
	com				Sample (	I+Ascorbic	Zn Acetate+NaOH Zn	Na-S-O NaSO				Cool	NO	<sup>o</sup> reserva		Other <sup>.</sup>	RRP		RRC	ients	Page 1
Date/Time					Sample Comments	NaOH+Ascorbic Acid SAPC	OH Zn	~ (	n		HNO3. HN	MeOH Me	DI Water H <sub>2</sub> O	Preservative Codes					Diperfund		of
ñ					ts	PC				Na .		Me	у́г Н₂О	es			<		3		<b>→</b>

Work Order No:

275

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5

13

5

14

Job Number: 880-31275-1

List Source: Eurofins Midland

SDG Number: Lea County, New Mexico

### Login Sample Receipt Checklist

Client: Carmona Resources

Login Number: 31275 List Number: 1 Creator: Rodriguez, Leticia

<6mm (1/4").

Question Answer Comment The cooler's custody seal, if present, is intact. N/A N/A Sample custody seals, if present, are intact. The cooler or samples do not appear to have been compromised or True tampered with. Samples were received on ice. True True Cooler Temperature is acceptable. 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 True HTs) 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 True MS/MSDs

N/A

Eurofins Midland Released to Imaging: 11/6/2023 11:57:53 AM

Containers requiring zero headspace have no headspace or bubble is



**Environment Testing** 

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# ANALYTICAL REPORT

# PREPARED FOR

Attn: Clint Merritt Carmona Resources 310 W Wall St Ste 500 Midland, Texas 79701 Generated 8/7/2023 12:35:20 PM

# JOB DESCRIPTION

Tonto 15 State #1 SDG NUMBER Lea County, New Mexico

## **JOB NUMBER**

880-31276-1

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

AMER

Generated 8/7/2023 12:35:20 PM

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

Eurofins Midland is a laboratory within Eurofins Environment Testing South Central, LLC, a company within Eurofins Environment Testing Group of Companies

Laboratory Job ID: 880-31276-1 SDG: Lea County, New Mexico

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### Client: Carmona Resources Project/Site: Tonto 15 State #1

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Job ID: 880-31276-1
SDG: Lea County, New Mexico

Qualifiers		_ 3
GC VOA		
Qualifier	Qualifier Description	4
S1-	Surrogate recovery exceeds control limits, low biased.	
U	Indicates the analyte was analyzed for but not detected.	5
GC Semi VOA Qualifier	Qualifier Description	6
*_	LCS and/or LCSD is outside acceptance limits, low 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.	- 0
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis	0
%R	Percent Recovery	3
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)	13
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)	

Toxicity Equivalent Quotient (Dioxin)

Too Numerous To Count

TEQ TNTC

Job ID: 880-31276-1 SDG: Lea County, New Mexico

### Job ID: 880-31276-1

### Laboratory: Eurofins Midland

### Narrative

Job Narrative 880-31276-1

### Receipt

The sample was received on 7/26/2023 4:45 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.5°C

### **Receipt Exceptions**

The following sample was received and analyzed from an unpreserved bulk soil jar: S-2 (3') (880-31276-1).

### GC VOA

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-59172 recovered above the upper control limit for Benzene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 880-59172/20).

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-59110 and analytical batch 880-59172 was outside the upper control limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: S-2 (3') (880-31276-1) and (880-31278-A-1-A). 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: The laboratory control sample (LCS) associated with preparation batch 880-59369 and analytical batch 880-59409 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.

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Job ID: 880-31276-1 SDG: Lea County, New Mexico

### Lab Sample ID: 880-31276-1

Matrix: Solid

5

### Client: Carmona Resources Project/Site: Tonto 15 State #1 Client Sample ID: S-2 (3')

Date Collected: 07/25/23 00:00 Date Received: 07/26/23 16:45

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		08/01/23 09:01	08/04/23 06:09	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/01/23 09:01	08/04/23 06:09	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/01/23 09:01	08/04/23 06:09	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/01/23 09:01	08/04/23 06:09	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/01/23 09:01	08/04/23 06:09	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/01/23 09:01	08/04/23 06:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130				08/01/23 09:01	08/04/23 06:09	1
1,4-Difluorobenzene (Surr)	58	S1-	70 - 130				08/01/23 09:01	08/04/23 06:09	1
Analyte Total BTEX	Result <0.00402	U	RL		Unit mg/Kg	<u>D</u>	Prepared	Analyzed 08/04/23 10:48	1
	<0.00402	-	0.00402	MDL	mg/Kg		Prepared		1 Dil Fac
Total BTEX Method: SW846 8015 NM - Diese	<0.00402	ics (DRO) ( Qualifier	0.00402		mg/Kg		<u>.</u>	08/04/23 10:48	
Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Dies	<0.00402 el Range Organ Result <50.0 sel Range Orga	ics (DRO) ( Qualifier U nics (DRO)	GC) RL 50.0 (GC)	MDL	mg/Kg Unit mg/Kg	D	Prepared	08/04/23 10:48 Analyzed 08/07/23 10:15	Dil Fac
Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte	<0.00402 el Range Organ Result <50.0 sel Range Orga Result	ics (DRO) ( Qualifier U nics (DRO) Qualifier	0.00402 GC) RL 50.0 (GC) RL		mg/Kg Unit mg/Kg		Prepared	08/04/23 10:48 Analyzed 08/07/23 10:15 Analyzed	Dil Fac
Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics	<0.00402 el Range Organ Result <50.0 sel Range Orga	ics (DRO) ( Qualifier U nics (DRO) Qualifier	GC) RL 50.0 (GC)	MDL	mg/Kg Unit mg/Kg	D	Prepared	08/04/23 10:48 Analyzed 08/07/23 10:15	Dil Fac
Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	<0.00402 el Range Organ Result <50.0 sel Range Orga Result	ics (DRO) ( Qualifier U nics (DRO) Qualifier U *-	0.00402 GC) RL 50.0 (GC) RL	MDL	mg/Kg Unit mg/Kg Unit	D	Prepared	08/04/23 10:48 Analyzed 08/07/23 10:15 Analyzed	Dil Fac 1 Dil Fac
Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<pre>&lt;0.00402 el Range Organ     Result     </pre> <pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>	ics (DRO) ( Qualifier U nics (DRO) Qualifier U *-	0.00402 GC) RL 50.0 (GC) RL 50.0	MDL	mg/Kg Unit mg/Kg Unit mg/Kg	D	Prepared Prepared 08/04/23 17:30	O8/04/23         10:48           Analyzed         08/07/23         10:15           Analyzed         08/06/23         14:34	Dil Fac 1 Dil Fac
Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<0.00402 el Range Organ Result <50.0 sel Range Orga Result <50.0 <50.0	ics (DRO) ( Qualifier U nics (DRO) Qualifier U *-	0.00402 GC) RL 50.0 (GC) RL 50.0 50.0	MDL	mg/Kg Unit mg/Kg Unit mg/Kg mg/Kg	D	Prepared Prepared 08/04/23 17:30 08/04/23 17:30	O8/04/23         10:48           Analyzed         08/07/23         10:15           Analyzed         08/06/23         14:34           08/06/23         14:34         14:34	Dil Fac
Total BTEX Method: SW846 8015 NM - Diese Analyte	<0.00402 el Range Organ Result <50.0 sel Range Orga Result <50.0 <50.0 <50.0	ics (DRO) ( Qualifier U nics (DRO) Qualifier U*- U	0.00402 GC) RL 50.0 (GC) RL 50.0 50.0 50.0	MDL	mg/Kg Unit mg/Kg Unit mg/Kg mg/Kg	D	Prepared Prepared 08/04/23 17:30 08/04/23 17:30 08/04/23 17:30	08/04/23 10:48 Analyzed 08/07/23 10:15 Analyzed 08/06/23 14:34 08/06/23 14:34	Dil Fac

Eurofins Midland

Client: Carmona Resources Project/Site: Tonto 15 State #1

Job ID: 880-31276-1 SDG: Lea County, New Mexico

Prep Type: Total/NA

### Method: 8021B - Volatile Organic Compounds (GC) Matrix: Solid

				Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)		
880-31276-1	S-2 (3')	87	58 S1-		1
880-31278-A-1-B MS	Matrix Spike	121	124		
880-31278-A-1-C MSD	Matrix Spike Duplicate	119	91		
LCS 880-58969/1-A	Lab Control Sample	115	111		
LCSD 880-58969/2-A	Lab Control Sample Dup	114	109		
MB 880-58969/5-A	Method Blank	73	79		
MB 880-59110/5-A	Method Blank	68 S1-	100		
Surrogate Legend					

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

### Matrix: Solid

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
o Sample ID	Client Sample ID	(70-130)	(70-130)	
31276-1	S-2 (3')	93	92	
664-A-2-F MS	Matrix Spike	123	104	
664-A-2-G MSD	Matrix Spike Duplicate	128	112	
-59369/2-A	Lab Control Sample	93	94	
30-59369/3-A	Lab Control Sample Dup	85	82	
880-59369/1-A	Method Blank	88	94	

### Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Prep Type: Total/NA

### **QC Sample Results**

Client: Carmona Resources Project/Site: Tonto 15 State #1

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

Lab Sample ID: MB 880-58969/5-A	
Matrix: Calid	

Matrix: Solid Analysis Batch: 59172

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	< 0.00200	U	0.00200		mg/Kg		08/01/23 09:01	08/03/23 22:38	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/01/23 09:01	08/03/23 22:38	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/01/23 09:01	08/03/23 22:38	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/01/23 09:01	08/03/23 22:38	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/01/23 09:01	08/03/23 22:38	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/01/23 09:01	08/03/23 22:38	1
	MB	МВ							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	73		70 - 130				08/01/23 09:01	08/03/23 22:38	1
1,4-Difluorobenzene (Surr)	79		70 - 130				08/01/23 09:01	08/03/23 22:38	1

### Lab Sample ID: LCS 880-58969/1-A Matrix: Solid

### Analysis Batch: 59172

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09442		mg/Kg		94	70 - 130	
Toluene	0.100	0.08693		mg/Kg		87	70 - 130	
Ethylbenzene	0.100	0.1010		mg/Kg		101	70 - 130	
m-Xylene & p-Xylene	0.200	0.2099		mg/Kg		105	70 - 130	
o-Xylene	0.100	0.1041		mg/Kg		104	70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	115		70 - 130
1,4-Difluorobenzene (Surr)	111		70 - 130

### Lab Sample ID: LCSD 880-58969/2-A

### Matrix: Solid

Analysis Batch: 59172							Prep	Batch:	58969
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.08592		mg/Kg		86	70 - 130	9	35
Toluene	0.100	0.08219		mg/Kg		82	70 - 130	6	35
Ethylbenzene	0.100	0.08963		mg/Kg		90	70 - 130	12	35
m-Xylene & p-Xylene	0.200	0.1870		mg/Kg		94	70 - 130	12	35
o-Xylene	0.100	0.09268		mg/Kg		93	70 - 130	12	35

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

### Lab Sample ID: 880-31278-A-1-B MS

### Matrix: Solid Analysis Retaby 50172

Analysis Batch: 59172									Pre	Batch: 58969
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00202	U	0.0994	0.1002		mg/Kg		101	70 - 130	
Toluene	<0.00202	U	0.0994	0.09371		mg/Kg		94	70 - 130	

**Eurofins Midland** 

Prep Type: Total/NA

**Client Sample ID: Matrix Spike** 

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

SDG: Lea County, New Mexico

Job ID: 880-31276-1

Client: Carmona Resources

Project/Site: Tonto 15 State #1

Job ID: 880-31276-1 SDG: Lea County, New Mexico

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

Lab Sample ID: 880-31278-A	4-1-D IVIS										Client	Sample ID:		
Matrix: Solid												Prep T		
Analysis Batch: 59172	Comula	C	I.a	Calles	МС	ме							Batch:	58965
Analyta	Sample Result			Spike Added			ifier	Unit		D	% Bee	%Rec Limits		
Analyte	<0.00202			0.0994	0.1030	Quai	mer			<u> </u>	%Rec	70 - 130		
Ethylbenzene								mg/Kg						
m-Xylene & p-Xylene	< 0.00403			0.199	0.2125			mg/Kg			107	70 - 130		
o-Xylene	<0.00202			0.0994	0.1040			mg/Kg			105	70 - 130		
Surrogate	MS %Recovery	MS Quali	ifior	Limits										
4-Bromofluorobenzene (Surr)		Quan		70 - 130										
1,4-Difluorobenzene (Surr)	124			70 - 130										
	121			101100										
Lab Sample ID: 880-31278-4	A-1-C MSD							•	Clie	nt Sa	mple ID	: Matrix Sp		-
Matrix: Solid												Prep T		
Analysis Batch: 59172		_		•									Batch:	
	Sample			Spike	MSD					_		%Rec		RPD
Analyte	Result		fier	Added	Result	Qual	ifier	Unit		<u>D</u>	%Rec	Limits	RPD	Limi
Benzene	< 0.00202			0.0998	0.09502			mg/Kg			95	70 - 130	5	3
Toluene	< 0.00202			0.0998	0.09100			mg/Kg			91	70 - 130	3	3
Ethylbenzene	<0.00202			0.0998	0.1021			mg/Kg			102	70 - 130	1	3
m-Xylene & p-Xylene	<0.00403			0.200	0.2097			mg/Kg			105	70 - 130	1	35
o-Xylene	<0.00202	U		0.0998	0.1024			mg/Kg			103	70 - 130	2	3
	MSD													
Surrogate	%Recovery	Quali	fier	Limits										
4-Bromofluorobenzene (Surr)	119			70 - 130										
1,4-Difluorobenzene (Surr)	91			70 - 130										
Lab Sample ID: MB 880-591	10/5-A										Client Sa	ample ID: M	<b>/lethod</b>	Blan
Matrix: Solid												Prep T	ype: To	otal/N/
Analysis Batch: 59172												Prep	Batch:	<b>5911</b>
		МΒ	МВ											
Analyte	Re	sult	Qualifier	RL		MDL	Unit		D	P	repared	Analyz	ed	Dil Fa
Benzene	<0.00	200	U	0.00200			mg/Ko	g		08/0	2/23 11:14	08/03/23 1	1:30	
Toluene	<0.00	200	U	0.00200			mg/Ko	g		08/0	2/23 11:14	08/03/23 1	1:30	
Ethylbenzene	<0.00	200	U	0.00200			mg/Kg	9		08/0	2/23 11:14	08/03/23 1	1:30	
m-Xylene & p-Xylene	<0.00	400	U	0.00400			mg/Kg	g		08/0	2/23 11:14	08/03/23 1	1:30	
o-Xylene	<0.00	200	U	0.00200			mg/Kg	g		08/0	2/23 11:14	08/03/23 1	1:30	
Xylenes, Total	<0.00	400	U	0.00400			mg/Kg	g		08/0	2/23 11:14	08/03/23 1	1:30	
			МВ											
Surrogate	%Reco		Qualifier	Limits							repared	Analyz		Dil Fa
4-Bromofluorobenzene (Surr)		68	S1-	70 - 130						08/0	2/23 11:14	08/03/23	11:30	
1,4-Difluorobenzene (Surr)		100		70 - 130						08/0	2/23 11:14	08/03/23	11:30	

Lab Sample ID: MB 880-59369/1-A Matrix: Solid Analysis Batch: 59409							Client Sa	mple ID: Metho Prep Type: <sup>-</sup> Prep Batcl	Total/NA
	МВ	МВ							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		08/04/23 17:29	08/06/23 08:16	1
(GRO)-C6-C10									

Job ID: 880-31276-1 SDG: Lea County, New Mexico

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

Lab Sample ID: MB 880-59369/										Cheffit 3	ample ID:		
Matrix: Solid												Type: To	
Analysis Batch: 59409		ИВ МВ									Pre	o Batch:	59369
Analyte		ив мв ult Qualifie	r RL		мпі	Unit		D	Pr	repared	Analy	70d	Dil Fac
Diesel Range Organics (Over	<		50.0		MDL	mg/Kg				4/23 17:29			1
C10-C28)													
Oll Range Organics (Over C28-C36)	<50	).0 U	50.0			mg/Kg	I		08/04	4/23 17:29	08/06/23	08:16	1
	л	NB MB											
Surrogate	%Recove		r Limits						Pi	repared	Analy	zed	Dil Fac
1-Chlorooctane		88	70 - 130					-		4/23 17:29			1
o-Terphenyl		94	70 - 130						08/04	4/23 17:29	08/06/23	8 08:16	1
<u>.</u>													
Lab Sample ID: LCS 880-59369	9/2-A							CI	ient	Sample	ID: Lab C		
Matrix: Solid												Type: To	
Analysis Batch: 59409			Spike	201	LCS						Pre %Rec	o Batch:	09369
Analyte			Added	Result			Unit		D	%Rec	Limits		
Gasoline Range Organics			1000	661.8			mg/Kg		_	66	70 - 130		
(GRO)-C6-C10							5 5						
Diesel Range Organics (Over			1000	873.3			mg/Kg			87	70 - 130		
C10-C28)													
	LCS L	cs											
-	%Recovery G	Qualifier	Limits										
Surrogate													
Surrogate 1-Chlorooctane	93		70 - 130										
			70 - 130 70 - 130										
1-Chlorooctane o-Terphenyl	93 94						Cli	ent s	Sam	nle ID: I	ab Contro	ol Samn	le Dun
1-Chlorooctane	93 94						Cli	ent	Sam	ple ID: L	_ab Contro Prep		
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-5930	93 94						Cli	ent	Sam	ple ID: L	Prep	ol Samp Type: To o Batch:	otal/NA
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-5930 Matrix: Solid	93 94			LCSD	LCS	D	Cli	ent	Sam	ple ID: L	Prep	Type: To	otal/NA 59369
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-5930 Matrix: Solid	93 94		70 - 130	LCSD Result			Cli	ent	Sam	ple ID: L	Prep Prej	Type: To	59369 RPD
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-5930 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics	93 94		70 <sub>-</sub> 130 Spike		Qua			ent s		-	Prep Prej %Rec	Type: To b Batch:	59369 RPD Limit
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-5930 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10	93 94		70 - 130 Spike Added 1000	Result 660.9	Qua		Unit mg/Kg	ent :		%Rec 66	Prep Prep %Rec Limits 70 - 130	Type: To b Batch: RPD 0	tal/NA 59369 RPD Limit
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-5930 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	93 94		70 - 130 Spike Added	Result	Qua		Unit	ent :		%Rec	Prep Prep %Rec Limits	Type: To b Batch: 	tal/NA 59369 RPD Limit
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-5930 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10	93 94 69/3-A		70 - 130 Spike Added 1000	Result 660.9	Qua		Unit mg/Kg	ent s		%Rec 66	Prep Prep %Rec Limits 70 - 130	Type: To b Batch: RPD 0	stal/NA 59369 RPD Limit
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-5930 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	93 94 69/3-A 		70 - 130 Spike Added 1000	Result 660.9	Qua		Unit mg/Kg	ent :		%Rec 66	Prep Prep %Rec Limits 70 - 130	Type: To b Batch: RPD 0	stal/NA 59369 RPD Limit
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-5930 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate	93 94 69/3-A 		70 - 130 Spike Added 1000 1000 Limits	Result 660.9	Qua		Unit mg/Kg	ent :		%Rec 66	Prep Prep %Rec Limits 70 - 130	Type: To b Batch: RPD 0	tal/NA 59369 RPD Limit
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-5930 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	93 94 69/3-A 		70 - 130 Spike Added 1000 1000 Limits 70 - 130	Result 660.9	Qua		Unit mg/Kg	ent :		%Rec 66	Prep Prep %Rec Limits 70 - 130	Type: To b Batch: RPD 0	tal/NA 59369 RPD Limit
1-Chlorooctane         o-Terphenyl         Lab Sample ID: LCSD 880-5930         Matrix: Solid         Analysis Batch: 59409         Analyte         Gasoline Range Organics         (GRO)-C6-C10         Diesel Range Organics (Over C10-C28)         Surrogate         1-Chlorooctane	93 94 69/3-A 		70 - 130 Spike Added 1000 1000 Limits	Result 660.9	Qua		Unit mg/Kg	ent :		%Rec 66	Prep Prep %Rec Limits 70 - 130	Type: To b Batch: RPD 0	tal/NA 59369 RPD Limit
1-Chlorooctane         o-Terphenyl         Lab Sample ID: LCSD 880-5930         Matrix: Solid         Analysis Batch: 59409         Analyte         Gasoline Range Organics         (GRO)-C6-C10         Diesel Range Organics (Over C10-C28)         Surrogate         1-Chlorooctane	93 94 69/3-A 		70 - 130 Spike Added 1000 1000 Limits 70 - 130	Result 660.9	Qua		Unit mg/Kg	ent :		%Rec 66 85	Prep 976 %Rec Limits 70 - 130 70 - 130 70 - 130	Type: To b Batch:	stal/NA 59369 RPD Limit 20 20
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-5930 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 880-31664-A-24 Matrix: Solid	93 94 69/3-A 		70 - 130 Spike Added 1000 1000 Limits 70 - 130	Result 660.9	Qua		Unit mg/Kg	ent :		%Rec 66 85	Prep Prey %Rec Limits 70 - 130 70 - 130 70 - 130	Type: To batch:	stal/NA 59369 RPD Limit 20 20 20
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-5930 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 880-31664-A-2	93 94 69/3-A <i>LCSD L</i> %Recovery <u>6</u> 85 82 -F MS	Qualifier	70 - 130 Spike Added 1000 1000 Limits 70 - 130 70 - 130	Result 660.9 845.2	Qual		Unit mg/Kg	ent :		%Rec 66 85	Prep %Rec Limits 70 - 130 70 - 130 70 - 130 Sample IC Prep Prep	Type: To b Batch:	stal/NA 59369 RPD Limit 20 20 20
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-5930 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 880-31664-A-2: Matrix: Solid Analysis Batch: 59409	93 94 69/3-A <i>LCSD L</i> %Recovery <u>G</u> 85 82 -F MS Sample S	Qualifier	70 - 130 Spike Added 1000 1000 Limits 70 - 130 70 - 130 70 - 130	Result 660.9 845.2 MS	Qual ∗-	lifier	Unit mg/Kg mg/Kg	ent	<u>D</u> .	%Rec 66 85 Client	Prep Prey %Rec Limits 70 - 130 70 - 130 70 - 130 Sample IE Prep Prey %Rec	Type: To batch:	stal/NA 59369 RPD Limit 20 20 20
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-5930 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 880-31664-A-2- Matrix: Solid Analysis Batch: 59409 Analyte	93 94 69/3-A <i>LCSD L</i> %Recovery G 85 82 -F MS Sample S Result G	Qualifier	70 - 130         Spike         Added         1000         1000         1000         1000         50 - 130         70 - 130         70 - 130         70 - 130         70 - 130         Added	Result           660.9           845.2           MS           Result	Qual ∗-	lifier	Unit mg/Kg mg/Kg	ent :		%Rec 66 85 Client	Prep Prey %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130 8 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	Type: To batch:	stal/NA 59369 RPD Limit 20 20 20
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-5930 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 880-31664-A-2: Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics	93 94 69/3-A <i>LCSD L</i> %Recovery <u>G</u> 85 82 -F MS Sample S	Qualifier	70 - 130 Spike Added 1000 1000 Limits 70 - 130 70 - 130 70 - 130	Result 660.9 845.2 MS	Qual ∗-	lifier	Unit mg/Kg mg/Kg	ent :	<u>D</u> .	%Rec 66 85 Client	Prep Prey %Rec Limits 70 - 130 70 - 130 70 - 130 Sample IE Prep Prey %Rec	Type: To batch:	stal/NA 59369 RPD Limit 20 20 20
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-5930 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 880-31664-A-2- Matrix: Solid Analysis Batch: 59409 Analyte	93 94 69/3-A <i>LCSD L</i> %Recovery G 85 82 -F MS Sample S Result G	Qualifier	70 - 130         Spike         Added         1000         1000         1000         1000         50 - 130         70 - 130         70 - 130         70 - 130         70 - 130         Added	Result           660.9           845.2           MS           Result	Qual ∗-	lifier	Unit mg/Kg mg/Kg	ent :	<u>D</u> .	%Rec 66 85 Client	Prep Prey %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130 8 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	Type: To batch:	stal/NA 59369 RPC Limin 20 20 20 Spike
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-5930 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 880-31664-A-2: Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10	93 94 69/3-A <i>LCSD L</i> % <i>Recovery G</i> 85 82 -F MS Sample S <u>Result G</u> <50.3 U	Qualifier	70 - 130         Spike         Added         1000         1000         1000         1000         1000         1000         5pike         Added         993	Result           660.9           845.2           MS           Result           876.9	Qual ∗-	lifier	Unit mg/Kg mg/Kg <u>Unit</u> mg/Kg	ent :	<u>D</u> .	%Rec 66 85 Client %Rec 86	Prep           %Rec           Limits           70 - 130           70 - 130           Sample IC           Prep           %Rec           Limits           70 - 130	Type: To batch:	stal/NA 59369 RPC Limin 20 20 20 Spike
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-5930 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 880-31664-A-2: Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	93 94 69/3-A 69/3-A <i>LCSD L</i> %Recovery 6 85 82 -F MS Sample S Result 6 <50.3 0 61.5	ample Qualifier Xalifier	70 - 130         Spike         Added         1000         1000         1000         1000         1000         1000         5pike         Added         993	Result           660.9           845.2           MS           Result           876.9	Qual ∗-	lifier	Unit mg/Kg mg/Kg <u>Unit</u> mg/Kg	ent :	<u>D</u> .	%Rec 66 85 Client %Rec 86	Prep           %Rec           Limits           70 - 130           70 - 130           Sample IC           Prep           %Rec           Limits           70 - 130	Type: To batch:	stal/NA 59369 RPD Limit 20 20 20
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-5930 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 880-31664-A-2- Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	93 94 69/3-A 69/3-A <i>LCSD L</i> %Recovery G 85 82 -F MS Sample S Result G <50.3 U 61.5 <i>MS M</i>	ample Qualifier Xalifier	70 - 130         Spike         Added         1000         1000         1000         1000         1000         1000         5pike         Added         993	Result           660.9           845.2           MS           Result           876.9	Qual ∗-	lifier	Unit mg/Kg mg/Kg <u>Unit</u> mg/Kg	ent :	<u>D</u> .	%Rec 66 85 Client %Rec 86	Prep           %Rec           Limits           70 - 130           70 - 130           Sample IC           Prep           %Rec           Limits           70 - 130	Type: To batch:	tal/NA 59369 RPD Limit 20 20 20
1-Chlorooctane         o-Terphenyl         Lab Sample ID: LCSD 880-5930         Matrix: Solid         Analysis Batch: 59409         Analysis Batch: 59409         Analyte         Gasoline Range Organics (GRO)-C6-C10         Diesel Range Organics (Over C10-C28)         Surrogate         1-Chlorooctane         o-Terphenyl         Lab Sample ID: 880-31664-A-2:         Matrix: Solid         Analysis Batch: 59409         Analyte         Gasoline Range Organics (GRO)-C6-C10         Diesel Range Organics (Over	93 94 69/3-A 69/3-A <i>LCSD L</i> %Recovery G 85 82 -F MS Sample S Result G <50.3 U 61.5 <i>MS M</i>	ample audifier Qualifier	70 - 130         Spike         Added         1000         1000         1000         1000         1000         1000         50 - 130         70 - 130         70 - 130         70 - 130         993         993         993	Result           660.9           845.2           MS           Result           876.9	Qual ∗-	lifier	Unit mg/Kg mg/Kg <u>Unit</u> mg/Kg	ent :	<u>D</u> .	%Rec 66 85 Client %Rec 86	Prep           %Rec           Limits           70 - 130           70 - 130           Sample IC           Prep           %Rec           Limits           70 - 130	Type: To batch:	tal/NA 59369 RPD Limit 20 20 20

### **QC Sample Results**

Client: Carmona Resources Project/Site: Tonto 15 State #1 Job ID: 880-31276-1 SDG: Lea County, New Mexico

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

SampleSampleSampleSpikeMSDMSD%RecAnalyteResultQualifierAddedResultQualifierUnitD%RecLimitsRPDGasoline Range Organics<50.3U *-992918.4mg/Kg9170 - 1305(GRO)-C6-C10Diesel Range Organics (Over61.59921254mg/Kg12070 - 1306Diesel Range Organics (Over61.59921254mg/Kg12070 - 1306C10-C28)MSDMSDSurrogate%RecoveryQualifierLimits 70 - 1301-Chlorooctane12870 - 130o-Terphenyl11270 - 130	RalyteResultQualifierAddedResultQualifierUnitD%RecLimitsRPDLimitsoline Range Organics<50.3U *-992918.4mg/Kg9170 - 130520RO)-C6-C10esel Range Organics (Over61.59921254mg/Kg12070 - 1306200-C28)MSDMSDCualifierLimitsCualifier	Analysis Batch: 59409	0	0	0	MOD						Batch:		
Gasoline Range Organics       <50.3       U*-       992       918.4       mg/Kg       91       70 - 130       5         (GR0)-C6-C10       Diesel Range Organics (Over       61.5       992       1254       mg/Kg       120       70 - 130       6         C10-C28)       MSD       MSD       MSD       120       70 - 130       6         Surrogate       %Recovery       Qualifier       Limits       70 - 130       128	Isoline Range Organics       <50.3       U*-       992       918.4       mg/Kg       91       70 - 130       5       20         RO)-C6-C10       esel Range Organics (Over       61.5       992       1254       mg/Kg       120       70 - 130       6       20         0-C28)       MSD       MSD       MSD         rrogate       %Recovery       Qualifier       Limits       70 - 130       6       20         Chlorooctane       128       70 - 130       70 - 130       6       20	Analyte	-	-	Spike Added			Unit	п	%Rec	%Rec Limits	RPD	RPD Limit	
(GRO)-C6-C10 Diesel Range Organics (Over 61.5 992 1254 mg/Kg 120 70 - 130 6 C10-C28) MSD MSD Surrogate <u>%Recovery</u> Qualifier Limits 1-Chlorooctane 128 70 - 130	RO)-C6-C10 esel Range Organics (Over 61.5 992 1254 mg/Kg 120 70 - 130 6 20 0-C28) MSD MSD rrogate <u>%Recovery</u> Qualifier Limits Chlorooctane 128 70 - 130	-					Quaimer							
Diesel Range Organics (Over         61.5         992         1254         mg/Kg         120         70 - 130         6           C10-C28)         MSD         MSD         MSD         5         992         1254         mg/Kg         120         70 - 130         6           Surrogate         %Recovery         Qualifier         Limits         70 - 130         70 - 130         70 - 130	MSD         MSD         MSD         Limits         70 - 130         6         20           Chlorooctane         128         0.0000         0			0	002	010.1		mg/rtg		01	10-100	0	20	
MSD MSD Surrogate <u>%Recovery</u> Qualifier Limits 1-Chlorooctane 128 70 - 130	MSDMSDrrogate%RecoveryQualifierLimitsChlorooctane12870 - 130	· · · · ·	61.5		992	1254		mg/Kg		120	70 - 130	6	20	
Surrogate%RecoveryQualifierLimits1-Chlorooctane12870 - 130	rrogate     %Recovery     Qualifier     Limits       Chlorooctane     128     70 - 130	C10-C28)												
1-Chlorooctane 128 70 - 130	Chlorooctane 128 70 - 130		MSD	MSD										
		Surrogate	%Recovery	Qualifier	Limits									
o-Terphenyl 112 70 - 130	Terphenyl 112 70 - 130	1-Chlorooctane	128		70 - 130									
		o-Terphenyl	112		70 - 130									

**Client Sample ID** 

Lab Control Sample

Lab Control Sample Dup

Matrix Spike Duplicate

**Client Sample ID** 

**Client Sample ID** 

Method Blank

Method Blank

Matrix Spike

Lab Control Sample

Lab Control Sample Dup

Matrix Spike Duplicate

S-2 (3')

Method Blank

Method Blank

Matrix Spike

S-2 (3')

### **QC** Association Summary

Prep Type

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Prep Type

Prep Type

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Matrix

Solid

Solid

Solid

Solid

Solid

Solid

Matrix

Solid

Matrix

Solid

Solid

Solid

Solid

Solid

Solid

Solid

Client: Carmona Resources Project/Site: Tonto 15 State #1

**GC VOA** 

Prep Batch: 58969

MB 880-58969/5-A

LCS 880-58969/1-A

LCSD 880-58969/2-A

880-31278-A-1-B MS

880-31278-A-1-C MSD

Prep Batch: 59110

MB 880-59110/5-A

Analysis Batch: 59172

Lab Sample ID

Lab Sample ID

MB 880-58969/5-A

MB 880-59110/5-A

LCS 880-58969/1-A

LCSD 880-58969/2-A

880-31276-1

Lab Sample ID

880-31276-1

Job ID: 880-31276-1 SDG: Lea County, New Mexico

Method

5035

5035

5035

5035

5035

5035

Method

Method

8021B

8021B

8021B

8021B

8021B

8021B

8021B

5035

Prep Batch

Prep Batch

Prep Batch

58969

58969

59110

58969

58969

58969

58969

# 8

### 880-31278-A-1-B MS 880-31278-A-1-C MSD

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-31276-1	S-2 (3')	Total/NA	Solid	Total BTEX	

### GC Semi VOA

### Prep Batch: 59369

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31276-1	S-2 (3')	Total/NA	Solid	8015NM Prep	
MB 880-59369/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-59369/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-59369/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-31664-A-2-F MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-31664-A-2-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

### Analysis Batch: 59409

880-31276-1

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31276-1	S-2 (3')	Total/NA	Solid	8015B NM	59369
MB 880-59369/1-A	Method Blank	Total/NA	Solid	8015B NM	59369
LCS 880-59369/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	59369
LCSD 880-59369/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	59369
880-31664-A-2-F MS	Matrix Spike	Total/NA	Solid	8015B NM	59369
880-31664-A-2-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	59369
Analysis Batch: 59478					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch

Total/NA

8015 NM

Solid

S-2 (3')
#### Client Sample ID: S-2 (3') Date Collected: 07/25/23 00:00 Date Received: 07/26/23 16:45

-	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	58969	08/01/23 09:01	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	59172	08/04/23 06:09	SM	EET MID
Total/NA	Analysis	Total BTEX		1			59324	08/04/23 10:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			59478	08/07/23 10:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	59369	08/04/23 17:30	ткс	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59409	08/06/23 14:34	SM	EET MID

#### Laboratory References:

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

Job ID: 880-31276-1 SDG: Lea County, New Mexico

# Lab Sample ID: 880-31276-1

Matrix: Solid

5

9

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Accreditation/Certification Summary

Client: Carmona Resources Project/Site: Tonto 15 State #1 Job ID: 880-31276-1 SDG: Lea County, New Mexico

#### Laboratory: Eurofins Midland

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

uthority		Program	Identification Number	Expiration Date
exas		NELAP	T104704400-23-26	06-30-24
The following analytes the agency does not of	er certification.	· •	ied by the governing authority. This list ma	ay include analytes for v
Analysis Mathod	Dron Mothod	Matrix	Apolyto	
Analysis Method 8015 NM	Prep Method	Matrix Solid	Analyte Total TPH	

Eurofins Midland

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# **Method Summary**

#### Client: Carmona Resources Project/Site: Tonto 15 State #1

Job ID: 880-31276-1 SDG: Lea County, New Mexico

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
Protocol Refe	rences:		
	"Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third E = TestAmerica Laboratories, Standard Operating Procedure	Edition, November 1986 And Its Updates.	
TAL SOP	- TestAmenca Laboratories, Standard Operating Procedure		
Laboratory R	eferences:		
Laboratory R		0	
Laboratory R	eferences:	0	
Laboratory R	eferences:	0	
Laboratory R	eferences:	0	
Laboratory R	eferences:	0	
Laboratory R	eferences:	0	
Laboratory R	eferences:	0	

#### Protocol References:

#### Laboratory References:

Eurofins Midland

Released to Imaging: 11/6/2023 11:57:53 AM

# Sample Summary

Client: Carmona Resources Project/Site: Tonto 15 State #1 Job ID: 880-31276-1 SDG: Lea County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-31276-1	S-2 (3')	Solid	07/25/23 00:00	07/26/23 16:45

MM						S-2 (3')	Sample Identification	Total Containers.	Sample Custody Seals	Cooler Custody Seals	Received Intact:	SAMPLE RECEIPT	PO#	Sampler's Name	Project Location	Project Number	Project Name	Phone	City, State ZIP		y Name	Project Manager
A MA	Relinquish	resurts to Mike Carmo				1) 7 25 23	ification Date		s Yes No NA	Yes No MA	(es) No	T Temp Blank		CCM	Lea County, New Mexico	2089	Tonto 15 State #1		Midland, TX 79701	310 W Wall St Ste 500	Carmona Resources	Clinton Merritt
	Relinquished by (Signature)	₁a mcarmona@carn				3	Time	Corrected Temperature	P	Ľ	Thermometer ID	Yes No	5			•	tate #1					
		nonaresourc				×	Soil	rature	ding			Wet Ice			Due Date	<ul><li>Routine</li></ul>	Turn	Email				
		es com, Conr				G	Water Comp	4.8	2	30	THE	Ves No			5 day	🗌 Rush	Turn Around	msanjari@marathonoil.com	City State ZIP-	Address	Company Name	Bill to (if different)
JA A		ier Moehrin			 	 	np Cont			Pa	ran	neter	rs			Pres, Code		arathonoil c			le	æ
1-26-7	Date/Time	ig cmoehrn				× ×	TPI	H 801		GR			+ M	RO)				om	Houston TX 77024	990 Town ar	Marathon O	Melodie Sanjari
13		ng@carmonaresources com, C	880-31276 Chain						Chl	orid	e 30	00					ANALYSIS REQUEST		(77024	990 Town and Country Blvd	Marathon Oil Corporation	yan
	Received by: (Signature)	Email results to Mike Carmona mcarmona@carmonaresources com, Conner Moehring cmoehring@carmonaresources com, Clint Merritt MerrittC@carmonaresources com	Chain of Custody							****							EQUEST	1	Reporting Level II Level III DS	State of Project.	Program UST/PST PRP rownfields	Work Order
	Date/Time	ources com					Sample Comments	NaOH+Ascorbic Acid SAPC	Zn Acetate+NaOH Zn	Na S-O- NaSO	NaHSO NABIS	0	H-SO, H- NaOH Na	н		CI VUL	Preservative Codes	ADaPT  Other			wnfields RC perfund [	Page 1 of 1 Work Order Comments

## Received by OCD: 9/21/2023 6:16:51 AM

## 8/7/2023

Work Order No:

6

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**5** 6 13

### Login Sample Receipt Checklist

Client: Carmona Resources

Login Number: 31276 List Number: 1 Creator: Rodriguez, Leticia

<6mm (1/4").

Question Answer Comment The cooler's custody seal, if present, is intact. N/A N/A Sample custody seals, if present, are intact. The cooler or samples do not appear to have been compromised or True tampered with. Samples were received on ice. True True Cooler Temperature is acceptable. 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 True HTs) 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 True MS/MSDs

N/A

1 Job Number: 880-31276-1 SDG Number: Lea County, New Mexico List Source: Eurofins Midland 5 6 7 8 9 10 11 12

14

Containers requiring zero headspace have no headspace or bubble is



**Environment Testing** 

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# ANALYTICAL REPORT

# PREPARED FOR

Attn: Clint Merritt Carmona Resources 310 W Wall St Ste 500 Midland, Texas 79701 Generated 8/7/2023 12:41:35 PM

# JOB DESCRIPTION

Tonto 15 State #1 SDG NUMBER Lea County, New Mexico

# **JOB NUMBER**

880-31282-1

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

AMER

Generated 8/7/2023 12:41:35 PM

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

Eurofins Midland is a laboratory within Eurofins Environment Testing South Central, LLC, a company within Eurofins Environment Testing Group of Companies

Laboratory Job ID: 880-31282-1 SDG: Lea County, New Mexico

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2

# **Definitions/Glossary**

#### Client: Carmona Resources Project/Site: Tonto 15 State #1

Job ID: 880-31282-1 SDG: Lea County, New Mexico

Qualifiers		3
GC VOA		
Qualifier	Qualifier Description	
U	Indicates the analyte was analyzed for but not detected.	
GC Semi VOA		5
Qualifier	Qualifier Description	
*_	LCS and/or LCSD is outside acceptance limits, low 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.	8
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis	
%R	Percent Recovery	Q
CFL	Contains Free Liquid	3
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)	13
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	

4

5

Job ID: 880-31282-1 SDG: Lea County, New Mexico

#### Job ID: 880-31282-1

Client: Carmona Resources

Project/Site: Tonto 15 State #1

#### Laboratory: Eurofins Midland

#### Narrative

Job Narrative 880-31282-1

#### Receipt

The sample was received on 7/26/2023 4:45 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.5°C

#### **Receipt Exceptions**

The following sample was received and analyzed from an unpreserved bulk soil jar: S-2 (0-1') (880-31282-1).

#### GC VOA

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

#### GC Semi VOA

Method 8015MOD\_NM: The laboratory control sample (LCS) associated with preparation batch 880-59369 and analytical batch 880-59409 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 ID: S-2 (0-1') Date Collected: 07/25/23 00:00

Date Received: 07/26/23 16:45

Client: Carmona Resources

Project/Site: Tonto 15 State #1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		08/01/23 09:18	08/02/23 23:31	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/01/23 09:18	08/02/23 23:31	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/01/23 09:18	08/02/23 23:31	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/01/23 09:18	08/02/23 23:31	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/01/23 09:18	08/02/23 23:31	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/01/23 09:18	08/02/23 23:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130				08/01/23 09:18	08/02/23 23:31	1
1,4-Difluorobenzene (Surr)	106		70 - 130				08/01/23 09:18	08/02/23 23:31	1
Method: TAL SOP Total BTEX - T	otal BTEX Calo	culation							
Analyta	Rosult	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte	Result	<b>Q</b> uu						-	
•	<0.00398	-	0.00398		mg/Kg			08/03/23 09:53	1
Total BTEX	<0.00398	U	0.00398		mg/Kg			08/03/23 09:53	1
Total BTEX Method: SW846 8015 NM - Diese	<pre>&lt;0.00398</pre>	U	0.00398	MDL	mg/Kg Unit	 D	Prepared	08/03/23 09:53	1 Dil Fac
Total BTEX Method: SW846 8015 NM - Diese Analyte	<pre>&lt;0.00398</pre>	U ics (DRO) ( Qualifier	0.00398	MDL		D			
Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH	<0.00398 I Range Organ Result <49.6	U ics (DRO) ( Qualifier U	0.00398 GC) RL 49.6	MDL	Unit	D		Analyzed	
Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Dies	-0.00398 I Range Organ Result	U ics (DRO) ( Qualifier U	0.00398 GC) RL 49.6		Unit	D		Analyzed	
Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	-0.00398 I Range Organ Result	U ics (DRO) ( Qualifier U nnics (DRO) Qualifier	0.00398 GC) <u>RL</u> 49.6 (GC)		Unit mg/Kg		Prepared	Analyzed 08/07/23 10:15	Dil Fac
Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10	<0.00398 I Range Organ Result <p>49.6 sel Range Orga Result</p>	U ics (DRO) (n Qualifier U mics (DRO) Qualifier U *-	0.00398 GC) RL 49.6 (GC) RL		Unit mg/Kg Unit		Prepared	Analyzed 08/07/23 10:15 Analyzed	Dil Fac
Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	<0.00398 I Range Organ Result <p>49.6 cel Range Orga Result 49.6</p>	U ics (DRO) (n Qualifier U mics (DRO) Qualifier U *-	0.00398 GC) <u>RL</u> 49.6 (GC) <u>RL</u> 49.6		Unit mg/Kg Unit mg/Kg		Prepared Prepared 08/04/23 17:30	Analyzed 08/07/23 10:15 Analyzed 08/06/23 17:34	Dil Fac
Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<0.00398 I Range Organ Result <p>49.6 cel Range Orga Result 49.6</p>	U ics (DRO) ( Qualifier U mics (DRO) Qualifier U *- U	0.00398 GC) <u>RL</u> 49.6 (GC) <u>RL</u> 49.6		Unit mg/Kg Unit mg/Kg		Prepared Prepared 08/04/23 17:30	Analyzed 08/07/23 10:15 Analyzed 08/06/23 17:34	Dil Fac
Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<0.00398 I Range Organ Result <49.6 sel Range Orga Result <49.6 <49.6	U ics (DRO) (r Qualifier U mics (DRO) Qualifier U *- U U	0.00398 GC) RL 49.6 (GC) RL 49.6 49.6		Unit mg/Kg Unit mg/Kg mg/Kg		Prepared Prepared 08/04/23 17:30 08/04/23 17:30	Analyzed 08/07/23 10:15 Analyzed 08/06/23 17:34 08/06/23 17:34	Dil Fac
Analyte Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	<0.00398 I Range Organ <p>el Range Orga el Range Orga el Range Orga Result </p>								

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Released to Imaging: 11/6/2023 11:57:53 AM

Lab Sample ID: 880-31282-1 Matrix: Solid 5

Prep Type: Total/NA

Prep Type: Total/NA

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

Matrix: Solid		
	Matrix:	Solid

				Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1		
Lab Sample ID	Client Sample ID	(70-130)	(70-130)		5
880-31279-A-1-A MS	Matrix Spike	103	100		
880-31279-A-1-B MSD	Matrix Spike Duplicate	108	104		6
880-31282-1	S-2 (0-1')	105	106		
LCS 880-58971/1-A	Lab Control Sample	104	100		
LCSD 880-58971/2-A	Lab Control Sample Dup	95	103		
MB 880-58971/5-A	Method Blank	84	89		9
MB 880-58998/5-A	Method Blank	85	89		U
Surrogate Legend					9
BFB = 4-Bromofluorobe	nzene (Surr)				

DFBZ = 1,4-Difluorobenzene (Surr)

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

#### Matrix: Solid

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Sample ID	Client Sample ID	(70-130)	(70-130)	
82-1	S-2 (0-1')	97	100	
664-A-2-F MS	Matrix Spike	123	104	
664-A-2-G MSD	Matrix Spike Duplicate	128	112	
59369/2-A	Lab Control Sample	93	94	
-59369/3-A	Lab Control Sample Dup	85	82	
80-59369/1-A	Method Blank	88	94	

#### Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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## **QC Sample Results**

Client: Carmona Resources Project/Site: Tonto 15 State #1

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

# Lab Sample ID: MB 880-58971/5-A

Matrix: Solid Analysis Batch: 59072

	MB	МВ							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/01/23 09:18	08/02/23 22:08	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/01/23 09:18	08/02/23 22:08	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/01/23 09:18	08/02/23 22:08	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/01/23 09:18	08/02/23 22:08	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/01/23 09:18	08/02/23 22:08	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/01/23 09:18	08/02/23 22:08	1
	MB	МВ							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 130				08/01/23 09:18	08/02/23 22:08	1
1,4-Difluorobenzene (Surr)	89		70 - 130				08/01/23 09:18	08/02/23 22:08	1
4-Bromofluorobenzene (Surr)	84	Qualifier	70 - 130				08/01/23 09:18	08/02/23 22:08	

#### Lab Sample ID: LCS 880-58971/1-A Matrix: Solid

#### Analysis Batch: 59072

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.07714		mg/Kg		77	70 - 130	
Toluene	0.100	0.1014		mg/Kg		101	70 - 130	
Ethylbenzene	0.100	0.08911		mg/Kg		89	70 - 130	
m-Xylene & p-Xylene	0.200	0.1753		mg/Kg		88	70 - 130	
o-Xylene	0.100	0.08985		mg/Kg		90	70 - 130	

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

#### Lab Sample ID: LCSD 880-58971/2-A

#### Matrix: Solid

Analysis Batch: 59072							Prep	Batch:	<b>589</b> 71
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.08576		mg/Kg		86	70 - 130	11	35
Toluene	0.100	0.1000		mg/Kg		100	70 - 130	1	35
Ethylbenzene	0.100	0.08572		mg/Kg		86	70 - 130	4	35
m-Xylene & p-Xylene	0.200	0.1641		mg/Kg		82	70 - 130	7	35
o-Xylene	0.100	0.08388		mg/Kg		84	70 - 130	7	35

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

## Lab Sample ID: 880-31279-A-1-A MS

#### Matrix: Solid alveie Ratabi 50070

Analysis Batch: 59072									Prep	Batch: 58971
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00202	U	0.0996	0.07513		mg/Kg		75	70 - 130	
Toluene	<0.00202	U	0.0996	0.08995		mg/Kg		90	70 - 130	

lland

Prep Type: Total/NA

# **Client Sample ID: Method Blank** Prep Type: Total/NA Prep Batch: 58971

SDG: Lea County, New Mexico

Job ID: 880-31282-1

## **Client Sample ID: Lab Control Sample**

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 58971

**Client Sample ID: Matrix Spike** 

Client: Carmona Resources

Project/Site: Tonto 15 State #1

#### Job ID: 880-31282-1 SDG: Lea County, New Mexico

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

Lab Sample ID: 880-31279-A	A-1-A MS										Client S	ample ID:		
Matrix: Solid												Prep T	ype: To	otal/NA
Analysis Batch: 59072												Prep	Batch:	5897 <sup>,</sup>
	Sample	Sam	ple	Spike	MS	MS						%Rec		
Analyte	Result	Qual	ifier	Added	Result	Qua	lifier	Unit		D	%Rec	Limits		
Ethylbenzene	<0.00202	U		0.0996	0.08100			mg/Kg			81	70 - 130		
n-Xylene & p-Xylene	<0.00403	U		0.199	0.1561			mg/Kg			78	70 - 130		
p-Xylene	<0.00202	U		0.0996	0.07987			mg/Kg			80	70 - 130		
	MS	MS												
Surrogate		Qual	ifier	Limits										
4-Bromofluorobenzene (Surr)	103			70 - 130										
1,4-Difluorobenzene (Surr)	100			70 - 130										
Lab Sample ID: 880-31279-A	A-1-B MSD								Clie	nt Sa	ample ID:	Matrix Sp		-
Matrix: Solid													ype: To	
Analysis Batch: 59072													Batch:	
	Sample	Sam	ple	Spike	MSD	MSD	)					%Rec		RPI
Analyte	Result	Qual	ifier	Added	Result	Qua	lifier	Unit		D	%Rec	Limits	RPD	Limi
Benzene	<0.00202	U		0.0994	0.07017			mg/Kg			71	70 - 130	7	3
Foluene	<0.00202	U		0.0994	0.08738			mg/Kg			88	70 - 130	3	3
Ethylbenzene	<0.00202	U		0.0994	0.07772			mg/Kg			78	70 - 130	4	3
n-Xylene & p-Xylene	<0.00403	U		0.199	0.1481			mg/Kg			75	70 - 130	5	3
o-Xylene	<0.00202	U		0.0994	0.07711			mg/Kg			78	70 - 130	4	3
	MSD	MSD												
Surrogate		Qual	ifier	Limits										
4-Bromofluorobenzene (Surr)	108			70 - 130										
1,4-Difluorobenzene (Surr)	104			70 - 130										
Lab Sample ID: MB 880-589	98/5-A										Client Sa	mple ID: I	Nethod	Blan
Matrix: Solid												Prep T	ype: To	otal/N/
Analysis Batch: 59072												Prep	Batch:	5899
		MB	MB											
Analyte	Re	sult	Qualifier	RL		MDL	Unit		D	P	repared	Analyz	ed	Dil Fa
Benzene	<0.00	200	U	0.00200			mg/K	g	_	08/0	1/23 10:59	08/02/23	11:28	
Toluene	<0.00	200	U	0.00200			mg/K	g		08/0	1/23 10:59	08/02/23	11:28	
Ethylbenzene	<0.00	200	U	0.00200			mg/K	g		08/0	1/23 10:59	08/02/23	11:28	
m-Xylene & p-Xylene	<0.00	400	U	0.00400			mg/K			08/0	1/23 10:59	08/02/23	11:28	
p-Xylene	<0.00	200	U	0.00200			mg/K				1/23 10:59	08/02/23		
Kylenes, Total	<0.00	400	U	0.00400			mg/K			08/0	1/23 10:59	08/02/23	11:28	
		ΜВ	МВ											
Surrogate	%Recov	/ery	Qualifier	Limits							repared	Analyz		Dil Fa
-		85		70 - 130							1/23 10:59	08/02/23		
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr)											1/23 10:59	08/02/23		

Lab Sample ID: MB 880-59369/1-A							Client Sa	mple ID: Metho	d Blank
Matrix: Solid								Prep Type: 1	Total/NA
Analysis Batch: 59409								Prep Batch	n: <b>59369</b>
	MB	МВ							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		08/04/23 17:29	08/06/23 08:16	1

Eurofins Midland

(GRO)-C6-C10

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

Lab Sample ID: MB 880-59369/	1-24									chefit 3	ample ID:		
Matrix: Solid												Type: To	
Analysis Batch: 59409		/IB MB									Pre	o Batch:	59369
Analyte		ult Qualifier	RL		мпі	Unit		D	Pr	repared	Analy	baz	Dil Fac
Diesel Range Organics (Over	(Kes <50		50.0		MDL	mg/Kg				4/23 17:29			1
C10-C28)	-												
Oll Range Organics (Over C28-C36)	<50	).0 U	50.0			mg/Kg	I		08/04	4/23 17:29	08/06/23	08:16	1
		MB MB											
Surrogate	%Recove		- Limits						Pi	repared	Analy	zed	Dil Fac
1-Chlorooctane		88	70 - 130					-		4/23 17:29			1
o-Terphenyl		94	70 - 130						08/04	4/23 17:29	08/06/23	8 08:16	1
<u>.</u>													
Lab Sample ID: LCS 880-59369	9/2-A							CI	ient	Sample	ID: Lab C		
Matrix: Solid												Type: To	
Analysis Batch: 59409			Spike	1.05	LCS						%Rec	o Batch:	59369
Analyte			Added	Result			Unit		D	%Rec	Limits		
Gasoline Range Organics			1000	661.8			mg/Kg		_	66	70 - 130		
(GRO)-C6-C10							5 5						
Diesel Range Organics (Over			1000	873.3			mg/Kg			87	70 - 130		
C10-C28)													
	LCS L	CS											
	%Recovery C	Qualifier	Limits										
Surrogate													
Surrogate 1-Chlorooctane	93		70 - 130										
			70 - 130 70 - 130										
1-Chlorooctane o-Terphenyl	93 94						Cli	ent	Sam	nle ID: I	ab Contro	ol Samn	le Dun
1-Chlorooctane	93 94						Cli	ent	Sam	ple ID: L	ab Contro		
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-5930	93 94						Cli	ent	Sam	ple ID: L	Prep	ol Samp Type: To o Batch:	otal/NA
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-5930 Matrix: Solid	93 94			LCSD	LCS	D	Cli	ent	Sam	ple ID: L	Prep	Type: To	otal/NA : 59369
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-5930 Matrix: Solid	93 94		70 - 130	LCSD Result			Cli	ent	Sam	ple ID: L	Prep Prej	Type: To	otal/NA 59369 RPD
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-5930 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics	93 94		70 <sub>-</sub> 130 Spike		Qua			ent s		-	Prep Prej %Rec	Type: To b Batch:	59369 RPD
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-5930 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10	93 94		70 - 130  Spike Added 1000	Result 660.9	Qua		Unit mg/Kg	ent :		%Rec 66	Prep Prep %Rec Limits 70 - 130	Type: To b Batch: RPD 0	tal/NA 59369 RPD Limit
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-5930 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	93 94		70 - 130 Spike Added	Result	Qua		Unit	ent :		%Rec	Prep Prep %Rec Limits	Type: To b Batch: 	tal/NA 59369 RPD Limit
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-5930 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10	93 94 69/3-A		70 - 130  Spike Added 1000	Result 660.9	Qua		Unit mg/Kg	ent s		%Rec 66	Prep Prep %Rec Limits 70 - 130	Type: To b Batch: RPD 0	<b>btal/NA</b> <b>59369</b> <b>RPD</b> Limit 20
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-5930 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	93 94 69/3-A 		70 - 130 Spike Added 1000	Result 660.9	Qua		Unit mg/Kg	ent :		%Rec 66	Prep Prep %Rec Limits 70 - 130	Type: To b Batch: RPD 0	tal/NA 59369 RPD Limit
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-5930 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate	93 94 69/3-A 		70 - 130  Spike Added 1000 1000 Limits	Result 660.9	Qua		Unit mg/Kg	ent :		%Rec 66	Prep Prep %Rec Limits 70 - 130	Type: To b Batch: RPD 0	tal/NA 59369 RPD Limit
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-5930 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	93 94 69/3-A 		70 - 130 Spike Added 1000 1000 Limits 70 - 130	Result 660.9	Qua		Unit mg/Kg	ent :		%Rec 66	Prep Prep %Rec Limits 70 - 130	Type: To b Batch: RPD 0	tal/NA 59369 RPD Limit
1-Chlorooctane         o-Terphenyl         Lab Sample ID: LCSD 880-5930         Matrix: Solid         Analysis Batch: 59409         Analyte         Gasoline Range Organics         (GRO)-C6-C10         Diesel Range Organics (Over C10-C28)         Surrogate         1-Chlorooctane	93 94 69/3-A 		70 - 130  Spike Added 1000 1000 Limits	Result 660.9	Qua		Unit mg/Kg	ent :		%Rec 66	Prep Prep %Rec Limits 70 - 130	Type: To b Batch: RPD 0	tal/NA 59369 RPD Limit
1-Chlorooctane         o-Terphenyl         Lab Sample ID: LCSD 880-5930         Matrix: Solid         Analysis Batch: 59409         Analyte         Gasoline Range Organics         (GRO)-C6-C10         Diesel Range Organics (Over C10-C28)         Surrogate         1-Chlorooctane	93 94 69/3-A 69/3-A <i>LCSD L</i> % <i>Recovery G</i> 85 82		70 - 130 Spike Added 1000 1000 Limits 70 - 130	Result 660.9	Qua		Unit mg/Kg	ent :		<b>%Rec</b> 66 85	Prep 9// Prep %Rec Limits 70 - 130 70 - 130 70 - 130	Type: To b Batch:	stal/NA 59369 RPD Limit 20 20 c Spike
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-5930 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 880-31664-A-24 Matrix: Solid	93 94 69/3-A 69/3-A <i>LCSD L</i> % <i>Recovery G</i> 85 82		70 - 130 Spike Added 1000 1000 Limits 70 - 130	Result 660.9	Qua		Unit mg/Kg	ent :		<b>%Rec</b> 66 85	Prep Prey %Rec Limits 70 - 130 70 - 130 70 - 130	Type: To batch:	stal/NA 59369 RPD Limit 20 20 c Spike stal/NA
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-5930 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 880-31664-A-2	93 94 69/3-A <i>LCSD L</i> %Recovery <u>6</u> 85 82 -F MS	Qualifier	70 - 130 Spike Added 1000 1000 Limits 70 - 130 70 - 130	Result 660.9 845.2	Qual		Unit mg/Kg	ent :		<b>%Rec</b> 66 85	Prep Prey %Rec Limits 70 - 130 70 - 130 70 - 130 Sample IC Prep Prey	Type: To b Batch:	stal/NA 59369 RPD Limit 20 20 c Spike stal/NA
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-5930 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 880-31664-A-2: Matrix: Solid Analysis Batch: 59409	93 94 69/3-A <i>LCSD L</i> %Recovery <u>6</u> 82 -F MS Sample S	Qualifier	70 - 130 Spike Added 1000 1000 Limits 70 - 130 70 - 130 70 - 130	Result 660.9 845.2 MS	Qual ∗-	lifier	Unit mg/Kg mg/Kg	ent	<u>D</u> .	%Rec 66 85 Client	Prep Prey %Rec Limits 70 - 130 70 - 130 70 - 130 8 Sample IE Prep Prey %Rec	Type: To batch:	stal/NA 59369 RPD Limit 20 20 c Spike stal/NA
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-5930 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 880-31664-A-2- Matrix: Solid Analysis Batch: 59409 Analyte	93 94 69/3-A <i>LCSD L</i> %Recovery <u>6</u> 82 -F MS Sample S Result <u>6</u>	Qualifier kample Qualifier	70 - 130         Spike         Added         1000         1000         1000         000         1000         1000         1000         5pike         Added         Spike         Added	Result 660.9 845.2 MS Result	Qual ∗-	lifier	Unit mg/Kg mg/Kg	ent :		%Rec 66 85 Client	Prep Prey %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130 8 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	Type: To batch:	stal/NA 59369 RPD Limit 20 20 c Spike stal/NA
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-5930 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 880-31664-A-2: Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics	93 94 69/3-A <i>LCSD L</i> %Recovery <u>6</u> 82 -F MS Sample S	Qualifier kample Qualifier	70 - 130 Spike Added 1000 1000 Limits 70 - 130 70 - 130 70 - 130	Result 660.9 845.2 MS	Qual ∗-	lifier	Unit mg/Kg mg/Kg	ent :	<u>D</u> .	%Rec 66 85 Client	Prep Prey %Rec Limits 70 - 130 70 - 130 70 - 130 8 Sample IE Prep Prey %Rec	Type: To batch:	stal/NA 59369 RPD Limit 20 20 c Spike stal/NA
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-5930 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 880-31664-A-2- Matrix: Solid Analysis Batch: 59409 Analyte	93 94 69/3-A <i>LCSD L</i> %Recovery <u>6</u> 82 -F MS Sample S Result <u>6</u>	Qualifier kample Qualifier	70 - 130         Spike         Added         1000         1000         1000         000         1000         1000         1000         5pike         Added         Spike         Added	Result 660.9 845.2 MS Result	Qual ∗-	lifier	Unit mg/Kg mg/Kg	ent :	<u>D</u> .	%Rec 66 85 Client	Prep Prey %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130 8 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	Type: To batch:	stal/NA 59369 RPD Limit 20 20 c Spike stal/NA
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-5930 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 880-31664-A-2: Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10	93 94 69/3-A <i>LCSD L</i> % <i>Recovery G</i> 85 82 -F MS Sample S <u>Result G</u> <50.3 U	Qualifier kample Qualifier	70 - 130         Spike         Added         1000         1000         1000         0 - 130         70 - 130         70 - 130         Spike         Added         993	Result           660.9           845.2           MS           Result           876.9	Qual ∗-	lifier	Unit mg/Kg mg/Kg <u>Unit</u> mg/Kg	ent :	<u>D</u> .	%Rec           66           85           Client           %Rec           86	Prep           %Rec           Limits           70 - 130           70 - 130           Sample IC           Prep           %Rec           Limits           70 - 130	Type: To batch:	stal/NA 59369 RPD Limit 20 20 c Spike stal/NA
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-5930 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 880-31664-A-2: Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	93 94 69/3-A 69/3-A <i>LCSD L</i> %Recovery 6 85 82 -F MS Sample S Result 6 <50.3 0 61.5	ample aulifier aulifier	70 - 130         Spike         Added         1000         1000         1000         0 - 130         70 - 130         70 - 130         Spike         Added         993	Result           660.9           845.2           MS           Result           876.9	Qual ∗-	lifier	Unit mg/Kg mg/Kg <u>Unit</u> mg/Kg	ent :	<u>D</u> .	%Rec           66           85           Client           %Rec           86	Prep           %Rec           Limits           70 - 130           70 - 130           Sample IC           Prep           %Rec           Limits           70 - 130	Type: To batch:	stal/NA 59369 RPD Limit 20 20 c Spike stal/NA
1-Chlorooctane         o-Terphenyl         Lab Sample ID: LCSD 880-5930         Matrix: Solid         Analysis Batch: 59409         Analysis Batch: 59409         Analyte         Gasoline Range Organics (GRO)-C6-C10         Diesel Range Organics (Over C10-C28)         Surrogate         1-Chlorooctane         o-Terphenyl         Lab Sample ID: 880-31664-A-2:         Matrix: Solid         Analysis Batch: 59409         Analyte         Gasoline Range Organics (GRO)-C6-C10         Diesel Range Organics (Over	93 94 69/3-A <i>LCSD L</i> %Recovery <u>6</u> 85 82 -F MS Sample S <u>Result <u>6</u> &lt;50.3 U 61.5 <i>MS M</i></u>	ample aulifier aulifier	70 - 130         Spike         Added         1000         1000         1000         0 - 130         70 - 130         70 - 130         Spike         Added         993	Result           660.9           845.2           MS           Result           876.9	Qual ∗-	lifier	Unit mg/Kg mg/Kg <u>Unit</u> mg/Kg	ent :	<u>D</u> .	%Rec           66           85           Client           %Rec           86	Prep           %Rec           Limits           70 - 130           70 - 130           Sample IC           Prep           %Rec           Limits           70 - 130	Type: To batch:	stal/NA 59369 RPD Limit 20 20 c Spike stal/NA
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-5930 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 880-31664-A-2- Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	93 94 69/3-A 69/3-A <i>LCSD L</i> %Recovery <u>6</u> 85 82 -F MS Sample S Result <u>6</u> <50.3 U 61.5	ample audifier audifier	Spike           Added           1000           1000           1000           1000           1000           Spike           Added           993           993	Result           660.9           845.2           MS           Result           876.9	Qual ∗-	lifier	Unit mg/Kg mg/Kg <u>Unit</u> mg/Kg	ent :	<u>D</u> .	%Rec           66           85           Client           %Rec           86	Prep           %Rec           Limits           70 - 130           70 - 130           Sample IC           Prep           %Rec           Limits           70 - 130	Type: To batch:	c Spike

Eurofins Midland

# **QC Sample Results**

Client: Carmona Resources Project/Site: Tonto 15 State #1 Job ID: 880-31282-1 SDG: Lea County, New Mexico

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

Analysis Batch: 59409			•							Batch:		
• • •	-	Sample	Spike		MSD		_		%Rec		RPD	
Analyte		Qualifier	Added		Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10	<50.3	U *-	992	918.4		mg/Kg		91	70 - 130	5	20	
Diesel Range Organics (Over	61.5		992	1254		mg/Kg		120	70 - 130	6	20	
C10-C28)												
	MSD	MSD										
Surrogate	%Recovery	Qualifier	Limits									2
1-Chlorooctane	128		70 - 130									
o-Terphenyl	112		70 - 130									

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# **QC Association Summary**

Client: Carmona Resources Project/Site: Tonto 15 State #1

Job ID: 880-31282-1 SDG: Lea County, New Mexico

## **GC VOA**

#### Prep Batch: 58971

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31282-1	S-2 (0-1')	Total/NA	Solid	5035	
MB 880-58971/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-58971/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-58971/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-31279-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
880-31279-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	
Prep Batch: 58998					
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
MB 880-58998/5-A	Method Blank	Total/NA	Solid	5035	

#### Analysis Batch: 59072

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch	_
MB 880-58998/5-A	Method Blank	Total/NA	Solid	5035		9
Analysis Batch: 59072						
Lab Sample ID 880-31282-1	Client Sample ID S-2 (0-1')	Prep Type Total/NA	Matrix Solid	Method 8021B	Prep Batch 58971	
MB 880-58971/5-A	Method Blank	Total/NA	Solid	8021B	58971	
MB 880-58998/5-A	Method Blank	Total/NA	Solid	8021B	58998	
LCS 880-58971/1-A	Lab Control Sample	Total/NA	Solid	8021B	58971	
LCSD 880-58971/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	58971	
880-31279-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	58971	13
880-31279-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	58971	

#### Analysis Batch: 59203

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
880-31282-1	S-2 (0-1')	Total/NA	Solid	Total BTEX	

#### GC Semi VOA

#### Prep Batch: 59369

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31282-1	S-2 (0-1')	Total/NA	Solid	8015NM Prep	
MB 880-59369/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-59369/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-59369/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-31664-A-2-F MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-31664-A-2-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

#### Analysis Batch: 59409

880-31282-1

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31282-1	S-2 (0-1')	Total/NA	Solid	8015B NM	59369
MB 880-59369/1-A	Method Blank	Total/NA	Solid	8015B NM	59369
LCS 880-59369/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	59369
LCSD 880-59369/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	59369
880-31664-A-2-F MS	Matrix Spike	Total/NA	Solid	8015B NM	59369
880-31664-A-2-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	59369
Analysis Batch: 59484					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch

Total/NA

Solid

8015 NM

S-2 (0-1')

#### Client Sample ID: S-2 (0-1') Date Collected: 07/25/23 00:00 Date Received: 07/26/23 16:45

-	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	58971	08/01/23 09:18	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	59072	08/02/23 23:31	SM	EET MID
Total/NA	Analysis	Total BTEX		1			59203	08/03/23 09:53	SM	EET MID
Total/NA	Analysis	8015 NM		1			59484	08/07/23 10:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	59369	08/04/23 17:30	ткс	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59409	08/06/23 17:34	SM	EET MID

#### Laboratory References:

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

Job ID: 880-31282-1 SDG: Lea County, New Mexico

# Lab Sample ID: 880-31282-1

Matrix: Solid

Eurofins Midland

Client: Carmona Resources Project/Site: Tonto 15 State #1 Job ID: 880-31282-1 SDG: Lea County, New Mexico

#### Laboratory: Eurofins Midland

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

thority	F	Program	Identification Number	Expiration Date		
exas NELAP		T104704400-23-26	06-30-24			
The following englytee	ara included in this report I					
the agency does not of	er certification.		ed by the governing authority. This list ma	ay include analytes for t		
• ,		Matrix Solid	Analyte	ay include analytes for v		

Eurofins Midland

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# **Method Summary**

#### Client: Carmona Resources Project/Site: Tonto 15 State #1

Job ID: 880-31282-1 SDG: Lea County, New Mexico

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
Laboratory R	= TestAmerica Laboratories, Standard Operating Procedure • ferences: = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440		

#### Protocol References:

#### Laboratory References:

Eurofins Midland

# Sample Summary

Client: Carmona Resources Project/Site: Tonto 15 State #1 Job ID: 880-31282-1 SDG: Lea County, New Mexico

Lab Sample ID         Client Sample ID         Matrix         Collected         Received           880-31282-1         S-2 (0-1')         Solid         07/25/23 00:00         07/26/23 16:45					
880-31282-1 S-2 (0-1') Solid 07/25/23 00:00 07/26/23 16:45	Lab Sample ID	Client Sample ID	Matrix	Collected	Received
	880-31282-1	S-2 (0-1')	Solid	07/25/23 00:00	07/26/23 16:45

Released to Imaging: 11/6/2023 11:57:53 AM

## Received by OCD: 9/21/2023 6:16:51 AM

Mont					U-2 (U-1)	Sample Identification		Sample Custody Seals	Cooler Custody Seals	Received Intact:	SAMPLE RECEIPT	PO#	Sampler's Name.	Project Location	Project Number	Project Name	Phone	City, State ZIP N	Address	Company Name (	Project Manager (
all a	Relinquish	resurts to mike Carmor			1) / 25 23			S Yes No N/A	Yes	(Kes) No	Temp Blank		CCM	Lea County, New Mexico	2089	Tonto 15 State #1		Midland TX 79701	310 W Wall St Ste 500	Carmona Resources	Clinton Merritt
Å	Relinquished by (Signature)	ia mcarmona@carn				Time	Corrected Lemperature	K	Correction Factor	Thermometer ID	Nes No					ate #1					
		ionaresource			×	Soil	ature.	ding			Wet Ice			Due Date	マ Routine	Turn	Email				
		es com, Conner			<u>ଜ</u>	Water Comp		di l	-30	THE	Kes No	)	1	5 dav	Rush	Turn Around	msanjari@marathonoll.com	City, State ZIP	Address	Company Name	Bill to (if different)
7-	Da	Moehring				# of Cont		J			neter	s	<b>I</b>		Pres,		athonoil con	H	36	M	A
1045 1045	Date/Time	cmoehring@carmonaresour			×	TF	PH 80	15M	( GR	0 + [	ORO	+ MF	:0)			AN	1	Houston TX 77024	990 Town and Country Blvd	Marathon Oll Corporation	Melodie Sanjari
	Received by (Signature)	Email resurs to Mike Carmona mcarmona@carmonaresources com, Conner Moehring cmoehring@carmonaresources com, Clint MerrittC@carmonaresources com	90-31100													ANALYSIS REQUEST	Deliverables EDD AD;		State of Project.	Program. UST/PST PRP Prownfields	Work Orde
	Date/Time	ssources com				Sample Comments	NaOH+Ascorbic Acid SAPC	Zn Acetate+NaOH Zn	Na S-O, NaSO,	NaHSO, NARIS	H DO. HD		0		or vari						Page1 of1

# 8/7/2023

Work Order No:

686

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13

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677

(/)

5

14

Job Number: 880-31282-1

List Source: Eurofins Midland

SDG Number: Lea County, New Mexico

## Login Sample Receipt Checklist

Client: Carmona Resources

Login Number: 31282 List Number: 1 Creator: Rodriguez, Leticia

<6mm (1/4").

Question Answer Comment The cooler's custody seal, if present, is intact. N/A N/A Sample custody seals, if present, are intact. The cooler or samples do not appear to have been compromised or True tampered with. Samples were received on ice. True True Cooler Temperature is acceptable. 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 True HTs) 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 True MS/MSDs

N/A

Eurofins Midland Released to Imaging: 11/6/2023 11:57:53 AM

Containers requiring zero headspace have no headspace or bubble is



**Environment Testing** 

# **ANALYTICAL REPORT**

# PREPARED FOR

Attn: Clint Merritt **Carmona Resources** 310 W Wall St Ste 500 Midland, Texas 79701 Generated 8/7/2023 12:35:20 PM

# **JOB DESCRIPTION**

Tonto 15 State #1 SDG NUMBER Lea County, New Mexico

# **JOB NUMBER**

880-31277-1



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# ËOL

See page two for job notes and contact information.

**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

AMER

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

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Laboratory Job ID: 880-31277-1 SDG: Lea County, New Mexico

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#### Client: Carmona Resources Project/Site: Tonto 15 State #1

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Job ID: 880-31277-1
SDG: Lea County, New Mexico

## Qualifiers

	3
Qualifier Description	
Surrogate recovery exceeds control limits, low biased.	
Indicates the analyte was analyzed for but not detected.	5
Qualifier Description	6
LCS and/or LCSD is outside acceptance limits, low biased.	
Indicates the analyte was analyzed for but not detected.	7
	8
These commonly used abbreviations may or may not be present in this report.	0
Listed under the "D" column to designate that the result is reported on a dry weight basis	Q
Percent Recovery	
Contains Free Liquid	10
Colony Forming Unit	10
Contains No Free Liquid	44
Duplicate Error Ratio (normalized absolute difference)	
Dilution Factor	40
Detection Limit (DoD/DOE)	
Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample	4.0
Decision Level Concentration (Radiochemistry)	13
Estimated Detection Limit (Dioxin)	
Limit of Detection (DoD/DOE)	
Limit of Quantitation (DoD/DOE)	
EPA recommended "Maximum Contaminant Level"	
Minimum Detectable Activity (Radiochemistry)	
_	Surrogate recovery exceeds control limits, low blased.         Indicates the analyte was analyzed for but not detected.         Qualifier Description         LCS and/or LCSD is outside acceptance limits, low blased.         Indicates the analyte was analyzed for but not detected.         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         Percent Recovery         Contains Free Liquid         Contains No Free Liquid         Duplicate Error Ratio (normalized absolute difference)         Dilution Factor         Detection Limit (DoD/DOE)         Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample         Decision Level Concentration (Radiochemistry)         Estimated Detection Limit (DioXin)         Limit of Detection (DoD/DOE)         Limit of Outontion (DoD/DOE)         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

QCQuality ControlRERRelative Error Ratio (Rad

 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

#### Job ID: 880-31277-1

#### Laboratory: Eurofins Midland

#### Narrative

Job Narrative 880-31277-1

#### Receipt

The sample was received on 7/26/2023 4:45 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.5°C

#### **Receipt Exceptions**

The following sample was received and analyzed from an unpreserved bulk soil jar: S-3 (2') (880-31277-1).

#### GC VOA

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-59172 recovered above the upper control limit for Benzene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 880-59172/20).

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-59110 and analytical batch 880-59172 was outside the upper control limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: S-3 (2') (880-31277-1) and (880-31278-A-1-A). 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: The laboratory control sample (LCS) associated with preparation batch 880-59369 and analytical batch 880-59409 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.

# Lab Sample ID: 880-31277-1

Matrix: Solid

5

## Client: Carmona Resources Project/Site: Tonto 15 State #1

#### Client Sample ID: S-3 (2') Date Collected: 07/25/23 00:00 Date Received: 07/26/23 16:45

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		08/01/23 09:01	08/04/23 06:29	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/01/23 09:01	08/04/23 06:29	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/01/23 09:01	08/04/23 06:29	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/01/23 09:01	08/04/23 06:29	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/01/23 09:01	08/04/23 06:29	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/01/23 09:01	08/04/23 06:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 130				08/01/23 09:01	08/04/23 06:29	1
1,4-Difluorobenzene (Surr)	56	S1-	70 - 130				08/01/23 09:01	08/04/23 06:29	1
Total BTEX - - Method: SW846 8015 NM - Diese	<0.00402 I Range Organ		0.00402 GC)		mg/Kg			08/04/23 10:48	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			08/07/23 10:15	1
Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U *-	49.6		mg/Kg		08/04/23 17:30	08/06/23 14:59	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		08/04/23 17:30	08/06/23 14:59	1
Oll Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		08/04/23 17:30	08/06/23 14:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130				08/04/23 17:30	08/06/23 14:59	1
I-Chioroociane	00		70 = 700				00/0 // 20 11:00	00,00,20 11.00	

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Prep Type: Total/NA

Prep Type: Total/NA

#### Method: 8021B - Volatile Organic Compounds (GC) Matrix: Solid

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-31277-1	S-3 (2')	84	56 S1-	
880-31278-A-1-B MS	Matrix Spike	121	124	
880-31278-A-1-C MSD	Matrix Spike Duplicate	119	91	
LCS 880-58969/1-A	Lab Control Sample	115	111	
LCSD 880-58969/2-A	Lab Control Sample Dup	114	109	
MB 880-58969/5-A	Method Blank	73	79	
MB 880-59110/5-A	Method Blank	68 S1-	100	
Surrogate Legend				

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

#### Matrix: Solid

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Sample ID	Client Sample ID	(70-130)	(70-130)	
277-1	S-3 (2')	88	89	
1664-A-2-F MS	Matrix Spike	123	104	
664-A-2-G MSD	Matrix Spike Duplicate	128	112	
0-59369/2-A	Lab Control Sample	93	94	
0-59369/3-A	Lab Control Sample Dup	85	82	
380-59369/1-A	Method Blank	88	94	

#### Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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## **QC Sample Results**

Client: Carmona Resources Project/Site: Tonto 15 State #1

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

Lab Sample ID: MB 880-58969/5-A
Matrix: Solid

Analysis Batch: 59172

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/01/23 09:01	08/03/23 22:38	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/01/23 09:01	08/03/23 22:38	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/01/23 09:01	08/03/23 22:38	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/01/23 09:01	08/03/23 22:38	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/01/23 09:01	08/03/23 22:38	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/01/23 09:01	08/03/23 22:38	1
	МВ	МВ							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	73		70 - 130				08/01/23 09:01	08/03/23 22:38	1
1,4-Difluorobenzene (Surr)	79		70 - 130				08/01/23 09:01	08/03/23 22:38	1

#### Lab Sample ID: LCS 880-58969/1-A Matrix: Solid

#### Analysis Batch: 59172

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09442		mg/Kg		94	70 - 130	
Toluene	0.100	0.08693		mg/Kg		87	70 - 130	
Ethylbenzene	0.100	0.1010		mg/Kg		101	70 - 130	
m-Xylene & p-Xylene	0.200	0.2099		mg/Kg		105	70 - 130	
o-Xylene	0.100	0.1041		mg/Kg		104	70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	115		70 - 130
1,4-Difluorobenzene (Surr)	111		70 - 130

#### Lab Sample ID: LCSD 880-58969/2-A

#### Matrix: Solid

Analysis Batch: 59172							Prep	ep Batch: 589	
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.08592		mg/Kg		86	70 - 130	9	35
Toluene	0.100	0.08219		mg/Kg		82	70 - 130	6	35
Ethylbenzene	0.100	0.08963		mg/Kg		90	70 - 130	12	35
m-Xylene & p-Xylene	0.200	0.1870		mg/Kg		94	70 - 130	12	35
o-Xylene	0.100	0.09268		mg/Kg		93	70 - 130	12	35

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

# Lab Sample ID: 880-31278-A-1-B MS

# Matrix: Solid

Analysis Batch: 59172									Pre	p Batch: 58969
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	< 0.00202	U	0.0994	0.1002		mg/Kg		101	70 - 130	
Toluene	<0.00202	U	0.0994	0.09371		mg/Kg		94	70 - 130	

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Prep Type: Total/NA

**Client Sample ID: Matrix Spike** 

#### Client Sample ID: Lab Control Sample Prep Type: Total/NA

Client Sample ID: Lab Control Sample Dup

Prep Batch: 58969

Prep Type: Total/NA

Client: Carmona Resources

Project/Site: Tonto 15 State #1

#### Job ID: 880-31277-1 SDG: Lea County, New Mexico

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

Lab Sample ID: 880-31278-	A-1-B MS									Client	Sample ID:		-
Matrix: Solid											Prep Ty		
Analysis Batch: 59172	0	•••••		0								Batch:	5896
	Sample		•	Spike		MS					%Rec		
Analyte	Result		ifier	Added	Result	Qua	litier	Unit		D %Rec _	Limits		
Ethylbenzene	<0.00202			0.0994	0.1030			mg/Kg		104	70 - 130		
n-Xylene & p-Xylene	<0.00403			0.199	0.2125			mg/Kg		107	70 - 130		
-Xylene	<0.00202	U		0.0994	0.1040			mg/Kg		105	70 - 130		
	MS	MS											
Surrogate	%Recovery	Qua	lifier	Limits									
4-Bromofluorobenzene (Surr)	121			70 - 130									
,4-Difluorobenzene (Surr)	124			70 - 130									
_ab Sample ID: 880-31278-/	A-1-C MSD							C	Client	Sample ID	: Matrix Spi	ke Duj	plicat
Matrix: Solid											Prep Ty	vpe: To	otal/N
Analysis Batch: 59172											Prep	Batch:	5896
	Sample	Sam	ple	Spike	MSD	MSD	)				%Rec		RF
Analyte	Result	Qual	ifier	Added	Result	Qua	lifier	Unit		D %Rec	Limits	RPD	Lin
Benzene	<0.00202	U		0.0998	0.09502			mg/Kg		95	70 - 130	5	;
oluene	<0.00202	U		0.0998	0.09100			mg/Kg		91	70 - 130	3	;
Ethylbenzene	<0.00202	U		0.0998	0.1021			mg/Kg		102	70 - 130	1	:
n-Xylene & p-Xylene	<0.00403	U		0.200	0.2097			mg/Kg		105	70 - 130	1	;
o-Xylene	<0.00202	U		0.0998	0.1024			mg/Kg		103	70 - 130	2	:
	MSD	MSD	1										
Surrogate	%Recovery	Qual	lifier	Limits									
4-Bromofluorobenzene (Surr)	119			70 - 130									
1,4-Difluorobenzene (Surr)	91			70 - 130									
_ab Sample ID: MB 880-591	10/5-A									Client S	ample ID: N	lethod	Blan
Matrix: Solid											Prep Ty	vpe: To	otal/N
Analysis Batch: 59172											Prep	Batch:	<b>591</b> 1
		MB	MB										
Analyte	Re	sult	Qualifier	RL		MDL	Unit		D	Prepared	Analyze	d	Dil Fa
Benzene	<0.00	200	U	0.00200			mg/Kg	1	0	8/02/23 11:14	08/03/23 1	1:30	
oluene	<0.00	200	U	0.00200			mg/Kg	I	0	8/02/23 11:14	08/03/23 1	1:30	
thylbenzene	<0.00	200	U	0.00200			mg/Kg	1	0	8/02/23 11:14	08/03/23 1	1:30	
n-Xylene & p-Xylene	<0.00	400	U	0.00400			mg/Kg		0	8/02/23 11:14	08/03/23 1	1:30	
o-Xylene	<0.00	200	U	0.00200			mg/Kg		0	8/02/23 11:14	08/03/23 1	1:30	
Kylenes, Total	<0.00	400	U	0.00400			mg/Kg	1	0	8/02/23 11:14	08/03/23 1	1:30	
		ΜВ											
Surrogate	%Reco	very	Qualifier	Limits					_	Prepared	Analyze		Dil Fa
1-Bromofluorobenzene (Surr)		68	S1-	70 - 130					C	8/02/23 11:14	08/03/23 1	1:30	
		100		70 - 130						8/02/23 11:14	08/03/23 1	4 00	

Lab Sample ID: MB 880-59369/1-A Matrix: Solid Analysis Batch: 59409						Client Sa	mple ID: Method Blank Prep Type: Total/NA Prep Batch: 59369		
	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		08/04/23 17:29	08/06/23 08:16	1
(GRO)-C6-C10									

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

Lab Sample ID: MB 880-59369/										Cheffit 3	ample ID:		
Matrix: Solid												Type: To	
Analysis Batch: 59409		ИВ МВ									Pre	o Batch:	59369
Analyte		ив мв ult Qualifie	r RL		мпі	Unit		D	Pr	repared	Analy	70d	Dil Fac
Diesel Range Organics (Over	<		50.0	. <u></u>	MDL	mg/Kg				4/23 17:29			1
C10-C28)													
Oll Range Organics (Over C28-C36)	<50	).0 U	50.0			mg/Kg	I		08/04	4/23 17:29	08/06/23	08:16	1
	л	NB MB											
Surrogate	%Recove		r Limits						Pi	repared	Analy	zed	Dil Fac
1-Chlorooctane		88	70 - 130					-		4/23 17:29			1
o-Terphenyl		94	70 - 130						08/04	4/23 17:29	08/06/23	8 08:16	1
<u>.</u>													
Lab Sample ID: LCS 880-59369	9/2-A							CI	ient	Sample	ID: Lab C		
Matrix: Solid												Type: To	
Analysis Batch: 59409			Spike	201	LCS						Pre %Rec	o Batch:	29368
Analyte			Added	Result			Unit		D	%Rec	Limits		
Gasoline Range Organics			1000	661.8			mg/Kg		_	66	70 - 130		
(GRO)-C6-C10							5 5						
Diesel Range Organics (Over			1000	873.3			mg/Kg			87	70 - 130		
C10-C28)													
	LCS L	cs											
-	%Recovery G	Qualifier	Limits										
Surrogate													
Surrogate 1-Chlorooctane	93		70 - 130										
			70 - 130 70 - 130										
1-Chlorooctane o-Terphenyl	93 94						Cli	ent	Sam	nle ID: I	ab Contro	ol Samn	le Dun
1-Chlorooctane	93 94						Cli	ent	Sam	ple ID: L	_ab Contro Prep		
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-5930	93 94						Cli	ent	Sam	ple ID: L	Prep	ol Samp Type: To o Batch:	otal/NA
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-5930 Matrix: Solid	93 94			LCSD	LCS	D	Cli	ent	Sam	ple ID: L	Prep	Type: To	otal/NA 59369
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-5930 Matrix: Solid	93 94		70 - 130	LCSD Result			Cli	ent	Sam	ple ID: L	Prep Prej	Type: To	59369 RPD
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-5930 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics	93 94		70 <sub>-</sub> 130 Spike		Qua			ent s		-	Prep Prej %Rec	Type: To b Batch:	59369 RPD Limit
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-5930 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10	93 94		70 - 130 Spike Added 1000	Result 660.9	Qua		Unit mg/Kg	ent :		%Rec 66	Prep Prep %Rec Limits 70 - 130	Type: To b Batch: RPD 0	tal/NA 59369 RPD Limit
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-5930 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	93 94		70 - 130 Spike Added	Result	Qua		Unit	ent :		%Rec	Prep Prep %Rec Limits	Type: To b Batch: 	tal/NA 59369 RPD Limit
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-5930 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10	93 94 69/3-A		70 - 130 Spike Added 1000	Result 660.9	Qua		Unit mg/Kg	ent s		%Rec 66	Prep Prep %Rec Limits 70 - 130	Type: To b Batch: RPD 0	stal/NA 59369 RPD Limit
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-5930 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	93 94 69/3-A 		70 - 130 Spike Added 1000	Result 660.9	Qua		Unit mg/Kg	ent :		%Rec 66	Prep Prep %Rec Limits 70 - 130	Type: To b Batch: RPD 0	stal/NA 59369 RPD Limit
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-5930 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate	93 94 69/3-A 		70 - 130 Spike Added 1000 1000 Limits	Result 660.9	Qua		Unit mg/Kg	ent :		%Rec 66	Prep Prep %Rec Limits 70 - 130	Type: To b Batch: RPD 0	tal/NA 59369 RPD Limit
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-5930 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	93 94 69/3-A 		70 - 130 Spike Added 1000 1000 Limits 70 - 130	Result 660.9	Qua		Unit mg/Kg	ent :		%Rec 66	Prep Prep %Rec Limits 70 - 130	Type: To b Batch: RPD 0	tal/NA 59369 RPD Limit
1-Chlorooctane         o-Terphenyl         Lab Sample ID: LCSD 880-5930         Matrix: Solid         Analysis Batch: 59409         Analyte         Gasoline Range Organics         (GRO)-C6-C10         Diesel Range Organics (Over C10-C28)         Surrogate         1-Chlorooctane	93 94 69/3-A 		70 - 130 Spike Added 1000 1000 Limits	Result 660.9	Qua		Unit mg/Kg	ent :		%Rec 66	Prep Prep %Rec Limits 70 - 130	Type: To b Batch: RPD 0	tal/NA 59369 RPD Limit
1-Chlorooctane         o-Terphenyl         Lab Sample ID: LCSD 880-5930         Matrix: Solid         Analysis Batch: 59409         Analyte         Gasoline Range Organics         (GRO)-C6-C10         Diesel Range Organics (Over C10-C28)         Surrogate         1-Chlorooctane	93 94 69/3-A 		70 - 130 Spike Added 1000 1000 Limits 70 - 130	Result 660.9	Qua		Unit mg/Kg	ent :		%Rec 66 85	Prep 976 %Rec Limits 70 - 130 70 - 130 70 - 130	Type: To p Batch: <u>RPD</u> 0 3 2: Matrix	stal/NA 59369 RPD Limit 20 20
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-5930 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 880-31664-A-24 Matrix: Solid	93 94 69/3-A 		70 - 130 Spike Added 1000 1000 Limits 70 - 130	Result 660.9	Qua		Unit mg/Kg	ent :		%Rec 66 85	Prep Prey %Rec Limits 70 - 130 70 - 130 70 - 130	Type: To batch:	stal/NA 59369 RPD Limit 20 20 20
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-5930 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 880-31664-A-2	93 94 69/3-A <i>LCSD L</i> %Recovery <u>6</u> 85 82 -F MS	Qualifier	70 - 130 Spike Added 1000 1000 Limits 70 - 130 70 - 130	Result 660.9 845.2	Qual		Unit mg/Kg	ent :		%Rec 66 85	Prep %Rec Limits 70 - 130 70 - 130 70 - 130 Sample IC Prep Prep	Type: To p Batch: <u>RPD</u> 0 3 2: Matrix	stal/NA 59369 RPD Limit 20 20 20
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-5930 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 880-31664-A-2: Matrix: Solid Analysis Batch: 59409	93 94 69/3-A <i>LCSD L</i> %Recovery <u>6</u> 82 -F MS Sample S	Qualifier	70 - 130 Spike Added 1000 1000 Limits 70 - 130 70 - 130 70 - 130	Result 660.9 845.2 MS	Qual ∗-	lifier	Unit mg/Kg mg/Kg	ent	<u>D</u> .	%Rec 66 85 Client	Prep Prey %Rec Limits 70 - 130 70 - 130 70 - 130 Sample IE Prep Prey %Rec	Type: To batch:	stal/NA 59369 RPD Limit 20 20 20
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-5930 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 880-31664-A-2- Matrix: Solid Analysis Batch: 59409 Analyte	93 94 69/3-A <i>LCSD L</i> %Recovery G 85 82 -F MS Sample S Result G	Qualifier	70 - 130         Spike         Added         1000         1000         1000         1000         50 - 130         70 - 130         70 - 130         70 - 130         70 - 130         Added	Result           660.9           845.2           MS           Result	Qual ∗-	lifier	Unit mg/Kg mg/Kg	ent :		%Rec 66 85 Client	Prep Prey %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130 8 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	Type: To batch:	stal/NA 59369 RPD Limit 20 20 20
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-5930 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 880-31664-A-2: Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics	93 94 69/3-A <i>LCSD L</i> %Recovery <u>6</u> 82 -F MS Sample S	Qualifier	70 - 130 Spike Added 1000 1000 Limits 70 - 130 70 - 130 70 - 130	Result 660.9 845.2 MS	Qual ∗-	lifier	Unit mg/Kg mg/Kg	ent :	<u>D</u> .	%Rec 66 85 Client	Prep Prey %Rec Limits 70 - 130 70 - 130 70 - 130 Sample IE Prep Prey %Rec	Type: To batch:	stal/NA 59369 RPD Limit 20 20 20
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-5930 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 880-31664-A-2- Matrix: Solid Analysis Batch: 59409 Analyte	93 94 69/3-A <i>LCSD L</i> %Recovery G 85 82 -F MS Sample S Result G	Qualifier	70 - 130         Spike         Added         1000         1000         1000         1000         50 - 130         70 - 130         70 - 130         70 - 130         70 - 130         Added	Result           660.9           845.2           MS           Result	Qual ∗-	lifier	Unit mg/Kg mg/Kg	ent :	<u>D</u> .	%Rec 66 85 Client	Prep Prey %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130 8 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	Type: To batch:	stal/NA 59369 RPC Limin 20 20 20 Spike
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-5930 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 880-31664-A-2: Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10	93 94 69/3-A <i>LCSD L</i> % <i>Recovery G</i> 85 82 -F MS Sample S <u>Result G</u> <50.3 U	Qualifier	70 - 130         Spike         Added         1000         1000         1000         1000         1000         1000         5pike         Added         993	Result           660.9           845.2           MS           Result           876.9	Qual ∗-	lifier	Unit mg/Kg mg/Kg <u>Unit</u> mg/Kg	ent :	<u>D</u> .	%Rec 66 85 Client %Rec 86	Prep           %Rec           Limits           70 - 130           70 - 130           Sample IC           Prep           %Rec           Limits           70 - 130	Type: To batch:	stal/NA 59369 RPC Limin 20 20 20 Spike
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-5930 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 880-31664-A-2: Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	93 94 69/3-A 69/3-A <i>LCSD L</i> %Recovery 6 85 82 -F MS Sample S Result 6 <50.3 0 61.5	ample Qualifier Xalifier	70 - 130         Spike         Added         1000         1000         1000         1000         1000         1000         5pike         Added         993	Result           660.9           845.2           MS           Result           876.9	Qual ∗-	lifier	Unit mg/Kg mg/Kg <u>Unit</u> mg/Kg	ent :	<u>D</u> .	%Rec 66 85 Client %Rec 86	Prep           %Rec           Limits           70 - 130           70 - 130           Sample IC           Prep           %Rec           Limits           70 - 130	Type: To batch:	stal/NA 59369 RPD Limit 20 20 20
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-5930 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 880-31664-A-2- Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	93 94 69/3-A 69/3-A <i>LCSD L</i> %Recovery G 85 82 -F MS Sample S Result G <50.3 U 61.5 <i>MS M</i>	ample Qualifier Xalifier	70 - 130         Spike         Added         1000         1000         1000         1000         1000         1000         5pike         Added         993	Result           660.9           845.2           MS           Result           876.9	Qual ∗-	lifier	Unit mg/Kg mg/Kg <u>Unit</u> mg/Kg	ent :	<u>D</u> .	%Rec 66 85 Client %Rec 86	Prep           %Rec           Limits           70 - 130           70 - 130           Sample IC           Prep           %Rec           Limits           70 - 130	Type: To batch:	stal/NA 59369 RPD Limit 20 20 20
1-Chlorooctane         o-Terphenyl         Lab Sample ID: LCSD 880-5930         Matrix: Solid         Analysis Batch: 59409         Analysis Batch: 59409         Analyte         Gasoline Range Organics (GRO)-C6-C10         Diesel Range Organics (Over C10-C28)         Surrogate         1-Chlorooctane         o-Terphenyl         Lab Sample ID: 880-31664-A-2:         Matrix: Solid         Analysis Batch: 59409         Analyte         Gasoline Range Organics (GRO)-C6-C10         Diesel Range Organics (Over	93 94 69/3-A 69/3-A <i>LCSD L</i> %Recovery G 85 82 -F MS Sample S Result G <50.3 U 61.5 <i>MS M</i>	ample audifier Qualifier	70 - 130         Spike         Added         1000         1000         1000         1000         1000         1000         50 - 130         70 - 130         70 - 130         70 - 130         993         993         993	Result           660.9           845.2           MS           Result           876.9	Qual ∗-	lifier	Unit mg/Kg mg/Kg <u>Unit</u> mg/Kg	ent :	<u>D</u> .	%Rec 66 85 Client %Rec 86	Prep           %Rec           Limits           70 - 130           70 - 130           Sample IC           Prep           %Rec           Limits           70 - 130	Type: To batch:	stal/NA 59369 RPD Limit 20 20 20

Eurofins Midland

# **QC Sample Results**

Client: Carmona Resources Project/Site: Tonto 15 State #1

Job ID: 880-31277-1 SDG: Lea County, New Mexico

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

_ab Sample ID: 880-31664-A	-2-G MSD					CI	ient Sa	ample ID	: Matrix Sp	ike Dup	licate	
Matrix: Solid									Prep T	ype: To	tal/NA	
Analysis Batch: 59409									Prep	Batch:	59369	
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	E
Basoline Range Organics	<50.3	U *-	992	918.4		mg/Kg		91	70 - 130	5	20	
GRO)-C6-C10												÷
Diesel Range Organics (Over	61.5		992	1254		mg/Kg		120	70 - 130	6	20	
C10-C28)												2
	MSD	MSD										
Surrogate	%Recovery	Qualifier	Limits									
-Chlorooctane	128		70 - 130									
p-Terphenyl	112		70 - 130									
												i

**Client Sample ID** 

Lab Control Sample

Lab Control Sample Dup

Matrix Spike Duplicate

**Client Sample ID** 

**Client Sample ID** 

Method Blank

Method Blank

Matrix Spike

Lab Control Sample

Lab Control Sample Dup

Matrix Spike Duplicate

S-3 (2')

Method Blank

Method Blank

Matrix Spike

S-3 (2')

## **QC** Association Summary

Prep Type

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Prep Type

Prep Type

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Matrix

Solid

Solid

Solid

Solid

Solid

Solid

Matrix

Solid

Matrix

Solid

Solid

Solid

Solid

Solid

Solid

Solid

Client: Carmona Resources Project/Site: Tonto 15 State #1

**GC VOA** 

880-31277-1

Prep Batch: 58969 Lab Sample ID

MB 880-58969/5-A

LCS 880-58969/1-A

LCSD 880-58969/2-A

880-31278-A-1-B MS

880-31278-A-1-C MSD

Prep Batch: 59110

MB 880-59110/5-A

Analysis Batch: 59172

Lab Sample ID

Lab Sample ID

MB 880-58969/5-A

MB 880-59110/5-A

LCS 880-58969/1-A

LCSD 880-58969/2-A

880-31278-A-1-B MS

880-31277-1

Job ID: 880-31277-1 SDG: Lea County, New Mexico

Method

5035

5035

5035

5035

5035

5035

Method

Method

8021B

8021B

8021B

8021B

8021B

8021B

8021B

5035

Page 180 of 406

Prep Batch

# 8

Prep Batch Prep Batch 58969 58969 59110 58969

58969

58969

58969

880-31278-A-1-C MSD Analysis Batch: 59325

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31277-1	S-3 (2')	Total/NA	Solid	Total BTEX	

#### GC Semi VOA

#### Prep Batch: 59369

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31277-1	S-3 (2')	Total/NA	Solid	8015NM Prep	
MB 880-59369/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-59369/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-59369/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-31664-A-2-F MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-31664-A-2-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 59409

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
880-31277-1	S-3 (2')	Total/NA	Solid	8015B NM	59369
MB 880-59369/1-A	Method Blank	Total/NA	Solid	8015B NM	59369
LCS 880-59369/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	59369
LCSD 880-59369/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	59369
880-31664-A-2-F MS	Matrix Spike	Total/NA	Solid	8015B NM	59369
880-31664-A-2-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	59369
Analysis Batch: 59479					
	Client Comple ID	Dren Tune	Matrix	Mathad	Dren Datah

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31277-1	S-3 (2')	Total/NA	Solid	8015 NM	
Job ID: 880-31277-1 SDG: Lea County, New Mexico

## Lab Sample ID: 880-31277-1

Matrix: Solid

#### Client: Carmona Resources Project/Site: Tonto 15 State #1

#### Client Sample ID: S-3 (2') Date Collected: 07/25/23 00:00 Date Received: 07/26/23 16:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	58969	08/01/23 09:01	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	59172	08/04/23 06:29	SM	EET MID
Total/NA	Analysis	Total BTEX		1			59325	08/04/23 10:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			59479	08/07/23 10:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	59369	08/04/23 17:30	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59409	08/06/23 14:59	SM	EET MID

#### Laboratory References:

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

Eurofins Midland

Released to Imaging: 11/6/2023 11:57:53 AM

Client: Carmona Resources Project/Site: Tonto 15 State #1

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Job ID: 880-31277-1 SDG: Lea County, New Mexico

#### Laboratory: Eurofins Midland

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

uthority	P	rogram	Identification Number	Expiration Date	
exas		IELAP	T104704400-23-26	06-30-24	
• •		out the laboratory is not certif	ied by the governing authority. This list ma	ay include analytes for wh	
the agency does not of	ter certification.				
the agency does not of Analysis Method	fer certification. Prep Method	Matrix	Analyte		
0,		Matrix Solid	Analyte Total TPH		

Eurofins Midland

Released to Imaging: 11/6/2023 11:57:53 AM

#### **Method Summary**

#### Client: Carmona Resources Project/Site: Tonto 15 State #1

Job ID: 880-31277-1 SDG: Lea County, New Mexico

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
Laboratory R	= TestAmerica Laboratories, Standard Operating Procedure • ferences: = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440		

#### Protocol References:

#### Laboratory References:

#### Sample Summary

Client: Carmona Resources Project/Site: Tonto 15 State #1 Job ID: 880-31277-1 SDG: Lea County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-31277-1	S-3 (2')	Solid	07/25/23 00:00	07/26/23 16:45

Released to Imaging: 11/6/2023 11:57:53 AM

# Received by OCD: 9/21/2023 6:16:51 AM SAMPLE F Received Intar Cooler Custod Sample Custo Total Containe Project Name Project Numbe Project Locatic Sampler's Nar Comments PO# 2 Sam

Mann	Comments Email resul				S-3 (2')	Sample Identification	Total Containers	Sample Custody Seals	Cooler Custody Seals	Received Intact:	SAMPLE RECEIPT	PO#	Sampler's Name	Project Location	Project Number	Project Name	Phone.	City, State ZIP Midlar	Address. 310 V	Company Name: Carm	Project Manager Clinto	
Relinquished	Email results to Mike Carmona mcarmona@carmonaresources com, Conner Moehring cmoehring@carmonaresources com, Clint Merritt MerrittC@carmonaresources com				7 25 23	on Date		Yes No NA	Yes No (NA)	Yes No	Tepp Blank.		CCM	Lea County, New Mexico	2089	Tonto 15 State #1		Midland, TX 79701	310 W Wall St Ste 500	Carmona Resources	Clinton Merritt	
Relinquished by (Signature)	mcarmona@carm					Time	Corrected Temperature	Temperature Reading	Correction Factor	Thermometer ID	Yes (No)					e #1						
	ionaresources				×	Soil	ature	ling		-	Wet Ice			Due Date	マ Routine	Turn /	Email					
	s com, Conner				G	Water Comp	N.S	() () ()	1,100	× 1	( No	•	<u>, an c</u>	5 dav	Rush	Turn Around	msanjan@marathonoil.com	City, State ZIP	Address	Company Name	Bill to. (if different)	
7,0	Moehring					# of Cont			Pa	ram	eter	s			Pres, Code		thonoil co					
Date/Time -76-2 1 (0 L	cmoehr				 ××	TPł	801		GRO			+ M	RO)				m	Houston TX 77024	990 Town and Country Blvd	Marathon Oil Corporation	Melodie Sanjari	
	ng@carr							Chi	orid	e 301	00							× 77024	nd Countr	il Corpora	njan	
	nonares																		y Blvd	tion		
	ources c	880-3		+												ANALYSIS REQUEST						
Received	om, Clin	1277 Cha		-	 	- <u></u>								+		SIS REQU						
by.	t Merritt	880-31277 Chain of Custody		-												JEST	Deliverab	Reporting	State of Project	Program		
Signature	MerrittC.	stody		+-+-													Deliverables EDD	Level II	Project	Program, UST/PST PRP		
	@carmo			-		in in the second	ule <del>s</del>							_							Work	
	naresou	 <del> </del> <del> </del>	-1-1-			T	7	7	~ ~ ~								ADaPT	Reporting Level II Level III ST/UST		Prownfields	Order Co	
	.ces com					Sam	NaOH+Ascorbic Acid SAPC	Zn Acetate+NaOH Zn	NanS-O NaSO.	NPHCO N			LOOI COOI		None NO	Prese		ST CRRP		elds DRC	Work Order Comments	Page
Date/Time						Sample Comments	orbic Acid	NaOH 7n	ASO.	210	Nac		Mec			Preservative Codes	Other			ñ		1 of
Time						lents	SAPC				NACT INA		MeOH Me			odes			1	perfund	A Construction of the second se	

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Work Order No:

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14

Job Number: 880-31277-1

List Source: Eurofins Midland

SDG Number: Lea County, New Mexico

#### Login Sample Receipt Checklist

Client: Carmona Resources

Login Number: 31277 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	

N/A

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").



**Environment Testing** 

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**ANALYTICAL REPORT** 

## PREPARED FOR

Attn: Clint Merritt Carmona Resources 310 W Wall St Ste 500 Midland, Texas 79701 Generated 8/7/2023 12:38:46 PM

# JOB DESCRIPTION

Tonto 15 State #1 SDG NUMBER Lea County, New Mexico

#### **JOB NUMBER**

880-31278-1

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

AMER

Generated 8/7/2023 12:38:46 PM

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

Eurofins Midland is a laboratory within Eurofins Environment Testing South Central, LLC, a company within Eurofins Environment Testing Group of Companies

Laboratory Job ID: 880-31278-1 SDG: Lea County, New Mexico

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#### Client: Carmona Resources Project/Site: Tonto 15 State #1

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Job ID: 880-31278-1 SDG: Lea County, New Mexico

ND

NEG

POS

PQL

PRES

QC

RER

RPD

TEF

TEQ TNTC

RL

Qualifiers		 3
GC VOA		
Qualifier	Qualifier Description	
S1-	Surrogate recovery exceeds control limits, low biased.	
U	Indicates the analyte was analyzed for but not detected.	5
GC Semi VOA		
Qualifier	Qualifier Description	
*_	LCS and/or LCSD is outside acceptance limits, low biased.	
U	Indicates the analyte was analyzed for but not detected.	
Glossary		0
Abbreviation	These commonly used abbreviations may or may not be present in this report.	0
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis	Q
%R	Percent Recovery	3
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)	13
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	

Negative / Absent

Positive / Present

Presumptive

Quality Control

Practical Quantitation Limit

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin) Toxicity Equivalent Quotient (Dioxin)

Too Numerous To Count

Reporting Limit or Requested Limit (Radiochemistry)

Relative Percent Difference, a measure of the relative difference between two points

Not Detected at the reporting limit (or MDL or EDL if shown)

Job ID: 880-31278-1 SDG: Lea County, New Mexico

#### Job ID: 880-31278-1

#### Laboratory: Eurofins Midland

#### Narrative

Job Narrative 880-31278-1

#### Receipt

The sample was received on 7/26/2023 4:45 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.5°C

#### **Receipt Exceptions**

The following sample was received and analyzed from an unpreserved bulk soil jar: S-3 (3') (880-31278-1).

#### GC VOA

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-59172 recovered above the upper control limit for Benzene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 880-59172/20).

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-59110 and analytical batch 880-59172 was outside the upper control limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: S-3 (3') (880-31278-1). 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: The laboratory control sample (LCS) associated with preparation batch 880-59369 and analytical batch 880-59409 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.

4

5

Job ID: 880-31278-1 SDG: Lea County, New Mexico

#### Lab Sample ID: 880-31278-1

Matrix: Solid

5

#### Client: Carmona Resources Project/Site: Tonto 15 State #1

#### Client Sample ID: S-3 (3') Date Collected: 07/25/23 00:00 Date Received: 07/26/23 16:45

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		08/01/23 09:01	08/03/23 22:59	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/01/23 09:01	08/03/23 22:59	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/01/23 09:01	08/03/23 22:59	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		08/01/23 09:01	08/03/23 22:59	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		08/01/23 09:01	08/03/23 22:59	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		08/01/23 09:01	08/03/23 22:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130				08/01/23 09:01	08/03/23 22:59	1
1,4-Difluorobenzene (Surr)	57	S1-	70 - 130				08/01/23 09:01	08/03/23 22:59	1
Total BTEX - Method: SW846 8015 NM - Diese	<0.00403 I Range Organ		0.00403 GC)		mg/Kg			08/04/23 10:48	I
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.2	U	50.2		mg/Kg			08/07/23 10:15	1
Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.2	U *-	50.2		mg/Kg		08/04/23 17:30	08/06/23 15:26	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2		mg/Kg		08/04/23 17:30	08/06/23 15:26	1
Oll Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		08/04/23 17:30	08/06/23 15:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
canogato									
1-Chlorooctane	87		70 - 130				08/04/23 17:30	08/06/23 15:26	1

Eurofins Midland

Released to Imaging: 11/6/2023 11:57:53 AM

Client: Carmona Resources Project/Site: Tonto 15 State #1

Job ID: 880-31278-1 SDG: Lea County, New Mexico

Prep Type: Total/NA

Prep Type: Total/NA

#### Method: 8021B - Volatile Organic Compounds (GC) Matrix: Solid

				Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1		
Lab Sample ID	Client Sample ID	(70-130)	(70-130)		
880-31278-1	S-3 (3')	86	57 S1-		
880-31278-1 MS	S-3 (3')	121	124		6
880-31278-1 MSD	S-3 (3')	119	91		
LCS 880-58969/1-A	Lab Control Sample	115	111		
LCSD 880-58969/2-A	Lab Control Sample Dup	114	109		
MB 880-58969/5-A	Method Blank	73	79		5
MB 880-59110/5-A	Method Blank	68 S1-	100		
Surrogate Legend					0

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

#### Matrix: Solid

				Percent Surrogate Recovery (Acceptance Limits)		
		1CO1	OTPH1			
ample ID	Client Sample ID	(70-130)	(70-130)			
78-1	S-3 (3')	87	89			
664-A-2-F MS	Matrix Spike	123	104			
64-A-2-G MSD	Matrix Spike Duplicate	128	112			
)-59369/2-A	Lab Control Sample	93	94			
80-59369/3-A	Lab Control Sample Dup	85	82			
80-59369/1-A	Method Blank	88	94			

#### Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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#### **QC Sample Results**

Client: Carmona Resources Project/Site: Tonto 15 State #1

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

Lab Sample ID: MB 880-58969/5-A	
Matrix: Solid	

Analysis Batch: 59172

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/01/23 09:01	08/03/23 22:38	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/01/23 09:01	08/03/23 22:38	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/01/23 09:01	08/03/23 22:38	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/01/23 09:01	08/03/23 22:38	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/01/23 09:01	08/03/23 22:38	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/01/23 09:01	08/03/23 22:38	1
	МВ	МВ							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	73		70 - 130				08/01/23 09:01	08/03/23 22:38	1
1,4-Difluorobenzene (Surr)	79		70 - 130				08/01/23 09:01	08/03/23 22:38	1

#### Lab Sample ID: LCS 880-58969/1-A Matrix: Solid

#### Analysis Batch: 59172

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09442		mg/Kg		94	70 - 130	
Toluene	0.100	0.08693		mg/Kg		87	70 - 130	
Ethylbenzene	0.100	0.1010		mg/Kg		101	70 - 130	
m-Xylene & p-Xylene	0.200	0.2099		mg/Kg		105	70 - 130	
o-Xylene	0.100	0.1041		mg/Kg		104	70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	115		70 - 130
1,4-Difluorobenzene (Surr)	111		70 - 130

#### Lab Sample ID: LCSD 880-58969/2-A

#### Matrix: Solid

						Prep	Batch:	58969
Spike	LCSD	LCSD				%Rec		RPD
Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
0.100	0.08592		mg/Kg		86	70 - 130	9	35
0.100	0.08219		mg/Kg		82	70 - 130	6	35
0.100	0.08963		mg/Kg		90	70 - 130	12	35
0.200	0.1870		mg/Kg		94	70 - 130	12	35
0.100	0.09268		mg/Kg		93	70 - 130	12	35
	Added 0.100 0.100 0.100 0.100 0.200	Added         Result           0.100         0.08592           0.100         0.08219           0.100         0.08963           0.200         0.1870	Added         Result         Qualifier           0.100         0.08592         -           0.100         0.08219         -           0.100         0.08963         -           0.200         0.1870         -	Added         Result         Qualifier         Unit           0.100         0.08592         mg/Kg           0.100         0.08219         mg/Kg           0.100         0.08963         mg/Kg           0.200         0.1870         mg/Kg	Added         Result         Qualifier         Unit         D           0.100         0.08592         mg/Kg           0.100         0.08219         mg/Kg           0.100         0.08963         mg/Kg           0.200         0.1870         mg/Kg	Added         Result         Qualifier         Unit         D         %Rec           0.100         0.08592         mg/Kg         86           0.100         0.08219         mg/Kg         82           0.100         0.08963         mg/Kg         90           0.200         0.1870         mg/Kg         94	Spike         LCSD         LCSD         %Rec           Added         Result         Qualifier         Unit         D         %Rec         Limits           0.100         0.08592         mg/Kg         86         70 - 130           0.100         0.08219         mg/Kg         82         70 - 130           0.100         0.08963         mg/Kg         90         70 - 130           0.200         0.1870         mg/Kg         94         70 - 130	Added         Result         Qualifier         Unit         D         %Rec         Limits         RPD           0.100         0.08592         mg/Kg         86         70 - 130         9           0.100         0.08219         mg/Kg         82         70 - 130         6           0.100         0.08963         mg/Kg         90         70 - 130         12           0.200         0.1870         mg/Kg         94         70 - 130         12

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

#### Lab Sample ID: 880-31278-1 MS Matrix: Solid

#### Analysis Batch: 59172

Analysis Batch: 59172									Prep	Batch: 58969
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	< 0.00202	U	0.0994	0.1002		mg/Kg		101	70 - 130	
Toluene	<0.00202	U	0.0994	0.09371		mg/Kg		94	70 - 130	

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Client Sample ID: S-3 (3')

Prep Type: Total/NA

**Client Sample ID: Method Blank** 

Prep Type: Total/NA

Prep Batch: 58969

0.0	0400	mg/K	g	08/0	1/23 09:01	08/03/23 22:38	1
0.0	0200	mg/K	g	08/0	1/23 09:01	08/03/23 22:38	1
0.0	0400	mg/K	g	08/0	1/23 09:01	08/03/23 22:38	1
Limi	ts			P	repared	Analyzed	Dil Fac
70 - 1	130			08/0	1/23 09:01	08/03/23 22:38	1
70 - 1	130			08/0	1/23 09:01	08/03/23 22:38	1
				Client	Sample	ID: Lab Control Prep Type: 1 Prep Batch	Total/NA
Spike	LCS	LCS				%Rec	
Added	Result	Qualifier	Unit	D	%Rec	Limits	
0.100	0.09442		mg/Kg		94	70 - 130	
0.100	0.08693		mg/Kg		87	70 - 130	
0.100	0.1010		mg/Kg		101	70 - 130	
0.200	0.2099		mg/Kg		105	70 - 130	
0.100	0.1041		mg/Kg		104	70 - 130	
imits							
70 - 130							

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Client: Carmona Resources

Project/Site: Tonto 15 State #1

#### Job ID: 880-31278-1 SDG: Lea County, New Mexico

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

Lab Sample ID: 880-31278-1	CIVI S										C	lient Samp		
Matrix: Solid												Prep Ty	-	
Analysis Batch: 59172	<b>.</b>	~		0.1									Batch:	5896
A	Sample	•		Spike	MS	MS		1114		-	0/ D	%Rec		
Analyte	Result	-	tier	Added	Result	Qual	lifier	Unit			%Rec	Limits		
Ethylbenzene		U		0.0994	0.1030			mg/Kg			104	70 - 130		
m-Xylene & p-Xylene	<0.00403			0.199	0.2125			mg/Kg			107	70 - 130		
o-Xylene	<0.00202	U		0.0994	0.1040			mg/Kg			105	70 - 130		
•	MS		<b>e</b> -											
Surrogate		Quali	tier	Limits 70 - 130										
4-Bromofluorobenzene (Surr)	121													
1,4-Difluorobenzene (Surr)	124			70 - 130										
Lab Sample ID: 880-31278-1	MSD										С	lient Samp		
Matrix: Solid												Prep Ty	-	
Analysis Batch: 59172												Prep	Batch:	
	Sample	Samp	le	Spike	MSD	MSD	)					%Rec		RPD
Analyte	Result	Qualif	fier	Added	Result	Qua	lifier	Unit		D	%Rec	Limits	RPD	Limi
Benzene	<0.00202	U		0.0998	0.09502			mg/Kg			95	70 - 130	5	35
Toluene	<0.00202	U		0.0998	0.09100			mg/Kg			91	70 - 130	3	3
Ethylbenzene	<0.00202	U		0.0998	0.1021			mg/Kg			102	70 - 130	1	3
m-Xylene & p-Xylene	<0.00403	U		0.200	0.2097			mg/Kg			105	70 - 130	1	3
o-Xylene	<0.00202	U		0.0998	0.1024			mg/Kg			103	70 - 130	2	3
	MSD	MSD												
Surrogate	%Recovery	Qualit	fier	Limits										
4-Bromofluorobenzene (Surr)	119			70 - 130										
1,4-Difluorobenzene (Surr)	91			70 - 130										
Lab Sample ID: MB 880-5911	10/5-A										Client Sa	ample ID: N	lethod	Blank
Matrix: Solid												Prep Ty		
Analysis Batch: 59172													Batch:	
		MB	мв											
Analyte	Res	sult	Qualifier	RL		MDL	Unit		D	Pr	epared	Analyze	d	Dil Fac
Benzene	<0.002	200	U	0.00200			mg/K	g	_	08/02	2/23 11:14	08/03/23 1	1:30	
Toluene	<0.002	200	U	0.00200			mg/K	-		08/02	2/23 11:14	08/03/23 1	1:30	
Ethylbenzene	<0.00	200	U	0.00200			mg/K			08/02	2/23 11:14	08/03/23 1	1:30	
m-Xylene & p-Xylene	<0.004	400	U	0.00400			mg/K			08/02	2/23 11:14	08/03/23 1	1:30	,
o-Xylene	<0.00			0.00200			mg/K				2/23 11:14	08/03/23 1		
Xylenes, Total	<0.004			0.00400			mg/K	-			2/23 11:14	08/03/23 1		1
		ΜΒ	МВ											
	% Pocov	very	Qualifier	Limits						Pi	repared	Analyze	d	Dil Fa
Surrogate	/onecov										2/23 11:14	08/03/23 1		
		68	S1-	70 - 130								00,00,20 1		
Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr)		68 100	S1-	70 - 130 70 - 130							2/23 11:14	08/03/23 1		

Lab Sample ID: MB 880-59369/1-A Matrix: Solid							Client Sa	mple ID: Metho Prep Type: 1	
Analysis Batch: 59409								Prep Batch	n: <b>59369</b>
	MB	МВ							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		08/04/23 17:29	08/06/23 08:16	1
(GRO)-C6-C10									

Job ID: 880-31278-1 SDG: Lea County, New Mexico

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

Lab Sample ID: MB 880-59369/ Matrix: Solid										Client S	ample ID:	Metho Type: 1	
Analysis Batch: 59409												p Batch	
Analysis Batch. 33403	м	в мв									FIE	p Datei	1. 5550
Analyte		It Qualifier	RL		MDL	Unit		D	Pr	epared	Analy	/zed	Dil Fa
Diesel Range Organics (Over						mg/Kg		-		4/23 17:29			
C10-C28)						0.0							
Oll Range Organics (Over C28-C36)	<50.	0 U	50.0			mg/Kg	l		08/04	4/23 17:29	08/06/23	8 08:16	
	М	B MB											
Surrogate	%Recover	y Qualifier	Limits						Pi	repared	Analy	/zed	Dil Fa
1-Chlorooctane	8	8	70 - 130						08/04	4/23 17:29	08/06/23	3 08:16	
o-Terphenyl	S	4	70 - 130						08/04	4/23 17:29	08/06/23	3 08:16	
Lab Sample ID: LCS 880-59369	9/2-A							C	lient	Sample	ID: Lab C	Control	Sample
Matrix: Solid										- C		Type: 1	
Analysis Batch: 59409												p Batch	
			Spike	LCS	LCS						%Rec		
Analyte			Added	Result	Qua	lifier	Unit		D	%Rec	Limits		
Gasoline Range Organics			1000	661.8	*-		mg/Kg			66	70 - 130		
(GRO)-C6-C10			1000	070.0						07	70 400		
Diesel Range Organics (Over C10-C28)			1000	873.3			mg/Kg			87	70 - 130		
	LCS LC	s											
Surrogate	%Recovery Q	alifier	Limits										
			70 - 130										
1-Chlorooctane	93												
1-Chlorooctane o-Terphenyl	94		70 - 130				Cli	ent	Sam	nle ID: I	ah Contr	ol Sam	nle Dui
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-5936 Matrix: Solid	94						Cli	ent	Sam	ple ID: L	Pre	ol Sam Type: 1 p Batch	otal/N/ n: 5936
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-5936 Matrix: Solid Analysis Batch: 59409	94		Spike	LCSD				ent		-	Prep Pre %Rec	Type: 1 p Batch	fotal/N/ n: 59369 RPI
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-5936 Matrix: Solid Analysis Batch: 59409 Analyte	94		Spike Added	Result	Qua		Unit	ent	Sam	%Rec	Prep Pre %Rec Limits	Type: 1 p Batch	rotal/N/ n: 5936 RPI Lim
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-5936 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics	94		Spike		Qua			ent		-	Prep Pre %Rec	Type: 1 p Batch	rotal/N/ n: 5936 RPI Lim
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-5936 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	94		Spike Added	Result	Qua		Unit	ent		%Rec	Prep Pre %Rec Limits	Type: 1 p Batch	<b>Fotal/N/</b> <b>1: 5936</b> <b>RPI</b> <b>0</b> Lim 2
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-5936 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	94 69/3-A		Spike Added 1000	Result 660.9	Qua		<mark>Unit</mark> mg/Kg	ent		%Rec 66	Prep Prej %Rec Limits 70 - 130	Type: 1 p Batch RPC	<b>Fotal/N/</b> <b>1: 5936</b> <b>RPI</b> <b>0</b> Lim 2
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-5936 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	94 69/3-A 		<b>Spike</b> <b>Added</b> 1000 1000	Result 660.9	Qua		<mark>Unit</mark> mg/Kg	ent		%Rec 66	Prep Prej %Rec Limits 70 - 130	Type: 1 p Batch RPC	<b>Fotal/N/</b> <b>1: 5936</b> <b>RPI</b> <b>0</b> Lim 2
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-5936 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate	94 69/3-A 		Spike           Added           1000           1000           Limits	Result 660.9	Qua		<mark>Unit</mark> mg/Kg	ent		%Rec 66	Prep Prej %Rec Limits 70 - 130	Type: 1 p Batch RPC	<b>Fotal/N/</b> <b>1: 5936</b> <b>RPI</b> <b>0</b> Lim 2
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-5936 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane	94 69/3-A 		Spike           Added           1000           1000           Limits           70 - 130	Result 660.9	Qua		<mark>Unit</mark> mg/Kg	ent .		%Rec 66	Prep Prej %Rec Limits 70 - 130	Type: 1 p Batch RPC	<b>Fotal/N/</b> <b>1: 5936</b> <b>RPI</b> <b>0</b> Lim 2
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-5936 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate	94 69/3-A 		Spike           Added           1000           1000           Limits	Result 660.9	Qua		<mark>Unit</mark> mg/Kg	ent		%Rec 66	Prep Prej %Rec Limits 70 - 130	Type: 1 p Batch RPC	<b>Fotal/N/</b> <b>1: 5936</b> <b>RPI</b> <b>0</b> Lim 2
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-5936 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane	94 69/3-A 		Spike           Added           1000           1000           Limits           70 - 130	Result 660.9	Qua		<mark>Unit</mark> mg/Kg	ent		<b>%Rec</b> 66 85	Prep Prej %Rec Limits 70 - 130	Type: 1 p Batch RPE	<b>otal/N/</b> <b>i: 5936</b> <b>RPI</b> <b>0</b> <b>1</b> <b>1</b> <b>2</b> <b>3</b> <b>2</b>
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-5936 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl	94 69/3-A 		Spike           Added           1000           1000           Limits           70 - 130	Result 660.9	Qua		<mark>Unit</mark> mg/Kg	ent		<b>%Rec</b> 66 85	Prep           %Rec           Limits           70 - 130           70 - 130           Sample II	Type: 1 p Batch RPE	<b>otal/N/ i: 5936</b> <b>RPI</b> <b>0</b> <b>1</b> <b>1</b> <b>2</b> <b>2</b> <b>3</b> <b>2</b> <b>3</b> <b>2</b> <b>3</b> <b>2</b> <b>3</b> <b>2</b> <b>3</b> <b>3</b> <b>3</b> <b>3</b> <b>4</b> <b>5</b> <b>1</b> <b>1</b> <b>1</b> <b>1</b> <b>1</b> <b>1</b> <b>1</b> <b>1</b>
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-5936 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 880-31664-A-2-	94 69/3-A 		Spike           Added           1000           1000           Limits           70 - 130	Result 660.9	Qua		<mark>Unit</mark> mg/Kg	ent		<b>%Rec</b> 66 85	Prep Pre %Rec Limits 70 - 130 70 - 130 70 - 130	Type: 1 p Batch RPE ( 3 ) ) : Matri	otal/N/ 1: 59363 RPI 2 3 2 3 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-5936 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 880-31664-A-2- Matrix: Solid	94 69/3-A 	mple	Spike           Added           1000           1000           Limits           70 - 130	Result 660.9 845.2	Qua		<mark>Unit</mark> mg/Kg	lent		<b>%Rec</b> 66 85	Prep Pre %Rec Limits 70 - 130 70 - 130 70 - 130	Type: 1 p Batch	otal/N/ 1: 59363 RPI 2 3 2 3 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-5936 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 880-31664-A-2- Matrix: Solid Analysis Batch: 59409 Analyte	94 69/3-A 	mple alifier	Spike           Added           1000           1000           1000           1000           1000           1000           1000           1000           1000           1000           1000           1000           50 - 130           70 - 130           Spike           Added	Result           660.9           845.2           MS           Result	Quai *-	lifier	Unit mg/Kg mg/Kg	ent		%Rec 66 85 Client	Prep Pre %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130 8 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	Type: 1 p Batch	otal/N/ 1: 59363 RPI 2 3 2 3 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-5936 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 880-31664-A-2- Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics	94 69/3-A 	mple alifier	Spike           Added           1000           1000           1000           1000           1000           1000           1000           1000           1000           1000           1000           1000           1000           500           500           Spike	Result 660.9 845.2 MS	Quai *-	lifier	Unit mg/Kg mg/Kg	ent	<u>D</u> .	%Rec 66 85 Client	Prep Pre %Rec Limits 70 - 130 70 - 130 70 - 130 Sample II Prep Pre %Rec	Type: 1 p Batch	otal/N/ 1: 59363 RPI 2 3 2 3 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-5936 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 880-31664-A-2- Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10	94 69/3-A 	mple alifier	Spike           Added           1000           1000           1000           1000           1000           1000           1000           1000           1000           1000           1000           500           500           Spike           Added           993	Result           660.9           845.2           MS           Result           876.9	Quai *-	lifier	Unit mg/Kg mg/Kg <u>Unit</u> mg/Kg	ent	<u>D</u> .	%Rec 66 85 Client %Rec 86	Prep           %Rec           Limits           70 - 130           70 - 130           Sample II           Prep           %Rec           Limits           70 - 130	Type: 1 p Batch	otal/N/ 1: 59363 RPI 2 3 2 3 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-5936 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 880-31664-A-2- Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	94 69/3-A 	mple alifier	Spike           Added           1000           1000           1000           1000           1000           1000           1000           1000           1000           1000           1000           1000           50 - 130           70 - 130           Spike           Added	Result           660.9           845.2           MS           Result	Quai *-	lifier	Unit mg/Kg mg/Kg	ent	<u>D</u> .	%Rec 66 85 Client	Prep Pre %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130 8 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	Type: 1 p Batch	otal/N/ 1: 59363 RPI 2 3 2 3 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-5936 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 880-31664-A-2- Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	94 69/3-A 	mple Malifier	Spike           Added           1000           1000           1000           1000           1000           1000           1000           1000           1000           1000           1000           500           500           Spike           Added           993	Result           660.9           845.2           MS           Result           876.9	Quai *-	lifier	Unit mg/Kg mg/Kg <u>Unit</u> mg/Kg	ent	<u>D</u> .	%Rec 66 85 Client %Rec 86	Prep           %Rec           Limits           70 - 130           70 - 130           Sample II           Prep           %Rec           Limits           70 - 130	Type: 1 p Batch	otal/N/ 1: 59363 RPI 2 3 2 3 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-5936 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 880-31664-A-2- Matrix: Solid Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate	94 69/3-A <i>LCSD</i> LC %Recovery Qu 85 82 -F MS -F MS Sample Sa Result Qu <50.3 U 61.5 <i>MS M.</i> % <i>Recovery</i> Qu	mple ialifier	Spike         Added         1000	Result           660.9           845.2           MS           Result           876.9	Quai *-	lifier	Unit mg/Kg mg/Kg <u>Unit</u> mg/Kg	ent	<u>D</u> .	%Rec 66 85 Client %Rec 86	Prep           %Rec           Limits           70 - 130           70 - 130           Sample II           Prep           %Rec           Limits           70 - 130	Type: 1 p Batch	otal/N/ 1: 59363 RPI 2 3 2 3 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5
1-Chlorooctane o-Terpheny/ Lab Sample ID: LCSD 880-5936 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terpheny/ Lab Sample ID: 880-31664-A-2- Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	94 69/3-A 	mple Malifier	Spike           Added           1000           1000           1000           1000           1000           1000           1000           1000           1000           1000           1000           1000           1000           Limits           70 - 130           70 - 130           Spike           Added           993           993	Result           660.9           845.2           MS           Result           876.9	Quai *-	lifier	Unit mg/Kg mg/Kg <u>Unit</u> mg/Kg	ent	<u>D</u>	%Rec 66 85 Client %Rec 86	Prep           %Rec           Limits           70 - 130           70 - 130           Sample II           Prep           %Rec           Limits           70 - 130	Type: 1 p Batch	otal/N/ 1: 59363 RPI 2 3 2 3 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5

#### **QC Sample Results**

Client: Carmona Resources Project/Site: Tonto 15 State #1 Job ID: 880-31278-1 SDG: Lea County, New Mexico

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

Analysis Batch: 59409			•							Batch:		
• • •	-	Sample	Spike		MSD		_		%Rec		RPD	
Analyte		Qualifier	Added		Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10	<50.3	U *-	992	918.4		mg/Kg		91	70 - 130	5	20	
Diesel Range Organics (Over	61.5		992	1254		mg/Kg		120	70 - 130	6	20	
C10-C28)												
	MSD	MSD										
Surrogate	%Recovery	Qualifier	Limits									2
1-Chlorooctane	128		70 - 130									
o-Terphenyl	112		70 - 130									

**Client Sample ID** 

Lab Control Sample

**Client Sample ID** 

**Client Sample ID** 

Method Blank

Method Blank

Lab Control Sample

Lab Control Sample Dup

S-3 (3')

S-3 (3')

S-3 (3')

Method Blank

Lab Control Sample Dup

Method Blank

S-3 (3')

S-3 (3')

S-3 (3')

#### **QC** Association Summary

Prep Type

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Prep Type

Prep Type

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Matrix

Solid

Solid

Solid

Solid

Solid

Solid

Matrix

Solid

Matrix

Solid

Solid

Solid

Solid

Solid

Solid

Solid

Solid

Client: Carmona Resources Project/Site: Tonto 15 State #1

**GC VOA** 

Prep Batch: 58969

MB 880-58969/5-A

LCS 880-58969/1-A

880-31278-1 MS

880-31278-1 MSD

Prep Batch: 59110

Lab Sample ID

Lab Sample ID

MB 880-58969/5-A

MB 880-59110/5-A

LCS 880-58969/1-A

880-31278-1 MS

880-31278-1 MSD

LCSD 880-58969/2-A

880-31278-1

MB 880-59110/5-A

Analysis Batch: 59172

LCSD 880-58969/2-A

Lab Sample ID

880-31278-1

Job ID: 880-31278-1 SDG: Lea County, New Mexico

Method

5035

5035

5035

5035

5035

5035

Method

Method

8021B

8021B

8021B

8021B

8021B

8021B

8021B

8015 NM

5035

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Prep Batch

Prep Batch

Prep Batch

58969

58969 59110

58969

58969

58969

58969

# 8

Analysis Batch: 59315

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
880-31278-1	S-3 (3')	Total/NA	Solid	Total BTEX	

#### GC Semi VOA

#### Prep Batch: 59369

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31278-1	S-3 (3')	Total/NA	Solid	8015NM Prep	
MB 880-59369/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-59369/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-59369/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-31664-A-2-F MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-31664-A-2-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 59409

880-31278-1

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
880-31278-1	S-3 (3')	Total/NA	Solid	8015B NM	59369
MB 880-59369/1-A	Method Blank	Total/NA	Solid	8015B NM	59369
LCS 880-59369/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	59369
LCSD 880-59369/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	59369
880-31664-A-2-F MS	Matrix Spike	Total/NA	Solid	8015B NM	59369
880-31664-A-2-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	59369
Analysis Batch: 59480					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch

Total/NA

S-3 (3')

9

Job ID: 880-31278-1 SDG: Lea County, New Mexico

#### Lab Sample ID: 880-31278-1 Matrix: Solid

#### Client Sample ID: S-3 (3') Date Collected: 07/25/23 00:00 Date Received: 07/26/23 16:45

Client: Carmona Resources

Project/Site: Tonto 15 State #1

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	58969	08/01/23 09:01	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	59172	08/03/23 22:59	SM	EET MID
Total/NA	Analysis	Total BTEX		1			59315	08/04/23 10:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			59480	08/07/23 10:15	SM	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	59369	08/04/23 17:30	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59409	08/06/23 15:26	SM	EET MID

#### Laboratory References:

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

Eurofins Midland

Released to Imaging: 11/6/2023 11:57:53 AM

Client: Carmona Resources Project/Site: Tonto 15 State #1 Job ID: 880-31278-1

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SDG: Lea County, New Mexico

#### Laboratory: Eurofins Midland

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

uthority	Program		Identification Number	Expiration Date
exas	N	IELAP	T104704400-23-26	06-30-24
The following analytes	are included in this report, b	out the laboratory is not certif	ied by the governing authority. This list ma	ay include analytes for w
the agency does not of	fer certification.			
the agency does not of Analysis Method	fer certification. Prep Method	Matrix	Analyte	
0,		Matrix Solid	Analyte Total TPH	· · ·

#### **Method Summary**

#### Client: Carmona Resources Project/Site: Tonto 15 State #1

Job ID: 880-31278-1 SDG: Lea County, New Mexico

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
Protocol Refe	rences:		
	"Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third E = TestAmerica Laboratories, Standard Operating Procedure	Edition, November 1986 And Its Updates.	
TAL SOP	- TestAmenca Laboratories, Standard Operating Procedure		
Laboratory R	eferences:		
Laboratory R		0	
Laboratory R	eferences:	0	
Laboratory R	eferences:	0	
Laboratory R	eferences:	0	
Laboratory R	eferences:	0	
Laboratory R	eferences:	0	
Laboratory R	eferences:	0	

#### Protocol References:

#### Laboratory References:

#### Sample Summary

Client: Carmona Resources Project/Site: Tonto 15 State #1 Job ID: 880-31278-1 SDG: Lea County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-31278-1	S-3 (3')	Solid	07/25/23 00:00	07/26/23 16:45



#### PO # Sampler's Name Phone Comments Email results to Mike Carmona mcarmona@carmonaresources com, Conner Moehring cmoehring@carmonaresources com, Clint MerrittC@carmonaresources com SAMPLE RECEIPT Project Location Project Number Project Name City, State ZIP **Fotal Containers** Received Intact: Company Name Project Manager ample Custody Seals Address. poler Custody Seals. Sample Identification E S-3 (3') Carmona Resources Midland, TX 79701 310 W Wall St Ste 500 Clinton Merritt Yes No Yes No ea County New Mexico Temp Blank Kes Tonto 15 State #1 Relinquished by (Signature) 7 25 23 No CCM 2089 Date 係 Ŧ D Corrected Temperature Correction Factor Thermometer ID emperature Reading Yes No Time マ Routine Due Date Wet Ice Soil × Email Turn Around msanjari@marathonoil Address Bill to (if different) City, State ZIP Water Company Name Rush 5 day Comp Grab/ G # of Pres. Code Parameters com Date/Time 16-23 Houston\_TX 77024 990 Town and Country Blvd Marathon Oil Corporation Melodie Sanjari BTEX 8021B × TPH 8015M ( GRO + DRO + MRO) × Chloride 300 0 ANALYSIS REQUEST 880-31278 Chain of Custody Received by (Signature) Reporting Level II Level III ST/UST State of Project Program UST/PST PRP prownfields RC Deliverables EDD Work Order Comments ADaPT H<sub>2</sub>S0<sub>4</sub> H<sub>2</sub> HCT HC NaOH+Ascorbic Acid SAPC Zn Acetate+NaOH Zn Na-S-O3 NaSO3 NaHSO4 NABIS H PO4 HP Cool Cool None NO Page Sample Comments Preservative Codes Other Date/Time HNO3 HN NaOH Na MeOH Me Level IV DI Water H<sub>2</sub>O perfund <u>े</u>

#### Received by OCD: 9/21/2023 6:16:51 AM

#### 8/7/2023

Work Order No:

60

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N.

e,

5

Job Number: 880-31278-1

List Source: Eurofins Midland

SDG Number: Lea County, New Mexico

#### Login Sample Receipt Checklist

Client: Carmona Resources

Login Number: 31278 List Number: 1 Creator: Rodriguez, Leticia

<6mm (1/4").

Question Answer Comment The cooler's custody seal, if present, is intact. N/A N/A Sample custody seals, if present, are intact. The cooler or samples do not appear to have been compromised or True tampered with. Samples were received on ice. True True Cooler Temperature is acceptable. 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 True HTs) 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 True MS/MSDs

N/A

Containers requiring zero headspace have no headspace or bubble is

Received by OCD: 9/21/2023 6:16:51 AM



**Environment Testing** 

# **ANALYTICAL REPORT**

### PREPARED FOR

Attn: Clint Merritt Carmona Resources 310 W Wall St Ste 500 Midland, Texas 79701 Generated 8/7/2023 12:40:43 PM

#### **JOB DESCRIPTION**

Tonto 15 State #1 SDG NUMBER Lea County, New Mexico

#### **JOB NUMBER**

880-31281-1

Eurofins Midland 1211 W. Florida Ave Midland TX 79701

See page two for job notes and contact information.

### **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

AMER

Generated 8/7/2023 12:40:43 PM

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

Eurofins Midland is a laboratory within Eurofins Environment Testing South Central, LLC, a company within Eurofins Environment Testing Group of Companies

Laboratory Job ID: 880-31281-1 SDG: Lea County, New Mexico

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#### **Definitions/Glossary**

#### Client: Carmona Resources Project/Site: Tonto 15 State #1

Job ID: 880-31281-1 SDG: Lea County, New Mexico

Qual	ifiers
------	--------

Qualifiers		3
GC VOA		
Qualifier	Qualifier Description	
U	Indicates the analyte was analyzed for but not detected.	
GC Semi VOA		5
Qualifier	Qualifier Description	
*_	LCS and/or LCSD is outside acceptance limits, low 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.	8
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis	
%R	Percent Recovery	Q
CFL	Contains Free Liquid	3
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)	13
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	

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Job ID: 880-31281-1 SDG: Lea County, New Mexico

#### Job ID: 880-31281-1

Client: Carmona Resources

Project/Site: Tonto 15 State #1

#### Laboratory: Eurofins Midland

#### Narrative

Job Narrative 880-31281-1

#### Receipt

The sample was received on 7/26/2023 4:45 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.5°C

#### **Receipt Exceptions**

The following sample was received and analyzed from an unpreserved bulk soil jar: S-3 (0-1') (880-31281-1).

#### GC VOA

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

#### GC Semi VOA

Method 8015MOD\_NM: The laboratory control sample (LCS) associated with preparation batch 880-59369 and analytical batch 880-59409 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.

Matrix: Solid

5

Job ID: 880-31281-1 SDG: Lea County, New Mexico

Lab Sample ID: 880-31281-1

#### Client Sample ID: S-3 (0-1') Date Collected: 07/25/23 00:00

Date Received: 07/26/23 16:45

Client: Carmona Resources

Project/Site: Tonto 15 State #1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		08/01/23 09:18	08/02/23 23:11	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/01/23 09:18	08/02/23 23:11	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/01/23 09:18	08/02/23 23:11	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		08/01/23 09:18	08/02/23 23:11	1
p-Xylene	<0.00202	U	0.00202		mg/Kg		08/01/23 09:18	08/02/23 23:11	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		08/01/23 09:18	08/02/23 23:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130				08/01/23 09:18	08/02/23 23:11	1
1,4-Difluorobenzene (Surr)	105		70 - 130				08/01/23 09:18	08/02/23 23:11	1
Method: TAL SOP Total BTEX - To	otal BTEX Calo	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			08/03/23 09:53	1
Method: SW846 8015 NM - Diese	I Range Organ	ics (DRO) (	GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			08/07/23 10:15	1
Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics GRO)-C6-C10	<49.6	U *-	49.6		mg/Kg		08/04/23 17:30	08/06/23 17:10	
Diesel Range Organics (Over	<49.6	U	49.6		mg/Kg		08/04/23 17:30	08/06/23 17:10	
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		08/04/23 17:30	08/06/23 17:10	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	96		70 - 130				08/04/23 17:30	08/06/23 17:10	
	98		70 - 130				08/04/23 17:30	08/06/23 17:10	

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Client: Carmona Resources Project/Site: Tonto 15 State #1 Job ID: 880-31281-1 SDG: Lea County, New Mexico

#### Method: 8021B - Volatile Organic Compounds (GC) Matrix: Solid

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
ab Sample ID	Client Sample ID	(70-130)	(70-130)	
380-31279-A-1-A MS	Matrix Spike	103	100	
380-31279-A-1-B MSD	Matrix Spike Duplicate	108	104	
380-31281-1	S-3 (0-1')	107	105	
_CS 880-58971/1-A	Lab Control Sample	104	100	
_CSD 880-58971/2-A	Lab Control Sample Dup	95	103	
MB 880-58971/5-A	Method Blank	84	89	
	Method Blank	85	89	

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

#### Matrix: Solid

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
ample ID	Client Sample ID	(70-130)	(70-130)	
281-1	S-3 (0-1')	96	98	
64-A-2-F MS	Matrix Spike	123	104	
664-A-2-G MSD	Matrix Spike Duplicate	128	112	
59369/2-A	Lab Control Sample	93	94	
)-59369/3-A	Lab Control Sample Dup	85	82	
)-59369/1-A	Method Blank	88	94	

#### Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

nty, New Mexico

Prep Type: Total/NA

Prep Type: Total/NA

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#### **QC Sample Results**

Client: Carmona Resources Project/Site: Tonto 15 State #1

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

#### Lab Sample ID: MB 880-58971/5-A

Matrix: Solid Analysis Batch: 59072

-	МВ	МВ							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	< 0.00200	U	0.00200		mg/Kg		08/01/23 09:18	08/02/23 22:08	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/01/23 09:18	08/02/23 22:08	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/01/23 09:18	08/02/23 22:08	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/01/23 09:18	08/02/23 22:08	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/01/23 09:18	08/02/23 22:08	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/01/23 09:18	08/02/23 22:08	1
	МВ	МВ							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 130				08/01/23 09:18	08/02/23 22:08	1
1,4-Difluorobenzene (Surr)	89		70 - 130				08/01/23 09:18	08/02/23 22:08	1

#### Lab Sample ID: LCS 880-58971/1-A Matrix: Solid

#### Analysis Batch: 59072

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.07714		mg/Kg		77	70 - 130	
Toluene	0.100	0.1014		mg/Kg		101	70 - 130	
Ethylbenzene	0.100	0.08911		mg/Kg		89	70 - 130	
m-Xylene & p-Xylene	0.200	0.1753		mg/Kg		88	70 - 130	
o-Xylene	0.100	0.08985		mg/Kg		90	70 - 130	

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

#### Lab Sample ID: LCSD 880-58971/2-A

#### Matrix: Solid

Analysis Batch: 59072							Prep	Batch:	58971
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.08576		mg/Kg		86	70 - 130	11	35
Toluene	0.100	0.1000		mg/Kg		100	70 - 130	1	35
Ethylbenzene	0.100	0.08572		mg/Kg		86	70 - 130	4	35
m-Xylene & p-Xylene	0.200	0.1641		mg/Kg		82	70 - 130	7	35
o-Xylene	0.100	0.08388		mg/Kg		84	70 - 130	7	35

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

#### Lab Sample ID: 880-31279-A-1-A MS

#### Matrix: Solid Analysia Rataby 50072

Analysis Batch: 59072									Prep	o Batch: 589/1
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	< 0.00202	U	0.0996	0.07513		mg/Kg		75	70 - 130	
Toluene	<0.00202	U	0.0996	0.08995		mg/Kg		90	70 - 130	

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**Client Sample ID: Method Blank** 

Prep Type: Total/NA

Prep Batch: 58971

#### Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Type: Total/NA

#### **Client Sample ID: Matrix Spike** Prep Type: Total/NA Drop Botoby 59074

Client: Carmona Resources

Project/Site: Tonto 15 State #1

#### Job ID: 880-31281-1 SDG: Lea County, New Mexico

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

Lab Sample ID: 880-31279-A	A-1-A MS									Client S	Sample ID		
Matrix: Solid											Prep 1	Type: To	otal/NA
Analysis Batch: 59072											Prep	Batch:	5897
	Sample S	ample	Spike	MS	MS						%Rec		
Analyte	Result Q	ualifier	Added	Result	Qual	ifier	Unit		D	%Rec	Limits		
Ethylbenzene	<0.00202 U		0.0996	0.08100			mg/Kg			81	70 - 130		
m-Xylene & p-Xylene	<0.00403 U		0.199	0.1561			mg/Kg			78	70 - 130		
o-Xylene	<0.00202 U		0.0996	0.07987			mg/Kg			80	70 - 130		
	MS M	S											
Surrogate		ualifier	Limits										
4-Bromofluorobenzene (Surr)	103		70 - 130										
1,4-Difluorobenzene (Surr)	100		70 - 130										
Lab Sample ID: 880-31279-A	-1-B MSD							Clie	nt Sa	ample ID:	Matrix Sp		-
Matrix: Solid												Type: To	
Analysis Batch: 59072											Prep	Batch:	
	Sample S	ample	Spike	MSD	MSD						%Rec		RPD
Analyte	Result Q	ualifier	Added	Result	Qual	ifier	Unit		D	%Rec	Limits	RPD	Limi
Benzene	<0.00202 U		0.0994	0.07017			mg/Kg			71	70 - 130	7	3
Toluene	<0.00202 U		0.0994	0.08738			mg/Kg			88	70 - 130	3	3
Ethylbenzene	<0.00202 U		0.0994	0.07772			mg/Kg			78	70 - 130	4	3
m-Xylene & p-Xylene	<0.00403 U		0.199	0.1481			mg/Kg			75	70 - 130	5	3
o-Xylene	<0.00202 U		0.0994	0.07711			mg/Kg			78	70 - 130	4	3
	MSD M	SD											
Surrogate		ualifier	Limits										
4-Bromofluorobenzene (Surr)	108		70 - 130										
1,4-Difluorobenzene (Surr)	104		70 - 130										
Lab Sample ID: MB 880-589	98/ <b>5-A</b>									Client Sa	mple ID:	Method	l Blank
Matrix: Solid											Prep 1	Type: To	otal/N/
Analysis Batch: 59072											Prep	Batch:	58998
	N	IB MB											
Analyte	Res	ult Qualifier	RL	-	MDL	Unit		D	P	repared	Analyz	ed	Dil Fa
Benzene	<0.002	00 U	0.00200	)		mg/Kg		_	08/0	1/23 10:59	08/02/23	11:28	
Toluene	<0.002	00 U	0.00200	)		mg/Kg	l		08/0	1/23 10:59	08/02/23	11:28	
Ethylbenzene	< 0.002	00 U	0.00200	)		mg/Kg	I		08/0	1/23 10:59	08/02/23	11:28	
	<0.004	00 U	0.00400	)		mg/Kg	 		08/0	1/23 10:59	08/02/23	11:28	
m-Xylene & p-Xylene	-0.000	00 U	0.00200	)		mg/Kg	I		08/0	1/23 10:59	08/02/23	11:28	
m-Xylene & p-Xylene p-Xylene	<0.002			)		mg/Kg	I		08/0	1/23 10:59	08/02/23	11:28	
p-Xylene	<0.002	00 U	0.00400										
o-Xylene Kylenes, Total	<0.004	IB MB											
o-Xylene Kylenes, Total Surrogate	<0.004 M %Recove	IB MB ry Qualifier	Limits	-						repared	Analyz		
	<0.004 M	IB MB		-					08/0	<b>repared</b> 1/23 10:59 1/23 10:59	Analyz 08/02/23 08/02/23	11:28	Dil Fa

Lab Sample ID: MB 880-59369/1-A							Client Sa	mple ID: Metho	d Blank
Matrix: Solid								Prep Type: 1	Total/NA
Analysis Batch: 59409								Prep Batch	n: <b>59369</b>
	МВ	МВ							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		08/04/23 17:29	08/06/23 08:16	1

Eurofins Midland

(GRO)-C6-C10

Job ID: 880-31281-1 SDG: Lea County, New Mexico

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

Lab Sample ID: MB 880-59369 Matrix: Solid									, c	lient Sa	ample ID: Prep	метпос Туре: То	
Analysis Batch: 59409												Batch	
,	M	B MB											
Analyte	Resu	It Qualifie	RL		MDL	Unit		D	Pre	pared	Analy	zed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50	.0 U	50.0			mg/Kg				/23 17:29	08/06/23		1
Oll Range Organics (Over C28-C36)	<50	.0 U	50.0			mg/Kg			08/04/	/23 17:29	08/06/23	08:16	1
•		IB MB							_				<b>5</b>
Surrogate 1-Chlorooctane	%Recove	ry Qualifie	<u>Limits</u> 70 - 130					-		epared	Analy		Dil Fac
		94								/23 17:29	08/06/23 08/06/23		1
o-Terphenyl	2	14	70 - 130						00/04/	/23 17:29	06/06/23	06.10	
Lab Sample ID: LCS 880-5936	9/2-A							Cli	ient S	Sample	ID: Lab C		-
Matrix: Solid												Type: To	
Analysis Batch: 59409												Batch	59369
			Spike		LCS						%Rec		
Analyte			Added	Result		lifier	Unit		<u>D</u>	%Rec	Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	661.8	*-		mg/Kg			66	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	873.3			mg/Kg			87	70 - 130		
	LCS L												
Surrogate		ualifier	Limits										
			70 - 130										
	93 94		70 - 130										
o-Terphenyl Lab Sample ID: LCSD 880-593	94						Cli	ent S	Samp	ole ID: L	ab Contro Prep <sup>-</sup>	ol Samp Type: To	
o- <i>Terphenyl</i> Lab Sample ID: LCSD 880-593 Matrix: Solid	94						Cli	ent S	Samp	ole ID: L	Prep <sup>·</sup>	-	otal/NA
o- <i>Terphenyl</i> Lab Sample ID: LCSD 880-593 Matrix: Solid	94			LCSD	LCS	D	Cli	ent S	Samp	ble ID: L	Prep <sup>·</sup>	Type: To	otal/NA 59369
o-Terphenyl Lab Sample ID: LCSD 880-593 Matrix: Solid Analysis Batch: 59409	94		70 - 130	LCSD Result			Cli Unit	ient S		ole ID: L	Prep <sup>-</sup> Prep	Type: To	otal/NA 59369 RPD
o-Terphenyl Lab Sample ID: LCSD 880-593 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics	94		70 <sub>-</sub> 130 Spike		Qua			ient S			Prep Prep %Rec	Type: To Batch	otal/NA 59369 RPC Limi
o-Terphenyl Lab Sample ID: LCSD 880-593 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	94		70 <sub>-</sub> 130 Spike Added	Result	Qua		Unit	ent S		%Rec	Prep Prep %Rec Limits	Type: To Batch: 	<b>59369</b> <b>RPE</b> Limi
o-Terpheny/ Lab Sample ID: LCSD 880-593 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	94 69/3-A 		70 - 130 Spike Added 1000	Result 660.9	Qua		Unit mg/Kg	ient S		<u>%Rec</u>	Prep Prep %Rec Limits 70 - 130	Type: To b Batch: RPD 0	<b>59369</b> <b>RPE</b> Limi
o-Terpheny/ Lab Sample ID: LCSD 880-593 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate	94 69/3-A 		70 - 130  Spike Added  1000  1000  Limits	Result 660.9	Qua		Unit mg/Kg	ent S		<u>%Rec</u>	Prep Prep %Rec Limits 70 - 130	Type: To b Batch: RPD 0	<b>59369</b> <b>RPE</b> Limi
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-593 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane	94 69/3-A 		70 - 130  Spike Added  1000  1000  Limits 70 - 130	Result 660.9	Qua		Unit mg/Kg	ent S		<u>%Rec</u>	Prep Prep %Rec Limits 70 - 130	Type: To b Batch: RPD 0	tal/NA 59369 RPD Limit
o-Terphenyl Lab Sample ID: LCSD 880-593 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate	94 69/3-A 		70 - 130  Spike Added  1000  1000  Limits	Result 660.9	Qua		Unit mg/Kg	ient S		<u>%Rec</u>	Prep Prep %Rec Limits 70 - 130	Type: To b Batch: RPD 0	<b>59369</b> <b>RPD</b> Limit
o-Terphenyl Lab Sample ID: LCSD 880-593 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 880-31664-A-2	94 69/3-A 		70 - 130  Spike Added  1000  1000  Limits 70 - 130	Result 660.9	Qua		Unit mg/Kg	ient S		<mark>%Rec</mark> 66 85	Prep           %Rec           Limits           70 - 130           70 - 130	Type: To Batch: RPD 0 3 2: Matrix	c Spike
o-Terphenyl Lab Sample ID: LCSD 880-593 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 880-31664-A-2 Matrix: Solid	94 69/3-A 		70 - 130  Spike Added  1000  1000  Limits 70 - 130	Result 660.9	Qua		Unit mg/Kg	ient S		<mark>%Rec</mark> 66 85	Prep Prep %Rec Limits 70 - 130 70 - 130 70 - 130	Type: To Batch: RPD 0 3 2: Matrix Type: To	c Spike
o-Terphenyl Lab Sample ID: LCSD 880-593 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 880-31664-A-2 Matrix: Solid	94 69/3-A <u>LCSD L0</u> <u>%Recovery Q</u> 85 82 -F MS	ualifier	70 - 130 Spike Added 1000 1000 <u>Limits</u> 70 - 130 70 - 130	Result 660.9 845.2	Qual *-		Unit mg/Kg	ient S		<mark>%Rec</mark> 66 85	Prep %Rec Limits 70 - 130 70 - 130 70 - 130	Type: To Batch: RPD 0 3 2: Matrix	c Spike
o-Terpheny/ Lab Sample ID: LCSD 880-593 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terpheny/ Lab Sample ID: 880-31664-A-2 Matrix: Solid Analysis Batch: 59409	94 69/3-A 	ualifier	70 - 130  Spike Added  1000  1000  Limits  70 - 130  70 - 130  70 - 130  Spike	Result 660.9 845.2 MS	Quai *-	lifier	Unit mg/Kg mg/Kg	ient S	<u>D</u>	%Rec 66 85 Client \$	Prep %Rec Limits 70 - 130 70 - 130 70 - 130 Sample ID Prep %Rec	Type: To Batch: RPD 0 3 2: Matrix Type: To	c Spike
o-Terpheny/ Lab Sample ID: LCSD 880-593 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terpheny/ Lab Sample ID: 880-31664-A-2 Matrix: Solid Analyte	94 69/3-A <u>LCSD L0</u> <u>%Recovery Q</u> 85 82 -F MS	ualifier	70 - 130 Spike Added 1000 1000 <u>Limits</u> 70 - 130 70 - 130	Result 660.9 845.2	Quai *-	lifier	Unit mg/Kg	ient S	<u>D</u>	<mark>%Rec</mark> 66 85	Prep %Rec Limits 70 - 130 70 - 130 70 - 130	Type: To Batch: RPD 0 3 2: Matrix Type: To	c Spike
o-Terphenyl Lab Sample ID: LCSD 880-593 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 880-31664-A-2 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics	94 69/3-A 	ualifier	70 - 130         Spike         Added         1000         1000         1000         1000         1000         Spike         Added	Result           660.9           845.2           MS           Result	Quai *-	lifier	Unit mg/Kg mg/Kg		<u>D</u>	%Rec	Prep %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130 Prep %Rec Limits	Type: To Batch: RPD 0 3 2: Matrix Type: To	c Spike
o-Terphenyl Lab Sample ID: LCSD 880-593 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 880-31664-A-2 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	94 69/3-A 	ualifier	70 - 130         Spike         Added         1000         1000         1000         1000         1000         Spike         Added	Result           660.9           845.2           MS           Result	Quai *-	lifier	Unit mg/Kg mg/Kg	ient S	<u>D</u>	%Rec	Prep %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130 Prep %Rec Limits	Type: To Batch: RPD 0 3 2: Matrix Type: To	c Spike
o-Terphenyl Lab Sample ID: LCSD 880-593 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 880-31664-A-2 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	94 69/3-A 	ualifier ample ualifier *-	70 - 130         Spike         Added         1000         1000         1000         1000         1000         1000         1000         1000         1000         Spike         Added         993	Result           660.9           845.2           MS           Result           876.9	Quai *-	lifier	Unit mg/Kg mg/Kg <u>Unit</u> mg/Kg	ient S	<u>D</u>	%Rec	Prep %Rec Limits 70 - 130 70 - 130 70 - 130 Sample ID Prep %Rec Limits 70 - 130	Type: To Batch: RPD 0 3 2: Matrix Type: To	c Spike
o-Terphenyl Lab Sample ID: LCSD 880-593 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane	94 69/3-A <i>LCSD Lt</i> %Recovery Q 85 82 -F MS Sample Sa Result Q <50.3 U 61.5 <i>MS M</i>	ualifier ample ualifier *-	70 - 130         Spike         Added         1000         1000         1000         1000         1000         1000         1000         1000         1000         Spike         Added         993	Result           660.9           845.2           MS           Result           876.9	Quai *-	lifier	Unit mg/Kg mg/Kg <u>Unit</u> mg/Kg	ient S	<u>D</u>	%Rec	Prep %Rec Limits 70 - 130 70 - 130 70 - 130 Sample ID Prep %Rec Limits 70 - 130	Type: To Batch: RPD 0 3 2: Matrix Type: To	stal/NA 59369 RPD Limit 20 20 c Spike stal/NA
o-Terpheny/ Lab Sample ID: LCSD 880-593 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terpheny/ Lab Sample ID: 880-31664-A-2 Matrix: Solid Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	94 69/3-A <i>LCSD Lt</i> % <i>Recovery Q</i> 85 82 -F MS Sample Sa Result Q <50.3 U 61.5 <i>MS M</i>	ample ualifier *- S	70 - 130         Spike         Added         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         Spike         Added         993         993	Result           660.9           845.2           MS           Result           876.9	Quai *-	lifier	Unit mg/Kg mg/Kg <u>Unit</u> mg/Kg	ient S	<u>D</u>	%Rec	Prep %Rec Limits 70 - 130 70 - 130 70 - 130 Sample ID Prep %Rec Limits 70 - 130	Type: To Batch: RPD 0 3 2: Matrix Type: To	stal/NA 59369 RPD Limit 20 20 c Spike stal/NA

#### **QC Sample Results**

Client: Carmona Resources Project/Site: Tonto 15 State #1

Job ID: 880-31281-1 SDG: Lea County, New Mexico

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

Lab Sample ID: 880-31664-4 Matrix: Solid	A-2-G MSD					CI	ient S	ample IC	): Matrix Sp Pren T	ike Dup ype: To		
Analysis Batch: 59409										Batch:		
,,	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	<50.3	U *-	992	918.4		mg/Kg		91	70 - 130	5	20	
Diesel Range Organics (Over C10-C28)	61.5		992	1254		mg/Kg		120	70 - 130	6	20	-
	MSD	MSD										
Surrogate	%Recovery	Qualifier	Limits									
1-Chlorooctane	128		70 - 130									
o-Terphenyl	112		70 - 130									
												1

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#### **QC Association Summary**

Client: Carmona Resources Project/Site: Tonto 15 State #1

**GC VOA** 

Job ID: 880-31281-1 SDG: Lea County, New Mexico

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5 6 7

# ea Count

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batc
880-31281-1	S-3 (0-1')	Total/NA	Solid	5035	
MB 880-58971/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-58971/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-58971/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-31279-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
880-31279-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	
Prep Batch: 58998					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
MB 880-58998/5-A	Method Blank	Total/NA	Solid	5035	
Analysis Batch: 59072					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
880-31281-1	S-3 (0-1')	Total/NA	Solid	8021B	5897
MB 880-58971/5-A	Method Blank	Total/NA	Solid	8021B	5897
MB 880-58998/5-A	Method Blank	Total/NA	Solid	8021B	5899
LCS 880-58971/1-A	Lab Control Sample	Total/NA	Solid	8021B	5897
LCSD 880-58971/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	5897
880-31279-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	5897
880-31279-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	5897
Lab Sample ID           880-31281-1	Client Sample ID S-3 (0-1')	Prep Type Total/NA	Matrix Solid	Method Total BTEX	Prep Batc
SC Semi VOA					
Prep Batch: 59369					
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batc
Lab Sample ID	Client Sample ID S-3 (0-1')	Prep Type Total/NA	Matrix Solid	Method 8015NM Prep	Prep Bato
Lab Sample ID 880-31281-1	• • •				Prep Bato
Lab Sample ID 880-31281-1 MB 880-59369/1-A	S-3 (0-1')	Total/NA	Solid	8015NM Prep	Prep Bato
Lab Sample ID 880-31281-1 MB 880-59369/1-A LCS 880-59369/2-A	S-3 (0-1') Method Blank	Total/NA Total/NA	Solid Solid	8015NM Prep 8015NM Prep	Prep Bato
Batch:         59369           Lab Sample ID         880-31281-1           MB 880-59369/1-A         LCS 880-59369/2-A           LCSD 880-59369/2-A         880-31664-A-2-F MS	S-3 (0-1') Method Blank Lab Control Sample	Total/NA Total/NA Total/NA	Solid Solid Solid	8015NM Prep 8015NM Prep 8015NM Prep	Prep Batc
Lab Sample ID 880-31281-1 MB 880-59369/1-A LCS 880-59369/2-A LCSD 880-59369/3-A	S-3 (0-1') Method Blank Lab Control Sample Lab Control Sample Dup	Total/NA Total/NA Total/NA Total/NA	Solid Solid Solid Solid	8015NM Prep 8015NM Prep 8015NM Prep 8015NM Prep	Prep Batc
Lab Sample ID 880-31281-1 MB 880-59369/1-A LCS 880-59369/2-A LCSD 880-59369/3-A 880-31664-A-2-F MS 880-31664-A-2-G MSD	S-3 (0-1') Method Blank Lab Control Sample Lab Control Sample Dup Matrix Spike	Total/NA Total/NA Total/NA Total/NA Total/NA	Solid Solid Solid Solid Solid	8015NM Prep 8015NM Prep 8015NM Prep 8015NM Prep 8015NM Prep	Prep Bato
Lab Sample ID 880-31281-1 MB 880-59369/1-A LCS 880-59369/2-A LCSD 880-59369/3-A 880-31664-A-2-F MS 880-31664-A-2-G MSD malysis Batch: 59409	S-3 (0-1') Method Blank Lab Control Sample Lab Control Sample Dup Matrix Spike	Total/NA Total/NA Total/NA Total/NA Total/NA	Solid Solid Solid Solid Solid	8015NM Prep 8015NM Prep 8015NM Prep 8015NM Prep 8015NM Prep	
Lab Sample ID 880-31281-1 MB 880-59369/1-A LCS 880-59369/2-A LCSD 880-59369/3-A 880-31664-A-2-F MS 880-31664-A-2-G MSD malysis Batch: 59409 Lab Sample ID	S-3 (0-1') Method Blank Lab Control Sample Lab Control Sample Dup Matrix Spike Matrix Spike Duplicate	Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA	Solid Solid Solid Solid Solid Solid	8015NM Prep 8015NM Prep 8015NM Prep 8015NM Prep 8015NM Prep 8015NM Prep	Prep Batc
Lab Sample ID 880-31281-1 MB 880-59369/1-A LCS 880-59369/2-A LCSD 880-59369/3-A 880-31664-A-2-F MS 880-31664-A-2-G MSD malysis Batch: 59409 Lab Sample ID 880-31281-1	S-3 (0-1') Method Blank Lab Control Sample Lab Control Sample Dup Matrix Spike Matrix Spike Duplicate Client Sample ID	Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA	Solid Solid Solid Solid Solid Solid	8015NM Prep 8015NM Prep 8015NM Prep 8015NM Prep 8015NM Prep 8015NM Prep Method	Prep Bato 5936
Lab Sample ID 880-31281-1 MB 880-59369/1-A LCS 880-59369/2-A LCSD 880-59369/3-A 880-31664-A-2-F MS 880-31664-A-2-G MSD malysis Batch: 59409 Lab Sample ID 880-31281-1 MB 880-59369/1-A	S-3 (0-1') Method Blank Lab Control Sample Lab Control Sample Dup Matrix Spike Matrix Spike Duplicate Client Sample ID S-3 (0-1')	Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA <b>Prep Type</b> Total/NA	Solid Solid Solid Solid Solid Solid <b>Matrix</b> Solid	8015NM Prep 8015NM Prep 8015NM Prep 8015NM Prep 8015NM Prep 8015NM Prep <b>Method</b> 8015B NM	Prep Bato 5936 5936
Lab Sample ID 880-31281-1 MB 880-59369/1-A LCS 880-59369/2-A LCSD 880-59369/3-A 880-31664-A-2-F MS 880-31664-A-2-G MSD malysis Batch: 59409 Lab Sample ID 880-31281-1 MB 880-59369/1-A LCS 880-59369/1-A	S-3 (0-1')         Method Blank         Lab Control Sample         Lab Control Sample Dup         Matrix Spike         Matrix Spike Duplicate         Client Sample ID         S-3 (0-1')         Method Blank	Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA <b>Prep Type</b> Total/NA Total/NA	Solid Solid Solid Solid Solid Solid Solid Solid Solid	8015NM Prep 8015NM Prep 8015NM Prep 8015NM Prep 8015NM Prep 8015NM Prep <b>Method</b> 8015B NM 8015B NM	Prep Bato 5936 5936 5936
880-31281-1 MB 880-59369/1-A LCS 880-59369/2-A LCSD 880-59369/3-A 880-31664-A-2-F MS	S-3 (0-1')         Method Blank         Lab Control Sample         Lab Control Sample Dup         Matrix Spike         Matrix Spike Duplicate         Client Sample ID         S-3 (0-1')         Method Blank         Lab Control Sample ID	Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA	Solid Solid Solid Solid Solid Solid Matrix Solid Solid Solid	8015NM Prep 8015NM Prep 8015NM Prep 8015NM Prep 8015NM Prep 8015NM Prep <b>Method</b> 8015B NM 8015B NM 8015B NM	Prep Batc

Analysis Batch: 59483

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
880-31281-1	S-3 (0-1')	Total/NA	Solid	8015 NM	
#### Client Sample ID: S-3 (0-1') Date Collected: 07/25/23 00:00 Date Received: 07/26/23 16:45

-	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	58971	08/01/23 09:18	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	59072	08/02/23 23:11	SM	EET MID
Total/NA	Analysis	Total BTEX		1			59202	08/03/23 09:53	SM	EET MID
Total/NA	Analysis	8015 NM		1			59483	08/07/23 10:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	59369	08/04/23 17:30	ТКС	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59409	08/06/23 17:10	SM	EET MID

#### Laboratory References:

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

Job ID: 880-31281-1 SDG: Lea County, New Mexico

## Lab Sample ID: 880-31281-1

Matrix: Solid

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Client: Carmona Resources Project/Site: Tonto 15 State #1 Job ID: 880-31281-1 SDG: Lea County, New Mexico

#### Laboratory: Eurofins Midland

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

Authority Texas		rogram	Identification Number	Expiration Date	
		ELAP	T104704400-23-26		
The following analytes	are included in this report, b	ut the laboratory is not certif	ied by the governing authority. This list ma	ay include analytes for w	
the agency does not of			A 14		
the agency does not of Analysis Method	fer certification. Prep Method	Matrix	Analyte		
0,		Matrix Solid	Analyte Total TPH		

Eurofins Midland

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### **Method Summary**

#### Client: Carmona Resources Project/Site: Tonto 15 State #1

Job ID: 880-31281-1 SDG: Lea County, New Mexico

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
Laboratory Re	<ul> <li>TestAmerica Laboratories, Standard Operating Procedure</li> <li>Iferences:</li> <li>Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440</li> </ul>		

#### Protocol References:

#### Laboratory References:

## Sample Summary

Client: Carmona Resources Project/Site: Tonto 15 State #1 Job ID: 880-31281-1 SDG: Lea County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-31281-1	S-3 (0-1')	Solid	07/25/23 00:00	07/26/23 16:45

Mum	Comments Email				S-3 (0-1')	Sample Identification	Total Containers.	Sample Custody Seals	Cooler Custody Seals.	Received Intact:	SAMPLE RECEIPT	PO#	Sampler's Name	Project Location	Project Number	Project Name	Phone	ate ZIP		y Name	Project Manager	
Relinquist	Email results to Mike Carmona mcarmona@carmonaresources com, Conner Moehring cmoehring@carmonare				1') 7 25 23	ification Date		S Yes No WA	Yes No NA	(Yes) No	T Temp Blank		CCM	Lea County, New Mexico	2089	Tonto 15 State #1		Midland, 1X 79701	310 W Wall St Ste 500	Carmona Resources	Clinton Merritt	
Relinquished by (Signature)	na mcarmona@carr					Time	Corrected Temperature	Z Temperature Reading	Correction Factor	Thermometer ID	Yes No				•	tate #1						
	nonaresource				×	Soil	rature.	ding			Wet Ice			Due Date	マ Routine	Turn	Email					
	₂s com, Conn				G	Water Comp	16	2 L	1.00	302	( Yes No			5 dav	[] Rush	Turn Around	msanjan@marathonoil.com	City, State ZIP	Address	Company Name	Bill to (if different)	
	er Moehrin	 				p #of		<u> </u>	Pa	aran	neter	rs			Pres, Code		arathonoil c			ſ	)	
Date/Time 26-23 10-45	g cmoehring@c				××	TP	H 801	5M (	(GR	802 <sup>-</sup> O + le 30	DRO	+ MI	२०)				om	Houston, TX 77024	990 Town and Country Blvd	Marathon Oil Corporation	Melodie Sanjari	
R	armonaresources com, C												****			ANALYSIS REQUEST		4	Intry Blvd	oration		
Received by (Signature)	sources com, Clint Merritt MerrittC@carmonaresources com	Chain of Custody														EQUEST	Deliverables EDD AD	Reporting Level II Level III	State of Project:	Program. UST/PST PRP Prownfields	Work Ord	
Date/Time	sources com					Sample Comments	NaOH+Ascorbic Acid SAPC	Zn Acetate+NaOH Zn	Na S-O3 NaSO	NaHSO, NABIS	0	H-SO, H- N-OH N-	9		oci vati	Preservative Codes	ADaPT Other	ST/UST RRP Level IV		ownfields RC perfund		Page 1 of 1

### Received by OCD: 9/21/2023 6:16:51 AM

### 8/7/2023

Work Order No:

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6.2

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Job Number: 880-31281-1

List Source: Eurofins Midland

SDG Number: Lea County, New Mexico

### Login Sample Receipt Checklist

Client: Carmona Resources

Login Number: 31281 List Number: 1 Creator: Rodriguez, Leticia

Question Answer Comment The cooler's custody seal, if present, is intact. N/A N/A Sample custody seals, if present, are intact. The cooler or samples do not appear to have been compromised or True tampered with. Samples were received on ice. True True Cooler Temperature is acceptable. 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 True HTs) 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 True MS/MSDs

N/A

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").

Received by OCD: 9/21/2023 6:16:51 AM



**Environment Testing** 

## **ANALYTICAL REPORT**

## **PREPARED FOR**

Attn: Clint Merritt Carmona Resources 310 W Wall St Ste 500 Midland, Texas 79701 Generated 8/7/2023 2:44:42 PM

## **JOB DESCRIPTION**

Tonto 15 State #1 SDG NUMBER Lea County, New Mexico

## **JOB NUMBER**

880-31270-1

Eurofins Midland 1211 W. Florida Ave Midland TX 79701

See page two for job notes and contact information.



## **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

AMER

Generated 8/7/2023 2:44:42 PM

Authorized for release by Jessica Kramer, Project Manager Jessica.Kramer@et.eurofinsus.com (432)704-5440 1

Eurofins Midland is a laboratory within Eurofins Environment Testing South Central, LLC, a company within Eurofins Environment Testing Group of Companies

Laboratory Job ID: 880-31270-1 SDG: Lea County, New Mexico

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#### Client: Carmona Resources Project/Site: Tonto 15 State #1

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Job ID: 880-31270-1
SDG: Lea County, New Mexico

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Qualifiers		3
GC VOA		
Qualifier	Qualifier Description	
S1-	Surrogate recovery exceeds control limits, low biased.	
U	Indicates the analyte was analyzed for but not detected.	5
GC Semi VOA		
Qualifier	Qualifier Description	
*+	LCS and/or LCSD is outside acceptance limits, high biased.	
S1+	Surrogate recovery exceeds control limits, high biased.	
U	Indicates the analyte was analyzed for but not detected.	
Glossary		8
Abbreviation	These commonly used abbreviations may or may not be present in this report.	Q
¤	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	13
DLC	Decision Level Concentration (Radiochemistry)	
EDL	Estimated Detection Limit (Dioxin)	

¤	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

Job ID: 880-31270-1 SDG: Lea County, New Mexico

#### Job ID: 880-31270-1

#### Laboratory: Eurofins Midland

#### Narrative

Job Narrative 880-31270-1

#### Receipt

The sample was received on 7/26/2023 4:45 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.5°C

#### **Receipt Exceptions**

The following sample was received and analyzed from an unpreserved bulk soil jar: S-4 (2') (880-31270-1).

#### GC VOA

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-59172 recovered above the upper control limit for Benzene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 880-59172/20).

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-59110 and analytical batch 880-59172 was outside the upper control limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: S-4 (2') (880-31270-1) and (880-31278-A-1-A). 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: The surrogate recovery for the blank associated with preparation batch 880-59255 and analytical batch 880-59403 was outside the upper control limits.

Method 8015MOD\_NM: Surrogate recovery for the following samples were outside control limits: (CCV 880-59403/20), (CCV 880-59403/31) and (CCV 880-59403/5). Evidence of matrix interferences is not obvious.

Method 8015MOD\_NM: The laboratory control sample (LCS) associated with preparation batch 880-59255 and analytical batch 880-59403 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.

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Job ID: 880-31270-1 SDG: Lea County, New Mexico

## Lab Sample ID: 880-31270-1

Matrix: Solid

5

# Project/Site: Tonto 15 State #1 Client Sample ID: S-4 (2')

Client: Carmona Resources

Date Collected: 07/25/23 00:00 Date Received: 07/26/23 16:45

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/01/23 09:01	08/04/23 04:06	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/01/23 09:01	08/04/23 04:06	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/01/23 09:01	08/04/23 04:06	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/01/23 09:01	08/04/23 04:06	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/01/23 09:01	08/04/23 04:06	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/01/23 09:01	08/04/23 04:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 130				08/01/23 09:01	08/04/23 04:06	1
1,4-Difluorobenzene (Surr)	63	S1-	70 - 130				08/01/23 09:01	08/04/23 04:06	1
Method: SW846 8015 NM - Diese				MD	11		Durante	A	D!! 5
Analyte		Qualifier	GC) 	MDL	Unit mg/Kg	D	Prepared	Analyzed 08/07/23 14:16	
Analyte Total TPH Method: SW846 8015B NM - Dies	Result <50.5	Qualifier U	<b>RL</b> 50.5	MDL	mg/Kg	<u>D</u>	Prepared		1
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte	Result <50.5	Qualifier U nics (DRO) Qualifier	RL 50.5		mg/Kg			08/07/23 14:16	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <50.5 sel Range Orga Result	Qualifier U nics (DRO) Qualifier U	(GC)		mg/Kg Unit		Prepared	08/07/23 14:16 Analyzed	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <50.5 sel Range Orga Result <50.5	Qualifier U nics (DRO) Qualifier U U *+	RL 50.5 (GC) RL 50.5		mg/Kg Unit mg/Kg		Prepared 08/03/23 14:00	08/07/23 14:16 Analyzed 08/06/23 16:41	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result           <50.5	Qualifier U nics (DRO) Qualifier U U *+ U	RL 50.5 (GC) RL 50.5 50.5		mg/Kg Unit mg/Kg mg/Kg		Prepared 08/03/23 14:00 08/03/23 14:00	08/07/23 14:16 Analyzed 08/06/23 16:41 08/06/23 16:41	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result           <50.5	Qualifier U nics (DRO) Qualifier U U *+ U	RL 50.5 (GC) RL 50.5 50.5 50.5		mg/Kg Unit mg/Kg mg/Kg		Prepared 08/03/23 14:00 08/03/23 14:00 08/03/23 14:00	Analyzed           08/07/23 14:16           Analyzed           08/06/23 16:41           08/06/23 16:41           08/06/23 16:41	1 Dil Fac 1 1

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Job ID: 880-31270-1 SDG: Lea County, New Mexico

Prep Type: Total/NA

Prep Type: Total/NA

#### Method: 8021B - Volatile Organic Compounds (GC) Matrix: Solid

				Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1		
Lab Sample ID	Client Sample ID	(70-130)	(70-130)		
880-31270-1	S-4 (2')	84	63 S1-		
880-31278-A-1-B MS	Matrix Spike	121	124		
880-31278-A-1-C MSD	Matrix Spike Duplicate	119	91		
LCS 880-58969/1-A	Lab Control Sample	115	111		
LCSD 880-58969/2-A	Lab Control Sample Dup	114	109		
MB 880-58969/5-A	Method Blank	73	79		
MB 880-59110/5-A	Method Blank	68 S1-	100		
Surrogate Legend					

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

#### Matrix: Solid

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
ample ID	Client Sample ID	(70-130)	(70-130)	
4-A-1-D MS	Matrix Spike	125	98	
114-A-1-E MSD	Matrix Spike Duplicate	124	99	
270-1	S-4 (2')	97	86	
30-59255/1-A	Method Blank	156 S1+	154 S1+	

#### Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

### **QC Sample Results**

Client: Carmona Resources Project/Site: Tonto 15 State #1

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

Lab Sample ID: MB 880-58969/5-A
Matrix: Solid

Analysis Batch: 59172

MB	MB							
Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<0.00200	U	0.00200		mg/Kg		08/01/23 09:01	08/03/23 22:38	1
<0.00200	U	0.00200		mg/Kg		08/01/23 09:01	08/03/23 22:38	1
<0.00200	U	0.00200		mg/Kg		08/01/23 09:01	08/03/23 22:38	1
<0.00400	U	0.00400		mg/Kg		08/01/23 09:01	08/03/23 22:38	1
<0.00200	U	0.00200		mg/Kg		08/01/23 09:01	08/03/23 22:38	1
<0.00400	U	0.00400		mg/Kg		08/01/23 09:01	08/03/23 22:38	1
МВ	МВ							
%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
73		70 - 130				08/01/23 09:01	08/03/23 22:38	1
79		70 - 130				08/01/23 09:01	08/03/23 22:38	1
	Result           <0.00200	Result         Qualifier           <0.00200	Result         Qualifier         RL           <0.00200	Result         Qualifier         RL         MDL           <0.00200	Result         Qualifier         RL         MDL         Unit           <0.00200	Result         Qualifier         RL         MDL         Unit         D           <0.00200	Result         Qualifier         RL         MDL         Unit         D         Prepared           <0.00200	MB         MB           Result         Qualifier         RL         MDL         Unit         D         Prepared         Analyzed           <0.00200

#### Lab Sample ID: LCS 880-58969/1-A Matrix: Solid

#### Analysis Batch: 59172

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09442		mg/Kg		94	70 - 130	
Toluene	0.100	0.08693		mg/Kg		87	70 - 130	
Ethylbenzene	0.100	0.1010		mg/Kg		101	70 - 130	
m-Xylene & p-Xylene	0.200	0.2099		mg/Kg		105	70 - 130	
o-Xylene	0.100	0.1041		mg/Kg		104	70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	115		70 - 130
1,4-Difluorobenzene (Surr)	111		70 - 130

#### Lab Sample ID: LCSD 880-58969/2-A

#### Matrix: Solid

Analysis Batch: 59172							Prep	Batch:	58969
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.08592		mg/Kg		86	70 - 130	9	35
Toluene	0.100	0.08219		mg/Kg		82	70 - 130	6	35
Ethylbenzene	0.100	0.08963		mg/Kg		90	70 - 130	12	35
m-Xylene & p-Xylene	0.200	0.1870		mg/Kg		94	70 - 130	12	35
o-Xylene	0.100	0.09268		mg/Kg		93	70 - 130	12	35

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

## Lab Sample ID: 880-31278-A-1-B MS

## Matrix: Solid

Analysis Batch: 59172									Prep	Batch: 58969
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00202	U	0.0994	0.1002		mg/Kg		101	70 - 130	
Toluene	<0.00202	U	0.0994	0.09371		mg/Kg		94	70 - 130	

**Eurofins Midland** 

Prep Type: Total/NA

**Client Sample ID: Matrix Spike** 

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**Client Sample ID: Method Blank** 

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 58969

Prep Batch: 58969

Client: Carmona Resources

Project/Site: Tonto 15 State #1

#### Job ID: 880-31270-1 SDG: Lea County, New Mexico

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

Lab Sample ID: 880-31278-A	A-1-B MS									Client S	Sample ID:	Matrix	Spike
Matrix: Solid											Prep T	ype: To	otal/N/
Analysis Batch: 59172											Prep	Batch:	5896
	Sample S	ample	Spike	MS	MS						%Rec		
Analyte	Result Q	ualifier	Added	Result	Qua	lifier	Unit		D	%Rec	Limits		
Ethylbenzene	<0.00202 U		0.0994	0.1030			mg/Kg			104	70 - 130		
n-Xylene & p-Xylene	<0.00403 U		0.199	0.2125			mg/Kg			107	70 - 130		
o-Xylene	<0.00202 U		0.0994	0.1040			mg/Kg			105	70 - 130		
	MS M												
Surrogate		ualifier	Limits										
4-Bromofluorobenzene (Surr)	121		70 - 130										
1,4-Difluorobenzene (Surr)	124		70 - 130										
Lab Sample ID: 880-31278-A	A-1-C MSD						(	Clie	nt Sa	mple ID:	Matrix Sp	ike Du	plicate
Matrix: Solid											Prep T	ype: To	otal/N/
Analysis Batch: 59172											Prep	Batch:	58969
	Sample S	ample	Spike	MSD	MSD	)					%Rec		RPD
Analyte	Result Q		Added	Result	Qua	lifier	Unit		D	%Rec	Limits	RPD	Limi
Benzene	<0.00202 U		0.0998	0.09502			mg/Kg			95	70 - 130	5	3
Toluene	<0.00202 U		0.0998	0.09100			mg/Kg			91	70 - 130	3	3
Ethylbenzene	<0.00202 U		0.0998	0.1021			mg/Kg			102	70 - 130	1	3
m-Xylene & p-Xylene	<0.00403 U		0.200	0.2097			mg/Kg			105	70 - 130	1	35
o-Xylene	<0.00202 U		0.0998	0.1024			mg/Kg			103	70 - 130	2	3
	MSD M												
Surrogate		ualifier	Limits										
4-Bromofluorobenzene (Surr)	119		70 - 130										
1,4-Difluorobenzene (Surr)	91		70 - 130										
Lab Sample ID: MB 880-591	10/5-A									Client Sa	mple ID: N		
Matrix: Solid											Prep T		
Analysis Batch: 59172											Prep	Batch:	59110
		IB MB											
Analyte		ult Qualifier	RL		MDL	Unit		<u>D</u>		epared	Analyze		Dil Fa
Benzene	<0.002		0.00200			mg/Kg				2/23 11:14	08/03/23 1		
Toluene	<0.002		0.00200			mg/Kg				2/23 11:14	08/03/23 1		
Ethylbenzene	<0.002		0.00200			mg/Kg				2/23 11:14	08/03/23 1		
m-Xylene & p-Xylene	<0.004		0.00400			mg/Kg			08/02	2/23 11:14	08/03/23 1	1:30	
o-Xylene	<0.002	00 U	0.00200			mg/Kg			08/02	2/23 11:14	08/03/23 1		
Kylenes, Total	<0.004	00 U	0.00400			mg/Kg			08/02	2/23 11:14	08/03/23 1	1:30	
		IB MB	•• •						-				
Surrogate		ry Qualifier	Limits							epared	Analyze		Dil Fa
4-Bromofluorobenzene (Surr)		58 S1-	70 - 130							2/23 11:14	08/03/23 1		
1,4-Difluorobenzene (Surr)	1	00	70 - 130						08/02	2/23 11:14	08/03/23 1	11:30	

Lab Sample ID: MB 880-59255/1-A Matrix: Solid Analysis Batch: 59403							Client Sa	mple ID: Metho Prep Type: ⊺ Prep Batcł	Total/NA
	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		08/03/23 14:00	08/06/23 08:22	1
(GRO)-C6-C10									

Client: Carmona Resources Project/Site: Tonto 15 State #1

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#### Job ID: 880-31270-1 SDG: Lea County, New Mexico

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

Lab Sample ID: MB 880-59255/1 Matrix: Solid	- <b>A</b>								Client S		ype: To	tal/N
Analysis Batch: 59403										Prep	Batch:	5925
		B MB										
Analyte	Resul				MDL		[		Prepared	Analyz		Dil Fa
Diesel Range Organics (Over C10-C28)	<50.0	0 0	50.0			mg/Kg		08/0	03/23 14:00	08/06/23 0	08:22	
Oll Range Organics (Over C28-C36)	<50.0	) U	50.0			mg/Kg		08/0	3/23 14:00	08/06/23 0	)8:22	
	ME	3 <i>MB</i>										
Surrogate	%Recover	Qualifier	Limits					P	Prepared	Analyz	ed	Dil F
1-Chlorooctane	15	6 S1+	70 - 130					08/0	03/23 14:00	08/06/23 (	08:22	
p-Terphenyl	15	4 S1+	70 - 130					08/0	03/23 14:00	08/06/23 (	08:22	
Lab Sample ID: LCS 880-59255/	2-A							Client	t Sample	ID: Lab Co	ontrol S	amp
Matrix: Solid											ype: To	
Analysis Batch: 59403											Batch:	
			Spike	LCS	LCS					%Rec		
Analyte			Added	Result	Qual	ifier Uni	t	D	%Rec	Limits		
Gasoline Range Organics			1000	1091		mg/	Кg		109	70 - 130		
GRO)-C6-C10			1005									
Diesel Range Organics (Over C10-C28)			1000	1432	*+	mg/	Kg		143	70 - 130		
ab Sample ID: LCSD 880-5925	5/3-A						Clie	nt San	nole ID: I	_ab Control	I Samp	le Di
Aatrix: Solid											ype: To	
Analysis Batch: 59403											Batch:	
			Spike	LCSD	LCS	C				%Rec		R
Analyte			Added	Result	Qual	ifier Uni	t	D	%Rec	Limits	RPD	Lir
Basoline Range Organics			1000	1083		mg/	Кg		108	70 - 130	1	
GRO)-C6-C10 Diesel Range Organics (Over			1000	1425	*+	ma	Ka		142	70 - 130	1	
10-C28)			1000	1425	т	mg/	Ng		142	70 - 150		
.ab Sample ID: 880-31114-A-1-E	MS								Client	Sample ID:	Matrix	Spi
Matrix: Solid										Prep T	ype: To	tal/N
Analysis Batch: 59403										Prep	Batch:	592
	Sample Sa	mple	Spike	MS	MS					%Rec		
Analyte	Result Qu	alifier	Added	Result	Qual	ifier Uni	t	D	%Rec	Limits		
Gasoline Range Organics GRO)-C6-C10	<49.8 U		991	822.4		mg/	Kg		80	70 - 130		
Diesel Range Organics (Over	<49.8 U*	+	991	1171		mg/	Kg		118	70 - 130		
C10-C28)	MS MS											
Surrogate		, alifier	Limits									
I-Chlorooctane	125		70 - 130									
p-Terphenyl	98		70 - 130									
_ab Sample ID: 880-31114-A-1-E	MSD						CI	ient S	ample ID	: Matrix Sp	ike Du	olica
Matrix: Solid											ype: To	
Analysis Batch: 59403											Batch:	
	Sample Sa	mple	Spike	MSD	MSD					%Rec		R
Analyte	Result Qu	-	Added	Result	Qual	ifier Uni	t	D	%Rec	Limits	RPD	Lir
Gasoline Range Organics GRO)-C6-C10	<49.8 U		991	831.2		mg/	Кg		81	70 - 130	1	
Diesel Range Organics (Over	<49.8 U*	+	991	1164			Ka		117	70 - 130	1	
			331	1104		mg/	ng		117	70 - 130		

## **QC Sample Results**

Client: Carmona Resources Project/Site: Tonto 15 State #1 Job ID: 880-31270-1 SDG: Lea County, New Mexico

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

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	124		70 - 130
o-Terphenyl	99		70 - 130

## **QC Association Summary**

Client: Carmona Resources Project/Site: Tonto 15 State #1

Job ID: 880-31270-1 SDG: Lea County, New Mexico

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## **GC VOA**

#### Prep Batch: 58969

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31270-1	S-4 (2')	Total/NA	Solid	5035	
MB 880-58969/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-58969/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-58969/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-31278-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
880-31278-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	
Prep Batch: 59110					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch

Total/NA

Solid

5035

#### Analysis Batch: 59172

Method Blank

MB 880-59110/5-A

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch	
880-31270-1	S-4 (2')	Total/NA	Solid	8021B	58969	
MB 880-58969/5-A	Method Blank	Total/NA	Solid	8021B	58969	
MB 880-59110/5-A	Method Blank	Total/NA	Solid	8021B	59110	
LCS 880-58969/1-A	Lab Control Sample	Total/NA	Solid	8021B	58969	
LCSD 880-58969/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	58969	
880-31278-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	58969	
880-31278-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	58969	
Assolution Defets a 50040						

#### Analysis Batch: 59318

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
880-31270-1	S-4 (2')	Total/NA	Solid	Total BTEX	

### GC Semi VOA

#### Prep Batch: 59255

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31270-1	S-4 (2')	Total/NA	Solid	8015NM Prep	
MB 880-59255/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-59255/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-59255/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-31114-A-1-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-31114-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

#### Analysis Batch: 59403

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
880-31270-1	S-4 (2')	Total/NA	Solid	8015B NM	59255
MB 880-59255/1-A	Method Blank	Total/NA	Solid	8015B NM	59255
LCS 880-59255/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	59255
LCSD 880-59255/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	59255
880-31114-A-1-D MS	Matrix Spike	Total/NA	Solid	8015B NM	59255
880-31114-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	59255
Analysis Batch: 59526					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31270-1	<u>S-4 (2')</u>	Total/NA	Solid	8015 NM	

Client: Carmona Resources Project/Site: Tonto 15 State #1

#### Client Sample ID: S-4 (2') Date Collected: 07/25/23 00:00 Date Received: 07/26/23 16:45

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	58969	08/01/23 09:01	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	59172	08/04/23 04:06	SM	EET MID
Total/NA	Analysis	Total BTEX		1			59318	08/04/23 10:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			59526	08/07/23 14:16	SM	EET MID
Total/NA	Prep	8015NM Prep			9.91 g	10 mL	59255	08/03/23 14:00	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59403	08/06/23 16:41	SM	EET MID

#### Laboratory References:

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

Job ID: 880-31270-1 SDG: Lea County, New Mexico

## Lab Sample ID: 880-31270-1

Matrix: Solid

Client: Carmona Resources Project/Site: Tonto 15 State #1 Job ID: 880-31270-1

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SDG: Lea County, New Mexico

#### Laboratory: Eurofins Midland

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

Authority		rogram	Identification Number	Expiration Date
xas	N	ELAP	T104704400-23-26	06-30-24
The following analytes	are included in this report. b	ut the laboratory is not certif	ied by the governing authority. This list ma	y include analytes for w
the agency does not of	fer certification.	Na-Arity		, ,
the agency does not of Analysis Method		Matrix	Analyte	
the agency does not of	fer certification.	Matrix Solid		

Eurofins Midland

Released to Imaging: 11/6/2023 11:57:53 AM

### **Method Summary**

#### Client: Carmona Resources Project/Site: Tonto 15 State #1

Job ID: 880-31270-1 SDG: Lea County, New Mexico

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
Laboratory Re	<ul> <li>TestAmerica Laboratories, Standard Operating Procedure</li> <li>Iferences:</li> <li>Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440</li> </ul>		

#### Protocol References:

#### Laboratory References:

Eurofins Midland

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## Sample Summary

Client: Carmona Resources Project/Site: Tonto 15 State #1 Job ID: 880-31270-1 SDG: Lea County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-31270-1	S-4 (2')	Solid	07/25/23 00:00	07/26/23 16:45

Project Manager	Clinton Merritt				Bill to (if different)		Melodie Saniari	aniari			Work	Work Order Comments	nmante	
	Carmona Resources	Irces			Company Name		Marathon	Marathon Oil Corporation		Program UST/PST PRP Prownfields			5	
	310 W Wall St Ste 500	te 500			Address.		990 Town	990 Town and Country Blvd	Blvd	State of Project	י ג ג		_	
e ZIP	Midland, TX 79701	01			City, State ZIP		Houston, TX 77024	X 77024		Reporting Level II Level III		ST/UST		
Phone				Email	Email msanjari@marathonoil.com	rathonoil co	m			Deliverables EDD			l :	
Project Name	To	Tonto 15 State #1	#1	Turn	Turn Around		and the second se		ANALYSIS REOUEST	DUEST			Procorvativo Codor	a Cadar
Project Number		2089		マ Routine	[_] Rush	Pres. Code						None NO		DI Water: H <sub>2</sub> O
Project Location	Lea Co	Lea County New Mexico	Mexico	Due Date	5 day									
Sampler's Name		CCM				<u> </u>	IRO)					HCL HC	2	HNO, HN
PO#						rs	) + N					H <sub>2</sub> S0 <sub>4</sub> H <sub>2</sub>		NaOH Na
SAMPLE RECEIPT		Temp Blank.	Yes NG	Wet Ice	Res No	ietei		0 0				H PO, HP	-	
Received Intact:		No	Thermometer ID		ANT -	Iran	8021 O +	le 30				NaHS	NaHSO4 NABIS	
<b>Cooler Custody Seals</b>	¥	NO	Correction Factor	7	1,30	Pa		orid				Na-S-	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> NaSO <sub>3</sub>	
Sample Custody Seals	- -	NO NA	Temperature Reading	ading	4-8	I		Ch				Zn Ace	Zn Acetate+NaOH Zn	Zn
I otal Containers.			Corrected Temperature	erature			H 80		*******			NaOH	NaOH+Ascorbic Acid SAPC	oid SAPC
Sample Identification	tification	Date	Time	Soil	Water Comp	p / #of Cont	TP					0	Sample Comments	mments
S-4 (2')	2')	7 25 23		×	G		× ×							
											,			
										oon 31770 Chain of Custody				
Comments Email	results to Mike	Carmona r	ncarmona@car	monaresourc	es com, Conne	r Moehrin	3 cmoeh	ring@carm	Email results to Mike Carmona mcarmona@carmonaresources com, Conner Moehring cmoehring@carmonaresources com, Clint MerrittC@carmonaresources com	Nint Merritt Merritt	C@carmo	naresources	com	
X	R	elinquished	Relinquished by (Signature)				Date/Time		R	Referved by (Signature)	ıre)		De	Date/Time
Mr M	NA H	AND.	X			7-	64-			WA				
<														

### Received by OCD: 9/21/2023 6:16:51 AM

### 8/7/2023

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Work Order No:

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**5** 6

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Job Number: 880-31270-1

List Source: Eurofins Midland

SDG Number: Lea County, New Mexico

### Login Sample Receipt Checklist

Client: Carmona Resources

Login Number: 31270 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	

N/A

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").

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Received by OCD: 9/21/2023 6:16:51 AM



**Environment Testing** 

## **ANALYTICAL REPORT**

## PREPARED FOR

Attn: Clint Merritt Carmona Resources 310 W Wall St Ste 500 Midland, Texas 79701 Generated 8/8/2023 11:28:56 AM

## **JOB DESCRIPTION**

Tonto 15 State #1 SDG NUMBER Lea County, New Mexico

## **JOB NUMBER**

880-31271-1

Eurofins Midland 1211 W. Florida Ave Midland TX 79701

See page two for job notes and contact information.

## **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

AMER

Generated 8/8/2023 11:28:56 AM

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

Eurofins Midland is a laboratory within Eurofins Environment Testing South Central, LLC, a company within Eurofins Environment Testing Group of Companies

Laboratory Job ID: 880-31271-1 SDG: Lea County, New Mexico

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Duplicate Error Ratio (normalized absolute difference)

Decision Level Concentration (Radiochemistry)

EPA recommended "Maximum Contaminant Level"

Minimum Detectable Concentration (Radiochemistry)

Not Detected at the reporting limit (or MDL or EDL if shown)

Minimum Detectable Activity (Radiochemistry)

Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

**Dilution Factor** 

Detection Limit (DoD/DOE)

Estimated Detection Limit (Dioxin)

Limit of Detection (DoD/DOE)

Method Detection Limit

Minimum Level (Dioxin)

Most Probable Number

Not Calculated

Negative / Absent

Positive / Present

Presumptive Quality Control

Method Quantitation Limit

Practical Quantitation Limit

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)

Too Numerous To Count

Toxicity Equivalent Quotient (Dioxin)

Reporting Limit or Requested Limit (Radiochemistry)

Relative Percent Difference, a measure of the relative difference between two points

Limit of Quantitation (DoD/DOE)

#### Client: Carmona Resources Project/Site: Tonto 15 State #1

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Job ID: 880-31271-1 SDG: Lea County, New Mexico

0		1:2:	
U	ua	ШТІ	ers

DER

DL

DLC

EDL LOD

LOQ

MCL

MDA

MDC

MDL

MPN

MQL

NC

ND NEG

POS

PQL

QC RER

RL RPD

TEF

TEQ

TNTC

PRES

ML

Dil Fac

DL, RA, RE, IN

Quaimers		3
GC VOA		
Qualifier	Qualifier Description	
S1-	Surrogate recovery exceeds control limits, low biased.	
U	Indicates the analyte was analyzed for but not detected.	5
GC Semi VO	Α	
Qualifier	Qualifier Description	
*1	LCS/LCSD RPD exceeds control limits.	
S1+	Surrogate recovery exceeds control limits, high biased.	
U	Indicates the analyte was analyzed for but not detected.	
Glossary		8
Abbreviation	These commonly used abbreviations may or may not be present in this report.	0
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis	3
%R	Percent Recovery	
CFL	Contains Free Liquid	
CFU	Colony Forming Unit	
CNF	Contains No Free Liquid	

Job ID: 880-31271-1 SDG: Lea County, New Mexico

#### Job ID: 880-31271-1

Client: Carmona Resources Project/Site: Tonto 15 State #1

#### Laboratory: Eurofins Midland

#### Narrative

Job Narrative 880-31271-1

#### Receipt

The sample was received on 7/26/2023 4:45 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.5°C

#### **Receipt Exceptions**

The following sample was received and analyzed from an unpreserved bulk soil jar: S-4 (3') (880-31271-1).

#### GC VOA

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-59172 recovered above the upper control limit for Benzene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 880-59172/20).

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-59110 and analytical batch 880-59172 was outside the upper control limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (880-31278-A-1-A). 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: The surrogate recovery for the blank associated with preparation batch 880-59216 and analytical batch 880-59411 was outside the upper control limits.

Method 8015MOD\_NM: Surrogate recovery for the following samples were outside control limits: S-4 (3') (880-31271-1), (CCV 880-59411/20), (CCV 880-59411/5), (LCS 880-59216/2-A), (880-31305-A-35-C), (880-31305-A-35-D MS) and (880-31305-A-35-E MSD). Evidence of matrix interferences is not obvious.

Method 8015MOD\_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-59216 and analytical batch 880-59411 recovered outside control limits for the following analytes: Diesel Range Organics (Over C10-C28).

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

Matrix: Solid

5

Job ID: 880-31271-1 SDG: Lea County, New Mexico

Lab Sample ID: 880-31271-1

### Client Sample ID: S-4 (3') Date Collected: 07/25/23 00:00

Client: Carmona Resources Project/Site: Tonto 15 State #1

Date Received: 07/26/23 16:45

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/01/23 09:01	08/04/23 04:27	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/01/23 09:01	08/04/23 04:27	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/01/23 09:01	08/04/23 04:27	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/01/23 09:01	08/04/23 04:27	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/01/23 09:01	08/04/23 04:27	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/01/23 09:01	08/04/23 04:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130				08/01/23 09:01	08/04/23 04:27	
1,4-Difluorobenzene (Surr)	82		70 - 130				08/01/23 09:01	08/04/23 04:27	
Method: TAL SOP Total BTEX - To Analyte		culation Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00400	U	0.00400		mg/Kg			08/04/23 10:48	
Method: SW846 8015 NM - Diese	Range Organ	ics (DRO) (	GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			08/08/23 12:15	
Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics GRO)-C6-C10	<49.8	U	49.8		mg/Kg		08/03/23 10:03	08/07/23 17:49	
Diesel Range Organics (Over C10-C28)	<49.8	U *1	49.8		mg/Kg		08/03/23 10:03	08/07/23 17:49	
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/03/23 10:03	08/07/23 17:49	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	148	S1+	70 - 130				08/03/23 10:03	08/07/23 17:49	
		S1+	70 - 130				08/03/23 10:03	08/07/23 17:49	

Job ID: 880-31271-1

#### Method: 8021B - Volatile Organic Compounds (GC) Matrix: Solid

				•
				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-31271-1	S-4 (3')	91	82	·
880-31278-A-1-B MS	Matrix Spike	121	124	
880-31278-A-1-C MSD	Matrix Spike Duplicate	119	91	
LCS 880-58969/1-A	Lab Control Sample	115	111	
LCSD 880-58969/2-A	Lab Control Sample Dup	114	109	
MB 880-58969/5-A	Method Blank	73	79	
MB 880-59110/5-A	Method Blank	68 S1-	100	

#### Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

#### Matrix: Solid

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-31271-1	S-4 (3')	148 S1+	156 S1+	
880-31305-A-35-D MS	Matrix Spike	144 S1+	154 S1+	
880-31305-A-35-E MSD	Matrix Spike Duplicate	163 S1+	177 S1+	
LCS 880-59216/2-A	Lab Control Sample	130	150 S1+	
LCSD 880-59216/3-A	Lab Control Sample Dup	103	122	
MB 880-59216/1-A	Method Blank	137 S1+	158 S1+	

#### Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

SDG: Lea County, New Mexico

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Prep Type: Total/NA

Prep Type: Total/NA

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### **QC Sample Results**

Client: Carmona Resources Project/Site: Tonto 15 State #1

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

Lab Sample ID: MB 880-58969/5-A	
Matrix: Solid	

Analysis Batch: 59172

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/01/23 09:01	08/03/23 22:38	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/01/23 09:01	08/03/23 22:38	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/01/23 09:01	08/03/23 22:38	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/01/23 09:01	08/03/23 22:38	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/01/23 09:01	08/03/23 22:38	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/01/23 09:01	08/03/23 22:38	1
	МВ	МВ							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	73		70 - 130				08/01/23 09:01	08/03/23 22:38	1
1,4-Difluorobenzene (Surr)	79		70 - 130				08/01/23 09:01	08/03/23 22:38	1

#### Lab Sample ID: LCS 880-58969/1-A Matrix: Solid

#### Analysis Batch: 59172

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09442		mg/Kg		94	70 - 130	
Toluene	0.100	0.08693		mg/Kg		87	70 - 130	
Ethylbenzene	0.100	0.1010		mg/Kg		101	70 - 130	
m-Xylene & p-Xylene	0.200	0.2099		mg/Kg		105	70 - 130	
o-Xylene	0.100	0.1041		mg/Kg		104	70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	115		70 - 130
1,4-Difluorobenzene (Surr)	111		70 - 130

#### Lab Sample ID: LCSD 880-58969/2-A

#### Matrix: Solid

Analysis Batch: 59172							Prep	Batch:	58969
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.08592		mg/Kg		86	70 - 130	9	35
Toluene	0.100	0.08219		mg/Kg		82	70 - 130	6	35
Ethylbenzene	0.100	0.08963		mg/Kg		90	70 - 130	12	35
m-Xylene & p-Xylene	0.200	0.1870		mg/Kg		94	70 - 130	12	35
o-Xylene	0.100	0.09268		mg/Kg		93	70 - 130	12	35

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

### Lab Sample ID: 880-31278-A-1-B MS

#### Matrix: Solid Analysis Potoby 50172

Analysis Batch: 59172									Pre	Batch: 58969
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00202	U	0.0994	0.1002		mg/Kg		101	70 - 130	
Toluene	<0.00202	U	0.0994	0.09371		mg/Kg		94	70 - 130	

Prep Type: Total/NA

**Client Sample ID: Matrix Spike** 

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Client: Carmona Resources

Project/Site: Tonto 15 State #1

#### Job ID: 880-31271-1 SDG: Lea County, New Mexico

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

Lab Sample ID: 880-31278-A	A-1-B MS									Client S	Sample ID:		
Matrix: Solid											Prep Ty		
Analysis Batch: 59172											Prep E	atch:	5896
	Sample Sa	mple	Spike	MS	MS						%Rec		
Analyte	Result Qu	alifier	Added	Result	Qua	lifier	Unit		D	%Rec	Limits		
Ethylbenzene	<0.00202 U		0.0994	0.1030			mg/Kg			104	70 - 130		
m-Xylene & p-Xylene	<0.00403 U		0.199	0.2125			mg/Kg			107	70 - 130		
o-Xylene	<0.00202 U		0.0994	0.1040			mg/Kg			105	70 - 130		
	MS MS												
Surrogate	%Recovery Qu	alifier	Limits										
4-Bromofluorobenzene (Surr)	121		70 - 130										
1,4-Difluorobenzene (Surr)	124		70 - 130										
Lab Sample ID: 880-31278-4	A-1-C MSD							Clien	it Sa	mple ID:	Matrix Spi	ce Du	plicate
Matrix: Solid											Prep Ty	pe: To	otal/N/
Analysis Batch: 59172											Prep E	atch:	
	Sample Sa	•	Spike	MSD	MSD	)					%Rec		RPI
Analyte	Result Qu	alifier	Added	Result	Qua	lifier	Unit		D	%Rec	Limits	RPD	Limi
Benzene	<0.00202 U		0.0998	0.09502			mg/Kg			95	70 - 130	5	35
Toluene	<0.00202 U		0.0998	0.09100			mg/Kg			91	70 - 130	3	35
Ethylbenzene	<0.00202 U		0.0998	0.1021			mg/Kg			102	70 - 130	1	35
m-Xylene & p-Xylene	<0.00403 U		0.200	0.2097			mg/Kg			105	70 - 130	1	3
o-Xylene	<0.00202 U		0.0998	0.1024			mg/Kg			103	70 - 130	2	3
	MSD MS												
Surrogate		alifier	Limits										
4-Bromofluorobenzene (Surr)	119		70 - 130										
1,4-Difluorobenzene (Surr)	91		70 - 130										
Lab Sample ID: MB 880-591	10/5-A									Client Sa	mple ID: M	ethod	l Blanl
Matrix: Solid											Prep Ty		
Analysis Batch: 59172											Prep E	Batch:	59110
	М	B MB											
Analyte	Resu	It Qualifier	RL		MDL	Unit		D	Pr	epared	Analyze	I	Dil Fa
Benzene	<0.0020	0 U	0.00200			mg/Kg	g		08/02	2/23 11:14	08/03/23 11	:30	
Toluene	<0.0020	0 U	0.00200			mg/Kg	g		08/02	2/23 11:14	08/03/23 11	:30	
Ethylbenzene	<0.0020	0 U	0.00200			mg/Kg	g		08/02	2/23 11:14	08/03/23 11	:30	
m-Xylene & p-Xylene	<0.0040	0 U	0.00400			mg/Kg	g		08/02	2/23 11:14	08/03/23 11	:30	
o-Xylene	<0.0020	0 U	0.00200			mg/Kg	g		08/02	2/23 11:14	08/03/23 11	:30	
Xylenes, Total	<0.0040	0 U	0.00400			mg/Ko	g		08/02	2/23 11:14	08/03/23 11	:30	
	М	B <i>MB</i>											
Surrogate		y Qualifier	Limits					_		epared	Analyze		Dil Fa
4-Bromofluorobenzene (Surr)	6	8 S1-	70 - 130						08/02	2/23 11:14	08/03/23 11	:30	
	10	<u>^</u>	70 - 130						00/01	2/23 11:14	08/03/23 11	.20	

Lab Sample ID: MB 880-59216/1-A Matrix: Solid Analysis Batch: 59411							Client Sa	mple ID: Metho Prep Type: <sup>-</sup> Prep Batcl	Total/NA
• • •		MB				_	- ·		<b>D E</b>
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		08/03/23 10:03	08/07/23 07:49	1
(GRO)-C6-C10									

Job ID: 880-31271-1 SDG: Lea County, New Mexico

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

Lab Sample ID: MB 880-59216 Matrix: Solid	/1 <b>-A</b>									Client Sa	ample ID: I Prop T		
											Prep T		
Analysis Batch: 59411											Prep	Batch	: 59210
Analysia		B MB It Qualifier	RL			11		~	Π.		Analyz	. d	
Analyte					MDL	Unit		D		repared	·		Dil Fa
Diesel Range Organics (Over C10-C28)	<50.	0 0	50.0			mg/K	9		08/0	3/23 10:03	08/07/23 (	07:49	
Oll Range Organics (Over C28-C36)	<50.	0 U	50.0			mg/Kg	a		08/0	3/23 10:03	08/07/23 (	)7:49	
							5						
	M	B MB											
Surrogate	%Recover	<u> </u>	Limits					-		repared	Analyz		Dil Fa
1-Chlorooctane		7 S1+	70 - 130							3/23 10:03	08/07/23 (		
o-Terphenyl	15	8 S1+	70 - 130						08/0	3/23 10:03	08/07/23 (	07:49	
Lab Sample ID: LCS 880-5921								<b>C</b> 1	iont	Sampla		ntrol 6	Somel
Matrix: Solid	0/2-A							G	ient	Sample	ID: Lab Co		
											Prep T		
Analysis Batch: 59411			Spike	1.00	LCS						%Rec	DatCU	: 59216
Analyta			Spike Added				l In it		P	% Dc-			
Analyte			Added	Result	Qual	inner	Unit		<u>D</u>	%Rec	Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1053			mg/Kg			105	70 - 130		
Diesel Range Organics (Over			1000	1214			mg/Kg			121	70 - 130		
C10-C28)			1000	1214			iiig/itg			121	70-100		
	LCS LC												
Surrogate	%Recovery Qu	ualifier	Limits										
1-Chlorooctane													
	130		70 - 130 70 - 130										
	130 150 S1	+	70 - 130 70 - 130										
o-Terphenyl	150 S1	+					Cli	ient (	Sam	ple ID: L	ab Contro	l Samo	ole Dur
o-Terphenyl Lab Sample ID: LCSD 880-592	150 S1	'+					Cli	ient (	Sam	ple ID: L	ab Contro Prep T		
o- <i>Terphenyl</i> Lab Sample ID: LCSD 880-592 Matrix: Solid	150 S1	'+					Cli	ient \$	Sam	iple ID: Li	Prep T	ype: To	otal/N/
o- <i>Terphenyl</i> Lab Sample ID: LCSD 880-592 Matrix: Solid	150 S1	+	70 - 130	LCSD	LCS	D	Cli	ient \$	Sam	ple ID: L	Prep T Prep	ype: To	otal/NA : 59216
o- <i>Terphenyl</i> Lab Sample ID: LCSD 880-592 Matrix: Solid Analysis Batch: 59411	150 S1	'+	70 - 130 Spike	LCSD Result				ient (	Sam	-	Prep T Prep %Rec	ype: To Batch	otal/NA : 59216 RPC
o-Terphenyl Lab Sample ID: LCSD 880-592 Matrix: Solid Analysis Batch: 59411 Analyte	150 S1	'+	70 - 130 Spike Added	Result			Unit	ient \$		%Rec	Prep T Prep	ype: To Batch RPD	otal/NA : 59216 RPE Limi
o-Terphenyl Lab Sample ID: LCSD 880-592 Matrix: Solid Analysis Batch: 59411 Analyte Gasoline Range Organics	150 S1	'+ 	70 - 130 Spike					ient (		-	Prep T Prep %Rec Limits	ype: To Batch	otal/NA : 59216 RPE Limi
o-Terphenyl Lab Sample ID: LCSD 880-592 Matrix: Solid Analysis Batch: 59411 Analyte Gasoline Range Organics (GRO)-C6-C10	150 S1		70 - 130 Spike Added	Result	Qual		Unit	ient (		%Rec	Prep T Prep %Rec Limits	ype: To Batch RPD	otal/NA : 59216 RPI Limi 20
o-Terphenyl Lab Sample ID: LCSD 880-592 Matrix: Solid Analysis Batch: 59411 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	150 S1		70 - 130 Spike Added 1000	Result 899.2	Qual		Unit mg/Kg	ient (		% <b>Rec</b>	Prep T Prep %Rec Limits 70 - 130	ype: To Batch RPD 16	otal/NA : 59216 RPI Limi 20
o-Terphenyl Lab Sample ID: LCSD 880-592 Matrix: Solid Analysis Batch: 59411 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	150 St		70 - 130 Spike Added 1000	Result 899.2	Qual		Unit mg/Kg	ient (		% <b>Rec</b>	Prep T Prep %Rec Limits 70 - 130	ype: To Batch RPD 16	otal/NA : 59216 RPE Limi 20
o-Terphenyl Lab Sample ID: LCSD 880-592 Matrix: Solid Analysis Batch: 59411 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	150 St 16/3-A 		70 - 130 Spike Added 1000	Result 899.2	Qual		Unit mg/Kg	ient s		% <b>Rec</b>	Prep T Prep %Rec Limits 70 - 130	ype: To Batch RPD 16	otal/NA : 59216 RPE Limi 20
o-Terphenyl Lab Sample ID: LCSD 880-592 Matrix: Solid Analysis Batch: 59411 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate	150 St 16/3-A 		70 - 130 Spike Added 1000 1000 Limits	Result 899.2	Qual		Unit mg/Kg	ient s		% <b>Rec</b>	Prep T Prep %Rec Limits 70 - 130	ype: To Batch RPD 16	otal/NA : 59216 RPE Limi 20
o-Terphenyl Lab Sample ID: LCSD 880-592 Matrix: Solid Analysis Batch: 59411 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane	150 St 16/3-A 		70 - 130 Spike Added 1000 1000 Limits 70 - 130	Result 899.2	Qual		Unit mg/Kg	ient (		% <b>Rec</b>	Prep T Prep %Rec Limits 70 - 130	ype: To Batch RPD 16	otal/NA : 59216 RPE Limi 20
o-Terphenyl Lab Sample ID: LCSD 880-592 Matrix: Solid Analysis Batch: 59411 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate	150 St 16/3-A 		70 - 130 Spike Added 1000 1000 Limits	Result 899.2	Qual		Unit mg/Kg	ient (		% <b>Rec</b>	Prep T Prep %Rec Limits 70 - 130	ype: To Batch RPD 16	otal/NA : 59216 RPE Limi 20
o-Terphenyl Lab Sample ID: LCSD 880-592 Matrix: Solid Analysis Batch: 59411 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl	150 St 16/3-A LCSD LC %Recovery Qu 103 122		70 - 130 Spike Added 1000 1000 Limits 70 - 130	Result 899.2	Qual		Unit mg/Kg	ient \$		% <b>Rec</b> 90 97	Prep T           %Rec           Limits           70 - 130           70 - 130	ype: To Batch RPD 16 22	otal/NA : 59210 RPI Limi 20
o-Terphenyl Lab Sample ID: LCSD 880-592 Matrix: Solid Analysis Batch: 59411 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 880-31305-A-3	150 St 16/3-A LCSD LC %Recovery Qu 103 122		70 - 130 Spike Added 1000 1000 Limits 70 - 130	Result 899.2	Qual		Unit mg/Kg	ient (		% <b>Rec</b> 90 97	Prep T           %Rec           Limits           70 - 130           70 - 130	ype: To Batch RPD 16 22	otal/NA : 59210 RPI Limi 20 20
o-Terphenyl Lab Sample ID: LCSD 880-592 Matrix: Solid Analysis Batch: 59411 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 880-31305-A-3 Matrix: Solid	150 St 16/3-A LCSD LC %Recovery Qu 103 122		70 - 130 Spike Added 1000 1000 Limits 70 - 130	Result 899.2	Qual		Unit mg/Kg	ient (		% <b>Rec</b> 90 97	Prep T Prep %Rec Limits 70 - 130 70 - 130 70 - 130	ype: To Batch 16 22 Matrix ype: To	otal/NA : 59210 RPr Limi 20 20 x Spike otal/NA
o-Terphenyl Lab Sample ID: LCSD 880-592 Matrix: Solid Analysis Batch: 59411 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 880-31305-A-3 Matrix: Solid	150 St 16/3-A LCSD LC %Recovery Qu 103 122 35-D MS	SD valifier	70 - 130 Spike Added 1000 1000 Limits 70 - 130	Result 899.2 968.7	Qual		Unit mg/Kg	ient \$		% <b>Rec</b> 90 97	Prep T Prep %Rec Limits 70 - 130 70 - 130 70 - 130	ype: To Batch 16 22 Matrix ype: To	otal/NA : 59210 RPI Limi 20 20 x Spike otal/NA
o-Terphenyl Lab Sample ID: LCSD 880-592 Matrix: Solid Analysis Batch: 59411 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 880-31305-A-3 Matrix: Solid Analysis Batch: 59411	150 St 16/3-A LCSD LC %Recovery Qu 103 122	SD valifier	70 - 130 Spike Added 1000 1000 Limits 70 - 130 70 - 130	Result 899.2 968.7	Qual *1 MS	lifier	Unit mg/Kg	ient (		% <b>Rec</b> 90 97	Prep T Prep %Rec Limits 70 - 130 70 - 130 70 - 130 Sample ID: Prep T Prep T	ype: To Batch 16 22 Matrix ype: To	otal/NA : 59210 RPI Limi 20 20 x Spike otal/NA
o-Terphenyl Lab Sample ID: LCSD 880-592 Matrix: Solid Analysis Batch: 59411 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 880-31305-A-3 Matrix: Solid Analysis Batch: 59411 Analyte	150 St 16/3-A LCSD LC %Recovery Qu 103 122 55-D MS Sample Sa Result Qu	SD valifier	70 - 130         Spike         Added         1000         1000         1000         1000         1000         1000         5pike         Added         Added	Result 899.2 968.7 968.7 MS Result	Qual *1 MS	lifier	Unit mg/Kg mg/Kg	ient \$	<u>D</u>	%Rec 90 97 97	Prep T Prep %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 190 70 - 1	ype: To Batch 16 22 Matrix ype: To	otal/NA : 59216 RPE Limi 20 20 x Spike otal/NA
o-Terphenyl Lab Sample ID: LCSD 880-592 Matrix: Solid Analysis Batch: 59411 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 880-31305-A-3 Matrix: Solid Analysis Batch: 59411 Analyte Gasoline Range Organics	150 St 16/3-A LCSD LC %Recovery Qu 103 122 55-D MS Sample Sa	SD valifier	70 - 130  Spike Added 1000 1000  Limits 70 - 130 70 - 130 70 - 130 Spike	Result 899.2 968.7 MS	Qual *1 MS	lifier	Unit mg/Kg mg/Kg	ient (	<u>D</u>	%Rec 90 97 07 Client S	Prep T Prep %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 190 70 - 190	ype: To Batch 16 22 Matrix ype: To	otal/NJ : 5921 RPI <u>Lim</u> 2 2 x Spike otal/NJ
o-Terphenyl Lab Sample ID: LCSD 880-592 Matrix: Solid Analysis Batch: 59411 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 880-31305-A-3 Matrix: Solid Analysis Batch: 59411 Analyte Gasoline Range Organics (GRO)-C6-C10	150 St 16/3-A LCSD LC %Recovery Qu 103 122 55-D MS Sample Sa Result Qu	CSD Ialifier	70 - 130         Spike         Added         1000         1000         1000         1000         1000         1000         5pike         Added         Added	Result 899.2 968.7 968.7 MS Result	Qual *1 MS	lifier	Unit mg/Kg mg/Kg	ient (	<u>D</u>	%Rec 90 97 07 Client S	Prep T Prep %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 190 70 - 1	ype: To Batch 16 22 Matrix ype: To	otal/NA : 59210 RPI Limi 20 20 x Spike otal/NA
o-Terphenyl Lab Sample ID: LCSD 880-592 Matrix: Solid Analysis Batch: 59411 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 880-31305-A-3 Matrix: Solid Analysis Batch: 59411 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	150       Si         LCSD       LC         %Recovery       Qu         103       122         S5-D MS       Sample       Sa         Result       Qu       Su         <50.3	CSD Ialifier	70 - 130         Spike         Added         1000         1000         1000         1000         1000         1000         5pike         Added         1010	Result           899.2           968.7           968.7 <b>MS Result</b> 952.4	Qual *1 MS	lifier	Unit mg/Kg mg/Kg <u>Unit</u> mg/Kg	ient (	<u>D</u>	%Rec         90           90         97           97         97           Client S           %Rec         94	Prep T Prep %Rec Limits 70 - 130 70 - 130 70 - 130 Sample ID: Prep T Prep T %Rec Limits 70 - 130	ype: To Batch 16 22 Matrix ype: To	otal/NA : 59216 RPE Limi 20 20 x Spike otal/NA
o-Terphenyl Lab Sample ID: LCSD 880-592 Matrix: Solid Analysis Batch: 59411 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 880-31305-A-3 Matrix: Solid Analysis Batch: 59411	150       S1         LCSD       LC         %Recovery       Qu         103       122         S5-D       MS         Sample       Sa         Result       Qu         <50.3	SSD ualifier	70 - 130         Spike         Added         1000         1000         1000         1000         1000         1000         5pike         Added         1010	Result           899.2           968.7           968.7 <b>MS Result</b> 952.4	Qual *1 MS	lifier	Unit mg/Kg mg/Kg <u>Unit</u> mg/Kg	ient (	<u>D</u>	%Rec         90           90         97           97         97           Client S           %Rec         94	Prep T Prep %Rec Limits 70 - 130 70 - 130 70 - 130 Sample ID: Prep T Prep T %Rec Limits 70 - 130	ype: To Batch 16 22 Matrix ype: To	otal/NA : 59216 RPE Limi 20 20
o-Terphenyl Lab Sample ID: LCSD 880-592 Matrix: Solid Analysis Batch: 59411 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 880-31305-A-3 Matrix: Solid Analysis Batch: 59411 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	150       S1         LCSD       LC         %Recovery       Qu         103       122         S5-D MS       Sample         Result       Qu         <50.3	SD ualifier imple ualifier *1	70 - 130         Spike         Added         1000         1000         1000         1000         1000         1000         5pike         Added         1010         1010	Result           899.2           968.7           968.7 <b>MS Result</b> 952.4	Qual *1 MS	lifier	Unit mg/Kg mg/Kg <u>Unit</u> mg/Kg	ient (	<u>D</u>	%Rec         90           90         97           97         97           Client S           %Rec         94	Prep T Prep %Rec Limits 70 - 130 70 - 130 70 - 130 Sample ID: Prep T Prep T %Rec Limits 70 - 130	ype: To Batch 16 22 Matrix ype: To	otal/NA : 59216 RPE Limi 20 20 20 x Spike otal/NA
o-Terphenyl Lab Sample ID: LCSD 880-592 Matrix: Solid Analysis Batch: 59411 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 880-31305-A-3 Matrix: Solid Analysis Batch: 59411 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	150       S1         LCSD       LC         %Recovery       Qu         103       122         S5-D       MS         Sample       Sa         Result       Qu         <50.3	SD valifier simple valifier *1 S valifier	70 - 130         Spike         Added         1000         1000         1000         1000         1000         1000         5pike         Added         1010	Result           899.2           968.7           968.7 <b>MS Result</b> 952.4	Qual *1 MS	lifier	Unit mg/Kg mg/Kg <u>Unit</u> mg/Kg	ient (	<u>D</u>	%Rec         90           90         97           97         97           Client S           %Rec         94	Prep T Prep %Rec Limits 70 - 130 70 - 130 70 - 130 Sample ID: Prep T Prep T %Rec Limits 70 - 130	ype: To Batch 16 22 Matrix ype: To	otal/NA : 59216 RPE Limi 20 20 20 x Spike otal/NA

154 S1+

o-Terphenyl

70 - 130

## **QC Sample Results**

Client: Carmona Resources Project/Site: Tonto 15 State #1

Job ID: 880-31271-1 SDG: Lea County, New Mexico

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

Matrix: Solid Analysis Batch: 59411     Prep Type: Total/NA Prep Batch: 59216       Sample     Sample     Spike     MSD     MSD     %Rec     RPD       Analyte     Result     Qualifier     Added     Result     Qualifier     Unit     D     %Rec     RPD       Gasoline Range Organics (GRO)-C6-C10     1010     1010     1091     mg/Kg     108     70.130     14     20       Diesel Range Organics (Over C10-C28)     <50.3     U *1     1010     1222     mg/Kg     117     70.130     13     20       Surrogate     %Recovery S1+     Qualifier     Limits 1-Chlorooctane     S1+     70.130       o-Terphenyl     177     S1+     70.130     13     20	Lab Sample ID: 880-31305-4	A-35-E MSD					CI	ient Sa	ample IC	: Matrix Sp	ike Dup	licate	
SampleSampleSampleSpikeMSDMSDMSDRecRPDAnalyteResultQualifierAddedResultQualifierUnitD%RecLimitsRPDLimitGasoline Range Organics<50.3U10101091mg/KgD%RecLimitsRPDLimit(GRO)-C6-C10<50.3U*110101222mg/Kg11770 - 1301320Diesel Range Organics (Over C10-C28)<50.3U*110101222mg/Kg11770 - 1301320MSD T-ChlorooctaneMSDMSD </th <th>Matrix: Solid</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>Prep T</th> <th>ype: To</th> <th>tal/NA</th> <th></th>	Matrix: Solid									Prep T	ype: To	tal/NA	
AnalyteResultQualifierAddedResultQualifierUnitD%RecLimitsRPDLimitGasoline Range Organics<50.3U10101091mg/Kg10870 - 1301420(GRO)-C6-C10<50.3U*110101222mg/Kg11770 - 1301320Diesel Range Organics (Over C10-C28)<50.3U*110101222mg/Kg11770 - 1301320MSD Surrogate 1-ChlorooctaneMSD 163S1+Zimits 70 - 130Limits 70 - 130Limits 70 - 130MSD	Analysis Batch: 59411									Prep	Batch:	59216	
Gasoline Range Organics       <50.3       U       1010       1091       mg/Kg       108       70 - 130       14       20         (GR0)-C6-C10       Diesel Range Organics (Over       <50.3       U *1       1010       1222       mg/Kg       117       70 - 130       13       20         C10-C28)       MSD       MSD       MSD       100       1222       mg/Kg       117       70 - 130       13       20         Surrogate       %Recovery       Qualifier       Limits       163       S1+       70 - 130       130       100		Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
(GRO)-C6-C10 Diesel Range Organics (Over  C10-C28)<50.3 U *110101222mg/Kg11770 - 1301320MSD MSDSurrogate 1-Chlorooctane%Recovery 	Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Diesel Range Organics (Over       <50.3       U *1       1010       1222       mg/Kg       117       70 - 130       13       20         C10-C28)       MSD       MSD       MSD       MSD       1010       1222       mg/Kg       117       70 - 130       13       20         Surrogate       %Recovery       Qualifier       Limits       100	0 0	<50.3	U	1010	1091		mg/Kg		108	70 - 130	14	20	
C10-C28) MSD MSD Surrogate <u>%Recovery Qualifier</u> Limits 1-Chlorooctane <u>163</u> S1+ 70 - 130													÷
MSDMSDSurrogate%RecoveryQualifierLimits1-Chlorooctane163S1+70 - 130		<50.3	U *1	1010	1222		mg/Kg		117	70 - 130	13	20	
Surrogate%RecoveryQualifierLimits1-Chlorooctane163\$1+70 - 130	010-028)												1
1-Chlorooctane 163 S1+ 70 - 130		MSD	MSD										
	Surrogate	%Recovery	Qualifier	Limits									2
o-Terphenyl 177 S1+ 70 - 130	1-Chlorooctane			70 - 130									
	o-Terphenyl	177	S1+	70 - 130									

**Client Sample ID** 

Lab Control Sample

Lab Control Sample Dup

Matrix Spike Duplicate

**Client Sample ID** 

Method Blank

Method Blank

Matrix Spike

S-4 (3')

## **QC Association Summary**

Prep Type

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Prep Type

Total/NA

Matrix

Solid

Solid

Solid

Solid

Solid

Solid

Matrix

Solid

Client: Carmona Resources Project/Site: Tonto 15 State #1

**GC VOA** 

880-31271-1

Prep Batch: 58969 Lab Sample ID

MB 880-58969/5-A

LCS 880-58969/1-A

LCSD 880-58969/2-A

880-31278-A-1-B MS

Prep Batch: 59110

Lab Sample ID

MB 880-59110/5-A

880-31278-A-1-C MSD

Job ID: 880-31271-1 SDG: Lea County, New Mexico

Method

5035

5035

5035

5035

5035

5035

Method

5035

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Analysis Batch: 59172

ab Sample ID.	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
80-31271-1	S-4 (3')	Total/NA	Solid	8021B	58969
/IB 880-58969/5-A	Method Blank	Total/NA	Solid	8021B	58969
/IB 880-59110/5-A	Method Blank	Total/NA	Solid	8021B	59110
CS 880-58969/1-A	Lab Control Sample	Total/NA	Solid	8021B	58969
CSD 880-58969/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	58969
80-31278-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	58969
80-31278-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	58969

	Prep Type	Matrix	Method	Prep Batch
880-31271-1 S-4 (3')	Total/NA	Solid	Total BTEX	

#### GC Semi VOA

#### Prep Batch: 59216

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31271-1	S-4 (3')	Total/NA	Solid	8015NM Prep	
MB 880-59216/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-59216/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-59216/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-31305-A-35-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-31305-A-35-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

#### Analysis Batch: 59411

880-31271-1

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
880-31271-1	<u> </u>	Total/NA	Solid	8015B NM	59216
MB 880-59216/1-A	Method Blank	Total/NA	Solid	8015B NM	59216
LCS 880-59216/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	59216
LCSD 880-59216/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	59216
880-31305-A-35-D MS	Matrix Spike	Total/NA	Solid	8015B NM	59216
880-31305-A-35-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	59216
Analysis Batch: 59635					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch

Total/NA

Solid

8015 NM

S-4 (3')
Job ID: 880-31271-1 SDG: Lea County, New Mexico

# Lab Sample ID: 880-31271-1 Matrix: Solid

Client Sample ID: S-4 (3') Date Collected: 07/25/23 00:00 Date Received: 07/26/23 16:45

Client: Carmona Resources

Project/Site: Tonto 15 State #1

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	58969	08/01/23 09:01	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	59172	08/04/23 04:27	SM	EET MID
Total/NA	Analysis	Total BTEX		1			59319	08/04/23 10:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			59635	08/08/23 12:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	59216	08/03/23 10:03	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59411	08/07/23 17:49	SM	EET MID

#### Laboratory References:

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

Eurofins Midland

Released to Imaging: 11/6/2023 11:57:53 AM

Client: Carmona Resources Project/Site: Tonto 15 State #1 Job ID: 880-31271-1 SDG: Lea County, New Mexico

#### Laboratory: Eurofins Midland

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

uthority	P	rogram	Identification Number	Expiration Date
exas		IELAP	T104704400-23-26	06-30-24
The following analytes	are included in this report, b	ut the laboratory is not certif	ed by the governing authority. This list ma	w include analytes for w
the agency does not of	fer certification.	,		, ,
• •		Matrix	Analyte	
the agency does not of	fer certification.	,		

Eurofins Midland

Released to Imaging: 11/6/2023 11:57:53 AM

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# **Method Summary**

#### Client: Carmona Resources Project/Site: Tonto 15 State #1

Job ID: 880-31271-1 SDG: Lea County, New Mexico

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
Laboratory Re			
EET MID =	Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440		

#### Protocol References:

#### Laboratory References:

Eurofins Midland

# Sample Summary

Client: Carmona Resources Project/Site: Tonto 15 State #1 Job ID: 880-31271-1 SDG: Lea County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-31271-1	S-4 (3')	Solid	07/25/23 00:00	07/26/23 16:45

#### PO # Phone Sampler's Name Comments Email results to Mike Carmona mcarmona@carmonaresources com, Conner Moehring cmoehring@carmonaresources com, Clint Meri SAMPLE RECEIPT Project Location Project Number Received Intact: Project Name City, State ZIP <sup>2</sup>roject Manager ample Custody Seals. Company Name otal Containers .ddress ooler Custody Seals. Sample Identification $\mathbb{A}$ S-4 (3') Clinton Merritt Midland, TX 79701 Carmona Resources 310 W Wall St Ste 500 Yes Yes No Lea County New Mexico Fepap Blank Tonto 15 State #1 Relinquished by: (Signature) es S No Z No. 7 25 23 CCM 2089 Date MA Corrected Temperature Correction Factor Thermometer ID emperature Reading Yes Time ¥ø ( Due Date ✓ Routine Wet Ice Soil × Email Turn Around msanjan@marathonoil com Bill to (if different) City, State ZIP Company Name Address Water Rush 40 š 5 day z Comp Grab/ G # of Pres. Code Parameters \_ ۱ Date/Time 990 Town and Country Blvd Marathon Oil Corporation Houston TX 77024 Melodie Sanjari BTEX 8021B $\times$ shorts 6-0 TPH 8015M ( GRO + DRO + MRO) $\times$ Chloride 300 0 880-31271 Chain of Custody ANALYSIS REQUEST Received by Reporting Level II Level III ST/UST State of Project Program UST/PST PRP prownfields RC Deliverables EDD (Signature) Work Order Comments monaresources com ADaPT NahSO4 NABIS NahShO3 NaSO3 HCL HC Zn Acetate+NaOH Zn H PO4 HP $H_2SO_4$ $H_2$ Cool Cool None NO NaOH+Ascorbic Acid SAPC Page Preservative Codes Sample Comments RRP Other: Date/Time MeOH Me HNO<sub>3</sub> HN NaOH Na Level IV DI Water: H<sub>2</sub>O Dperfund ्र

#### Received by OCD: 9/21/2023 6:16:51 AM

## 8/8/2023

Work Order No:

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# Login Sample Receipt Checklist

Client: Carmona Resources

Login Number: 31271 List Number: 1

<6mm (1/4").

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	N/A	

Job Number: 880-31271-1

List Source: Eurofins Midland

SDG Number: Lea County, New Mexico

Received by OCD: 9/21/2023 6:16:51 AM



**Environment Testing** 

# **ANALYTICAL REPORT**

# PREPARED FOR

Attn: Clint Merritt Carmona Resources 310 W Wall St Ste 500 Midland, Texas 79701 Generated 8/7/2023 12:40:16 PM

# **JOB DESCRIPTION**

Tonto 15 State #1 SDG NUMBER Lea County, New Mexico

# **JOB NUMBER**

880-31280-1

ËOL

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

AMER

Generated 8/7/2023 12:40:16 PM

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

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Laboratory Job ID: 880-31280-1 SDG: Lea County, New Mexico

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# **Definitions/Glossary**

#### Client: Carmona Resources Project/Site: Tonto 15 State #1

Job ID: 880-31280-1 SDG: Lea County, New Mexico

Qualifiers		3
GC VOA		
Qualifier	Qualifier Description	
U	Indicates the analyte was analyzed for but not detected.	
GC Semi VOA		5
Qualifier	Qualifier Description	
*_	LCS and/or LCSD is outside acceptance limits, low 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.	8
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis	
%R	Percent Recovery	Q
CFL	Contains Free Liquid	3
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)	13
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)	

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Job ID: 880-31280-1 SDG: Lea County, New Mexico

#### Job ID: 880-31280-1

Client: Carmona Resources

Project/Site: Tonto 15 State #1

#### Laboratory: Eurofins Midland

#### Narrative

Job Narrative 880-31280-1

#### Receipt

The sample was received on 7/26/2023 4:45 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.5°C

#### **Receipt Exceptions**

The following sample was received and analyzed from an unpreserved bulk soil jar: S-4 (0-1') (880-31280-1).

#### GC VOA

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

#### GC Semi VOA

Method 8015MOD\_NM: The laboratory control sample (LCS) associated with preparation batch 880-59369 and analytical batch 880-59409 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.

Lab Sample ID: 880-31280-1

## Client Sample ID: S-4 (0-1') Date Collected: 07/25/23 00:00

Date Received: 07/26/23 16:45

Client: Carmona Resources

Project/Site: Tonto 15 State #1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/01/23 09:18	08/02/23 22:50	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/01/23 09:18	08/02/23 22:50	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/01/23 09:18	08/02/23 22:50	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		08/01/23 09:18	08/02/23 22:50	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/01/23 09:18	08/02/23 22:50	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		08/01/23 09:18	08/02/23 22:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130				08/01/23 09:18	08/02/23 22:50	1
1,4-Difluorobenzene (Surr)	110		70 - 130				08/01/23 09:18	08/02/23 22:50	1
Method: TAL SOP Total BTEX - To		culation Qualifier	RL	MDI	11-14		Drawarad	Amelyanad	Dil Fac
Analyte Total BTEX	- <u>Result</u> <0.00401		0.00401	MDL	Unit mg/Kg	D	Prepared	Analyzed 08/03/23 09:53	DIIFac
					ing/itg			00/00/20 00:00	
Method: SW846 8015 NM - Diese Analyte		Qualifier	GC) RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4		mg/Kg			08/07/23 10:15	1
Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.4	U *-	50.4		mg/Kg		08/04/23 17:30	08/06/23 16:42	1
GRO)-C6-C10 Diesel Range Organics (Over	<50.4	U	50.4		mg/Kg		08/04/23 17:30	08/06/23 16:42	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		08/04/23 17:30	08/06/23 16:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
							00/04/00 47 00	00/00/00 10 10	
1-Chlorooctane	89		70 - 130				08/04/23 17:30	08/06/23 16:42	1

Eurofins Midland

880-31280-1

Matrix: Solid

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Client: Carmona Resources Project/Site: Tonto 15 State #1

Job ID: 880-31280-1 SDG: Lea County, New Mexico

#### Method: 8021B - Volatile Organic Compounds (GC) Matrix: Solid

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-31279-A-1-A MS	Matrix Spike	103	100	
880-31279-A-1-B MSD	Matrix Spike Duplicate	108	104	
880-31280-1	S-4 (0-1')	106	110	
LCS 880-58971/1-A	Lab Control Sample	104	100	
LCSD 880-58971/2-A	Lab Control Sample Dup	95	103	
MB 880-58971/5-A	Method Blank	84	89	
MB 880-58998/5-A	Method Blank	85	89	

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

#### Matrix: Solid

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Sample ID	Client Sample ID	(70-130)	(70-130)	
280-1	S-4 (0-1')	89	92	
664-A-2-F MS	Matrix Spike	123	104	
64-A-2-G MSD	Matrix Spike Duplicate	128	112	
-59369/2-A	Lab Control Sample	93	94	
30-59369/3-A	Lab Control Sample Dup	85	82	
80-59369/1-A	Method Blank	88	94	

#### Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Prep Type: Total/NA

Eurofins Midland

Prep Type: Total/NA

# **QC Sample Results**

Client: Carmona Resources Project/Site: Tonto 15 State #1

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

# Lab Sample ID: MB 880-58971/5-A

Matrix: Solid Analysis Batch: 59072

-	МВ	МВ							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	< 0.00200	U	0.00200		mg/Kg		08/01/23 09:18	08/02/23 22:08	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/01/23 09:18	08/02/23 22:08	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/01/23 09:18	08/02/23 22:08	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/01/23 09:18	08/02/23 22:08	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/01/23 09:18	08/02/23 22:08	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/01/23 09:18	08/02/23 22:08	1
	МВ	МВ							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 130				08/01/23 09:18	08/02/23 22:08	1
1,4-Difluorobenzene (Surr)	89		70 - 130				08/01/23 09:18	08/02/23 22:08	1

#### Lab Sample ID: LCS 880-58971/1-A Matrix: Solid

## Analysis Batch: 59072

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.07714		mg/Kg		77	70 - 130	
Toluene	0.100	0.1014		mg/Kg		101	70 - 130	
Ethylbenzene	0.100	0.08911		mg/Kg		89	70 - 130	
m-Xylene & p-Xylene	0.200	0.1753		mg/Kg		88	70 - 130	
o-Xylene	0.100	0.08985		mg/Kg		90	70 - 130	

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

#### Lab Sample ID: LCSD 880-58971/2-A

### Matrix: Solid

Analysis Batch: 59072							Prep	Batch:	58971
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.08576		mg/Kg		86	70 - 130	11	35
Toluene	0.100	0.1000		mg/Kg		100	70 - 130	1	35
Ethylbenzene	0.100	0.08572		mg/Kg		86	70 - 130	4	35
m-Xylene & p-Xylene	0.200	0.1641		mg/Kg		82	70 - 130	7	35
o-Xylene	0.100	0.08388		mg/Kg		84	70 - 130	7	35

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

# Lab Sample ID: 880-31279-A-1-A MS

#### Matrix: Solid Analysia Rataby 50072

Analysis Batch: 59072									Prep	Batch: 58971
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00202	U	0.0996	0.07513		mg/Kg		75	70 - 130	
Toluene	<0.00202	U	0.0996	0.08995		mg/Kg		90	70 - 130	

**Eurofins Midland** 

Prep Type: Total/NA

**Client Sample ID: Matrix Spike** 

**Client Sample ID: Method Blank** 

Prep Type: Total/NA

Prep Batch: 58971

Prep Type: Total/N Prep Batch: 589

Prep Type: Total/NA

Client Sample ID: Lab Control Sample Dup

Client	Sample	ID: Lab Co	ontrol Sample	
			ype: Total/NA	
			Batch: 58971	
		%Rec		
D	%Rec	Limits		
	77	70 - 130		
	101	70 - 130		

Client: Carmona Resources

Project/Site: Tonto 15 State #1

#### Job ID: 880-31280-1 SDG: Lea County, New Mexico

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

Lab Sample ID: 880-31279-A	A-1-A MS										Client S	Sample ID: I		
Matrix: Solid												Prep Ty		
Analysis Batch: 59072												Prep E	atch:	<b>5897</b> 1
	Sample	Sam	ple	Spike	MS	MS						%Rec		
Analyte	Result	Qual	ifier	Added	Result	Qual	lifier	Unit		D	%Rec	Limits		
Ethylbenzene	<0.00202	U		0.0996	0.08100			mg/Kg			81	70 - 130		
m-Xylene & p-Xylene	<0.00403	U		0.199	0.1561			mg/Kg			78	70 - 130		
o-Xylene	<0.00202	U		0.0996	0.07987			mg/Kg			80	70 - 130		
	MS	MS												
Surrogate	%Recovery	Qua	lifier	Limits										
4-Bromofluorobenzene (Surr)	103			70 - 130										
1,4-Difluorobenzene (Surr)	100			70 - 130										
Lab Sample ID: 880-31279-A	A-1-B MSD								Clie	nt Sa	mple ID:	Matrix Spil	ce Dup	olicate
Matrix: Solid												Prep Ty	pe: To	tal/N/
Analysis Batch: 59072												Prep E	atch:	58971
	Sample	Sam	ple	Spike	MSD	MSD	)					%Rec		RPD
Analyte	Result	Qual	ifier	Added	Result	Qual	lifier	Unit		D	%Rec	Limits	RPD	Limi
Benzene	<0.00202	U		0.0994	0.07017			mg/Kg			71	70 - 130	7	3
Toluene	<0.00202	U		0.0994	0.08738			mg/Kg			88	70 - 130	3	3
Ethylbenzene	<0.00202	U		0.0994	0.07772			mg/Kg			78	70 - 130	4	35
n-Xylene & p-Xylene	<0.00403	U		0.199	0.1481			mg/Kg			75	70 - 130	5	35
o-Xylene	<0.00202	U		0.0994	0.07711			mg/Kg			78	70 - 130	4	35
	MSD	MSD	1											
Surrogate	%Recovery	Qua	lifier	Limits										
4-Bromofluorobenzene (Surr)	108			70 - 130										
1,4-Difluorobenzene (Surr)	104			70 - 130										
Lab Sample ID: MB 880-589	98/5-A										Client Sa	mple ID: M	ethod	Blank
Matrix: Solid												Prep Ty	pe: To	tal/NA
Analysis Batch: 59072												Prep E	atch:	58998
		ΜВ	МВ											
Analyte	Re	sult	Qualifier	RI	L	MDL	Unit		D	Pi	repared	Analyzed	I	Dil Fac
Benzene	<0.00	200	U	0.00200	0		mg/Kg	3	_	08/0	1/23 10:59	08/02/23 11	:28	1
Toluene	<0.00	200	U	0.00200	D		mg/Kg			08/0	1/23 10:59	08/02/23 11	:28	1
	<0.00	200	U	0.00200	D		mg/Kg	3		08/0	1/23 10:59	08/02/23 11	:28	
Ethylbenzene	-0.00		U	0.00400	D		mg/Kg			08/0	1/23 10:59	08/02/23 11		
	<0.00	400					mg/Kg				1/23 10:59	08/02/23 11		
m-Xylene & p-Xylene				0.00200	)		0.	-						
	<0.00	200	U	0.00200 0.00400			mg/Kg	9		08/0	1/23 10:59	08/02/23 11	28	
n-Xylene & p-Xylene o-Xylene	<0.00 <0.00	200	U U				mg/Ko	9		08/0	1/23 10.59	08/02/23 11	.28	
n-Xylene & p-Xylene o-Xylene	<0.00 <0.00 <0.00	200 400 <b>MB</b>	U U				mg/Ko	9			repared	08/02/23 11 Analyzed		Dil Fa
n-Xylene & p-Xylene o-Xylene Kylenes, Total	<0.00 <0.00 <0.00	200 400 <b>MB</b>	U U <i>MB</i>	0.00400			mg/K	3		Pi			I	Dil Fac
n-Xylene & p-Xylene o-Xylene Kylenes, Total <b>Surrogate</b>	<0.00 <0.00 <0.00	200 400 <i>MB</i> /ery	U U <i>MB</i>	0.00400			mg/K	3		<b>Pi</b> 08/0	repared	Analyzed	I :28	

Lab Sample ID: MB 880-59369/1-A Matrix: Solid							Client Sa	mple ID: Metho Prep Type: 1	
Analysis Batch: 59409								Prep Batch	n: <b>59369</b>
	МВ	МВ							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		08/04/23 17:29	08/06/23 08:16	1

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(GRO)-C6-C10

Project/Site: Tonto 15 State #1

Job ID: 880-31280-1 SDG: Lea County, New Mexico

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

Lab Sample ID: MB 880-59369	/ <b>1-A</b>										<b>Client Sa</b>	ample ID: I	Method	Blank
Matrix: Solid												Prep T	ype: To	tal/NA
Analysis Batch: 59409												Prep	Batch:	59369
-		МВ	МВ											
Analyte	Re	sult	Qualifier	RL		MDL	Unit		D	P	repared	Analyz	ed	Dil Fac
Diesel Range Organics (Over C10-C28)		50.0	U	50.0			mg/Kg		_	08/04	4/23 17:29	08/06/23	08:16	1
Oll Range Organics (Over C28-C36)	</td <td>50.0</td> <td>U</td> <td>50.0</td> <td></td> <td></td> <td>mg/Kg</td> <td>I</td> <td></td> <td>08/04</td> <td>4/23 17:29</td> <td>08/06/23 (</td> <td>08:16</td> <td></td>	50.0	U	50.0			mg/Kg	I		08/04	4/23 17:29	08/06/23 (	08:16	
			МВ											
Surrogate	%Recov		Qualifier	Limits							repared	Analyz		Dil Fac
1-Chlorooctane		88		70 - 130							4/23 17:29			1
o-Terphenyl		94		70 - 130						08/0	4/23 17:29	08/06/23	08:16	1
Lab Sample ID: LCS 880-5936	9/2-A								С	lient	Sample	ID: Lab Co	ontrol S	ample
Matrix: Solid												Prep T	ype: To	tal/NA
Analysis Batch: 59409												Prep	Batch:	59369
				Spike	LCS	LCS						%Rec		
Analyte				Added	Result	Qua	lifier	Unit		D	%Rec	Limits		
Gasoline Range Organics				1000	661.8	*-		mg/Kg			66	70 - 130		
(GRO)-C6-C10				1000	070 -						~-	70 100		
Diesel Range Organics (Over C10-C28)				1000	873.3			mg/Kg			87	70 - 130		
010-028)														
	LCS													
Surrogate		Quali	ifier	Limits										
1-Chlorooctane o-Terphenyl	93 94			70 - 130 70 - 130										
Matrix: Solid Analysis Batch: 59409													ype: To Batch:	
-				Spike	LCSD	LCS	D					%Rec		RPD
Analyte				Added	Result	Qua	lifier	Unit						
Gasoline Range Organics								•		D	%Rec	Limits	RPD	Limit
(GRO)-C6-C10 Diesel Range Organics (Over				1000	660.9	*_		mg/Kg		<u>D</u>	%Rec	Limits 70 - 130	<b>RPD</b> 0	
					660.9	*-		mg/Kg		<u>D</u>	66	70 - 130	0	<b>Limi</b> 20
				1000 1000		*-				<u>D</u>				Limit
	LCSD	LCSD	)		660.9	*_		mg/Kg		<u>D</u>	66	70 - 130	0	<b>Limi</b> 20
	LCSD %Recovery				660.9	*_		mg/Kg		<u>D</u>	66	70 - 130	0	<b>Limi</b> 20
C10-C28)				1000	660.9	*-		mg/Kg		<u>D</u>	66	70 - 130	0	<b>Limi</b> 20
C10-C28) Surrogate	%Recovery			1000 <i>Limits</i>	660.9	*_		mg/Kg		<u> </u>	66	70 - 130	0	<b>Limi</b> 20
C10-C28) Surrogate 1-Chlorooctane o-Terphenyl	%Recovery 85 82			1000 <i>Limits</i> 70 - 130	660.9	*_		mg/Kg		. <u>D</u>	85	70 - 130 70 - 130	3	Limit 20 20
C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 880-31664-A-2	%Recovery 85 82			1000 <i>Limits</i> 70 - 130	660.9	*_		mg/Kg		. <u>D</u>	85	70 - 130 70 - 130 Sample ID	0 3	Limit 20 20 Spike
C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 880-31664-A-2 Matrix: Solid	%Recovery 85 82			1000 <i>Limits</i> 70 - 130	660.9	*_		mg/Kg		<u>D</u>	85	70 - 130 70 - 130 Sample ID: Prep T	0 3 : Matrix : Ype: Tc	Limit 20 20 Spike otal/NA
C10-C28)  Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 880-31664-A-2	%Recovery 85 82 R-F MS	Quali	fier	1000 Limits 70 - 130 70 - 130	660.9 845.2	* <u>-</u>		mg/Kg		<u>D</u>	85	70 - 130 70 - 130 Sample ID: Prep T	0 3	Limit 20 20 Spike otal/NA
C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 880-31664-A-2 Matrix: Solid	%Recovery 85 82	<u>Quali</u> Samp	ifier	1000 <i>Limits</i> 70 - 130	660.9 845.2	MS	lifier	mg/Kg		D	85	70 - 130 70 - 130 Sample ID: Prep T Prep	0 3 : Matrix : Ype: Tc	Limit 20 20 Spike otal/NA
C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 880-31664-A-2 Matrix: Solid Analysis Batch: 59409	%Recovery 85 82 P-F MS Sample	<u>Quali</u> Samp <u>Quali</u>	ifier	1000 <i>Limits</i> 70 - 130 70 - 130 <b>Spike</b>	660.9 845.2 MS	MS	lifier	mg/Kg			66 85 Client	70 - 130 70 - 130 Sample ID Prep T Prep %Rec	0 3 : Matrix : Ype: Tc	Limit 20 20 Spike otal/NA
C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 880-31664-A-2 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10	%Recovery 85 82 P-F MS Sample Result <50.3	<u>Quali</u> Samp <u>Quali</u>	ifier	1000 <i>Limits</i> 70 - 130 70 - 130 <b>Spike</b> Added 993	660.9 845.2 MS Result 876.9	MS	lifier	mg/Kg mg/Kg <u>Unit</u> mg/Kg			66 85 Client 9 %Rec 86	70 - 130 70 - 130 <b>Sample ID</b> <b>Prep T</b> <b>Prep</b> %Rec Limits 70 - 130	0 3 : Matrix : Ype: Tc	Limit 20 20 Spike otal/NA
C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 880-31664-A-2 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics	%Recovery 85 82 P-F MS Sample Result	<u>Quali</u> Samp <u>Quali</u>	ifier	1000 <i>Limits</i> 70 - 130 70 - 130 <b>Spike</b> Added	660.9 845.2 MS Result	MS	lifier	mg/Kg mg/Kg Unit			66 85 Client 9	70 - 130 70 - 130 Sample ID Prep T Prep %Rec Limits	0 3 : Matrix : Ype: Tc	Limit 20 20 Spike otal/NA
C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 880-31664-A-2 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	%Recovery 85 82 P-F MS Sample Result <50.3	Quali Samp Quali U *-	ifier	1000 <i>Limits</i> 70 - 130 70 - 130 <b>Spike</b> Added 993	660.9 845.2 MS Result 876.9	MS	lifier	mg/Kg mg/Kg <u>Unit</u> mg/Kg			66 85 Client 9 %Rec 86	70 - 130 70 - 130 <b>Sample ID</b> <b>Prep T</b> <b>Prep</b> %Rec Limits 70 - 130	0 3 : Matrix : Ype: Tc	Limit 20 20 Spike otal/NA
C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 880-31664-A-2 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	%Recovery         85         82           8-F MS         Sample         Result         <50.3	Quali Samp Quali U *-	ifier	1000 <i>Limits</i> 70 - 130 70 - 130 <b>Spike</b> Added 993	660.9 845.2 MS Result 876.9	MS	lifier	mg/Kg mg/Kg <u>Unit</u> mg/Kg			66 85 Client 9 %Rec 86	70 - 130 70 - 130 <b>Sample ID</b> <b>Prep T</b> <b>Prep</b> %Rec Limits 70 - 130	0 3 : Matrix : Ype: Tc	Limit 20 20 Spike otal/NA
C10-C28)  Surrogate  1-Chlorooctane o-Terphenyl  Lab Sample ID: 880-31664-A-2 Matrix: Solid Analysis Batch: 59409  Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	%Recovery         85         82           8-F MS         Sample         Result         <50.3	Quali Samp Quali U *-	ifier	1000 Limits 70 - 130 70 - 130 <b>Spike</b> Added 993 993	660.9 845.2 MS Result 876.9	MS	lifier	mg/Kg mg/Kg <u>Unit</u> mg/Kg			66 85 Client 9 %Rec 86	70 - 130 70 - 130 <b>Sample ID</b> <b>Prep T</b> <b>Prep</b> %Rec Limits 70 - 130	0 3 : Matrix : Ype: Tc	Limit 20 20 Spike otal/NA

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104

o-Terphenyl

70 - 130

# **QC Sample Results**

Client: Carmona Resources Project/Site: Tonto 15 State #1 Job ID: 880-31280-1 SDG: Lea County, New Mexico

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

SampleSampleSampleSpikeMSDMSD%RecAnalyteResultQualifierAddedResultQualifierUnitD%RecLimitsRPDGasoline Range Organics<50.3U *-992918.4mg/Kg9170 - 1305(GRO)-C6-C10Diesel Range Organics (Over61.59921254mg/Kg12070 - 1306Diesel Range Organics (Over61.59921254mg/Kg12070 - 1306C10-C28)MSDMSDSurrogate%RecoveryQualifierLimits 70 - 1301-Chlorooctane12870 - 130o-Terphenyl11270 - 130	alyteResultQualifierAddedResultQualifierUnitD%RecLimitsRPDLimitisoline Range Organics<50.3U*-992918.4mg/Kg9170-130520RO)-C6-C10asel Range Organics (Over61.59921254mg/Kg12070-1306200-C28)MSDMSDrrogate%RecoveryQualifierLimits20/chlorooctane12870-13070-13062011270-130	Analysis Batch: 59409	0	0	0							Batch:		
Gasoline Range Organics       <50.3       U*-       992       918.4       mg/Kg       91       70 - 130       5         (GR0)-C6-C10       Diesel Range Organics (Over       61.5       992       1254       mg/Kg       120       70 - 130       6         C10-C28)       MSD       MSD       MSD       120       70 - 130       6         Surrogate       %Recovery       Qualifier       Limits       70 - 130       128	isoline Range Organics       <50.3       U*-       992       918.4       mg/Kg       91       70 - 130       5       20         RO)-C6-C10       asel Range Organics (Over       61.5       992       1254       mg/Kg       120       70 - 130       6       20         0-C28)       MSD       MSD       MSD       mg/Kg       120       70 - 130       6       20         Imits         Chlorooctane       128       70 - 130	Analyta	-	-	Spike Added			Unit	п	%Rec	%Rec Limits	RPD	RPD Limit	
(GRO)-C6-C10 Diesel Range Organics (Over 61.5 992 1254 mg/Kg 120 70 - 130 6 C10-C28) MSD MSD Surrogate <u>%Recovery</u> Qualifier Limits 1-Chlorooctane 128 70 - 130	RO)-C6-C10 asel Range Organics (Over 61.5 992 1254 mg/Kg 120 70 - 130 6 20 0-C28) MSD MSD rrogate <u>%Recovery</u> Qualifier Limits Chlorooctane 128 70 - 130 Terphenyl 112 70 - 130	-					Quaimer							
C10-C28) MSD MSD Surrogate <u>%Recovery</u> Qualifier Limits 1-Chlorooctane 128 70 - 130	NSD MSD rrogate <u>%Recovery</u> Qualifier Limits Chlorooctane 128 70 - 130 Terphenyl 112 70 - 130			0	002	010.1		mg/rtg		01	10-100	Ũ	20	
MSDMSDSurrogate%RecoveryQualifierLimits1-Chlorooctane12870 - 130	MSDMSDrrogate%RecoveryQualifierLimitsChlorooctane12870 - 130Terphenyl11270 - 130	. ,	61.5		992	1254		mg/Kg		120	70 - 130	6	20	
Surrogate%RecoveryQualifierLimits1-Chlorooctane12870 - 130	rrogate%RecoveryQualifierLimitsChlorooctane12870 - 130Terphenyl11270 - 130	C10-C28)												
1-Chlorooctane 128 70 - 130	Chlorooctane 128 70 - 130 Terphenyl 112 70 - 130		MSD	MSD										
	Terphenyl 112 70 - 130	Surrogate	%Recovery	Qualifier	Limits									
o-Terphenyl 112 70 - 130		1-Chlorooctane	128		70 - 130									
		o-Terphenyl	112		70 - 130									

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# **QC Association Summary**

Client: Carmona Resources Project/Site: Tonto 15 State #1

Job ID: 880-31280-1 SDG: Lea County, New Mexico

## **GC VOA**

#### Prep Batch: 58971

Prep Batch: 58971					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31280-1	S-4 (0-1')	Total/NA	Solid	5035	
MB 880-58971/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-58971/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-58971/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-31279-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
880-31279-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	
Lab Sample ID MB 880-58998/5-A	Client Sample ID Method Blank	Prep Type Total/NA	Matrix Solid	Method 5035	Prep Batch
nalysis Batch: 59072	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31280-1	S-4 (0-1')	Total/NA	Solid	8021B	58971
MB 880-58971/5-A	Method Blank	Total/NA	Solid	8021B	58971
VB 880-58998/5-A	Method Blank	Total/NA	Solid	8021B	58998
LCS 880-58971/1-A	Lab Control Sample	Total/NA	Solid	8021B	58971
LCSD 880-58971/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	58971
380-31279-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	58971
		T ( 1/516			

#### Analysis Batch: 59072

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31280-1	S-4 (0-1')	Total/NA	Solid	8021B	58971
MB 880-58971/5-A	Method Blank	Total/NA	Solid	8021B	58971
MB 880-58998/5-A	Method Blank	Total/NA	Solid	8021B	58998
LCS 880-58971/1-A	Lab Control Sample	Total/NA	Solid	8021B	58971
LCSD 880-58971/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	58971
880-31279-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	58971
880-31279-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	58971

#### Analysis Batch: 59201

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
880-31280-1	S-4 (0-1')	Total/NA	Solid	Total BTEX	

#### GC Semi VOA

#### Prep Batch: 59369

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31280-1	S-4 (0-1')	Total/NA	Solid	8015NM Prep	
MB 880-59369/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-59369/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-59369/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-31664-A-2-F MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-31664-A-2-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

#### Analysis Batch: 59409

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
880-31280-1	S-4 (0-1')	Total/NA	Solid	8015B NM	59369
MB 880-59369/1-A	Method Blank	Total/NA	Solid	8015B NM	59369
LCS 880-59369/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	59369
LCSD 880-59369/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	59369
880-31664-A-2-F MS	Matrix Spike	Total/NA	Solid	8015B NM	59369
880-31664-A-2-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	59369
Analysis Batch: 59482					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31280-1	S-4 (0-1')	Total/NA	Solid	8015 NM	

#### Client Sample ID: S-4 (0-1') Date Collected: 07/25/23 00:00 Date Received: 07/26/23 16:45

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	58971	08/01/23 09:18	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	59072	08/02/23 22:50	SM	EET MID
Total/NA	Analysis	Total BTEX		1			59201	08/03/23 09:53	SM	EET MID
Total/NA	Analysis	8015 NM		1			59482	08/07/23 10:15	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	59369	08/04/23 17:30	ткс	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59409	08/06/23 16:42	SM	EET MID

#### Laboratory References:

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

Job ID: 880-31280-1 SDG: Lea County, New Mexico

# Lab Sample ID: 880-31280-1

Matrix: Solid

5

9

Eurofins Midland

Client: Carmona Resources Project/Site: Tonto 15 State #1 Job ID: 880-31280-1 SDG: Lea County, New Mexico

#### Laboratory: Eurofins Midland

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

uthority		Program	Identification Number	Expiration Date	
exas		NELAP	T104704400-23-26	06-30-24	
The following analytes the agency does not of	er certification.	· •	ied by the governing authority. This list ma	ay include analytes for v	
Analysis Mathod	Dron Mothod	Matrix	Apolyto		
Analysis Method 8015 NM	Prep Method	Matrix Solid	Analyte Total TPH		

Eurofins Midland

# **Method Summary**

#### Client: Carmona Resources Project/Site: Tonto 15 State #1

Job ID: 880-31280-1 SDG: Lea County, New Mexico

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
Laboratory Re	<ul> <li>TestAmerica Laboratories, Standard Operating Procedure</li> <li>Iferences:</li> <li>Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440</li> </ul>		

#### Protocol References:

#### Laboratory References:

Eurofins Midland

# Sample Summary

Client: Carmona Resources Project/Site: Tonto 15 State #1 Job ID: 880-31280-1 SDG: Lea County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-31280-1	S-4 (0-1')	Solid	07/25/23 00:00	07/26/23 16:45

Marg	Comments Email results			S-4 (0-1')	Sample Identification	Total Containers	Sample Custody Seals	Cooler Custody Seals.	Received Intact:	SAMPLE RECEIPT	PO #	Project Location	Project Number	Project Name	Phone	ate ZIP	Address 310 W	Company Name Carmor	Project Manager Clinton Merritt
Relinquished by (Signature)	to Mike Carmona m			7 25 23	Date		NO NA	IO (NA)	Mac) No	Temn Blank	CCM	Lea County, New Mexico	2089	Tonto 15 State #1		Midland, TX 79701	310 W Wall St Ste 500	Carmona Resources	Merritt
/ (Signature)	carmona@carm				Time	Corrected Temperature	Temperature Reading	Correction Factor	Thermomotor ID										
	onaresources			×	Soil	iture	ing		VVELICE	What has		Due Date	✓ Routine	Turn Around	Email				m
	com, Conner			Ð	Water Grab/ Comp	5.2	6	11.				5 day	Rush	round	msanjari@marathonoil.com	City State ZIP	Address	Company Name	Bill to (if different)
Day 7 - 7	Moehring (			1 ×	# of Cont		BT	Para EX 80					Code		thonoil com	Н	66	Ma	Me
Date/Time - <u>76-23</u> 1 (0Чら	moehring(			×	TPI	1 801	5M (		+ DI	२० +	MRC	))				Houston TX 77024	990 Town and Country Blvd	Marathon Oil Corporation	Melodie Sanjari
R	ocarmonaresources com, C	880-31280 Chain of Custody					*****							ANALYSIS REQUEST		)24	ountry Blvd	rporation	
Received by (Signature)	Email results to Mike Carmona mcarmona@carmonaresources com, Conner Moehring@carmonaresources com, Clint Merritt MerrittC@carmonaresources com	of Custody												EQUEST	Deliverables EDD AD	Reporting Level II Level III		Program UST/PST PRP rc	Work Orde
Date/Time	sources com				Sample Comments	NaOH+Ascorbic Acid SAPC	Zn Acetate+NaOH Zn	NaHSO4 NABIS	H PO4 HP	H <sub>2</sub> S0 <sub>4</sub> H <sub>2</sub> NaOH Na			None NO DI Water H <sub>2</sub> O	Preservative Codes	ADaPT  Other	ST/UST RRP Level IV		rownfields RC perfund	Page1of1_ Work Order Comments

8/7/2023

Work Order No:

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() ()

## Login Sample Receipt Checklist

Answer

N/A N/A

True

N/A

Comment

Client: Carmona Resources

Login Number: 31280 List Number: 1 Creator: Rodriguez, Leticia

tampered with.

Question
The cooler's custody seal, if present, is intact.
Sample custody seals, if present, are intact.
The cooler or samples do not appear to have been compromised or

Samples were received on ice. True True Cooler Temperature is acceptable. 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 True HTs) 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 True

There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs Containers requiring zero headspace have no headspace or bubble is

Containers requiring zero neadspace have no neadspace of bubble is
<6mm (1/4").</p>

Eurofins Midland Released to Imaging: 11/6/2023 11:57:53 AM 14

Job Number: 880-31280-1

List Source: Eurofins Midland

SDG Number: Lea County, New Mexico

Received by OCD: 9/21/2023 6:16:51 AM



**Environment Testing** 

# **ANALYTICAL REPORT**

# PREPARED FOR

Attn: Clint Merritt Carmona Resources 310 W Wall St Ste 500 Midland, Texas 79701 Generated 8/8/2023 11:29:37 AM

# **JOB DESCRIPTION**

Tonto 15 State #1 SDG NUMBER Lea County, New Mexico

# **JOB NUMBER**

880-31272-1

Eurofins Midland 1211 W. Florida Ave Midland TX 79701

See page two for job notes and contact information.

# **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

AMER

Generated 8/8/2023 11:29:37 AM

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

Eurofins Midland is a laboratory within Eurofins Environment Testing South Central, LLC, a company within Eurofins Environment Testing Group of Companies

Laboratory Job ID: 880-31272-1 SDG: Lea County, New Mexico

# **Table of Contents**

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#### Client: Carmona Resources Project/Site: Tonto 15 State #1

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Job ID: 880-31272-1 SDG: Lea County, New Mexico

# Qualifiers

Quaimers		3
GC VOA		
Qualifier	Qualifier Description	
S1-	Surrogate recovery exceeds control limits, low biased.	
U	Indicates the analyte was analyzed for but not detected.	5
GC Semi VOA		
Qualifier	Qualifier Description	
*1	LCS/LCSD RPD exceeds control limits.	
S1+	Surrogate recovery exceeds control limits, high biased.	
U	Indicates the analyte was analyzed for but not detected.	
Glossary		8
Abbreviation	These commonly used abbreviations may or may not be present in this report.	Q
¤	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	13
DLC	Decision Level Concentration (Radiochemistry)	
EDL	Estimated Detection Limit (Dioxin)	

Appreviation	These commonly used appreviations 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

#### Job ID: 880-31272-1

#### Laboratory: Eurofins Midland

#### Narrative

Job Narrative 880-31272-1

#### Receipt

The sample was received on 7/26/2023 4:45 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.5°C

#### **Receipt Exceptions**

The following sample was received and analyzed from an unpreserved bulk soil jar: S-5 (2') (880-31272-1).

#### GC VOA

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-59172 recovered above the upper control limit for Benzene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 880-59172/20).

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-59110 and analytical batch 880-59172 was outside the upper control limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: S-5 (2') (880-31272-1) and (880-31278-A-1-A). 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: The surrogate recovery for the blank associated with preparation batch 880-59216 and analytical batch 880-59411 was outside the upper control limits.

Method 8015MOD\_NM: Surrogate recovery for the following samples were outside control limits: S-5 (2') (880-31272-1), (CCV 880-59411/20), (CCV 880-59411/5), (LCS 880-59216/2-A), (880-31305-A-35-C), (880-31305-A-35-D MS) and (880-31305-A-35-E MSD). Evidence of matrix interferences is not obvious.

Method 8015MOD\_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-59216 and analytical batch 880-59411 recovered outside control limits for the following analytes: Diesel Range Organics (Over C10-C28).

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

4

# Lab Sample ID: 880-31272-1

Matrix: Solid

5

# Client: Carmona Resources Project/Site: Tonto 15 State #1

#### Client Sample ID: S-5 (2') Date Collected: 07/25/23 00:00 Date Received: 07/26/23 16:45

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	Organic Comp								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		08/01/23 09:01	08/04/23 04:47	1
Toluene	<0.00198	U	0.00198		mg/Kg		08/01/23 09:01	08/04/23 04:47	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		08/01/23 09:01	08/04/23 04:47	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		08/01/23 09:01	08/04/23 04:47	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		08/01/23 09:01	08/04/23 04:47	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		08/01/23 09:01	08/04/23 04:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130				08/01/23 09:01	08/04/23 04:47	1
1,4-Difluorobenzene (Surr)	69	S1-	70 - 130				08/01/23 09:01	08/04/23 04:47	1
Method: TAL SOP Total BTEX - T	otal BTEX Calo	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg		·	08/04/23 10:48	1
Total BTEX Method: SW846 8015 NM - Diese					mg/Kg			08/04/23 10:48	1
-	I Range Organ			MDL	mg/Kg Unit	D	Prepared	08/04/23 10:48 Analyzed	1 Dil Fac
Method: SW846 8015 NM - Diese	I Range Organ	<mark>ics (DRO) (</mark> Qualifier	GC)	MDL		D	Prepared		1 1
Method: SW846 8015 NM - Diese Analyte	I Range Organ Result <50.3	ics (DRO) ( Qualifier U	GC) 	MDL	Unit	D	Prepared	Analyzed	1 1
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Dies	I Range Organ Result <50.3 sel Range Orga	ics (DRO) ( Qualifier U	GC) 		Unit	D	Prepared	Analyzed	1 Dil Fac 1 Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH	I Range Organ Result <50.3 sel Range Orga	ics (DRO) ( Qualifier U anics (DRO) Qualifier	GC) <u>RL</u> 50.3 (GC)		Unit mg/Kg			Analyzed 08/08/23 12:15	1
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	I Range Organ Result <50.3 sel Range Orga Result	ics (DRO) ( Qualifier U anics (DRO) Qualifier	GC)		Unit mg/Kg Unit		Prepared	Analyzed 08/08/23 12:15 Analyzed	1
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10	I Range Organ Result <50.3 sel Range Orga Result	ics (DRO) ( Qualifier U mics (DRO) Qualifier U	GC)		Unit mg/Kg Unit		Prepared	Analyzed 08/08/23 12:15 Analyzed	1
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	I Range Organ Result <50.3 sel Range Orga Result <50.3 <50.3	ics (DRO) ( Qualifier U mics (DRO) Qualifier U U *1	GC) <u>RL</u> 50.3 (GC) <u>RL</u> 50.3 50.3		Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 08/03/23 10:03 08/03/23 10:03	Analyzed 08/08/23 12:15 Analyzed 08/07/23 18:11 08/07/23 18:11	1 Dil Fac 1
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	I Range Organ Result <50.3 sel Range Orga Result <50.3	ics (DRO) ( Qualifier U mics (DRO) Qualifier U U *1	GC) <u>RL</u> 50.3 (GC) <u>RL</u> 50.3		Unit mg/Kg Unit mg/Kg		Prepared 08/03/23 10:03	Analyzed 08/08/23 12:15 Analyzed 08/07/23 18:11	1
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	I Range Organ Result <250.3 Sel Range Orga Result <250.3 <250.3	ics (DRO) ( Qualifier U mics (DRO) Qualifier U U *1 U	GC) <u>RL</u> 50.3 (GC) <u>RL</u> 50.3 50.3		Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 08/03/23 10:03 08/03/23 10:03	Analyzed 08/08/23 12:15 Analyzed 08/07/23 18:11 08/07/23 18:11	<b>Dil Fac</b> 1 1 1
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Dies Analyte	I Range Organ Result <50.3 sel Range Orga Result <50.3 <50.3 <50.3	ics (DRO) ( Qualifier U mics (DRO) Qualifier U U *1 U	GC) <u>RL</u> 50.3 (GC) <u>RL</u> 50.3 50.3 50.3		Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 08/03/23 10:03 08/03/23 10:03 08/03/23 10:03	Analyzed 08/08/23 12:15 Analyzed 08/07/23 18:11 08/07/23 18:11	1 Dil Fac 1

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**Released to Imaging: 11/6/2023 11:57:53 AM** 

#### Method: 8021B - Volatile Organic Compounds (GC) Matrix: Solid

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-31272-1	S-5 (2')	105	69 S1-	
880-31278-A-1-B MS	Matrix Spike	121	124	
880-31278-A-1-C MSD	Matrix Spike Duplicate	119	91	
LCS 880-58969/1-A	Lab Control Sample	115	111	
LCSD 880-58969/2-A	Lab Control Sample Dup	114	109	
MB 880-58969/5-A	Method Blank	73	79	
MB 880-59110/5-A	Method Blank	68 S1-	100	
Surrogate Legend				

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

#### Matrix: Solid

				Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1		
Lab Sample ID	Client Sample ID	(70-130)	(70-130)		13
880-31272-1	S-5 (2')	135 S1+	134 S1+		
880-31305-A-35-D MS	Matrix Spike	144 S1+	154 S1+		
880-31305-A-35-E MSD	Matrix Spike Duplicate	163 S1+	177 S1+		
LCS 880-59216/2-A	Lab Control Sample	130	150 S1+		
LCSD 880-59216/3-A	Lab Control Sample Dup	103	122		
MB 880-59216/1-A	Method Blank	137 S1+	158 S1+		

#### Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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# 5: Lea County, New Mexico

Prep Type: Total/NA

Prep Type: Total/NA

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# **QC Sample Results**

Client: Carmona Resources Project/Site: Tonto 15 State #1

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

Lab Sample ID: MB 880-58969/5-A
Matrix: Solid
Analysis Batch: 59172

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/01/23 09:01	08/03/23 22:38	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/01/23 09:01	08/03/23 22:38	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/01/23 09:01	08/03/23 22:38	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/01/23 09:01	08/03/23 22:38	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/01/23 09:01	08/03/23 22:38	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/01/23 09:01	08/03/23 22:38	1
	МВ	МВ							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	73		70 - 130				08/01/23 09:01	08/03/23 22:38	1
1,4-Difluorobenzene (Surr)	79		70 - 130				08/01/23 09:01	08/03/23 22:38	1

#### Lab Sample ID: LCS 880-58969/1-A Matrix: Solid

#### Analysis Batch: 59172

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09442		mg/Kg		94	70 - 130	
Toluene	0.100	0.08693		mg/Kg		87	70 - 130	
Ethylbenzene	0.100	0.1010		mg/Kg		101	70 - 130	
m-Xylene & p-Xylene	0.200	0.2099		mg/Kg		105	70 - 130	
o-Xylene	0.100	0.1041		mg/Kg		104	70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	115		70 - 130
1,4-Difluorobenzene (Surr)	111		70 - 130

#### Lab Sample ID: LCSD 880-58969/2-A

## Matrix: Solid

Analysis Batch: 59172							Prep	Batch:	58969
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.08592		mg/Kg		86	70 - 130	9	35
Toluene	0.100	0.08219		mg/Kg		82	70 - 130	6	35
Ethylbenzene	0.100	0.08963		mg/Kg		90	70 - 130	12	35
m-Xylene & p-Xylene	0.200	0.1870		mg/Kg		94	70 - 130	12	35
o-Xylene	0.100	0.09268		mg/Kg		93	70 - 130	12	35

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

# Lab Sample ID: 880-31278-A-1-B MS

# Matrix: Solid

Analysis Batch: 59172									Prep	Batch: 58969
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00202	U	0.0994	0.1002		mg/Kg		101	70 - 130	
Toluene	<0.00202	U	0.0994	0.09371		mg/Kg		94	70 - 130	

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Prep Type: Total/NA

**Client Sample ID: Matrix Spike** 

5 6 7

Prep Type: Total/NA Prep Batch: 58969

Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 58969

**Client Sample ID: Method Blank** 

**Client Sample ID: Lab Control Sample** 

Client Sample ID: Lab Control Sample Dup

Client: Carmona Resources

Project/Site: Tonto 15 State #1

#### Job ID: 880-31272-1 SDG: Lea County, New Mexico

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

Lab Sample ID: 880-31278-4	A-1-B MS										Client S	Sample ID:		
Matrix: Solid												Prep Ty	-	
Analysis Batch: 59172													Batch:	5896
	Sample			Spike	MS	MS						%Rec		
Analyte	Result	Quali	fier	Added	Result	Qua	lifier	Unit		D	%Rec	Limits		
Ethylbenzene	<0.00202	U		0.0994	0.1030			mg/Kg			104	70 - 130		
m-Xylene & p-Xylene	<0.00403	U		0.199	0.2125			mg/Kg			107	70 - 130		
o-Xylene	<0.00202	U		0.0994	0.1040			mg/Kg			105	70 - 130		
	MS													
Surrogate		Qual	ifier	Limits										
4-Bromofluorobenzene (Surr)	121			70 - 130										
1,4-Difluorobenzene (Surr)	124			70 - 130										
Lab Sample ID: 880-31278-4	A-1-C MSD							(	Clien	t Sa	mple ID:	Matrix Spi	ike Duj	plicate
Matrix: Solid												Prep Ty	/pe: To	otal/N/
Analysis Batch: 59172												Prep	Batch:	58969
	Sample	Samp	ble	Spike	MSD	MSD	)					%Rec		RPD
Analyte	Result		fier	Added	Result	Qua	lifier	Unit		<u>D</u>	%Rec	Limits	RPD	Limi
Benzene	<0.00202	U		0.0998	0.09502			mg/Kg			95	70 - 130	5	35
Toluene	<0.00202	U		0.0998	0.09100			mg/Kg			91	70 - 130	3	35
Ethylbenzene	<0.00202	U		0.0998	0.1021			mg/Kg			102	70 - 130	1	35
m-Xylene & p-Xylene	<0.00403	U		0.200	0.2097			mg/Kg			105	70 - 130	1	35
o-Xylene	<0.00202	U		0.0998	0.1024			mg/Kg			103	70 - 130	2	3
	MSD													
Surrogate		Qual	ifier	Limits										
4-Bromofluorobenzene (Surr)	119			70 - 130										
1,4-Difluorobenzene (Surr)	91			70 - 130										
Lab Sample ID: MB 880-591	10/5-A									•	Client Sa	ample ID: N		
Matrix: Solid												Prep Ty	-	
Analysis Batch: 59172												Prep	Batch:	59110
		ΜВ	MB											
Analyte			Qualifier	RL		MDL	Unit		<u>D</u>	Pr	epared	Analyze		Dil Fa
Benzene	<0.00		U	0.00200			mg/Kg	-			/23 11:14	08/03/23 1		
Toluene	<0.00	200	U	0.00200	)		mg/Kg	g		08/02	/23 11:14	08/03/23 1	1:30	
Ethylbenzene	<0.00	200	U	0.00200	)		mg/Ko	9		08/02	/23 11:14	08/03/23 1	1:30	
m-Xylene & p-Xylene	<0.00	400	U	0.00400	)		mg/Ko	g		08/02	/23 11:14	08/03/23 1	1:30	
o-Xylene	<0.00	200	U	0.00200	)		mg/Kg	9		08/02	/23 11:14	08/03/23 1	1:30	
Xylenes, Total	<0.00	400	U	0.00400			mg/Kg	g		08/02	/23 11:14	08/03/23 1	1:30	
			МВ											
Surrogate	%Recov		Qualifier	Limits	-				_		epared	Analyze		Dil Fa
4-Bromofluorobenzene (Surr)			S1-	70 - 130							/23 11:14	08/03/23 1		
1,4-Difluorobenzene (Surr)		100		70 - 130						08/02	/23 11:14	08/03/23 1	1:30	

Lab Sample ID: MB 880-59216/1-A Matrix: Solid Analysis Batch: 59411							Client Sa	mple ID: Metho Prep Type: <sup>-</sup> Prep Batcl	Total/NA
	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		08/03/23 10:03	08/07/23 07:49	1
(GRO)-C6-C10									

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Method: 8015B	NM - Diesel	Range	Organics	(GC)	(Continued)
Methou. 0013D	ININI - DIESEI	Trange	Organics		(Commueu)

Lab Sample ID: MB 880-59216	/1 <b>-A</b>									Client Sa	ample ID: I		
Matrix: Solid											Prep T		
Analysis Batch: 59411											Prep	Batch	: 5921
	ME												
Analyte	Resul				MDL	Unit		D	Pi	repared	Analyz		Dil Fa
Diesel Range Organics (Over C10-C28)	<50.0	) U	50.0			mg/Kg			08/03	3/23 10:03	08/07/23 0	07:49	
Oll Range Organics (Over C28-C36)	<50.0	) U	50.0			mg/Kg			08/03	3/23 10:03	08/07/23 0	07:49	
	ME	3 MB											
Surrogate	%Recover	/ Qualifier	Limits					_	PI	repared	Analyz	ed	Dil Fa
1-Chlorooctane	13	7 S1+	70 - 130						08/0	3/23 10:03	08/07/23 (	07:49	
p-Terphenyl	15	3 S1+	70 - 130						08/0	3/23 10:03	08/07/23 (	07:49	
Lab Sample ID: LCS 880-5921	6/2-A							Cli	ient	Sample	ID: Lab Co	ontrol s	Sample
Matrix: Solid											Prep T		
Analysis Batch: 59411												Batch	
-			Spike	LCS	LCS						%Rec		
Analyte			Added	Result	Qua	lifier	Unit		D	%Rec	Limits		
Gasoline Range Organics			1000	1053			mg/Kg		_	105	70 - 130		
GRO)-C6-C10 Diesel Range Organics (Over			1000	1214			mg/Kg			121	70 - 130		
C10-C28)													
	LCS LC												
Surrogate	%Recovery Qu	alifier	Limits										
1-Chlorooctane	130		70 - 130										
p-Terphenyl	150 S1	+	70 - 130										
Lab Sample ID: LCSD 880-592 Matrix: Solid	16/3-A						Cli	ient S	Sam	ple ID: L	ab Contro. Prep T		
Analysis Batch: 59411												Batch	
			Spike	LCSD	LCS	D					%Rec		RP
Analyte			Added	Result	Qua	lifier	Unit		D	%Rec	Limits	RPD	Lim
Gasoline Range Organics			1000	899.2			mg/Kg		_	90	70 - 130	16	2
(GRO)-C6-C10													
Diesel Range Organics (Over C10-C28)			1000	968.7	*1		mg/Kg			97	70 - 130	22	2
	LCSD LC	SD											
Surrogate	%Recovery Qu		Limits										
1-Chlorooctane	103		70 - 130										
p-Terphenyl	122		70 - 130										
Lab Sample ID: 880-31305-A-3	5-D MS									Client	Sample ID:	Matri	r Snik
Matrix: Solid										Gient	Prep T		
Analysis Batch: 59411												Batch	
	Sample Sa	nple	Spike	MS	MS						%Rec		
Analyte	Result Qu	alifier	Added	Result	Qua	lifier	Unit		D	%Rec	Limits		
Gasoline Range Organics GRO)-C6-C10	<50.3 U		1010	952.4			mg/Kg		_	94	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.3 U*	1	1010	1074			mg/Kg			102	70 - 130		
	MS MS												
Surrogate	%Recovery Qu		Limits										
1-Chlorooctane	144 S1		70 - 130										
I-Chlorooclane													

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154 S1+

o-Terphenyl

70 - 130

# **QC Sample Results**

Client: Carmona Resources Project/Site: Tonto 15 State #1

Job ID: 880-31272-1 SDG: Lea County, New Mexico

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

Matrix: Solid Analysis Batch: 59411     Prep Type: Total/NA Prep Batch: 59216       Sample     Sample     Spike     MSD     MSD     %Rec     RPD       Analyte     Result     Qualifier     Added     Result     Qualifier     Unit     D     %Rec     RPD       Gasoline Range Organics (GRO)-C6-C10     1001     1001     1091     mg/Kg     108     70-130     14     20       Diesel Range Organics (Over C10-C28)     <50.3     U *1     1010     1222     mg/Kg     117     70-130     13     20       Surrogate     %Recovery     Qualifier     Limits       1-Chlorooctane     163     S1+     70-130       o-Terphenyl     177     S1+     70-130	Lab Sample ID: 880-31305-/	A-35-E MSD					CI	ient Sa	ample IC	: Matrix Sp	ike Dup	licate	
SampleSampleSampleSpikeMSDMSDMSD%RecRPDAnalyteResultQualifierAddedResultQualifierUnitD%RecLimitsRPDLimitGasoline Range Organics<50.3U10101091mg/Kg10870 - 1301420(GRO)-C6-C10<50.3U*110101222mg/Kg11770 - 1301320Diesel Range Organics (Over C10-C28)<50.3U*110101222mg/Kg11770 - 1301320MSD T-ChlorooctaneMSDMSD </th <th>Matrix: Solid</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>Prep T</th> <th>ype: To</th> <th>tal/NA</th> <th></th>	Matrix: Solid									Prep T	ype: To	tal/NA	
AnalyteResultQualifierAddedResultQualifierUnitD%RecLimitsRPDLimitGasoline Range Organics<50.3U10101091mg/Kg10870 - 1301420(GRO)-C6-C10<50.3U*110101222mg/Kg11770 - 1301320Diesel Range Organics (Over C10-C28)<50.3U*110101222mg/Kg11770 - 1301320MSD C10-C28)MSDMSDMSDMSDConstraintsConstrai	Analysis Batch: 59411									Prep	Batch:	59216	
Gasoline Range Organics       <50.3       U       1010       1091       mg/Kg       108       70 - 130       14       20         (GR0)-C6-C10       Diesel Range Organics (Over       <50.3       U *1       1010       1222       mg/Kg       117       70 - 130       13       20         C10-C28)       MSD       MSD       MSD       13       20         Surrogate       %Recovery       Qualifier       Limits       100       130       14       20         1-Chlorooctane       163       S1+       70 - 130       130       14       20		Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
(GRO)-C6-C10 Diesel Range Organics (Over  C10-C28)  	Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Diesel Range Organics (Over       <50.3       U *1       1010       1222       mg/Kg       117       70 - 130       13       20         C10-C28)       MSD       MSD       MSD       MSD       1010       1222       mg/Kg       117       70 - 130       13       20         Surrogate       %Recovery       Qualifier       Limits       100	5 5	<50.3	U	1010	1091		mg/Kg		108	70 - 130	14	20	
C10-C28) MSD MSD Surrogate <u>%Recovery Qualifier</u> Limits 1-Chlorooctane <u>163</u> S1+ 70 - 130													÷
MSDMSDSurrogate%RecoveryQualifierLimits1-Chlorooctane163\$1+70 - 130		<50.3	U *1	1010	1222		mg/Kg		117	70 - 130	13	20	
Surrogate%RecoveryQualifierLimits1-Chlorooctane163\$1+70 - 130	010-028)												1
1-Chlorooctane 163 S1+ 70 - 130		MSD	MSD										
	Surrogate	%Recovery	Qualifier	Limits									2
o-Terphenyl 177 S1+ 70 - 130	1-Chlorooctane			70 - 130									
	o-Terphenyl	177	S1+	70 - 130									

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**Client Sample ID** 

Lab Control Sample

Lab Control Sample Dup

Matrix Spike Duplicate

**Client Sample ID** 

**Client Sample ID** 

Method Blank

Method Blank

Matrix Spike

Lab Control Sample

Lab Control Sample Dup

Matrix Spike Duplicate

S-5 (2')

Method Blank

Method Blank

Matrix Spike

S-5 (2')

# **QC** Association Summary

Prep Type

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Prep Type

Prep Type

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Matrix

Solid

Solid

Solid

Solid

Solid

Solid

Matrix

Solid

Matrix

Solid

Solid

Solid

Solid

Solid

Solid

Solid

Solid

Client: Carmona Resources Project/Site: Tonto 15 State #1

**GC VOA** 

Prep Batch: 58969

MB 880-58969/5-A

LCS 880-58969/1-A

LCSD 880-58969/2-A

880-31278-A-1-B MS

880-31278-A-1-C MSD

Prep Batch: 59110

MB 880-59110/5-A

Analysis Batch: 59172

Lab Sample ID

Lab Sample ID

MB 880-58969/5-A

MB 880-59110/5-A

LCS 880-58969/1-A

LCSD 880-58969/2-A

880-31278-A-1-B MS

880-31272-1

Lab Sample ID

880-31272-1

Job ID: 880-31272-1 SDG: Lea County, New Mexico

Method

5035

5035

5035

5035

5035

5035

Method

Method

8021B

8021B

8021B

8021B

8021B

8021B

8021B

8015 NM

5035

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Prep Batch

Prep Batch

Prep Batch

58969

58969

59110

58969

58969

58969

58969

# 8

# 880-31278-A-1-C MSD Analysis Batch: 59320

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31272-1	S-5 (2')	Total/NA	Solid	Total BTEX	

#### GC Semi VOA

#### Prep Batch: 59216

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31272-1	S-5 (2')	Total/NA	Solid	8015NM Prep	
MB 880-59216/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-59216/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-59216/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-31305-A-35-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-31305-A-35-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

#### Analysis Batch: 59411

880-31272-1

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31272-1	S-5 (2')	Total/NA	Solid	8015B NM	59216
MB 880-59216/1-A	Method Blank	Total/NA	Solid	8015B NM	59216
LCS 880-59216/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	59216
LCSD 880-59216/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	59216
880-31305-A-35-D MS	Matrix Spike	Total/NA	Solid	8015B NM	59216
880-31305-A-35-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	59216
Analysis Batch: 59636					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch

Total/NA

S-5 (2')
## Lab Chronicle

Client: Carmona Resources Project/Site: Tonto 15 State #1

#### Client Sample ID: S-5 (2') Date Collected: 07/25/23 00:00 Date Received: 07/26/23 16:45

	Job ID:	880-3	1272-1
SDG: Lea	County,	New	Mexico

### Lab Sample ID: 880-31272-1 Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	58969	08/01/23 09:01	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	59172	08/04/23 04:47	SM	EET MID
Total/NA	Analysis	Total BTEX		1			59320	08/04/23 10:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			59636	08/08/23 12:15	SM	EET MID
Total/NA	Prep	8015NM Prep			9.95 g	10 mL	59216	08/03/23 10:03	ТКС	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59411	08/07/23 18:11	SM	EET MID

#### Laboratory References:

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

Eurofins Midland

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5 6

9

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10

Job ID: 880-31272-1
SDG: Lea County, New Mexico

#### Laboratory: Eurofins Midland

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

Authority	P	rogram	Identification Number	Expiration Date
Texas		IELAP	T104704400-23-26	06-30-24
The following analytes	are included in this report, b	out the laboratory is not certif	ied by the governing authority. This list ma	ay include analytes for w
the agency does not of				
the agency does not of Analysis Method	fer certification. Prep Method	Matrix	Analyte	
0,		Matrix Solid	Analyte Total TPH	

Eurofins Midland

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## **Method Summary**

#### Client: Carmona Resources Project/Site: Tonto 15 State #1

Job ID: 880-31272-1 SDG: Lea County, New Mexico

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
Protocol Refe	rences;		
	'Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third E = TestAmerica Laboratories, Standard Operating Procedure	Edition, November 1986 And Its Updates.	
		a	
EET MID	= Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-544	0	

#### Protocol References:

#### Laboratory References:

Eurofins Midland

## Sample Summary

Client: Carmona Resources Project/Site: Tonto 15 State #1 Job ID: 880-31272-1 SDG: Lea County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-31272-1	S-5 (2')	Solid	07/25/23 00:00	07/26/23 16:45

Mrdw	Comments Email r				S-5 (2')	Sample Identification	Total Containers	Sample Custody Seals	Cooler Custody Seals.	Received Intact:	SAMPLE RECEIPT	PO#	Sampler's Name	Project Location	Project Number	Project Name	Phone	ate ZIP	Address 3	Company Name	Project Manager (
	esults to Mike Carr							Yes No	Yes No	((es) No	T Temp Blank		0	Lea County	2	Tonto 1		Midland, TX 79701	310 W Wall St Ste 500	Carmona Resources	Clinton Merritt
Relinquished by (Signature)	nona mcarmona@c				7 25 23	Date Time	Corrected Temperature	VA Temperature Reading	WAS Correction Factor	Thermor	k Yes (No		CCM	Lea County, New Mexico	2089	Tonto 15 State #1			0		
	armonaresource				×	Soil	nperature 1	Reading	ctor		Wet Ice			Due Date	✓ Routine	Tum	Email				
	is com, Conner I				G	Water Comp	4.5	4.8	Se': 1	TRB	(res) No			5 dav	Rush	Turn Around	msanjari@marathonoil.com	City State ZIP	Address	Company Name	Bill to (if different)
1-26-2	Vloehring cm				1 ×	#of Cont		вт		8021		'S			Pres. Code		honoil com	Hous	T 066	Mara	Melo
-23 04S	oehring@c				×	TP	H 801			0 + I le 30		+ MI	RO)					Houston TX 77024	990 Town and Country Blvd	Marathon Oil Corporation	Melodie Sanjari
	armonaresources com,	-   88 :						***								ANALYSIS REQUEST			ntry Blvd	oration	
Received by (Signature)	Email results to Mike Carmona mcarmona@carmonaresources com, Conner Moehring cmoehring@carmonaresources com, Clint MerrittC@carmonaresources com	880-31272 Chain of Custody														REQUEST	Deliverables EDD AC	Reporting Level II Level III OST/UST	State of Project	Program UST/PST PRP rownfields	Work Ord
	esources com					Samp	NaOH+Asc	Zn Acetate+NaOH Zn	Na-S-O NaSO	NaHSO4 NABIS		H-SO, H-			None NO	Prese	ADaPT D ot	ST/UST RRP	į	ownfields RC	Work Order Comments
Date/Time						Sample Comments	NaOH+Ascorbic Acid SAPC	NaOH Zn	OSE	ABIS			UND TW		DI Water: H.O	Preservative Codes	Other			RC Diperfund F	

### Received by OCD: 9/21/2023 6:16:51 AM

## 8/8/2023

Work Order No:

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Job Number: 880-31272-1

List Source: Eurofins Midland

SDG Number: Lea County, New Mexico

## Login Sample Receipt Checklist

Client: Carmona Resources

Login Number: 31272 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	

N/A

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").

Received by OCD: 9/21/2023 6:16:51 AM



**Environment Testing** 

# **ANALYTICAL REPORT**

## **PREPARED FOR**

Attn: Clint Merritt Carmona Resources 310 W Wall St Ste 500 Midland, Texas 79701 Generated 8/8/2023 11:30:10 AM

## JOB DESCRIPTION

Tonto 15 State #1 SDG NUMBER Lea County, New Mexico

## **JOB NUMBER**

880-31273-1

Eurofins Midland 1211 W. Florida Ave Midland TX 79701

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## **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

AMER

Generated 8/8/2023 11:30:10 AM

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

Eurofins Midland is a laboratory within Eurofins Environment Testing South Central, LLC, a company within Eurofins Environment Testing Group of Companies

Laboratory Job ID: 880-31273-1 SDG: Lea County, New Mexico

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#### Client: Carmona Resources Project/Site: Tonto 15 State #1

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Job ID: 880-31273-1 SDG: Lea County, New Mexico

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Quaimers		- 3
GC VOA		
Qualifier	Qualifier Description	
S1-	Surrogate recovery exceeds control limits, low biased.	_
U	Indicates the analyte was analyzed for but not detected.	5
GC Semi VO	Α	
Qualifier	Qualifier Description	
*1	LCS/LCSD RPD exceeds control limits.	
S1+	Surrogate recovery exceeds control limits, high biased.	
U	Indicates the analyte was analyzed for but not detected.	
Glossary		8
Abbreviation	These commonly used abbreviations may or may not be present in this report.	Q
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis	3
%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

#### Job ID: 880-31273-1

#### Laboratory: Eurofins Midland

#### Narrative

Job Narrative 880-31273-1

#### Receipt

The sample was received on 7/26/2023 4:45 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.5°C

#### **Receipt Exceptions**

The following sample was received and analyzed from an unpreserved bulk soil jar: S-5 (3') (880-31273-1).

#### GC VOA

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-59172 recovered above the upper control limit for Benzene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 880-59172/20).

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-59110 and analytical batch 880-59172 was outside the upper control limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: S-5 (3') (880-31273-1) and (880-31278-A-1-A). 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: The surrogate recovery for the blank associated with preparation batch 880-59216 and analytical batch 880-59411 was outside the upper control limits.

Method 8015MOD\_NM: Surrogate recovery for the following samples were outside control limits: (CCV 880-59411/20), (CCV 880-59411/5), (LCS 880-59216/2-A), (880-31305-A-35-C), (880-31305-A-35-D MS) and (880-31305-A-35-E MSD). Evidence of matrix interferences is not obvious.

Method 8015MOD\_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-59216 and analytical batch 880-59411 recovered outside control limits for the following analytes: Diesel Range Organics (Over C10-C28).

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

## Lab Sample ID: 880-31273-1

Matrix: Solid

5

# Project/Site: Tonto 15 State #1 Client Sample ID: S-5 (3')

Client: Carmona Resources

Date Collected: 07/25/23 00:00 Date Received: 07/26/23 16:45

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Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	< 0.00199	U	0.00199		mg/Kg		08/01/23 09:01	08/04/23 05:08	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/01/23 09:01	08/04/23 05:08	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/01/23 09:01	08/04/23 05:08	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/01/23 09:01	08/04/23 05:08	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/01/23 09:01	08/04/23 05:08	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/01/23 09:01	08/04/23 05:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130				08/01/23 09:01	08/04/23 05:08	1
1,4-Difluorobenzene (Surr)	57	S1-	70 - 130				08/01/23 09:01	08/04/23 05:08	1
Method: TAL SOP Total BTEX - T	otal BTEX Calo	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			08/04/23 10:48	1
Method: SW846 8015 NM - Diese	I Range Organ	ics (DRO) (	GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4		mg/Kg			08/08/23 12:15	1
Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4		mg/Kg		08/03/23 10:03	08/07/23 18:34	1
Diesel Range Organics (Over	<50.4	U *1	50.4		mg/Kg		08/03/23 10:03	08/07/23 18:34	1
C10-C28) Oll Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		08/03/23 10:03	08/07/23 18:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130				08/03/23 10:03	08/07/23 18:34	1

Released to Imaging: 11/6/2023 11:57:53 AM

Prep Type: Total/NA

Prep Type: Total/NA

#### Method: 8021B - Volatile Organic Compounds (GC) Matrix: Solid

				Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1		
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	·	
880-31273-1	S-5 (3')	88	57 S1-		
880-31278-A-1-B MS	Matrix Spike	121	124		
880-31278-A-1-C MSD	Matrix Spike Duplicate	119	91		17
LCS 880-58969/1-A	Lab Control Sample	115	111		
LCSD 880-58969/2-A	Lab Control Sample Dup	114	109		- 5
MB 880-58969/5-A	Method Blank	73	79		
MB 880-59110/5-A	Method Blank	68 S1-	100		
Surrogate Legend					

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

#### Matrix: Solid

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Sample ID	Client Sample ID	(70-130)	(70-130)	
273-1	S-5 (3')	102	108	
305-A-35-D MS	Matrix Spike	144 S1+	154 S1+	
305-A-35-E MSD	Matrix Spike Duplicate	163 S1+	177 S1+	
)-59216/2-A	Lab Control Sample	130	150 S1+	
880-59216/3-A	Lab Control Sample Dup	103	122	
80-59216/1-A	Method Blank	137 S1+	158 S1+	

#### Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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Eurofins Midland

## **QC Sample Results**

Client: Carmona Resources Project/Site: Tonto 15 State #1

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

Lab Sample ID: MB 880-58969/5-A
Matrix: Solid

Analysis Batch: 59172

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/01/23 09:01	08/03/23 22:38	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/01/23 09:01	08/03/23 22:38	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/01/23 09:01	08/03/23 22:38	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/01/23 09:01	08/03/23 22:38	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/01/23 09:01	08/03/23 22:38	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/01/23 09:01	08/03/23 22:38	1
	МВ	МВ							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	73		70 - 130				08/01/23 09:01	08/03/23 22:38	1
1,4-Difluorobenzene (Surr)	79		70 - 130				08/01/23 09:01	08/03/23 22:38	1
4-Bromofluorobenzene (Surr)	73	Qualifier	70 - 130				08/01/23 09:01	08/03/23 22:38	Dil Fac 1 1

#### Lab Sample ID: LCS 880-58969/1-A Matrix: Solid

#### Analysis Batch: 59172

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09442		mg/Kg		94	70 - 130	
Toluene	0.100	0.08693		mg/Kg		87	70 - 130	
Ethylbenzene	0.100	0.1010		mg/Kg		101	70 - 130	
m-Xylene & p-Xylene	0.200	0.2099		mg/Kg		105	70 - 130	
o-Xylene	0.100	0.1041		mg/Kg		104	70 - 130	

	LCS		
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	115		70 - 130
1,4-Difluorobenzene (Surr)	111		70 - 130

#### Lab Sample ID: LCSD 880-58969/2-A

#### Matrix: Solid

Analysis Batch: 59172							Prep	Batch:	58969
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.08592		mg/Kg		86	70 - 130	9	35
Toluene	0.100	0.08219		mg/Kg		82	70 - 130	6	35
Ethylbenzene	0.100	0.08963		mg/Kg		90	70 - 130	12	35
m-Xylene & p-Xylene	0.200	0.1870		mg/Kg		94	70 - 130	12	35
o-Xylene	0.100	0.09268		mg/Kg		93	70 - 130	12	35

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

## Lab Sample ID: 880-31278-A-1-B MS

#### Matrix: Solid Analysis Retaby 50172

Analysis Batch: 59172									Prep	Batch: 58969
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00202	U	0.0994	0.1002		mg/Kg		101	70 - 130	
Toluene	<0.00202	U	0.0994	0.09371		mg/Kg		94	70 - 130	

**Eurofins Midland** 

Prep Type: Total/NA

**Client Sample ID: Matrix Spike** 

## **Client Sample ID: Method Blank** Prep Type: Total/NA

SDG: Lea County, New Mexico

Job ID: 880-31273-1

Prep Batch: 58969

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8/8/2023

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

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 58969

Client: Carmona Resources

Project/Site: Tonto 15 State #1

#### Job ID: 880-31273-1 SDG: Lea County, New Mexico

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

Lab Sample ID: 880-31278-4	A-1-B MS										Client S	Sample ID:		
Matrix: Solid													ype: To	
Analysis Batch: 59172												Prep	Batch:	5896
	Sample	Sam	ple	Spike	MS	MS						%Rec		
Analyte	Result		ifier	Added	Result	Qua	lifier	Unit		D	%Rec	Limits		
Ethylbenzene	<0.00202	U		0.0994	0.1030			mg/Kg			104	70 - 130		
m-Xylene & p-Xylene	< 0.00403	U		0.199	0.2125			mg/Kg			107	70 - 130		
o-Xylene	<0.00202	U		0.0994	0.1040			mg/Kg			105	70 - 130		
	MS	MS												
Surrogate		Qua	lifier	Limits										
4-Bromofluorobenzene (Surr)	121			70 - 130										
1,4-Difluorobenzene (Surr)	124			70 - 130										
Lab Sample ID: 880-31278-4	A-1-C MSD							c	lien	t Sa	mple ID:	Matrix Sp	oike Du	plicate
Matrix: Solid												Prep T	ype: To	otal/N/
Analysis Batch: 59172												Prep	Batch:	58969
	Sample	Sam	ple	Spike	MSD	MSD	)					%Rec		RPD
Analyte	Result	Qua	ifier	Added	Result	Qua	lifier	Unit		D	%Rec	Limits	RPD	Limi
Benzene	<0.00202	U		0.0998	0.09502			mg/Kg			95	70 - 130	5	35
Toluene	<0.00202	U		0.0998	0.09100			mg/Kg			91	70 - 130	3	35
Ethylbenzene	<0.00202	U		0.0998	0.1021			mg/Kg			102	70 - 130	1	35
m-Xylene & p-Xylene	<0.00403	U		0.200	0.2097			mg/Kg			105	70 - 130	1	35
o-Xylene	<0.00202	U		0.0998	0.1024			mg/Kg			103	70 - 130	2	3
	MSD	MSD	1											
Surrogate		Qua	lifier	Limits										
4-Bromofluorobenzene (Surr)	119			70 - 130										
1,4-Difluorobenzene (Surr)	91			70 - 130										
Lab Sample ID: MB 880-591	10/5-A									(	Client Sa	ample ID: I	Method	l Blanl
Matrix: Solid												Prep T	ype: To	otal/N/
Analysis Batch: 59172												Prep	Batch:	59110
		MB	MB											
Analyte	Re	sult	Qualifier	RL		MDL	Unit		D	Pr	epared	Analyz	ed	Dil Fac
Benzene	<0.00	200	U	0.00200		_	mg/Kg	3	_	08/02	/23 11:14	08/03/23	11:30	
Toluene	<0.00	200	U	0.00200			mg/Kg	9		08/02	/23 11:14	08/03/23	11:30	
Ethylbenzene	<0.00	200	U	0.00200			mg/Kg	3		08/02	/23 11:14	08/03/23	11:30	
m-Xylene & p-Xylene	<0.00	400	U	0.00400			mg/Kg	9		08/02	/23 11:14	08/03/23	11:30	
o-Xylene	<0.00	200	U	0.00200			mg/Kg	9		08/02	/23 11:14	08/03/23	11:30	
Xylenes, Total	<0.00	400	U	0.00400			mg/Kg	9		08/02	/23 11:14	08/03/23	11:30	
		ΜВ												
Surrogate	%Reco	-	Qualifier	Limits					-		epared	Analyz		Dil Fa
4-Bromofluorobenzene (Surr)			S1-	70 - 130							2/23 11:14	08/03/23		
1,4-Difluorobenzene (Surr)		100		70 - 130						08/02	2/23 11:14	08/03/23	11:30	

Lab Sample ID: MB 880-59216/1-A Matrix: Solid Analysis Batch: 59411					Client Sa	mple ID: Metho Prep Type: <sup>-</sup> Prep Batcl	Total/NA	
	MB MB							
Analyte Re	ult Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	D.0 U	50.0		mg/Kg		08/03/23 10:03	08/07/23 07:49	1

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(GRO)-C6-C10

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

Lab Sample ID: MB 880-59216/1-A										Client S	ample ID: I	<b>Nethod</b>	Blank
Matrix: Solid												ype: To	
Analysis Batch: 59411												Batch:	
		ΜВ	МВ										
Analyte	Re	sult	Qualifier		RL	MDL	Unit		D	Prepared	Analyz	ed	Dil Fac
iesel Range Organics (Over	<	50.0	U	5	50.0		mg/Kg		_	08/03/23 10:03	08/07/23 (	07:49	1
C10-C28) DII Range Organics (Over C28-C36)	<	50.0	U	5	50.0		mg/Kg	l		08/03/23 10:03	08/07/23	07:49	1
		ΜВ	МВ										
Surrogate	%Reco	very	Qualifier	Limits	;					Prepared	Analyz	ed	Dil Fac
-Chlorooctane		137	S1+	70 - 13	30					08/03/23 10:03	08/07/23	07:49	1
-Terphenyl		158	S1+	70 - 13	30					08/03/23 10:03	08/07/23	07:49	1
.ab Sample ID: LCS 880-59216/2-A									С	lient Sample	ID: Lab Co	ontrol S	ample
Aatrix: Solid												ype: To	
Analysis Batch: 59411												Batch:	
				Spike	LC	LCS					%Rec		
nalyte				Added	Resu	Qua	lifier	Unit		D %Rec	Limits		
Gasoline Range Organics				1000	105			mg/Kg		105	70 - 130		
GRO)-C6-C10								5 5					
iesel Range Organics (Over :10-C28)				1000	121			mg/Kg		121	70 - 130		
	LCS	LCS											
Surrogate %	Recovery	Qual	ifier	Limits									
-Chlorooctane	130			70 - 130									
-Terphenyl	150	S1+		70 - 130									
_ab Sample ID: LCSD 880-59216/3	- <b>A</b>							Cli	ent	Sample ID: L	ab Contro	I Samni	e Dup
Matrix: Solid								-				ype: To	
Analysis Batch: 59411												Batch:	
				Spike	LCS	LCS	D				%Rec	Batom	RPD
Analyte				Added		Qual		Unit		D %Rec	Limits	RPD	Limit
Basoline Range Organics				1000	899.			mg/Kg		- <u>-</u>	70 - 130	16	20
GRO)-C6-C10													20
viesel Range Organics (Over 210-C28)				1000	968.	'*1		mg/Kg		97	70 - 130	22	20
	LCSD	LCS	D										
Surrogate %	Recovery	Qual	ifier	Limits									
-Chlorooctane	103			70 - 130									
p-Terphenyl	122			70 - 130									
_ab Sample ID: 880-31305-A-35-D	MS									Client	Sample ID:	Matrix	Spike
Matrix: Solid												ype: To	
Analysis Batch: 59411											Prep	Batch:	
	Sample			Spike		MS					%Rec		
nalyte	Result		ifier	Added		Qua	lifier	Unit		D %Rec	Limits		
Basoline Range Organics	<50.3	U		1010	952.		_	mg/Kg	_	94	70 - 130		
GRO)-C6-C10													
Diesel Range Organics (Over C10-C28)	<50.3	U *1		1010	107			mg/Kg		102	70 - 130		
	MS	мs											
Surrogate %	Recovery	Qual	lifier	Limits									
-Chlorooctane	144			70 - 130									

Eurofins Midland

o-Terphenyl

154 S1+

70 - 130

## **QC Sample Results**

Client: Carmona Resources Project/Site: Tonto 15 State #1

Job ID: 880-31273-1 SDG: Lea County, New Mexico

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

Analyte     Res       Gasoline Range Organics     <5       (GRO)-C6-C10        Diesel Range Organics (Over     <5       C10-C28)     M       Surrogate     %Recov	ple Sampl sult Qualif 0.3 U *1		Spike Added		MSD				Prep	Satch:	59216	
Analyte Sam Analyte Re: Gasoline Range Organics <5 (GRO)-C6-C10 Diesel Range Organics (Over <5 C10-C28) M Surrogate %Recov	<b>Sult</b> Qualif		Added		MSD					Batch:		
Analyte     Res       Gasoline Range Organics     <5       (GRO)-C6-C10        Diesel Range Organics (Over     <5       C10-C28)     M       Surrogate     %Recov	<b>Sult</b> Qualif		Added		MSD				0/ Doo			
Gasoline Range Organics <5 (GRO)-C6-C10 Diesel Range Organics (Over <5 C10-C28) Surrogate %Recov	0.3 U	fier		Decult					%Rec		RPD	
(GRO)-C6-C10 Diesel Range Organics (Over <5 C10-C28) Surrogate %Recov					Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Diesel Range Organics (Over <5 C10-C28) Surrogate %Recov	) 2     *1		1010	1091		mg/Kg		108	70 - 130	14	20	
C10-C28) N Surrogate %Recov			1010	1000		malka		117	70 120	12	20	
N Surrogate %Recov	<i>1.5</i> U I		1010	1222		mg/Kg		117	70 - 130	13	20	
Surrogate %Recov												
	SD MSD											
1-Chlorooctane	ery Qualif	fier	Limits									
	163 S1+		70 - 130									
o-Terphenyl	177 S1+		70 - 130									

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## **QC Association Summary**

Client: Carmona Resources Project/Site: Tonto 15 State #1 Job ID: 880-31273-1

SDG: Lea County, New Mexico

### **GC VOA**

#### Prep Batch: 58969

GC VOA					
Prep Batch: 58969					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31273-1	S-5 (3')	Total/NA	Solid	5035	
MB 880-58969/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-58969/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-58969/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-31278-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
880-31278-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	
Prep Batch: 59110 Lab Sample ID MB 880-59110/5-A	Client Sample ID Method Blank	Prep Type Total/NA	Matrix Solid	Method 5035	Prep Batch
analysis Batch: 59172					
Lab Sample ID 880-31273-1	Client Sample ID	Prep Type Total/NA	Matrix Solid	<u>Method</u> 8021B	Prep Batch 58969
	S-5 (3')				
MB 880-58969/5-A	Method Blank	Total/NA	Solid	8021B	58969
MB 880-59110/5-A	Method Blank	Total/NA	Solid	8021B	59110
LCS 880-58969/1-A	Lab Control Sample	Total/NA	Solid	8021B	58969
LCSD 880-58969/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	58969
880-31278-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	58969
000 04070 A 4 C MCD	Matrix Crailes Developts	Tetel/NIA	0 - 11 - 1	00040	50000

#### Analysis Batch: 59172

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31273-1	S-5 (3')	Total/NA	Solid	8021B	58969
MB 880-58969/5-A	Method Blank	Total/NA	Solid	8021B	58969
MB 880-59110/5-A	Method Blank	Total/NA	Solid	8021B	59110
LCS 880-58969/1-A	Lab Control Sample	Total/NA	Solid	8021B	58969
LCSD 880-58969/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	58969
880-31278-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	58969
880-31278-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	58969
L Analysis Databy 50224					

#### Analysis Batch: 59321

	Prep Type	Matrix	Method	Prep Batch
880-31273-1 S-5 (3')	Total/NA	Solid	Total BTEX	

### GC Semi VOA

#### Prep Batch: 59216

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31273-1	S-5 (3')	Total/NA	Solid	8015NM Prep	
MB 880-59216/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-59216/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-59216/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-31305-A-35-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-31305-A-35-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

#### Analysis Batch: 59411

880-31273-1

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31273-1	<u>S-5 (3')</u>	Total/NA	Solid	8015B NM	59216
MB 880-59216/1-A	Method Blank	Total/NA	Solid	8015B NM	59216
LCS 880-59216/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	59216
LCSD 880-59216/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	59216
880-31305-A-35-D MS	Matrix Spike	Total/NA	Solid	8015B NM	59216
880-31305-A-35-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	59216
Analysis Batch: 59637					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch

Total/NA

Solid

8015 NM

S-5 (3')

Job ID: 880-31273-1 SDG: Lea County, New Mexico

## Lab Sample ID: 880-31273-1 Matrix: Solid

#### Client Sample ID: S-5 (3') Date Collected: 07/25/23 00:00 Date Received: 07/26/23 16:45

Client: Carmona Resources

Project/Site: Tonto 15 State #1

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	58969	08/01/23 09:01	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	59172	08/04/23 05:08	SM	EET MID
Total/NA	Analysis	Total BTEX		1			59321	08/04/23 10:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			59637	08/08/23 12:15	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	59216	08/03/23 10:03	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59411	08/07/23 18:34	SM	EET MID

#### Laboratory References:

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

Eurofins Midland

Released to Imaging: 11/6/2023 11:57:53 AM

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## Accreditation/Certification Summary

Client: Carmona Resources Project/Site: Tonto 15 State #1 Job ID: 880-31273-1 SDG: Lea County, New Mexico

#### Laboratory: Eurofins Midland

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

uthority	P	Program	Identification Number	Expiration Date
exas	N	IELAP	T104704400-23-26	06-30-24
The following analytes	are included in this report, b	out the laboratory is not certifi	ied by the governing authority. This list ma	ay include analytes for w
the agency does not of		Matrix	Analyte	
Analysis Method	fer certification. Prep Method	Matrix	Analyte	
0,		Matrix Solid	Analyte Total TPH	

Eurofins Midland

Released to Imaging: 11/6/2023 11:57:53 AM

## **Method Summary**

#### Client: Carmona Resources Project/Site: Tonto 15 State #1

Job ID: 880-31273-1 SDG: Lea County, New Mexico

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
Laboratory Re			
EET MID =	Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440		

#### Protocol References:

#### Laboratory References:

Eurofins Midland

## Sample Summary

Client: Carmona Resources Project/Site: Tonto 15 State #1 Job ID: 880-31273-1 SDG: Lea County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	
880-31273-1	S-5 (3')	Solid	07/25/23 00:00	07/26/23 16:45	

M	Comments Email				Sample Identification	Total Containers.	Sample Custody Seals	Cooler Custody Seals	Received Intact:	SAMPLE RECEIPT	PO #:	Sampler's Name	Project Location	Project Number	Project Name	Phone	City, State ZIP	Address	Company Name	Project Manager
	Email results to Mike Carmona mcarmona@carmonaresources com, Conner Moehring@carmonaresources com, Clint MerrittC@carmonaresources com						Is Yes No MA	S Yes No (NIA)		PT Temp Blank		CCM	Lea County New Mexico	2089	Tonto 15 State #1		Midland TX 79701	310 W Wall St Ste 500	Carmona Resources	Clinton Merntt
Relinquished by (Signature)	mcarmona@car				Time	Corrected Temperature	Temperature Reading	Correction Factor		Yes (No )	)		Mexico		e #1					
	nonaresource			>	Soil	rature	iding	1		Wet Ice			Due Date	マ Routine	Turn	Email				
	s com, Conne				Water Comp	1-V-V	a h	08	JAJ T	(es) NO	)		5 dav	Rush	Turn Around	msanjan@marathonoil com	City, State ZIP	Address	Company Name	Bill to (if different)
Date	r Moehring cn				Cont	-μ	в		nram 8021		'S			Pres.		athonoil com	Hou	066	Mara	Melo
Date/Time 76-73 1604ら	noehring@ca			>	TT	PH 801			0 + C e 30(		+ M	RO)					Houston TX 77024	990 Town and Country Blvd	Marathon Oil Corporation	Melodie Sanjari
	rmonaresources														ANAL			try Blvd	ation	
Received	com, Clint Me	880-31273 Chain of Custody													ANALYSIS REQUEST	Delr	Rep	Stat	Pro	
Received by (Signature)	rrtt MerrittC@														-	Deliverables EDD	Reporting Level II Level III	State of Project:	Program UST/PST PRP prownfields	
	)carmonaresc	.   🛸	 -													ADaPT D	Level III ST/UST			Work Order Comments
	urces com				Sample	NaOH+Ascorbic Acid SAPC	Zn Acetate+NaOH Zn	Na SO NaSO	NaHSO, NABIS		HaSO, Ha			None NO	Preserv	T Other	7UST RRP		nfields RC	Comments
Date/Time					Sample Comments	IC ACID SAPC	iOH Zn	0	55			INECH ME		DI Watan II o	Preservative Codes	~			Cloerfund	<u>  0     </u>

### Received by OCD: 9/21/2023 6:16:51 AM

### 8/8/2023

Work Order No:

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ø

Job Number: 880-31273-1

List Source: Eurofins Midland

SDG Number: Lea County, New Mexico

## Login Sample Receipt Checklist

Client: Carmona Resources

Login Number: 31273 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	

N/A

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").

Received by OCD: 9/21/2023 6:16:51 AM



**Environment Testing** 

# **ANALYTICAL REPORT**

## PREPARED FOR

Attn: Clint Merritt Carmona Resources 310 W Wall St Ste 500 Midland, Texas 79701 Generated 8/7/2023 12:42:00 PM

## JOB DESCRIPTION

Tonto 15 State #1 SDG NUMBER Lea County, New Mexico

## **JOB NUMBER**

880-31283-1

Eurofins Midland 1211 W. Florida Ave Midland TX 79701

See page two for job notes and contact information.

## **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**

AMER

8/7/2023 12:42:00 PM

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

Generated

Laboratory Job ID: 880-31283-1 SDG: Lea County, New Mexico

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## **Definitions/Glossary**

#### Client: Carmona Resources Project/Site: Tonto 15 State #1

Job ID: 880-31283-1 SDG: Lea County, New Mexico

Qualifiers		3
GC VOA		
Qualifier	Qualifier Description	4
U	Indicates the analyte was analyzed for but not detected.	
GC Semi VOA		5
Qualifier	Qualifier Description	
*_	LCS and/or LCSD is outside acceptance limits, low 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.	8
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis	
%R	Percent Recovery	0
CFL	Contains Free Liquid	3
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)	13
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	

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Job ID: 880-31283-1 SDG: Lea County, New Mexico

#### Job ID: 880-31283-1

Client: Carmona Resources

Project/Site: Tonto 15 State #1

#### Laboratory: Eurofins Midland

#### Narrative

Job Narrative 880-31283-1

#### Receipt

The sample was received on 7/26/2023 4:45 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.5°C

#### **Receipt Exceptions**

The following sample was received and analyzed from an unpreserved bulk soil jar: S-5 (0-1') (880-31283-1).

#### GC VOA

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

#### GC Semi VOA

Method 8015MOD\_NM: The laboratory control sample (LCS) associated with preparation batch 880-59369 and analytical batch 880-59409 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 ID: S-5 (0-1') Date Collected: 07/25/23 00:00

Date Received: 07/26/23 16:45

Client: Carmona Resources

Project/Site: Tonto 15 State #1

Analyta	Decult	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte				MDL			·		
Benzene	<0.00198		0.00198		mg/Kg		08/01/23 09:18	08/02/23 23:52	1
Toluene	<0.00198		0.00198		mg/Kg		08/01/23 09:18	08/02/23 23:52	1
Ethylbenzene	<0.00198		0.00198		mg/Kg		08/01/23 09:18	08/02/23 23:52	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		08/01/23 09:18	08/02/23 23:52	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		08/01/23 09:18	08/02/23 23:52	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		08/01/23 09:18	08/02/23 23:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130				08/01/23 09:18	08/02/23 23:52	1
1,4-Difluorobenzene (Surr)	104		70 - 130				08/01/23 09:18	08/02/23 23:52	1
Method: TAL SOP Total BTEX - T	otal BTEX Calo	culation							
	Desult	Qualifier	RL	MDI	Unit	D	Prepared	Analyzed	Dil Fac
Analyte	Result	Quaimer	RL		Unit	U	Flepaleu	Analyzou	
•			0.00396		mg/Kg			08/03/23 09:53	1
Total BTEX Method: SW846 8015 NM - Diese	<0.00396	U ics (DRO) (	0.00396 GC)		mg/Kg			08/03/23 09:53	
Total BTEX Method: SW846 8015 NM - Diese Analyte	<0.00396	U ics (DRO) ( Qualifier	0.00396	MDL	mg/Kg	<u>D</u>	Prepared		Dil Fac
Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH	<0.00396 I Range Organ Result <50.0	U ics (DRO) ( Qualifier U	0.00396 GC) RL 50.0		mg/Kg Unit			08/03/23 09:53 Analyzed	1 Dil Fac
Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Dies	<0.00396 I Range Organ Result <50.0 sel Range Orga	U ics (DRO) ( Qualifier U	0.00396 GC) RL 50.0		mg/Kg Unit mg/Kg			08/03/23 09:53 Analyzed	Dil Fac
Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	<0.00396 I Range Organ Result <50.0 sel Range Orga	U ics (DRO) ( Qualifier U nics (DRO) Qualifier	GC) RL 50.0 (GC)	MDL	mg/Kg Unit mg/Kg	D	Prepared	08/03/23 09:53 Analyzed 08/07/23 10:15	Dil Fac
Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10	<0.00396 I Range Organ Result <50.0 sel Range Orga Result	U ics (DRO) ( Qualifier U nics (DRO) Qualifier U *-	0.00396 GC) RL 50.0 (GC) RL	MDL	mg/Kg Unit mg/Kg Unit mg/Kg	D	Prepared	08/03/23 09:53 Analyzed 08/07/23 10:15 Analyzed	Dil Fac
Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	<0.00396 I Range Organ Result <50.0 sel Range Orga Result <50.0	U ics (DRO) ( Qualifier U nics (DRO) Qualifier U *-	GC) RL 50.0 (GC) RL 50.0	MDL	mg/Kg Unit mg/Kg Unit	D	Prepared Prepared 08/04/23 17:30	08/03/23 09:53 Analyzed 08/07/23 10:15 Analyzed 08/06/23 18:03	Dil Fac 1 Dil Fac
Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<0.00396 I Range Organ Result <50.0 sel Range Orga Result <50.0	U ics (DRO) ( Qualifier U nics (DRO) Qualifier U *- U	GC) RL 50.0 (GC) RL 50.0	MDL	mg/Kg Unit mg/Kg Unit mg/Kg	D	Prepared Prepared 08/04/23 17:30	08/03/23 09:53 Analyzed 08/07/23 10:15 Analyzed 08/06/23 18:03	Dil Fac 1 Dil Fac
Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<0.00396 I Range Organ Result <50.0 Sel Range Orga Result <50.0 <50.0	U ics (DRO) ( Qualifier U nics (DRO) Qualifier U *- U U	0.00396 GC) RL 50.0 (GC) RL 50.0 50.0	MDL	mg/Kg Unit mg/Kg Unit mg/Kg mg/Kg	D	Prepared Prepared 08/04/23 17:30 08/04/23 17:30	O8/03/23 09:53           Analyzed           08/07/23 10:15           Analyzed           08/06/23 18:03           08/06/23 18:03	Dil Fac 1 Dil Fac 1
Analyte Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	<0.00396 I Range Organ Result <50.0 Sel Range Orga Result <50.0 <50.0 <50.0	U ics (DRO) ( Qualifier U nics (DRO) Qualifier U *- U U	0.00396 GC) RL 50.0 (GC) RL 50.0 50.0 50.0	MDL	mg/Kg Unit mg/Kg Unit mg/Kg mg/Kg	D	Prepared Prepared 08/04/23 17:30 08/04/23 17:30 08/04/23 17:30	08/03/23 09:53 Analyzed 08/07/23 10:15 Analyzed 08/06/23 18:03 08/06/23 18:03 08/06/23 18:03	Dil Fac

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Lab Sample ID: 880-31283-1

5

Matrix: Solid

Client: Carmona Resources Project/Site: Tonto 15 State #1

Job ID: 880-31283-1 SDG: Lea County, New Mexico

#### Method: 8021B - Volatile Organic Compounds (GC) Matrix: Solid

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
ab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-31279-A-1-A MS	Matrix Spike	103	100	
880-31279-A-1-B MSD	Matrix Spike Duplicate	108	104	
880-31283-1	S-5 (0-1')	103	104	
LCS 880-58971/1-A	Lab Control Sample	104	100	
LCSD 880-58971/2-A	Lab Control Sample Dup	95	103	
MB 880-58971/5-A	Method Blank	84	89	
MB 880-58998/5-A	Method Blank	85	89	
Surrogate Legend		00	00	

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

#### Matrix: Solid

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Sample ID	Client Sample ID	(70-130)	(70-130)	
283-1	S-5 (0-1')	83	80	
64-A-2-F MS	Matrix Spike	123	104	
664-A-2-G MSD	Matrix Spike Duplicate	128	112	
59369/2-A	Lab Control Sample	93	94	
30-59369/3-A	Lab Control Sample Dup	85	82	
880-59369/1-A	Method Blank	88	94	

#### Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Prep Type: Total/NA

## **QC Sample Results**

Client: Carmona Resources Project/Site: Tonto 15 State #1

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

## Lab Sample ID: MB 880-58971/5-A

Matrix: Solid Analysis Batch: 59072

-	МВ	МВ							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	< 0.00200	U	0.00200		mg/Kg		08/01/23 09:18	08/02/23 22:08	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/01/23 09:18	08/02/23 22:08	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/01/23 09:18	08/02/23 22:08	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/01/23 09:18	08/02/23 22:08	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/01/23 09:18	08/02/23 22:08	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/01/23 09:18	08/02/23 22:08	1
	МВ	МВ							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 130				08/01/23 09:18	08/02/23 22:08	1
1,4-Difluorobenzene (Surr)	89		70 - 130				08/01/23 09:18	08/02/23 22:08	1

#### Lab Sample ID: LCS 880-58971/1-A Matrix: Solid

### Analysis Batch: 59072

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.07714		mg/Kg		77	70 - 130	
Toluene	0.100	0.1014		mg/Kg		101	70 - 130	
Ethylbenzene	0.100	0.08911		mg/Kg		89	70 - 130	
m-Xylene & p-Xylene	0.200	0.1753		mg/Kg		88	70 - 130	
o-Xylene	0.100	0.08985		mg/Kg		90	70 - 130	

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

#### Lab Sample ID: LCSD 880-58971/2-A

#### Matrix: Solid

Analysis Batch: 59072							Prep	Batch:	58971
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.08576		mg/Kg		86	70 - 130	11	35
Toluene	0.100	0.1000		mg/Kg		100	70 - 130	1	35
Ethylbenzene	0.100	0.08572		mg/Kg		86	70 - 130	4	35
m-Xylene & p-Xylene	0.200	0.1641		mg/Kg		82	70 - 130	7	35
o-Xylene	0.100	0.08388		mg/Kg		84	70 - 130	7	35

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

## Lab Sample ID: 880-31279-A-1-A MS

## Matrix: Solid

Analysis Batch: 59072									Prep	Batch: 58971
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00202	U	0.0996	0.07513		mg/Kg		75	70 - 130	
Toluene	<0.00202	U	0.0996	0.08995		mg/Kg		90	70 - 130	

Prep Type: Total/NA

**Client Sample ID: Matrix Spike** 

**Client Sample ID: Method Blank** 

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 58971

Prep Batch: 58971

Client: Carmona Resources

Project/Site: Tonto 15 State #1

#### Job ID: 880-31283-1 SDG: Lea County, New Mexico

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

Lab Sample ID: 880-31279-A	-1-A MS										Client S	Sample ID		-
Matrix: Solid												Prep 1	ype: To	otal/N/
Analysis Batch: 59072												Prep	Batch:	: <b>5897</b> '
	Sample S	Sample		Spike	MS	MS						%Rec		
Analyte	Result 0	Qualifier	r	Added	Result	Qua	lifier	Unit		D	%Rec	Limits		
Ethylbenzene	<0.00202	J		0.0996	0.08100			mg/Kg			81	70 - 130		
m-Xylene & p-Xylene	<0.00403 l	J		0.199	0.1561			mg/Kg			78	70 - 130		
o-Xylene	<0.00202 l	J		0.0996	0.07987			mg/Kg			80	70 - 130		
		ИS												
Surrogate		Qualifie	r	Limits										
4-Bromofluorobenzene (Surr)	103			70 - 130										
1,4-Difluorobenzene (Surr)	100			70 - 130										
Lab Sample ID: 880-31279-A	-1-B MSD								Clie	nt Sa	ample ID:	Matrix Sp		
Matrix: Solid													ype: To	
Analysis Batch: 59072													Batch:	
	Sample S	•		Spike	MSD							%Rec		RPD
Analyte	Result 0		r	Added	Result	Qua	lifier	Unit		D	%Rec	Limits	RPD	Limi
Benzene	<0.00202 l	J		0.0994	0.07017			mg/Kg			71	70 - 130	7	35
Toluene	<0.00202 l	J		0.0994	0.08738			mg/Kg			88	70 - 130	3	3
Ethylbenzene	<0.00202 l	J		0.0994	0.07772			mg/Kg			78	70 - 130	4	3
m-Xylene & p-Xylene	<0.00403 l	J		0.199	0.1481			mg/Kg			75	70 - 130	5	35
o-Xylene	<0.00202 l	J		0.0994	0.07711			mg/Kg			78	70 - 130	4	3
	MSD I	NSD												
Surrogate	%Recovery	Qualifier	r	Limits										
4-Bromofluorobenzene (Surr)	108			70 - 130										
1,4-Difluorobenzene (Surr)	104			70 - 130										
Lab Sample ID: MB 880-5899	98/ <b>5-A</b>										Client Sa	mple ID:	Method	I Blanl
Matrix: Solid												Prep 1	ype: To	otal/N/
Analysis Batch: 59072												Prep	Batch:	: 58998
	I	МВ МВ	3											
Analyte	Res	sult Qu	alifier	R	<u> </u>	MDL	Unit		D	P	repared	Analyz	ed	Dil Fa
Benzene	<0.002	200 U		0.0020	)		mg/K	g		08/0	1/23 10:59	08/02/23	11:28	
Toluene	<0.002	200 U		0.0020	)		mg/K	g		08/0	1/23 10:59	08/02/23	11:28	
Ethylbenzene	<0.002	200 U		0.0020	D		mg/K	g		08/0	1/23 10:59	08/02/23	11:28	
m-Xylene & p-Xylene	<0.004	400 U		0.0040	)		mg/K	g		08/0	1/23 10:59	08/02/23	11:28	••••••
o-Xylene	<0.002	200 U		0.0020	)		mg/K			08/0	1/23 10:59	08/02/23	11:28	
Xylenes, Total	<0.004	400 U		0.0040	0		mg/K			08/0	1/23 10:59	08/02/23	11:28	
		МВ МЕ												
	0/ 🗖	ery Qu	alifier	Limits	_						repared	Analyz		Dil Fa
Surrogate	%Recov									<u> </u>	1/23 10:59	08/02/23	11.00	
Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr)	%Recov	85 89		70 - 130 70 - 130							1/23 10:59	08/02/23		

Lab Sample ID: MB 880-59369/1-A							Client Sa	mple ID: Metho	d Blank
Matrix: Solid								Prep Type: 1	Total/NA
Analysis Batch: 59409								Prep Batch	n: <b>59369</b>
	MB	МВ						-	
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		08/04/23 17:29	08/06/23 08:16	1
(GRO)-C6-C10									

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

Lab Sample ID: MB 880-59369/1-A										Client S	Sample ID	: Method	Blank
Matrix: Solid											Prep	Type: To	otal/NA
Analysis Batch: 59409											Pre	p Batch:	59369
		MB											
Analyte			Qualifier	RL		MDL			<u>D</u>	Prepared	Anal		Dil Fac
Diesel Range Organics (Over C10-C28)	<{	50.0	U	50.0			mg/Kg		08	3/04/23 17:29	9 08/06/23	3 08:16	1
Oll Range Organics (Over C28-C36)	<{	50.0		50.0			mg/Kg		80	8/04/23 17:2	9 08/06/23	3 08:16	1
			MB							- ·		-	
Surrogate	%Recov	-	Qualifier	Limits						Prepared	Anal		Dil Fac
1-Chlorooctane		88		70 - 130						3/04/23 17:2			1
p-Terphenyl		94		70 - 130					08	3/04/23 17:2	9 08/06/2	3 08:16	1
ch Comple ID: 1 CS 880 50360/2-A									Clio	nt Samal	- ID: Lab (	Control S	amplo
Lab Sample ID: LCS 880-59369/2-A									Cile	At Sampa	e ID: Lab ( Bron		-
Matrix: Solid												Type: To	
Analysis Batch: 59409				Chika	1.09	1.00						p Batch:	22302
· · ·				Spike		LCS	- <b>-</b> .	·· ·.		*/ Dop	%Rec		
Analyte				Added	Result			Unit	[		Limits		
Gasoline Range Organics				1000	661.8	*-		mg/Kg		66	70 - 130		
GRO)-C6-C10 Diesel Range Organics (Over				1000	873.3			mg/Kg		87	70 - 130		
Diesel Range Organics (Over C10-C28)				1000	010.0			mg/rxg		01	70 - 100		
,10-020;													
	LCS	LCS											
	Recovery	Quali	ifier	Limits									
1-Chlorooctane	93	Quali	lifier	70 - 130									
		Quali	lifier										
1-Chlorooctane o-Terphenyl	93 94	Quali	lifier	70 - 130				014					
1-Chlorooctane p-Terphenyl Lab Sample ID: LCSD 880-59369/3-/	93 94	Quali	lifier	70 - 130				Clie	ent Sa	mple ID:	Lab Contr		-
1-Chlorooctane p-Terphenyl Lab Sample ID: LCSD 880-59369/3-/ Matrix: Solid	93 94	Quali	lifier	70 - 130				Clie	∍nt Sa	mple ID:	Prep	Type: To	otal/NA
1-Chlorooctane p-Terphenyl Lab Sample ID: LCSD 880-59369/3-/ Matrix: Solid	93 94	Quali	lifier	70 - 130 70 - 130				Clie	∍nt Sa	mple ID:	Prep Pre		otal/NA : 59369
1-Chlorooctane p-Terphenyl Lab Sample ID: LCSD 880-59369/3-/ Matrix: Solid Analysis Batch: 59409	93 94	Quali	ifier	70 - 130 70 - 130 <b>Spike</b>	LCSD					-	Prep Pre %Rec	Type: To p Batch:	otal/NA 59369 RPD
d-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-59369/3-/ Matrix: Solid Analysis Batch: 59409 Analyte	93 94	Quali		70 - 130 70 - 130 Spike Added	Result	Quali		Clie Unit	ent Sa	0 %Rec	Prep Pre %Rec Limits	Type: To p Batch: RPD	59369 RPD
I-Chlorooctane p-Terphenyl Lab Sample ID: LCSD 880-59369/3-/ Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics	93 94	Quali	lifier	70 - 130 70 - 130 <b>Spike</b>		Quali				-	Prep Pre %Rec	Type: To p Batch:	otal/NA 59369 RPD
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-59369/3-/ Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics GRO)-C6-C10	93 94	Quali	lifier	70 - 130 70 - 130 Spike Added 1000	<b>Result</b> 660.9	Quali		Unit mg/Kg		<b>0</b> % <b>Rec</b> 66	Prep Pre %Rec Limits 70 - 130	Type: To p Batch: 	<b>btal/NA</b> <b>59369</b> <b>RPD</b> <u>Limit</u> 20
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-59369/3-/ Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over	93 94	Quali	lifier	70 - 130 70 - 130 Spike Added	Result	Quali		Unit		0 %Rec	Prep Pre %Rec Limits	Type: To p Batch: RPD	<b>btal/NA</b> <b>59369</b> <b>RPD</b> <u>Limit</u> 20
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-59369/3-/ Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics GRO)-C6-C10	93 94	Quali	lifier	70 - 130 70 - 130 Spike Added 1000	<b>Result</b> 660.9	Quali		Unit mg/Kg		<b>0</b> % <b>Rec</b> 66	Prep Pre %Rec Limits 70 - 130	Type: To p Batch: 	59369 RPD
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-59369/3-/ Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over	93 94			70 - 130 70 - 130 Spike Added 1000	<b>Result</b> 660.9	Quali		Unit mg/Kg		<b>0</b> % <b>Rec</b> 66	Prep Pre %Rec Limits 70 - 130	Type: To p Batch: 	<b>btal/NA</b> <b>59369</b> <b>RPD</b> <u>Limit</u> 20
1-Chlorooctane p-Terphenyl Lab Sample ID: LCSD 880-59369/3-/ Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	93 94 A	LCSE		70 - 130 70 - 130 Spike Added 1000	<b>Result</b> 660.9	Quali		Unit mg/Kg		<b>0</b> % <b>Rec</b> 66	Prep Pre %Rec Limits 70 - 130	Type: To p Batch: 	<b>btal/NA</b> <b>59369</b> <b>RPD</b> <u>Limit</u> 20
1-Chlorooctane p-Terphenyl Lab Sample ID: LCSD 880-59369/3-/ Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	93 94 A	LCSE		70 - 130 70 - 130 Spike Added 1000	<b>Result</b> 660.9	Quali		Unit mg/Kg		<b>0</b> % <b>Rec</b> 66	Prep Pre %Rec Limits 70 - 130	Type: To p Batch: 	<b>btal/NA</b> <b>59369</b> <b>RPD</b> <u>Limit</u> 20
1-Chlorooctane p-Terphenyl Lab Sample ID: LCSD 880-59369/3-/ Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate %R	93 94 A LCSD Recovery	LCSE		70 - 130 70 - 130 Spike Added 1000 1000	<b>Result</b> 660.9	Quali		Unit mg/Kg		<b>0</b> % <b>Rec</b> 66	Prep Pre %Rec Limits 70 - 130	Type: To p Batch: 	<b>btal/NA</b> <b>59369</b> <b>RPD</b> <u>Limit</u> 20
1-Chlorooctane Terphenyl Lab Sample ID: LCSD 880-59369/3-/ Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate %R	93 94 A LCSD Recovery 85	LCSE		70 - 130 70 - 130 Spike Added 1000 1000 Limits 70 - 130	<b>Result</b> 660.9	Quali		Unit mg/Kg		<b>0</b> % <b>Rec</b> 66	Prep Pre %Rec Limits 70 - 130	Type: To p Batch: 	<b>btal/NA</b> <b>59369</b> <b>RPD</b> <u>Limit</u> 20
I-Chlorooctane Terphenyl Lab Sample ID: LCSD 880-59369/3-/ Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate %R I-Chlorooctane Terphenyl	93 94 A <i>LCSD</i> Recovery 85 82	LCSE		70 - 130 70 - 130 Spike Added 1000 1000 Limits 70 - 130	<b>Result</b> 660.9	Quali		Unit mg/Kg		<b>0</b> % <b>Rec</b> 66 85	Prep Pre %Rec Limits 70 - 130 70 - 130	Type: To p Batch: - RPD 0 3	stal/NA <b>59369</b> RPD Limit 20 20
I-Chlorooctane p-Terphenyl Lab Sample ID: LCSD 880-59369/3-/ Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate %R I-Chlorooctane p-Terphenyl Lab Sample ID: 880-31664-A-2-F MS	93 94 A <i>LCSD</i> Recovery 85 82	LCSE		70 - 130 70 - 130 Spike Added 1000 1000 Limits 70 - 130	<b>Result</b> 660.9	Quali		Unit mg/Kg		<b>0</b> % <b>Rec</b> 66 85	Prep           %Rec           Limits           70 - 130           70 - 130	Type: To p Batch: - <u>RPD</u> 3 3 D: Matrix	stal/NA <b>59369</b> RPD Limit 20 20 c Spike
I-Chlorooctane p-Terphenyl Lab Sample ID: LCSD 880-59369/3-/ Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate %R I-Chlorooctane p-Terphenyl Lab Sample ID: 880-31664-A-2-F MS Matrix: Solid	93 94 A LCSD Recovery 85 82	LCSE		70 - 130 70 - 130 Spike Added 1000 1000 Limits 70 - 130	<b>Result</b> 660.9	Quali		Unit mg/Kg		<b>0</b> % <b>Rec</b> 66 85	Prep Pre %Rec Limits 70 - 130 70 - 130	Type: To p Batch: - RPD 0 3 3 D: Matrix Type: To	tal/NA 59369 RPD Limit 20 20 c Spike otal/NA
I-Chlorooctane p-Terphenyl Lab Sample ID: LCSD 880-59369/3-/ Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate %R I-Chlorooctane p-Terphenyl Lab Sample ID: 880-31664-A-2-F MS	93 94 A A Recovery 85 82 S	LCSE Quali	D lifier	70 - 130 70 - 130 <b>Spike</b> Added 1000 1000 <i>Limits</i> 70 - 130 70 - 130	Result 660.9 845.2	Quali		Unit mg/Kg		<b>0</b> % <b>Rec</b> 66 85	Prep Pre %Rec Limits 70 - 130 70 - 130	Type: To p Batch: - <u>RPD</u> 3 3 D: Matrix	tal/NA 59369 RPD Limit 20 20 c Spike otal/NA
I-Chlorooctane         p-Terphenyl         Lab Sample ID: LCSD 880-59369/3-/         Matrix: Solid         Analysis Batch: 59409         Analyte         Gasoline Range Organics         GRO)-C6-C10         Diesel Range Organics (Over         C10-C28)         Surrogate         p-Terphenyl         Lab Sample ID: 880-31664-A-2-F MS         Matrix: Solid         Analysis Batch: 59409	93 94 A A Recovery 85 82 S Sample	LCSE Quali	D lifier	70 - 130 70 - 130 <b>Spike</b> Added 1000 1000 <i>Limits</i> 70 - 130 70 - 130 70 - 130	Result 660.9 845.2 MS	Quali *-	ifier	Unit mg/Kg mg/Kg	<u>[</u>	0 %Rec 66 85 Client	Prep Pre %Rec Limits 70 - 130 70 - 130 70 - 130	Type: To p Batch: - RPD 0 3 3 D: Matrix Type: To	tal/NA 59369 RPD Limit 20 20 c Spike otal/NA
I-Chlorooctane         p-Terphenyl         Lab Sample ID: LCSD 880-59369/3-/         Matrix: Solid         Analysis Batch: 59409         Analyte         Gasoline Range Organics         GRO)-C6-C10         Diesel Range Organics (Over         C10-C28)         Surrogate         p-Terphenyl         Lab Sample ID: 880-31664-A-2-F MS         Matrix: Solid         Analysis Batch: 59409	93 94 A A Recovery 85 82 S S Sample Result	LCSE Quali Samp Quali	D lifier	70 - 130         70 - 130         Spike         Added         1000         1000         1000         1000         1000         5pike         70 - 130         70 - 130         70 - 130         Spike         Added	Result 660.9 845.2 MS Result	Quali *-	ifier	Unit mg/Kg mg/Kg		0 %Rec 66 85 Client	Prep Pre %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 190 Prep Pre %Rec Limits	Type: To p Batch: - RPD 0 3 3 D: Matrix Type: To	tal/NA 59369 RPD Limit 20 20 c Spike otal/NA
I-Chlorooctane         p-Terphenyl         Lab Sample ID: LCSD 880-59369/3-/         Matrix: Solid         Analysis Batch: 59409         Analyte         Gasoline Range Organics         GRO)-C6-C10         Diesel Range Organics (Over         C10-C28)         Surrogate         p-Terphenyl         Lab Sample ID: 880-31664-A-2-F MS         Matrix: Solid         Analysis Batch: 59409         Analysis Batch: 59409         Analysis Batch: 59409         Analyte         Gasoline Range Organics	93 94 A A Recovery 85 82 S Sample	LCSE Quali Samp Quali	D lifier	70 - 130 70 - 130 <b>Spike</b> Added 1000 1000 <i>Limits</i> 70 - 130 70 - 130 70 - 130	Result 660.9 845.2 MS	Quali *-	ifier	Unit mg/Kg mg/Kg	<u>[</u>	0 %Rec 66 85 Client	Prep Pre %Rec Limits 70 - 130 70 - 130 70 - 130	Type: To p Batch: - RPD 0 3 3 D: Matrix Type: To	tal/NA 59369 RPD Limit 20 20 c Spike otal/NA
I-Chlorooctane         p-Terphenyl         Lab Sample ID: LCSD 880-59369/3-/         Matrix: Solid         Analysis Batch: 59409         Analyte         Gasoline Range Organics         GRO)-C6-C10         Diesel Range Organics (Over         C10-C28)         Surrogate         p-Terphenyl         Lab Sample ID: 880-31664-A-2-F MS         Matrix: Solid         Analysis Batch: 59409         Analysis Batch: 59409         Analyte         Gasoline Range Organics         GRO)-C6-C10	93 94 A A Recovery 85 82 S S Sample Result	LCSE Quali Samp Quali	D lifier	70 - 130         70 - 130         Spike         Added         1000         1000         1000         1000         1000         5pike         70 - 130         70 - 130         70 - 130         Spike         Added	Result 660.9 845.2 MS Result	Quali *-	ifier	Unit mg/Kg mg/Kg	<u>[</u>	0 %Rec 66 85 Client	Prep Pre %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 190 Prep Pre %Rec Limits	Type: To p Batch: - RPD 0 3 3 D: Matrix Type: To	tal/NA 59369 RPD Limit 20 20 c Spike otal/NA
I-Chlorooctane         p-Terphenyl         Lab Sample ID: LCSD 880-59369/3-/         Matrix: Solid         Analysis Batch: 59409         Analyte         Gasoline Range Organics         GRO)-C6-C10         Diesel Range Organics (Over         C10-C28)         Surrogate         p-Terphenyl         Lab Sample ID: 880-31664-A-2-F MS         Matrix: Solid         Analysis Batch: 59409         Analysis Batch: 59409         Analysis Batch: 59409         Analyte         Gasoline Range Organics	93 94 A A S S S S S S S S S S S S S S S S S	LCSE Quali Samp Quali	D lifier	70 - 130         70 - 130         Spike         Added         1000         1000         1000         1000         1000         5pike         70 - 130         70 - 130         70 - 130         993	Result           660.9           845.2           MS           Result           876.9	Quali *-	ifier	Unit mg/Kg mg/Kg Unit mg/Kg	<u>[</u>	<ul> <li>%Rec</li> <li>66</li> <li>85</li> <li>Client</li> <li>%Rec</li> <li>86</li> </ul>	Prep Pre %Rec Limits 70 - 130 70 - 130 70 - 130 30 8 8 8 8 8 8 9 70 9 70 9 70 130 130 130 130 130 130 130 13	Type: To p Batch: - RPD 0 3 3 D: Matrix Type: To	tal/NA 59369 RPD Limit 20 20 c Spike tal/NA
I-Chlorooctane         p-Terphenyl         Lab Sample ID: LCSD 880-59369/3-/         Matrix: Solid         Analysis Batch: 59409         Analyte         Gasoline Range Organics         GRO)-C6-C10         Diesel Range Organics (Over         C10-C28)         Surrogate         p-Terphenyl         Lab Sample ID: 880-31664-A-2-F MS         Matrix: Solid         Analysis Batch: 59409         Analysis Batch: 59409         Analyte         Gasoline Range Organics (GRO)-C6-C10         Diesel Range Organics (Over	93 94 A A Recovery 85 82 S S S S S ample Result <50.3 61.5	LCSE Quali Quali	D lifier	70 - 130         70 - 130         Spike         Added         1000         1000         1000         1000         1000         5pike         70 - 130         70 - 130         70 - 130         993	Result           660.9           845.2           MS           Result           876.9	Quali *-	ifier	Unit mg/Kg mg/Kg Unit mg/Kg	<u>[</u>	<ul> <li>%Rec</li> <li>66</li> <li>85</li> <li>Client</li> <li>%Rec</li> <li>86</li> </ul>	Prep Pre %Rec Limits 70 - 130 70 - 130 70 - 130 30 8 8 8 8 8 8 9 70 9 70 9 70 130 130 130 130 130 130 130 13	Type: To p Batch: - RPD 0 3 3 D: Matrix Type: To	tal/NA 59369 RPD Limit 20 20 c Spike otal/NA
I-Chlorooctane   p-Terphenyl   Lab Sample ID: LCSD 880-59369/3-/   Matrix: Solid   Analysis Batch: 59409   Analyte   Gasoline Range Organics   (GRO)-C6-C10   Diesel Range Organics (Over   C10-C28)   Surrogate   p-Terphenyl   Lab Sample ID: 880-31664-A-2-F MS   Matrix: Solid   Analysis Batch: 59409   Analyte   Gasoline Range Organics   GRO)-C6-C10   Diesel Range ID: 880-31664-A-2-F MS   Matrix: Solid   Analysis Batch: 59409   Analyte   Gasoline Range Organics   GRO)-C6-C10   Diesel Range Organics (Over   C10-C28)	93 94 A A A A A A A A A A A A A A A A A A	LCSE Quali Quali U *-	D lifier	70 - 130         70 - 130 <b>Spike</b> Added         1000         1000         1000         1000         1000         5pike         70 - 130         70 - 130         70 - 130         993         993         993	Result           660.9           845.2           MS           Result           876.9	Quali *-	ifier	Unit mg/Kg mg/Kg Unit mg/Kg	<u>[</u>	<ul> <li>%Rec</li> <li>66</li> <li>85</li> <li>Client</li> <li>%Rec</li> <li>86</li> </ul>	Prep Pre %Rec Limits 70 - 130 70 - 130 70 - 130 30 8 8 8 8 8 8 9 70 9 70 9 70 130 130 130 130 130 130 130 13	Type: To p Batch: - RPD 0 3 3 D: Matrix Type: To	tal/NA 59369 RPD Limit 20 20 c Spike otal/NA
I-Chlorooctane   p-Terphenyl   Lab Sample ID: LCSD 880-59369/3-/   Matrix: Solid   Analysis Batch: 59409   Analyte   Gasoline Range Organics   (GRO)-C6-C10   Diesel Range Organics (Over   C10-C28)   Surrogate   p-Terphenyl   Lab Sample ID: 880-31664-A-2-F MS   Matrix: Solid   Analysis Batch: 59409   Analyte   Gasoline Range Organics   GRO)-C6-C10   Diesel Range ID: 880-31664-A-2-F MS   Matrix: Solid   Analysis Batch: 59409   Analyte   Gasoline Range Organics   GRO)-C6-C10   Diesel Range Organics (Over   C10-C28)	93 94 A A Recovery 85 82 S S S S S ample Result <50.3 61.5	LCSE Quali Quali U *-	D lifier	70 - 130         70 - 130         Spike         Added         1000         1000         1000         1000         1000         5pike         70 - 130         70 - 130         70 - 130         993	Result           660.9           845.2           MS           Result           876.9	Quali *-	ifier	Unit mg/Kg mg/Kg Unit mg/Kg	<u>[</u>	<ul> <li>%Rec</li> <li>66</li> <li>85</li> <li>Client</li> <li>%Rec</li> <li>86</li> </ul>	Prep Pre %Rec Limits 70 - 130 70 - 130 70 - 130 30 8 8 8 8 8 8 9 70 9 70 9 70 130 130 130 130 130 130 130 13	Type: To p Batch: - RPD 0 3 3 D: Matrix Type: To	tal/NA 59369 RPD Limit 20 20 c Spike otal/NA

## **QC Sample Results**

Client: Carmona Resources Project/Site: Tonto 15 State #1 Job ID: 880-31283-1 SDG: Lea County, New Mexico

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

Analysis Batch: 59409										Batch:		
	-	Sample	Spike		MSD		_	~ <b>-</b>	%Rec		RPD	
Analyte		Qualifier	Added		Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics	<50.3	U *-	992	918.4		mg/Kg		91	70 - 130	5	20	
GRO)-C6-C10	04.5		000	1051		116		400	70 100	0	00	÷.
Diesel Range Organics (Over	61.5		992	1254		mg/Kg		120	70 - 130	6	20	
C10-C28)												2
	MSD	MSD										
Surrogate	%Recovery	Qualifier	Limits									5
-Chlorooctane	128		70 - 130									
p-Terphenyl	112		70 - 130									
												4

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Released to Imaging: 11/6/2023 11:57:53 AM

## **QC Association Summary**

Client: Carmona Resources Project/Site: Tonto 15 State #1

Job ID: 880-31283-1 SDG: Lea County, New Mexico

## **GC VOA**

### Prep Batch: 58971

GC VOA					
rep Batch: 58971					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31283-1	S-5 (0-1')	Total/NA	Solid	5035	
MB 880-58971/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-58971/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-58971/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-31279-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
880-31279-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	
Lab Sample ID MB 880-58998/5-A	Client Sample ID Method Blank	Total/NA	Matrix Solid	<u>Method</u> 5035	Prep Batch
		Total/INA	5010	5055	
nalysis Batch: 59072	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31283-1	<u>S-5 (0-1')</u>	Total/NA	Solid	8021B	58971
MB 880-58971/5-A	Method Blank	Total/NA	Solid	8021B	58971
MB 880-58998/5-A	Method Blank	Total/NA	Solid	8021B	58998
LCS 880-58971/1-A	Lab Control Sample	Total/NA	Solid	8021B	58971
LCSD 880-58971/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	58971
880-31279-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	58971
		Τ-+-1/ΝΙΛ	0 " 1	0004D	

#### Analysis Batch: 59072

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31283-1	S-5 (0-1')	Total/NA	Solid	8021B	58971
MB 880-58971/5-A	Method Blank	Total/NA	Solid	8021B	58971
MB 880-58998/5-A	Method Blank	Total/NA	Solid	8021B	58998
LCS 880-58971/1-A	Lab Control Sample	Total/NA	Solid	8021B	58971
LCSD 880-58971/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	58971
880-31279-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	58971
880-31279-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	58971

#### Analysis Batch: 59204

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
880-31283-1	S-5 (0-1')	Total/NA	Solid	Total BTEX	

### GC Semi VOA

#### Prep Batch: 59369

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31283-1	S-5 (0-1')	Total/NA	Solid	8015NM Prep	
MB 880-59369/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-59369/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-59369/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-31664-A-2-F MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-31664-A-2-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

#### Analysis Batch: 59409

880-31283-1

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
880-31283-1	S-5 (0-1')	Total/NA	Solid	8015B NM	59369
MB 880-59369/1-A	Method Blank	Total/NA	Solid	8015B NM	59369
LCS 880-59369/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	59369
LCSD 880-59369/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	59369
880-31664-A-2-F MS	Matrix Spike	Total/NA	Solid	8015B NM	59369
880-31664-A-2-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	59369
Analysis Batch: 59485					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch

Total/NA

Solid

8015 NM

S-5 (0-1')
# Client Sample ID: S-5 (0-1') Date Collected: 07/25/23 00:00 Date Received: 07/26/23 16:45

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	58971	08/01/23 09:18	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	59072	08/02/23 23:52	SM	EET MID
Total/NA	Analysis	Total BTEX		1			59204	08/03/23 09:53	SM	EET MID
Total/NA	Analysis	8015 NM		1			59485	08/07/23 10:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	59369	08/04/23 17:30	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59409	08/06/23 18:03	SM	EET MID

# Laboratory References:

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

Job ID: 880-31283-1 SDG: Lea County, New Mexico

# Lab Sample ID: 880-31283-1

Matrix: Solid

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# Job ID: 880-31283-1 SDG: Lea County, New Mexico

# Project/Site: Tonto 15 State #1

Client: Carmona Resources

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

uthority		rogram	Identification Number	Expiration Date	
Texas	N	ELAP	T104704400-23-26	06-30-24	
• ,		ut the laboratory is not certif	ied by the governing authority. This list ma	ay include analytes for	
the agency does not of	fer certification.		d by the governing authority. This list may include analytes for Analyte Total TPH		
the agency does not of Analysis Method	Prep Method	Matrix	Analyte		
0,		Matrix Solid	Analyte Total TPH		

# **Method Summary**

# Client: Carmona Resources Project/Site: Tonto 15 State #1

Job ID: 880-31283-1 SDG: Lea County, New Mexico

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
Laboratory Re	- TestAmerica Laboratories, Standard Operating Procedure •ferences: - Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440		

#### Protocol References:

# Laboratory References:

# Sample Summary

Client: Carmona Resources Project/Site: Tonto 15 State #1 Job ID: 880-31283-1 SDG: Lea County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-31283-1	S-5 (0-1')	Solid	07/25/23 00:00	07/26/23 16:45

													880	880-31283 Chain of Custody	3 Cha	lin of	Custo			T
																		Page_	 	of 1
Project Manager	Clinton Merritt				Bill to (if different)		Melodie Sanjari	ànjari					ĺ		Wo	Ř	der C	Work Order Comments		
	Carmona Resources	ces			Company Name		Marathon	Marathon Oil Corporation	ation			Prog	Program: UST/PST PRP Trownfields	TIPST	<b>_</b>		rown			
	310 W Wall St Ste 500	e 500			Address		990 Towr	990 Town and Country Blvd	trv Blvd			State	State of Project	ă i	С ;	[				
City, State ZIP	Midland, TX 79701	-			City, State ZIP		Houston TX 77024	TX 77024				Repo	Reporting Level II Level III ST/UST	e = □	Leve]	Ξ	JST/	JST RRP		
Phone				Email	msanjari@marathonoil.com	athonoil c	om					Deliv	Deliverables EDD	EDD		Þ	ADaPT		•	
Project Name	Tont	Tonto 15 State #1	<u>ح</u>	Tum	Turn Around															
Project Number		2089		マ Routine	[] Rush	Pres.			_					_				Pres	Preservative Codes	Codes
Project Location	Lea Cou	Lea County, New Mexico	exico	Due Date	5 dav		_					-		_				None NO	D	DI Water: H <sub>2</sub> O
Sampler's Name		CCM					20)	,									uleariae		Me	MeOH Me
PO #						5	+ MF												: Ţ	HNO <sub>3</sub> HN
SAMPLE RECEIPT	PT TempeBlank	βlank	Yes Ko	Wet Ice	Kes No	eter														NaUH Na
Received Intact:	es (es		~ 1		0.27	 ram	8021 	e 30												
Cooler Custody Seals	s Yes No	Ð	Correction Factor		.! .!	Pa												USEN USEN	Naco Sigura	
Sample Custody Seals.	ls. Yes No	NA	Temperature Reading	ıding	64	L												Zn Acetate+NaOH Zn	+NaOH 7	<b>_</b>
Total Containers.			Corrected Temperature	rature.	2.5		H 801											NaOH+Ascorbic Acid SAPC	orbic Aci	1 SAPC
Sample Identification	tification	Date	Time	Soil	Water Comp	Cont	TF											Sam	Sample Comments	ments
S-5 (0-1')	(1)	7 25 23		×	G	-	××							<u> </u>						
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															$\downarrow$	$\square$				
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Comments Email	Email results to Mike Carmona mcarmona@carmonaresources com, Conner Moehring cmoehring@carmonaresources com, Clint MerrittC@carmonaresources com	,armona me	;armona@can	nonaresource	is com, Conne	r Moehrr	g cmoer	rmg@ca	rmonare	sources	com, C	Int Men	ritt Mer	rittC@	)carn	nona	resol	Irces com	aist	
																				<u>6</u>
>	Rel	Relinquished by (Signature)	(Signature)				Date/Time	Ф —			Rp	Received by (Signature)	y (Sigr	lature					Date	Date/Time
	AN M		M				- The-	23				A	R							
$\sqrt{1}$			V D				104	V												

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en y  $\langle n \rangle$ 3 7<sup>684</sup>

5

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Job Number: 880-31283-1

List Source: Eurofins Midland

SDG Number: Lea County, New Mexico

# Login Sample Receipt Checklist

Client: Carmona Resources

Login Number: 31283 List Number: 1 Creator: Rodriguez, Leticia

<6mm (1/4").

Question Answer Comment The cooler's custody seal, if present, is intact. N/A N/A Sample custody seals, if present, are intact. The cooler or samples do not appear to have been compromised or True tampered with. Samples were received on ice. True True Cooler Temperature is acceptable. 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 True HTs) 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 True MS/MSDs

N/A

Eurofins Midland Released to Imaging: 11/6/2023 11:57:53 AM

Containers requiring zero headspace have no headspace or bubble is

Received by OCD: 9/21/2023 6:16:51 AM



**Environment Testing** 

# **ANALYTICAL REPORT**

# PREPARED FOR

Attn: Clint Merritt Carmona Resources 310 W Wall St Ste 500 Midland, Texas 79701 Generated 8/7/2023 12:33:39 PM

# JOB DESCRIPTION

Tonto 15 State #1 SDG NUMBER Lea County, New Mexico

# **JOB NUMBER**

880-31274-1

Eurofins Midland 1211 W. Florida Ave Midland TX 79701

See page two for job notes and contact information.

# **Eurofins Midland**

# Job Notes

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

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

# Authorization

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Laboratory Job ID: 880-31274-1 SDG: Lea County, New Mexico

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# Client: Carmona Resources Project/Site: Tonto 15 State #1

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Qualifiers		3
GC VOA		
Qualifier	Qualifier Description	4
S1-	Surrogate recovery exceeds control limits, low biased.	
U	Indicates the analyte was analyzed for but not detected.	5
GC Semi VOA	A	-
Qualifier	Qualifier Description	6
*_	LCS and/or LCSD is outside acceptance limits, low biased.	
U	Indicates the analyte was analyzed for but not detected.	
Glossary		8
Abbreviation	These commonly used abbreviations may or may not be present in this report.	0
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis	9
%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	10
DLC	Decision Level Concentration (Radiochemistry)	13
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)
- Toxicity Equivalent Quotient (Dioxin) TEQ
- TNTC Too Numerous To Count

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Job ID: 880-31274-1 SDG: Lea County, New Mexico

# Job ID: 880-31274-1

Client: Carmona Resources Project/Site: Tonto 15 State #1

# Laboratory: Eurofins Midland

#### Narrative

Job Narrative 880-31274-1

#### Receipt

The sample was received on 7/26/2023 4:45 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.5°C

# GC VOA

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-59172 recovered above the upper control limit for Benzene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 880-59172/20).

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-59110 and analytical batch 880-59172 was outside the upper control limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: S-6 (2') (880-31274-1) and (880-31278-A-1-A). 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: The laboratory control sample (LCS) associated with preparation batch 880-59369 and analytical batch 880-59409 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.

Job ID: 880-31274-1 SDG: Lea County, New Mexico

# Lab Sample ID: 880-31274-1

Matrix: Solid

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# Client: Carmona Resources Project/Site: Tonto 15 State #1

# Client Sample ID: S-6 (2') Date Collected: 07/25/23 00:00 Date Received: 07/26/23 16:45

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/01/23 09:01	08/04/23 05:28	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/01/23 09:01	08/04/23 05:28	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/01/23 09:01	08/04/23 05:28	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		08/01/23 09:01	08/04/23 05:28	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/01/23 09:01	08/04/23 05:28	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		08/01/23 09:01	08/04/23 05:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130				08/01/23 09:01	08/04/23 05:28	1
1,4-Difluorobenzene (Surr)	59	S1-	70 - 130				08/01/23 09:01	08/04/23 05:28	1
Total BTEX : Method: SW846 8015 NM - Diese	<0.00401 I Range Organ		0.00401 GC)		mg/Kg			08/04/23 10:48	·
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3		mg/Kg			08/07/23 10:15	1
Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.3	U *-	50.3		mg/Kg		08/04/23 17:30	08/06/23 13:43	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3		mg/Kg		08/04/23 17:30	08/06/23 13:43	1
	<50.3	U	50.3		mg/Kg		08/04/23 17:30	08/06/23 13:43	1
Oll Range Organics (Over C28-C36)									
	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	% <b>Recovery</b> 93	Qualifier	Limits				Prepared 08/04/23 17:30	Analyzed 08/06/23 13:43	Dil Fac

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Job ID: 880-31274-1 SDG: Lea County, New Mexico

Prep Type: Total/NA

Prep Type: Total/NA

# Method: 8021B - Volatile Organic Compounds (GC) Matrix: Solid

				Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1		
Lab Sample ID	Client Sample ID	(70-130)	(70-130)		
880-31274-1	S-6 (2')	87	59 S1-		18
880-31278-A-1-B MS	Matrix Spike	121	124		
880-31278-A-1-C MSD	Matrix Spike Duplicate	119	91		
LCS 880-58969/1-A	Lab Control Sample	115	111		
LCSD 880-58969/2-A	Lab Control Sample Dup	114	109		
MB 880-58969/5-A	Method Blank	73	79		
MB 880-59110/5-A	Method Blank	68 S1-	100		
Surrogate Legend					

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

# Matrix: Solid

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
ample ID	Client Sample ID	(70-130)	(70-130)	
274-1	S-6 (2')	93	96	
664-A-2-F MS	Matrix Spike	123	104	
64-A-2-G MSD	Matrix Spike Duplicate	128	112	
-59369/2-A	Lab Control Sample	93	94	
880-59369/3-A	Lab Control Sample Dup	85	82	
80-59369/1-A	Method Blank	88	94	

### Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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# Eurofins Midland

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# **QC Sample Results**

Client: Carmona Resources Project/Site: Tonto 15 State #1

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

Lab Sample ID: MB 880-58969/5-A	
Matrix: Calid	

Matrix: Solid Analysis Batch: 59172

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/01/23 09:01	08/03/23 22:38	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/01/23 09:01	08/03/23 22:38	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/01/23 09:01	08/03/23 22:38	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/01/23 09:01	08/03/23 22:38	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/01/23 09:01	08/03/23 22:38	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/01/23 09:01	08/03/23 22:38	1
	МВ	МВ							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	73		70 - 130				08/01/23 09:01	08/03/23 22:38	1
1,4-Difluorobenzene (Surr)	79		70 - 130				08/01/23 09:01	08/03/23 22:38	1

# Lab Sample ID: LCS 880-58969/1-A Matrix: Solid

# Analysis Batch: 59172

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09442		mg/Kg		94	70 - 130	
Toluene	0.100	0.08693		mg/Kg		87	70 - 130	
Ethylbenzene	0.100	0.1010		mg/Kg		101	70 - 130	
m-Xylene & p-Xylene	0.200	0.2099		mg/Kg		105	70 - 130	
o-Xylene	0.100	0.1041		mg/Kg		104	70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	115		70 - 130
1,4-Difluorobenzene (Surr)	111		70 - 130

# Lab Sample ID: LCSD 880-58969/2-A

# Matrix: Solid

Analysis Batch: 59172							Prep	Batch:	58969
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.08592		mg/Kg		86	70 - 130	9	35
Toluene	0.100	0.08219		mg/Kg		82	70 - 130	6	35
Ethylbenzene	0.100	0.08963		mg/Kg		90	70 - 130	12	35
m-Xylene & p-Xylene	0.200	0.1870		mg/Kg		94	70 - 130	12	35
o-Xylene	0.100	0.09268		mg/Kg		93	70 - 130	12	35

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

# Lab Sample ID: 880-31278-A-1-B MS

# Matrix: Solid

Analysis Batch: 59172									Pre	b Batch: 58969
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00202	U	0.0994	0.1002		mg/Kg		101	70 - 130	
Toluene	<0.00202	U	0.0994	0.09371		mg/Kg		94	70 - 130	

Prep Type: Total/NA

**Client Sample ID: Matrix Spike** 

**Client Sample ID: Lab Control Sample** 

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 58969

Client: Carmona Resources

Project/Site: Tonto 15 State #1

# Job ID: 880-31274-1 SDG: Lea County, New Mexico

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

Lab Sample ID: 880-31278-/	A-1-B MS									Clie	ent Sa	ample ID:		-
Matrix: Solid												Prep Ty	-	
Analysis Batch: 59172												Prep l	Batch:	5896
	Sample	Sam	ple	Spike	MS	MS						%Rec		
Analyte	Result	Qual	ifier	Added	Result	Qua	lifier	Unit		D %Re	c l	Limits		
Ethylbenzene	< 0.00202	U		0.0994	0.1030			mg/Kg		10	4 7	70 - 130		
n-Xylene & p-Xylene	<0.00403	U		0.199	0.2125			mg/Kg		10	7 7	70 - 130		
p-Xylene	<0.00202	U		0.0994	0.1040			mg/Kg		10	5 7	70 - 130		
	MS	MS												
Surrogate	%Recovery	Qual	lifier	Limits										
4-Bromofluorobenzene (Surr)	121			70 - 130										
1,4-Difluorobenzene (Surr)	124			70 - 130										
Lab Sample ID: 880-31278-/	A-1-C MSD								Client	t Sample	D: N	Matrix Spi	ike Duj	plicat
Matrix: Solid												Prep Ty	/pe: To	otal/N/
Analysis Batch: 59172												Prep l	Batch:	<b>5896</b>
	Sample	Sam	ple	Spike	MSD	MSD	)					%Rec		RPI
Analyte	Result	Qual	ifier	Added	Result	Qua	lifier	Unit		D %Re	c	Limits	RPD	Lim
Benzene	<0.00202	U		0.0998	0.09502			mg/Kg		9	5 7	70 - 130	5	3
Toluene	<0.00202	U		0.0998	0.09100			mg/Kg		9	1 7	70 - 130	3	3
Ethylbenzene	<0.00202	U		0.0998	0.1021			mg/Kg		10	2 7	70 - 130	1	3
m-Xylene & p-Xylene	<0.00403	U		0.200	0.2097			mg/Kg		10	5 7	70 - 130	1	3
p-Xylene	<0.00202	U		0.0998	0.1024			mg/Kg		10	3 7	70 - 130	2	3
	MSD	MSD	1											
Surrogate	%Recovery	Qual	lifier	Limits										
4-Bromofluorobenzene (Surr)	119			70 - 130										
1,4-Difluorobenzene (Surr)	91			70 - 130										
Lab Sample ID: MB 880-591	110/5-A									Clien	nt San	nple ID: N	lethod	Blan
Matrix: Solid												Prep Ty	-	
Analysis Batch: 59172												Prep	Batch:	5911
		ΜВ	MB											
Analyte	Re	sult	Qualifier	RL		MDL	Unit		D	Prepare	d	Analyze	d	Dil Fa
Benzene	<0.00	200	U	0.00200		-	mg/Kg	_	(	08/02/23 11	1:14	08/03/23 1	1:30	
Toluene	<0.00	200	U	0.00200			mg/Kg		(	08/02/23 11	1:14	08/03/23 1	1:30	
Ethylbenzene	<0.00	200	U	0.00200			mg/Kg		(	08/02/23 11	1:14	08/03/23 1	1:30	
m-Xylene & p-Xylene	<0.00	400	U	0.00400			mg/Kg		(	08/02/23 11	1:14	08/03/23 1	1:30	
o-Xylene	<0.00	200	U	0.00200			mg/Kg		(	08/02/23 12	1:14	08/03/23 1	1:30	
Xylenes, Total	<0.00	400	U	0.00400			mg/Kg		(	08/02/23 11	1:14	08/03/23 1	1:30	
		ΜВ								_				
		VOrV	Qualifier	Limits						Prepare		Analyze	ed	Dil Fa
-	%Reco	-											1 00	
Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr)	%Reco	-	S1-	70 - 130 70 - 130						08/02/23 1 <sup>.</sup> 08/02/23 1 <sup>.</sup>		08/03/23 1 08/03/23 1		

Lab Sample ID: MB 880-59369/1-A Matrix: Solid Analysis Batch: 59409							Client Sa	mple ID: Metho Prep Type: ∃ Prep Batcł	Total/NA
	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		08/04/23 17:29	08/06/23 08:16	1
(GRO)-C6-C10									

Job ID: 880-31274-1 SDG: Lea County, New Mexico

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

Lab Sample ID: MB 880-59369/											ample ID:		
Matrix: Solid												ype: To	
Analysis Batch: 59409											Prep	Batch:	59369
	MB	MB											
Analyte	Result	Qualifier	RL		MDL	Unit		D	Pr	repared	Analyz	ed	Dil Fac
Diesel Range Organics (Over	<50.0	U	50.0			mg/Kg			08/04	4/23 17:29	08/06/23	08:16	
C10-C28)													
Oll Range Organics (Over C28-C36)	<50.0	U	50.0			mg/Kg			08/04	4/23 17:29	08/06/23	08:16	
	МВ	MB											
Surrogate	%Recovery		Limits						Pi	repared	Analyz	ed	Dil Fa
1-Chlorooctane	88		70 - 130					-		4/23 17:29	08/06/23		-
o-Terphenyl	94		70 - 130							4/23 17:29			
Lab Sample ID: LCS 880-59369	)/2-A							Cli	ient	Sample	ID: Lab Co	ontrol S	ampl
Matrix: Solid										- C.		ype: To	
Analysis Batch: 59409												Batch:	
			Spike	LCS	LCS						%Rec		
Analyte			Added	Result	Qual	lifier	Unit		D	%Rec	Limits		
Gasoline Range Organics			1000	661.8	*_		mg/Kg		_	66	70 - 130		
(GRO)-C6-C10							5.1.5						
Diesel Range Organics (Over			1000	873.3			mg/Kg			87	70 - 130		
C10-C28)													
	LCS LCS	5											
			Limits										
Surrogato			LIIIIIIIS										
	%Recovery Qua		70 130										
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-5936	93 94		70 - 130 70 - 130				Cli	ent S	Sam	ple ID: L	ab Contro. Prep T	l Samp ype: To	
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-5936 Matrix: Solid	93 94						Cli	ent S	Sam	ple ID: L	Prep T Prep		tal/N 5936
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-5936 Matrix: Solid Analysis Batch: 59409	93 94		70 - 130 Spike	LCSD				ent {		-	Prep T Prep %Rec	ype: To Batch:	tal/N 5936 RP
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-5936 Matrix: Solid Analysis Batch: 59409 Analyte	93 94		70 - 130 Spike Added	Result	Qual		Unit	ent {	Sam	%Rec	Prep 1 Prep %Rec Limits	Batch:	5936 RP
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-5936 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics	93 94		70 - 130 Spike					ent {		-	Prep T Prep %Rec	ype: To Batch:	5936 RP
Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-5936 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Discel Range Organics (Over	93 94		70 - 130 Spike Added 1000	Result 660.9	Qual		Unit mg/Kg	ent \$		%Rec	Prep T Prep %Rec Limits 70 - 130	Type: To       Batch:       RPD       0	<b>5936</b> <b>RPI</b> Lim
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-5936 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	93 94		70 - 130 Spike Added	Result	Qual		Unit	ent {		%Rec	Prep 1 Prep %Rec Limits	Batch:	<b>5936</b> <b>RP</b> Lim
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-5936 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	93 94		70 - 130 Spike Added 1000	Result 660.9	Qual		Unit mg/Kg	ent \$ 		%Rec	Prep T Prep %Rec Limits 70 - 130	Type: To       Batch:       RPD       0	<b>5936</b> <b>RP</b> Lim
1-Chlorooctane p-Terphenyl Lab Sample ID: LCSD 880-5936 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	93 94 69/3-A		70 - 130 Spike Added 1000	Result 660.9	Qual		Unit mg/Kg	ent \$		%Rec	Prep T Prep %Rec Limits 70 - 130	Type: To       Batch:       RPD       0	<b>5936</b> <b>RP</b> Lim
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-5936 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate	93 94 69/3-A LCSD LCS %Recovery Qua		70 - 130 Spike Added 1000 1000 Limits	Result 660.9	Qual		Unit mg/Kg	ent {		%Rec	Prep T Prep %Rec Limits 70 - 130	Type: To       Batch:       RPD       0	<b>5936</b> <b>RP</b> Lim
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-5936 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane	93 94 69/3-A <i>LCSD</i> LCS %Recovery Qua 85		70 - 130 Spike Added 1000 1000 Limits 70 - 130	Result 660.9	Qual		Unit mg/Kg	ent {		%Rec	Prep T Prep %Rec Limits 70 - 130	Type: To       Batch:       RPD       0	<b>5936</b> <b>RPI</b> Lim
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-5936 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics	93 94 69/3-A LCSD LCS %Recovery Qua		70 - 130 Spike Added 1000 1000 Limits	Result 660.9	Qual		Unit mg/Kg	ent {		%Rec	Prep T Prep %Rec Limits 70 - 130	Type: To       Batch:       RPD       0	tal/N/
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-5936 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl	93 94 69/3-A <i>LCSD</i> %Recovery 85 82		70 - 130 Spike Added 1000 1000 Limits 70 - 130	Result 660.9	Qual		Unit mg/Kg	ent {		<b>%Rec</b> 66 85	Prep 1 Prep %Rec Limits 70 - 130 70 - 130	Type: To Batch: RPD 0 3	2 5936 RPI Lim 2 2
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-5936 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 880-31664-A-2-	93 94 69/3-A <i>LCSD</i> %Recovery 85 82		70 - 130 Spike Added 1000 1000 Limits 70 - 130	Result 660.9	Qual		Unit mg/Kg	ent \$		<b>%Rec</b> 66 85	Prep 1           %Rec           Limits           70 - 130           70 - 130	Type: To Batch:	Spik
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-5936 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 880-31664-A-2- Matrix: Solid	93 94 69/3-A <i>LCSD</i> %Recovery 85 82		70 - 130 Spike Added 1000 1000 Limits 70 - 130	Result 660.9	Qual		Unit mg/Kg	ent {		<b>%Rec</b> 66 85	Prep T Prep %Rec Limits 70 - 130 70 - 130 70 - 130	Type: To Batch: 0 3 : Matrix Type: To	spik
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-5936 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 880-31664-A-2-	93 94 59/3-A <i>LCSD LCS</i> %Recovery Qua 85 82 •F MS	SD alifier	70 - 130 Spike Added 1000 1000 Limits 70 - 130 70 - 130	Result 660.9 845.2	Qual *-		Unit mg/Kg	ent {		<b>%Rec</b> 66 85	Prep T Prep %Rec Limits 70 - 130 70 - 130 70 - 130 Sample ID Prep T Prep	Type: To Batch:	Spikotal/NJ
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-5936 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 880-31664-A-2- Matrix: Solid Analysis Batch: 59409	93 94 59/3-A <i>LCSD LCS</i> %Recovery Qua 85 82 •F MS Sample Sam	SD alifier	70 - 130 Spike Added 1000 1000 Limits 70 - 130 70 - 130 Spike	Result 660.9 845.2 MS	Qual *-	lifier	Unit mg/Kg mg/Kg	ent {	<u>D</u>	%Rec 66 85 Client	Prep T Prep %Rec Limits 70 - 130 70 - 130 70 - 130 Sample ID Prep T Prep %Rec	Type: To Batch: 0 3 : Matrix Type: To	Spikotal/NJ
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-5936 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 880-31664-A-2- Matrix: Solid Analysis Batch: 59409 Analyte	93 94 59/3-A <i>LCSD LCS</i> %Recovery Qua 85 82 F MS Sample San Result Qua	SD alifier	70 - 130         Spike         Added         1000         1000         1000         1000         1000         1000         5pike         Added         Spike         Added	Result 660.9 845.2 MS Result	Qual *-	lifier	Unit mg/Kg mg/Kg	ent {		%Rec 66 85 Client	Prep T Prep %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130 8 8 8 9 9 9 9 8 8 9 7 9 7 9 9 9 8 9 9 9 9	Type: To Batch: 0 3 : Matrix Type: To	Spikotal/NJ
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-5936 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 880-31664-A-2- Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics	93 94 59/3-A <i>LCSD LCS</i> %Recovery Qua 85 82 •F MS Sample Sam	SD alifier	70 - 130 Spike Added 1000 1000 Limits 70 - 130 70 - 130 Spike	Result 660.9 845.2 MS	Qual *-	lifier	Unit mg/Kg mg/Kg	ent {	<u>D</u>	%Rec 66 85 Client	Prep T Prep %Rec Limits 70 - 130 70 - 130 70 - 130 Sample ID Prep T Prep %Rec	Type: To Batch: 0 3 : Matrix Type: To	spik
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-5936 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 880-31664-A-2- Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10	93 94 59/3-A 50/5 50/5 50/5 50/5 50/5 50/5 50/5 50/	SD alifier	70 - 130         Spike         Added         1000         1000         1000         1000         1000         1000         5pike         Added         993	Result           660.9           845.2           MS           Result           876.9	Qual *-	lifier	Unit mg/Kg mg/Kg <u>Unit</u> mg/Kg	ent {	<u>D</u>	%Rec 66 85 Client 85 %Rec 86	Prep T Prep %Rec Limits 70 - 130 70 - 130 70 - 130 Sample ID Prep T Prep %Rec Limits 70 - 130	Type: To Batch: 0 3 : Matrix Type: To	spik
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-5936 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 880-31664-A-2- Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	93 94 59/3-A <i>LCSD LCS</i> %Recovery Qua 85 82 F MS Sample San Result Qua	SD alifier	70 - 130         Spike         Added         1000         1000         1000         1000         1000         1000         5pike         Added         Spike         Added	Result 660.9 845.2 MS Result	Qual *-	lifier	Unit mg/Kg mg/Kg	ent { 	<u>D</u>	%Rec 66 85 Client	Prep T Prep %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130 8 8 8 9 9 9 9 8 8 9 7 9 7 9 9 9 8 9 9 9 9	Type: To Batch: 0 3 : Matrix Type: To	Spikotal/NJ
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-5936 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 880-31664-A-2- Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics	93 94 59/3-A 50/3- 50/	SD alifier	70 - 130         Spike         Added         1000         1000         1000         1000         1000         1000         5pike         Added         993	Result           660.9           845.2           MS           Result           876.9	Qual *-	lifier	Unit mg/Kg mg/Kg <u>Unit</u> mg/Kg	ent {	<u>D</u>	%Rec 66 85 Client 85 %Rec 86	Prep T Prep %Rec Limits 70 - 130 70 - 130 70 - 130 Sample ID Prep T Prep %Rec Limits 70 - 130	Type: To Batch: 0 3 : Matrix Type: To	Spikotal/NJ
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-5936 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 880-31664-A-2- Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	93 94 59/3-A 50/3- 50/5	SD alifier	70 - 130         Spike         Added         1000         1000         1000         1000         1000         1000         5pike         Added         993         993	Result           660.9           845.2           MS           Result           876.9	Qual *-	lifier	Unit mg/Kg mg/Kg <u>Unit</u> mg/Kg	ent {	<u>D</u>	%Rec 66 85 Client 85 %Rec 86	Prep T Prep %Rec Limits 70 - 130 70 - 130 70 - 130 Sample ID Prep T Prep %Rec Limits 70 - 130	Type: To Batch: 0 3 : Matrix Type: To	Spikotal/NJ
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-5936 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 880-31664-A-2- Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate	93 94 59/3-A 59/3-A 59/3-A 59/3-A 59/3-A 59/3-A 50/3 82 50/3 82 50/3 82 50/3 50/3 50/3 50/3 50/3 50/3 50/3 50/3	SD alifier	70 - 130         Spike         Added         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         Spike         Added         993         993         Limits	Result           660.9           845.2           MS           Result           876.9	Qual *-	lifier	Unit mg/Kg mg/Kg <u>Unit</u> mg/Kg	ent {	<u>D</u>	%Rec 66 85 Client 85 %Rec 86	Prep T Prep %Rec Limits 70 - 130 70 - 130 70 - 130 Sample ID Prep T Prep %Rec Limits 70 - 130	Type: To Batch: 0 3 : Matrix Type: To	Spikotal/NJ
1-Chlorooctane p-Terphenyl Lab Sample ID: LCSD 880-5936 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane p-Terphenyl Lab Sample ID: 880-31664-A-2- Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	93 94 59/3-A 50/3- 50/5	SD alifier	70 - 130         Spike         Added         1000         1000         1000         1000         1000         1000         5pike         Added         993         993	Result           660.9           845.2           MS           Result           876.9	Qual *-	lifier	Unit mg/Kg mg/Kg <u>Unit</u> mg/Kg	ent {	<u>D</u>	%Rec 66 85 Client 85 %Rec 86	Prep T Prep %Rec Limits 70 - 130 70 - 130 70 - 130 Sample ID Prep T Prep %Rec Limits 70 - 130	Type: To Batch: 0 3 : Matrix Type: To	Spikotal/NJ

Eurofins Midland

# **QC Sample Results**

Client: Carmona Resources Project/Site: Tonto 15 State #1

Job ID: 880-31274-1 SDG: Lea County, New Mexico

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

Matrix: Solid         Analysis Batch: 59409         Sample       Sample       Spike         Analyte       Result       Qualifier       Added         Gasoline Range Organics       <50.3       U*-       992         (GRO)-C6-C10       0       0*-       992         Diesel Range Organics (Over       61.5       992         C10-C28)       MSD       MSD         Surrogate       %Recovery       Qualifier       Limits         1-Chlorooctane       128       70 - 130         o-Terphenyl       112       70 - 130	<b>MSD</b> <b>Result</b> 918.4 1254	MSD Qualifier	<mark>Unit</mark> mg/Kg mg/Kg	<u>D</u>	%Rec 91 120		ype: To Batch: <u>RPD</u> 5		
SampleSampleSpikeAnalyteResultQualifierAddedGasoline Range Organics<50.3U *-992(GRO)-C6-C100<61.5992Diesel Range Organics (Over C10-C28)61.5992MSDMSDSurrogate%Recovery 128QualifierLimits 70 - 130	<b>Result</b> 918.4		mg/Kg	<u>D</u>	91	%Rec Limits 70 - 130	<b>RPD</b> 5	RPD Limit 20	2
AnalyteResultQualifierAddedGasoline Range Organics<50.3U *-992(GRO)-C6-C10U *-992Diesel Range Organics (Over61.5992C10-C28)MSDMSDSurrogate%RecoveryQualifierLimits1-Chlorooctane12870 - 130	<b>Result</b> 918.4		mg/Kg	<u> </u>	91	Limits 70 - 130	5	Limit 20	
Gasoline Range Organics       <50.3       U *-       992         (GRO)-C6-C10       Diesel Range Organics (Over       61.5       992         C10-C28)       MSD       MSD         Surrogate       %Recovery       Qualifier       Limits         1-Chlorooctane       128       70 - 130	918.4	Qualifier	mg/Kg	<u>D</u>	91	70 - 130	5	20	
(GRO)-C6-C10 Diesel Range Organics (Over 61.5 992 C10-C28) MSD MSD Surrogate <u>%Recovery</u> Qualifier Limits 1-Chlorooctane 128 70 - 130									
Diesel Range Organics (Over 61.5 992 C10-C28)  MSD MSD  Surrogate %Recovery Qualifier Limits 128 70 - 130	1254		mg/Kg		120	70 - 130	6	20	ļ
MSD       MSD         Surrogate       %Recovery       Qualifier       Limits         -Chlorooctane       128       70 - 130	1254		mg/Kg		120	70 - 130	6	20	
MSDMSDSurrogate%RecoveryQualifierLimits-Chlorooctane12870 - 130									
Surrogate%RecoveryQualifierLimits1-Chlorooctane12870 - 130									
-Chlorooctane 128 70 - 130									
Tembenyl 112 70 130									
-Telphenyi 112 10-130									
									i

# QC Association Summary

Client: Carmona Resources Project/Site: Tonto 15 State #1

Job ID: 880-31274-1 SDG: Lea County, New Mexico

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# 8

**GC VOA** Prep Batch: 58969

#### **Client Sample ID** Lab Sample ID Prep Type Matrix Method Prep Batch 880-31274-1 S-6 (2') Total/NA Solid 5035 MB 880-58969/5-A Method Blank Total/NA Solid 5035 Total/NA LCS 880-58969/1-A Solid 5035 Lab Control Sample LCSD 880-58969/2-A Lab Control Sample Dup Total/NA Solid 5035 Matrix Spike Total/NA Solid 5035 880-31278-A-1-B MS 880-31278-A-1-C MSD Matrix Spike Duplicate Total/NA Solid 5035 Prep Batch: 59110 Lab Sample ID **Client Sample ID** Prep Type Matrix Method Prep Batch MB 880-59110/5-A Method Blank Total/NA Solid 5035 Analysis Batch: 59172 Lab Sample ID **Client Sample ID** Method Matrix Prep Batch Prep Type 880-31274-1 S-6 (2') Total/NA Solid 8021B 58969 MB 880-58969/5-A Method Blank Total/NA Solid 8021B 58969 Solid 8021B MB 880-59110/5-A Method Blank Total/NA 59110 LCS 880-58969/1-A Lab Control Sample Total/NA Solid 8021B 58969 LCSD 880-58969/2-A Lab Control Sample Dup Total/NA Solid 8021B 58969 880-31278-A-1-B MS Matrix Spike Total/NA Solid 8021B 58969 880-31278-A-1-C MSD Matrix Spike Duplicate Total/NA Solid 8021B 58969 Analysis Batch: 59322 Prep Type Lab Sample ID **Client Sample ID** Matrix Method Prep Batch 880-31274-1 S-6 (2') Total/NA Solid Total BTEX GC Semi VOA Prep Batch: 59369 **Client Sample ID** Lab Sample ID Prep Type Matrix Method Prep Batch S-6 (2') 880-31274-1 Total/NA Solid 8015NM Prep Total/NA MB 880-59369/1-A Method Blank Solid 8015NM Prep Total/NA LCS 880-59369/2-A Lab Control Sample Solid 8015NM Prep LCSD 880-59369/3-A Lab Control Sample Dup Total/NA Solid 8015NM Prep Total/NA Solid 880-31664-A-2-F MS Matrix Spike 8015NM Prep 880-31664-A-2-G MSD Total/NA Solid Matrix Spike Duplicate 8015NM Prep Analysis Batch: 59409 Lab Sample ID **Client Sample ID** Prep Type Matrix Method Prep Batch 880-31274-1 S-6 (2') Total/NA Solid 8015B NM 59369 MB 880-59369/1-A Method Blank Total/NA Solid 8015B NM 59369 LCS 880-59369/2-A Lab Control Sample Total/NA Solid 8015B NM 59369 Lab Control Sample Dup LCSD 880-59369/3-A Total/NA Solid 8015B NM 59369

# Analysis Batch: 59476

880-31664-A-2-F MS

880-31664-A-2-G MSD

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
880-31274-1	S-6 (2')	Total/NA	Solid	8015 NM	

Total/NA

Total/NA

Solid

Solid

8015B NM

8015B NM

Released to Imaging: 11/6/2023 11:57:53 AM

Matrix Spike

Matrix Spike Duplicate

59369

Job ID: 880-31274-1 SDG: Lea County, New Mexico

# Lab Sample ID: 880-31274-1 Matrix: Solid

Date Collected: 07/25/23 00:00 Date Received: 07/26/23 16:45

Client: Carmona Resources

Project/Site: Tonto 15 State #1

Client Sample ID: S-6 (2')

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	58969	08/01/23 09:01	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	59172	08/04/23 05:28	SM	EET MID
Total/NA	Analysis	Total BTEX		1			59322	08/04/23 10:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			59476	08/07/23 10:15	SM	EET MID
Total/NA	Prep	8015NM Prep			9.95 g	10 mL	59369	08/04/23 17:30	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59409	08/06/23 13:43	SM	EET MID

# Laboratory References:

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

Eurofins Midland

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Client: Carmona Resources Project/Site: Tonto 15 State #1 Job ID: 880-31274-1 SDG: Lea County, New Mexico

# Laboratory: Eurofins Midland

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

uthority	F	Program	Identification Number	Expiration Date
exas	1	NELAP	T104704400-23-26	06-30-24
The following analytes	are included in this report, I	out the laboratory is not certifi	ied by the governing authority. This list ma	ay include analytes for w
the agency does not of		Matrix	Analyte	
the agency does not of Analysis Method 8015 NM	fer certification . Prep Method	Matrix Solid	Analyte Total TPH	

Eurofins Midland

Released to Imaging: 11/6/2023 11:57:53 AM

# **Method Summary**

# Client: Carmona Resources Project/Site: Tonto 15 State #1

Job ID: 880-31274-1 SDG: Lea County, New Mexico

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
Protocol Refe	rences:		
	"Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third E = TestAmerica Laboratories, Standard Operating Procedure	Edition, November 1986 And Its Updates.	
TAL SOP	- TestAmenca Laboratories, Standard Operating Procedure		
Laboratory R	eferences:		
Laboratory R		0	
Laboratory R	eferences:	0	
Laboratory R	eferences:	0	
Laboratory R	eferences:	0	
Laboratory R	eferences:	0	
Laboratory R	eferences:	0	
Laboratory R	eferences:	0	

#### Protocol References:

# Laboratory References:

# Sample Summary

Client: Carmona Resources Project/Site: Tonto 15 State #1 Job ID: 880-31274-1 SDG: Lea County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-31274-1	S-6 (2')	Solid	07/25/23 00:00	07/26/23 16:45

MMM	Comments Email						S-6 (2')	Sample Identification	Total Containers	Sample Custody Seals	Cooler Custody Seals.	Received Intact:	SAMPLE RECEIPT	PO#	Sampler's Name	Project Location	Project Number	Project Name		Phone	City, State ZIP	Address	Company Name	Project Manager
	Email results to Mike Carmona mcarmona@carmonaresources com, Conner Moehring@carmonaresources com, Clint MerrittC@carmonaresources com						2') 7 25 23	tification Date		S. Yes No NA		Ve Ve	PT Femp Blank		CCM	Lea County New Mexico	2089	1 VIIIO 10 VIALE #1	Tonto 1E Ctot		Midland TX 79701	310 W Wall St Ste 500	Carmona Resources	Clinton Merntt
	mcarmona@carm							Time	Corrected Temperature	Temperature Reading	Correction Factor	Thermometer ID	Yes No					4 +	*					
	onaresources						×	Soil	ture	ng			Wet Ice			Due Date	Routine	Turn /		Email				
	s com, Conne						G	Water Comp	2:P	19	0	JUZ BUT	Kes No			5 day	Rush	Turn Around		msanjari@marathonoil.com	City, State ZIP	Address.	Company Name	Bill to (if different)
7-	ar Moehring	 						p # of Cont		I	Pa	aran	nete	rs	I		Pres. Code			rathonoil co				
Date/Time	) cmoehrir						× ×	TP	H 801			802 0 +		+ M	IRO)					m	Houston TX 77024	990 Town and Country Blvd	Marathon Oil Corporation	Melodie Sanjari
	ig@carmo			 						Ch	loric	le 30	0 0								77024	d Country E	Corporation	an
	naresourc	880-31			`													AN				Ivd	1	
<u>م</u>	ies com, C	274 Chain				 												ANALYSIS REQUEST						
Received by (S	Clint Merritt W	80-31274 Chain of Custody			i													EQUEST		Deliverables EDD	Reporting I	State of Project.	Program.	
Signature)	lernttC@c														dannar dir ar					S EDD	Reporting Level II Level III	roject.	Program. UST/PST PRP	~
	armonares	 <del>  </del>	<u> </u>																	] ADa				Vork Orde
	iources con							Sam	NaOH+Asc	Zn Acetate	Na-S-O- NaSO	NaHSO4 NABIS	H PO, HP	H-S0, H-	HOL HC		None NO	Pres		ADaPT C C	ST/UST	[	Frownfields RRC	Work Order Comments
Date/Time	E							Sample Comments	NaOH+Ascorbic Acid SAPC	Zn Acetate+NaOH Zn	VaSO,	VABIS		10eN			DIW	Preservative Codes		Other			ິ	s
lime								ents	SAPC					NaOH Na	HNO, HN		DI Water: H <sub>-</sub> O	odes				- -		

# Received by OCD: 9/21/2023 6:16:51 AM

Work Order No:

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Job Number: 880-31274-1

List Source: Eurofins Midland

SDG Number: Lea County, New Mexico

# Login Sample Receipt Checklist

Client: Carmona Resources

Login Number: 31274 List Number: 1

<6mm (1/4").

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	N/A	

Received by OCD: 9/21/2023 6:16:51 AM



**Environment Testing** 

# **ANALYTICAL REPORT**

# PREPARED FOR

Attn: Clint Merritt Carmona Resources 310 W Wall St Ste 500 Midland, Texas 79701 Generated 8/7/2023 12:40:16 PM

# JOB DESCRIPTION

Tonto 15 State #1 SDG NUMBER Lea County, New Mexico

# **JOB NUMBER**

880-31279-1

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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

AMER

Generated 8/7/2023 12:40:16 PM

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

Eurofins Midland is a laboratory within Eurofins Environment Testing South Central, LLC, a company within Eurofins Environment Testing Group of Companies

Laboratory Job ID: 880-31279-1 SDG: Lea County, New Mexico

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Eurofins Midland 8/7/2023

# **Definitions/Glossary**

# Client: Carmona Resources Project/Site: Tonto 15 State #1

Job ID: 880-31279-1 SDG: Lea County, New Mexico

Qualifiers		3
GC VOA		
Qualifier	Qualifier Description	
U	Indicates the analyte was analyzed for but not detected.	
GC Semi VOA		5
Qualifier	Qualifier Description	
*_	LCS and/or LCSD is outside acceptance limits, low 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.	8
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis	0
%R	Percent Recovery	0
CFL	Contains Free Liquid	3
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)	13
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	

4

5

# Job ID: 880-31279-1 SDG: Lea County, New Mexico

# Job ID: 880-31279-1

Client: Carmona Resources

Project/Site: Tonto 15 State #1

# Laboratory: Eurofins Midland

#### Narrative

Job Narrative 880-31279-1

#### Receipt

The sample was received on 7/26/2023 4:45 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.5°C

# **Receipt Exceptions**

The following sample was received and analyzed from an unpreserved bulk soil jar: S-6 (3') (880-31279-1).

#### GC VOA

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

### GC Semi VOA

Method 8015MOD\_NM: The laboratory control sample (LCS) associated with preparation batch 880-59369 and analytical batch 880-59409 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.

Job ID: 880-31279-1 SDG: Lea County, New Mexico

Lab Sample ID: 880-31279-1

# Client Sample ID: S-6 (3') Date Collected: 07/25/23 00:00

Client: Carmona Resources

Project/Site: Tonto 15 State #1

Date Received: 07/26/23 16:45

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		08/01/23 09:18	08/02/23 22:30	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/01/23 09:18	08/02/23 22:30	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/01/23 09:18	08/02/23 22:30	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		08/01/23 09:18	08/02/23 22:30	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		08/01/23 09:18	08/02/23 22:30	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		08/01/23 09:18	08/02/23 22:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130				08/01/23 09:18	08/02/23 22:30	1
1,4-Difluorobenzene (Surr)	97		70 - 130				08/01/23 09:18	08/02/23 22:30	1
Method: TAL SOP Total BTEX - T	Total BTEX Cald	culation							
A	Posult	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte	Result	Quanner			onne				
Analyte Total BTEX	<0.00403		0.00403		mg/Kg			08/03/23 09:53	1
Total BTEX Method: SW846 8015 NM - Diese	<pre>&lt;0.00403</pre>	U ics (DRO) (	0.00403		mg/Kg				
Total BTEX Method: SW846 8015 NM - Diese Analyte	<0.00403 I Range Organ Result	U <mark>ics (DRO) (</mark> Qualifier	0.00403		mg/Kg Unit	D	Prepared	Analyzed	1 Dil Fac
Total BTEX Method: SW846 8015 NM - Diese Analyte	<pre>&lt;0.00403</pre>	U <mark>ics (DRO) (</mark> Qualifier	0.00403		mg/Kg	D			
Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH	<0.00403 el Range Organ Result <50.5	U ics (DRO) ( Qualifier U	0.00403 GC) RL 50.5		mg/Kg Unit	D		Analyzed	
Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Dies	<0.00403 el Range Organ Result <50.5 sel Range Orga	U ics (DRO) ( Qualifier U	0.00403 GC) RL 50.5	MDL	mg/Kg Unit	D		Analyzed	
Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics	<0.00403 el Range Organ Result <50.5 sel Range Orga	U ics (DRO) ( Qualifier U nnics (DRO) Qualifier	GC) <u>RL</u> <u>50.5</u> (GC)	MDL	mg/Kg Unit mg/Kg		Prepared	Analyzed 08/07/23 10:15	Dil Fac
Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10	cl.00403 el Range Organ Result <50.5 sel Range Orga Result	U ics (DRO) (r Qualifier U mics (DRO) Qualifier U *-	0.00403 GC) RL 50.5 (GC) RL	MDL	mg/Kg Unit mg/Kg Unit mg/Kg		Prepared	Analyzed 08/07/23 10:15 Analyzed	Dil Fac
Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	el Range Organ Result <50.5 Sel Range Orga Result <50.5	U ics (DRO) (r Qualifier U mics (DRO) Qualifier U *-	0.00403 GC) RL 50.5 (GC) RL 50.5	MDL	mg/Kg Unit mg/Kg Unit		Prepared Prepared 08/04/23 17:30	Analyzed 08/07/23 10:15 Analyzed 08/06/23 16:18	Dil Fac 1 Dil Fac
Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	el Range Organ Result <50.5 Sel Range Orga Result <50.5	U ics (DRO) (r Qualifier U mics (DRO) Qualifier U *- U	0.00403 GC) RL 50.5 (GC) RL 50.5	MDL	mg/Kg Unit mg/Kg Unit mg/Kg		Prepared Prepared 08/04/23 17:30	Analyzed 08/07/23 10:15 Analyzed 08/06/23 16:18	Dil Fac 1 Dil Fac
Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<0.00403 el Range Organ Result <50.5 sel Range Orga Result <50.5 <50.5	U ics (DRO) (r Qualifier U mics (DRO) Qualifier U *- U U	0.00403 GC) RL 50.5 (GC) RL 50.5 50.5	MDL	mg/Kg Unit mg/Kg Unit mg/Kg mg/Kg		Prepared Prepared 08/04/23 17:30 08/04/23 17:30	Analyzed 08/07/23 10:15 Analyzed 08/06/23 16:18 08/06/23 16:18	Dil Fac 1 Dil Fac 1
Total BTEX	<ul> <li>&lt;0.00403</li> <li>el Range Organ</li> <li>Result</li> <li>&lt;50.5</li> <li>sel Range Orga</li> <li>Result</li> <li>&lt;50.5</li> <li>&lt;50.5</li> <li>&lt;50.5</li> </ul>	U ics (DRO) (r Qualifier U mics (DRO) Qualifier U *- U U	0.00403 GC) RL 50.5 (GC) RL 50.5 50.5 50.5	MDL	mg/Kg Unit mg/Kg Unit mg/Kg mg/Kg		Prepared Prepared 08/04/23 17:30 08/04/23 17:30 08/04/23 17:30	Analyzed 08/07/23 10:15 Analyzed 08/06/23 16:18 08/06/23 16:18	Dil Fac

Eurofins Midland

): 880-31279-1

Matrix: Solid

Job ID: 880-31279-1

# Method: 8021B - Volatile Organic Compounds (GC) Matrix: Solid

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-31279-1	S-6 (3')	96	97	
880-31279-1 MS	S-6 (3')	103	100	
880-31279-1 MSD	S-6 (3')	108	104	
LCS 880-58971/1-A	Lab Control Sample	104	100	
LCSD 880-58971/2-A	Lab Control Sample Dup	95	103	
MB 880-58971/5-A	Method Blank	84	89	
MB 880-58998/5-A	Method Blank	85	89	

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

# Matrix: Solid

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
-ab Sample ID 380-31279-1	Client Sample ID	(70-130) 	(70-130) 95	
380-31664-A-2-F MS	Matrix Spike	123	104	
880-31664-A-2-G MSD	Matrix Spike Duplicate	128	112	
LCS 880-59369/2-A	Lab Control Sample	93	94	
LCSD 880-59369/3-A	Lab Control Sample Dup	85	82	
MB 880-59369/1-A	Method Blank	88	94	

#### Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

SDG: Lea County, New Mexico

Prep Type: Total/NA

Prep Type: Total/NA

# **QC Sample Results**

Client: Carmona Resources Project/Site: Tonto 15 State #1

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

# Lab Sample ID: MB 880-58971/5-A

Matrix: Solid Analysis Batch: 59072

-	МВ	МВ							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	< 0.00200	U	0.00200		mg/Kg		08/01/23 09:18	08/02/23 22:08	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/01/23 09:18	08/02/23 22:08	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/01/23 09:18	08/02/23 22:08	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/01/23 09:18	08/02/23 22:08	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/01/23 09:18	08/02/23 22:08	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/01/23 09:18	08/02/23 22:08	1
	МВ	МВ							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 130				08/01/23 09:18	08/02/23 22:08	1
1,4-Difluorobenzene (Surr)	89		70 - 130				08/01/23 09:18	08/02/23 22:08	1

# Lab Sample ID: LCS 880-58971/1-A Matrix: Solid

# Analysis Batch: 59072

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.07714		mg/Kg		77	70 - 130	
Toluene	0.100	0.1014		mg/Kg		101	70 - 130	
Ethylbenzene	0.100	0.08911		mg/Kg		89	70 - 130	
m-Xylene & p-Xylene	0.200	0.1753		mg/Kg		88	70 - 130	
o-Xylene	0.100	0.08985		mg/Kg		90	70 - 130	

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

# Lab Sample ID: LCSD 880-58971/2-A

# Matrix: Solid

Analysis Batch: 59072							Prep	Batch:	58971
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.08576		mg/Kg		86	70 - 130	11	35
Toluene	0.100	0.1000		mg/Kg		100	70 - 130	1	35
Ethylbenzene	0.100	0.08572		mg/Kg		86	70 - 130	4	35
m-Xylene & p-Xylene	0.200	0.1641		mg/Kg		82	70 - 130	7	35
o-Xylene	0.100	0.08388		mg/Kg		84	70 - 130	7	35

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

# Lab Sample ID: 880-31279-1 MS

#### Matrix: Solid nalvaia Ratahi 50072

Analysis Batch: 59072									Prep	Batch: 58971
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00202	U	0.0996	0.07513		mg/Kg		75	70 - 130	
Toluene	<0.00202	U	0.0996	0.08995		mg/Kg		90	70 - 130	

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# **Client Sample ID: Method Blank** Prep Type: Total/NA Prep Batch: 58971

SDG: Lea County, New Mexico

Job ID: 880-31279-1

# **Client Sample ID: Lab Control Sample**

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 58971

Client Sample ID: S-6 (3')

Prep Type: Total/NA

Released to Imaging: 11/6/2023 11:57:53 AM

Client: Carmona Resources

Project/Site: Tonto 15 State #1

# Job ID: 880-31279-1 SDG: Lea County, New Mexico

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

Lab Sample ID: 880-31279-1 M	NS										С	lient Samp		
Matrix: Solid												Prep Ty	-	
Analysis Batch: 59072													Batch:	5897
	Sample			Spike	MS							%Rec		
Analyte	Result		lifier	Added	Result		lifier	Unit		<u> </u>	%Rec	Limits		
Ethylbenzene	<0.00202	U		0.0996	0.08100			mg/Kg			81	70 - 130		
m-Xylene & p-Xylene	<0.00403	U		0.199	0.1561			mg/Kg			78	70 - 130		
o-Xylene	<0.00202	U		0.0996	0.07987			mg/Kg			80	70 - 130		
Surrogate	MS %Recovery	MS Qual	lifior	Limits										
4-Bromofluorobenzene (Surr)	103	Qua		70 - 130										
1,4-Difluorobenzene (Surr)	100			70 - 130 70 - 130										
Lab Sample ID: 880-31279-1 M	ASD										с	lient Samp	le ID: S	5-6 (3'
Matrix: Solid											•	Prep Ty		
Analysis Batch: 59072													Batch:	
Analysis Baten. 00012	Sample	Sam	ple	Spike	MSD	MSD	)					%Rec	Jaton.	RPE
Analyte	Result			Added	Result			Unit		D	%Rec	Limits	RPD	Limi
Benzene	<0.00202			0.0994	0.07017			mg/Kg			71	70 - 130	7	3
Toluene	< 0.00202			0.0994	0.08738			mg/Kg			88	70 - 130	3	35
Ethylbenzene	< 0.00202			0.0994	0.07772			mg/Kg			78	70 - 130	4	35
m-Xylene & p-Xylene	< 0.00403			0.199	0.1481			mg/Kg			75	70 - 130	5	35
o-Xylene	<0.00202			0.0994	0.07711			mg/Kg			78	70 - 130	4	3
Surrogate 4-Bromofluorobenzene (Surr)	108	Qual	lifier	Limits 70 - 130										
1,4-Difluorobenzene (Surr)	104			70 - 130										
Lab Sample ID: MB 880-58998	3/ <b>5-A</b>									С	lient Sa	ample ID: N	lethod	Blan
Matrix: Solid												Prep Ty	vpe: To	otal/N/
Analysis Batch: 59072												Prep l	Batch:	58998
		MB	MB											
Analyte	Re	sult	Qualifier	R	L	MDL	Unit		D	Pre	pared	Analyze	d	Dil Fa
Benzene	<0.00		U	0.0020			mg/K	-			23 10:59	08/02/23 1		
Toluene	<0.00	0200	U	0.0020	0		mg/K	g		08/01/2	23 10:59	08/02/23 1	1:28	
Ethylbenzene	<0.00	)200	U	0.0020	0		mg/K	g		08/01/2	23 10:59	08/02/23 1	1:28	
m-Xylene & p-Xylene	<0.00	0400	U	0.0040	0		mg/K	g		08/01/2	23 10:59	08/02/23 1	1:28	
o-Xylene	<0.00	)200	U	0.0020	0		mg/K	g		08/01/2	23 10:59	08/02/23 1	1:28	
Xylenes, Total	<0.00	)400	U	0.0040	0		mg/K	g		08/01/2	23 10:59	08/02/23 1	1:28	
			MB Qualifier	Limits						Pro	pared	Analyze	d	Dil Fa
	%Reco				_									Dirru
Surrogate 4-Bromofluorobenzene (Surr)	%Reco	-	quanner	70 - 1.30							23 10:59	08/02/23 1	1:28	
Surrogate	%Reco	85 89	quanner	70 - 130 70 - 130							23 10:59 23 10:59	08/02/23 1 08/02/23 1		

Lab Sample ID: MB 880-59369/1-A Matrix: Solid							Client Sa	mple ID: Metho Prep Type: 1	
Analysis Batch: 59409								Prep Batch	h: <b>59369</b>
	МВ	МВ						-	
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		08/04/23 17:29	08/06/23 08:16	1

Eurofins Midland

(GRO)-C6-C10

# Job ID: 880-31279-1 SDG: Lea County, New Mexico

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

_ab Sample ID: MB 880-59369/1-A										CI	ient Sa	ample ID:	Method	l Blank
Matrix: Solid												Prep 1	Гуре: То	otal/NA
Analysis Batch: 59409												Prep	Batch:	59369
-		МВ МВ	3											
nalyte	Re	sult Qu	alifier	RL		MDL	Unit		D	Prep	ared	Analyz	zed	Dil Fac
Diesel Range Organics (Over	<5	50.0 U		50.0			mg/Kg		0	8/04/2	3 17:29	08/06/23	08:16	1
C10-C28) NI Range Organics (Over C28-C36)	<5	50.0 U		50.0			mg/Kg		0	8/04/2	3 17:29	08/06/23	08:16	1
		MB ME	3											
Surrogate	%Recov		alifier	Limits						Prep	ared	Analyz	zed	Dil Fac
-Chlorooctane		88		70 - 130					0	8/04/2	3 17:29	08/06/23	08:16	1
-Terphenyl		94		70 - 130					0	8/04/2	3 17:29	08/06/23	08:16	1
_ab Sample ID: LCS 880-59369/2-A									Clie	ent Sa	ample	ID: Lab C	ontrol S	Sample
Matrix: Solid													Гуре: То	
Analysis Batch: 59409													Batch:	
-				Spike	LCS	LCS						%Rec		
Analyte				Added	Result	Quali	ifier	Unit		D %	%Rec	Limits		
Basoline Range Organics GRO)-C6-C10				1000	661.8	*_		mg/Kg		_	66	70 - 130		
viesel Range Organics (Over				1000	873.3			mg/Kg			87	70 - 130		
C10-C28)	1.00	1.00												
Surrogate %	LCS Recovery	LCS Qualifier	r	Limits										
-Chlorooctane	93	Quaimer		70 - 130										
-Terphenyl	94			70 - 130 70 - 130										
-Terphenyl	94								ant C	omol		ah Cantra	l Comm	lo Dun
-Terphenyl .ab Sample ID: LCSD 880-59369/3-	94							Clie	ent S	ampl	e ID: L	ab Contro	-	
- <i>Terphenyl</i> Lab Sample ID: LCSD 880-59369/3- Matrix: Solid	94							Clie	ent S	ampl	e ID: L	Prep 1	Type: To	otal/NA
-Terphenyl .ab Sample ID: LCSD 880-59369/3-	94			70 - 130	LCSD	LCSI	1	Clie	ent S	ampl	e ID: L	Prep T Prep	-	otal/NA 59369
- <i>Terphenyl</i> .ab Sample ID: LCSD 880-59369/3- Matrix: Solid Analysis Batch: 59409	94			70 <sub>-</sub> 130 Spike	LCSD					-		Prep Prep %Rec	Type: To Batch:	otal/NA 59369 RPD
- <i>Terphenyl</i> .ab Sample ID: LCSD 880-59369/3- Matrix: Solid Analysis Batch: 59409 Malyte	94			70 - 130 Spike Added	Result	Qual		Unit		-	6Rec	Prep Prep %Rec Limits	Type: To	59369 RPD Limit
- <i>Terphenyl</i> .ab Sample ID: LCSD 880-59369/3- Matrix: Solid Analysis Batch: 59409	94			70 <sub>-</sub> 130 Spike		Qual				-		Prep Prep %Rec	RPD	otal/NA 59369 RPD
- <i>Terphenyl</i> Lab Sample ID: LCSD 880-59369/3- Matrix: Solid Analysis Batch: 59409 Malyte Gasoline Range Organics	94			70 - 130 Spike Added	Result	Qual		Unit		-	6Rec	Prep Prep %Rec Limits	RPD	59369 RPD Limit
- <i>Terphenyl</i> Lab Sample ID: LCSD 880-59369/3- Matrix: Solid Analysis Batch: 59409 Malyte Basoline Range Organics GRO)-C6-C10	94			70 - 130 Spike Added 1000	<b>Result</b> 660.9	Qual		Unit mg/Kg		-	66	Prep Prep %Rec Limits 70 - 130	Type: To Batch: RPD 0	<b>59369</b> <b>RPD</b> Limit 20
- <i>Terphenyl</i> -ab Sample ID: LCSD 880-59369/3- Matrix: Solid Analysis Batch: 59409	94	LCSD		70 - 130 Spike Added 1000	<b>Result</b> 660.9	Qual		Unit mg/Kg		-	66	Prep Prep %Rec Limits 70 - 130	Type: To Batch: RPD 0	<b>59369</b> <b>RPD</b> Limit 20
Analysis Batch: 59409 Analysis Batch: 59409 Analyte Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	94 A			70 - 130 Spike Added 1000	<b>Result</b> 660.9	Qual		Unit mg/Kg		-	66	Prep Prep %Rec Limits 70 - 130	Type: To Batch: RPD 0	<b>59369</b> <b>RPD</b> Limit 20
Analysis Batch: 59409 Analysis Batch: 59409 Analyte Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	94 A			70 - 130 Spike Added 1000 1000	<b>Result</b> 660.9	Qual		Unit mg/Kg		-	66	Prep Prep %Rec Limits 70 - 130	Type: To Batch: RPD 0	<b>59369</b> <b>RPD</b> Limit 20
Analysis Batch: 59409 Analysis Batch: 59409 Analyte Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	94 A LCSD Recovery		r	70 - 130 Spike Added 1000 1000 Limits	<b>Result</b> 660.9	Qual		Unit mg/Kg		-	66	Prep Prep %Rec Limits 70 - 130	Type: To Batch: RPD 0	<b>59369</b> <b>RPD</b> Limit 20
Analysis Batch: 59409 Analysis Batch: 59409 Analysis Batch: 59409 Analyte Basoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over 210-C28) Surrogate %/ -Chlorooctane -Terphenyl	94 A LCSD Recovery 85 82		r	70 - 130 Spike Added 1000 1000 Limits 70 - 130	<b>Result</b> 660.9	Qual		Unit mg/Kg		<u>D</u> <u>%</u>	66 –	Prep 7 Prep % Rec Limits 70 - 130 70 - 130	Type: To Batch: RPD 0 3	<b>59369</b> <b>RPD</b> Limit 20
Analysis Batch: 59409 Analysis Batch: 59409 Analysis Batch: 59409 Analyte Basoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over 210-C28) Analyte Chlorooctane -Terphenyl Lab Sample ID: 880-31664-A-2-F Mathematical States (Construction)	94 A LCSD Recovery 85 82		r	70 - 130 Spike Added 1000 1000 Limits 70 - 130	<b>Result</b> 660.9	Qual		Unit mg/Kg		<u>D</u> <u>%</u>	66 –	Prep 7 Prep %Rec Limits 70 - 130 70 - 130 Sample ID	Type: To Batch: RPD 0 3 : Matrix	stal/NA 59369 RPD Limit 20 20
Analysis Batch: 59409 Analysis Batch: 59409 Analysis Batch: 59409 Analyte Basoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Analyte Chlorooctane - Terphenyl Lab Sample ID: 880-31664-A-2-F Ma Matrix: Solid	94 A LCSD Recovery 85 82		r	70 - 130 Spike Added 1000 1000 Limits 70 - 130	<b>Result</b> 660.9	Qual		Unit mg/Kg		<u>D</u> <u>%</u>	66 –	Prep 7 Prep %Rec Limits 70 - 130 70 - 130 Sample ID Prep 7	Type: To Batch:	tal/NA 59369 RPD Limit 20 20
Analysis Batch: 59409 Analysis Batch: 59409 Analysis Batch: 59409 Analyte Basoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over 210-C28) Analyte Chlorooctane -Terphenyl Lab Sample ID: 880-31664-A-2-F Mathematical States (Construction)	94 A LCSD Recovery 85 82 S	Qualifier	r	70 - 130  Spike Added 1000 1000  Limits 70 - 130 70 - 130	Result 660.9 845.2	Qual		Unit mg/Kg		<u>D</u> <u>%</u>	66 –	Prep 7 Prep %Rec Limits 70 - 130 70 - 130 Sample ID Prep 7	Type: To Batch: RPD 0 3 : Matrix	tal/NA 59369 RPD Limit 20 20
Analysis Batch: 59409 Analysis Batch: 59409 Analysis Batch: 59409 Analyte Basoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Analyte Chlorooctane - Terphenyl Lab Sample ID: 880-31664-A-2-F Ma Matrix: Solid	94 A LCSD Recovery 85 82	Qualifier Sample	 r	70 - 130 Spike Added 1000 1000 Limits 70 - 130	Result 660.9 845.2	Quali *_	ifier	Unit mg/Kg		<u>D</u> <u>9</u>	66 –	Prep 7 Prep %Rec Limits 70 - 130 70 - 130 70 - 130 Sample ID Prep 7 Prep	Type: To Batch:	tal/NA 59369 RPD Limit 20 20
Analysis Batch: 59409 Analysis Batch: 59409 Analysis Batch: 59409 Analysis Batch: 59409 Analyte Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate - Chlorooctane - Terphenyl Lab Sample ID: 880-31664-A-2-F Mi Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics	94 A LCSD Recovery 85 82 S Sample	Qualifier Sample Qualifier	 r	70 - 130  Spike Added 1000  Limits 70 - 130 70 - 130 70 - 130 Spike	Result 660.9 845.2 MS	Quali *_	ifier	Unit mg/Kg mg/Kg		<u>D</u> <u>9</u>	6 66 85	Prep 7 Prep % Rec Limits 70 - 130 70 - 130 70 - 130 Sample ID Prep 7 Prep 7 %Rec	Type: To Batch:	tal/NA 59369 RPD Limit 20 20
Analysis Batch: 59409 Analysis Batch: 59409 Analysis Batch: 59409 Analysis Batch: 59409 Analyte Basoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate - Chlorooctane - Terphenyl Lab Sample ID: 880-31664-A-2-F Mis Matrix: Solid Analysis Batch: 59409 Analyte Basoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over	94 A LCSD Recovery 85 82 S S Sample Result	Qualifier Sample Qualifier	 r	Spike           Added           1000           1000           1000           1000           1000           Spike           Added           Spike           Added	Result           660.9           845.2           MS           Result	Quali *_	ifier	Unit mg/Kg mg/Kg		<u>D</u> <u>9</u>	66 85 Client \$	Prep %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130 Prep %Rec Limits	Type: To Batch:	tal/NA 59369 RPD Limit 20 20
Analysis Batch: 59409 Analysis Batch: 59409 Analysis Batch: 59409 Analyte Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate - Chlorooctane - Terphenyl Lab Sample ID: 880-31664-A-2-F Mis Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics GRO)-C6-C10	94 A LCSD Recovery 85 82 S S Sample Result <50.3 61.5	Qualifier Sample Qualifier U *-	 r	Spike           Added           1000           1000           1000           1000           Spike           70 - 130           70 - 130           Spike           Added           993	Result           660.9           845.2           State           MS           Result           876.9	Quali *_	ifier	Unit mg/Kg mg/Kg Unit mg/Kg		<u>D</u> <u>9</u>	66	Prep 7 Prep 7 %Rec Limits 70 - 130 70 - 130 70 - 130 Sample ID Prep 7 %Rec Limits 70 - 130	Type: To Batch:	stal/NA 59369 RPD Limit 20 20 20
Analysis Batch: 59409 Analysis Batch: 59409 Analysis Batch: 59409 Analysis Batch: 59409 Analyte Basoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over 210-C28) Surrogate %/ C-Chlorooctane -Terphenyl Lab Sample ID: 880-31664-A-2-F M: Matrix: Solid Analysis Batch: 59409 Analyte Basoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over 210-C28)	94 A <i>LCSD</i> Recovery 85 82 S S Sample Result <50.3 61.5 MS	Qualifier Sample Qualifier U *-		70 - 130         Spike         Added         1000         1000         1000         1000         0.130         70 - 130         70 - 130         993         993         993	Result           660.9           845.2           State           MS           Result           876.9	Quali *_	ifier	Unit mg/Kg mg/Kg Unit mg/Kg		<u>D</u> <u>9</u>	66	Prep 7 Prep 7 %Rec Limits 70 - 130 70 - 130 70 - 130 Sample ID Prep 7 %Rec Limits 70 - 130	Type: To Batch:	stal/NA 59369 RPD Limit 20 20 20
Analysis Batch: 59409 Analysis Batch: 59409 Analysis Batch: 59409 Analysis Batch: 59409 Analyte Basoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over 210-C28) Surrogate %/ C-Chlorooctane -Terphenyl Lab Sample ID: 880-31664-A-2-F M: Matrix: Solid Analysis Batch: 59409 Analyte Basoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over 210-C28)	94 A LCSD Recovery 85 82 S S Sample Result <50.3 61.5	Qualifier Sample Qualifier U *-		Spike           Added           1000           1000           1000           1000           Spike           70 - 130           70 - 130           Spike           Added           993	Result           660.9           845.2           State           MS           Result           876.9	Quali *_	ifier	Unit mg/Kg mg/Kg Unit mg/Kg		<u>D</u> <u>9</u>	66	Prep 7 Prep 7 %Rec Limits 70 - 130 70 - 130 70 - 130 Sample ID Prep 7 %Rec Limits 70 - 130	Type: To Batch:	stal/NA 59369 RPD Limit 20 20 20

Client: Carmona Resources

Project/Site: Tonto 15 State #1

# Job ID: 880-31279-1 SDG: Lea County, New Mexico

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

SampleSampleSpikeMSDMSD%RecRPDAnalyteResultQualifierAddedResultQualifierUnitD%RecLimitsRPDLimitGasoline Range Organics<50.3U*-992918.4mg/Kg9170-130520(GRO)-C6-C10Disele Range Organics (Over61.59921254mg/Kg12070-130620Disele Range Organics (Over61.59921254mg/Kg12070-130620C10-C28)MSDMSDSurrogate%Recovery 1/2QualifierLimits 70-13070-130620o-Terphenyl11270-13070-130620	Analysis Batch: 59409	Comula	Comula	Calka	MOD	MOD					Batch:		
Gasoline Range Organics       <50.3       U*-       992       918.4       mg/Kg       91       70 - 130       5       20         (GRO)-C6-C10       Diesel Range Organics (Over       61.5       992       1254       mg/Kg       120       70 - 130       6       20         C10-C28)       MSD       MSD       MSD       Surrogate       %Recovery       Qualifier       Limits         1-Chlorooctane       128       70 - 130       0       70 - 130       0       0         o-Terphenyl       112       70 - 130       10       10       10       10	nalvte		-	Spike Added			Unit	D	%Rec	%Rec Limits	RPD	RPD Limit	5
C10-C28) MSD MSD Surrogate <u>%Recovery</u> Qualifier Limits 1-Chlorooctane 128 70 - 130 o-Terphenyl 112 70 - 130	Basoline Range Organics												
Surrogate%RecoveryQualifierLimits1-Chlorooctane12870 - 130o-Terphenyl11270 - 130		61.5		992	1254		mg/Kg		120	70 - 130	6	20	
1-Chlorooctane 128 70 - 130 o-Terphenyl 112 70 - 130		MSD	MSD										
o-Terphenyl 112 70 - 130	Surrogate	%Recovery	Qualifier	Limits									2
	-Chlorooctane	128		70 - 130									
	p-Terphenyl	112		70 - 130									

Released to Imaging: 11/6/2023 11:57:53 AM

# **QC Association Summary**

Client: Carmona Resources Project/Site: Tonto 15 State #1

Job ID: 880-31279-1 SDG: Lea County, New Mexico

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# Prep Batch: 58971

**GC VOA** 

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31279-1	S-6 (3')	Total/NA	Solid	5035	
MB 880-58971/5-A	Method Blank	Total/NA	Solid	5035	5
LCS 880-58971/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-58971/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-31279-1 MS	S-6 (3')	Total/NA	Solid	5035	
880-31279-1 MSD	S-6 (3')	Total/NA	Solid	5035	
Prep Batch: 58998					8
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Pre
MB 880-58998/5-A	Method Blank	Total/NA	Solid	5035	

# Analysis Batch: 59072

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch	
880-31279-1	S-6 (3')	Total/NA	Solid	8021B	58971	
MB 880-58971/5-A	Method Blank	Total/NA	Solid	8021B	58971	
MB 880-58998/5-A	Method Blank	Total/NA	Solid	8021B	58998	
LCS 880-58971/1-A	Lab Control Sample	Total/NA	Solid	8021B	58971	
LCSD 880-58971/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	58971	
880-31279-1 MS	S-6 (3')	Total/NA	Solid	8021B	58971	
880-31279-1 MSD	S-6 (3')	Total/NA	Solid	8021B	58971	

# Analysis Batch: 59200

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
880-31279-1	S-6 (3')	Total/NA	Solid	Total BTEX	

# GC Semi VOA

# Prep Batch: 59369

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31279-1	S-6 (3')	Total/NA	Solid	8015NM Prep	
MB 880-59369/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-59369/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-59369/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-31664-A-2-F MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-31664-A-2-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

# Analysis Batch: 59409

880-31279-1

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31279-1	S-6 (3')	Total/NA	Solid	8015B NM	59369
MB 880-59369/1-A	Method Blank	Total/NA	Solid	8015B NM	59369
LCS 880-59369/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	59369
LCSD 880-59369/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	59369
880-31664-A-2-F MS	Matrix Spike	Total/NA	Solid	8015B NM	59369
880-31664-A-2-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	59369
Analysis Batch: 59481					
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch

Total/NA

Solid

8015 NM

S-6 (3')
Job ID: 880-31279-1 SDG: Lea County, New Mexico

# Lab Sample ID: 880-31279-1 Matrix: Solid

Client Sample ID: S-6 (3') Date Collected: 07/25/23 00:00 Date Received: 07/26/23 16:45

Client: Carmona Resources

Project/Site: Tonto 15 State #1

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	58971	08/01/23 09:18	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	59072	08/02/23 22:30	SM	EET MID
Total/NA	Analysis	Total BTEX		1			59200	08/03/23 09:53	SM	EET MID
Total/NA	Analysis	8015 NM		1			59481	08/07/23 10:15	SM	EET MID
Total/NA	Prep	8015NM Prep			9.91 g	10 mL	59369	08/04/23 17:30	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59409	08/06/23 16:18	SM	EET MID

#### Laboratory References:

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

Eurofins Midland

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# Accreditation/Certification Summary

Client: Carmona Resources Project/Site: Tonto 15 State #1 Job ID: 880-31279-1 SDG: Lea County, New Mexico

#### Laboratory: Eurofins Midland

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

Authority	Pr	rogram	Identification Number	Expiration Date	
exas		ELAP	T104704400-23-26	06-30-24	
The following analytes	are included in this report, bu	ut the laboratory is not certif	ied by the governing authority. This list ma	ay include analytes for v	
the agency does not of					
0,	fer certification. Prep Method	Matrix	Analyte		
the agency does not of		Matrix Solid	Analyte Total TPH		

Eurofins Midland

# **Method Summary**

#### Client: Carmona Resources Project/Site: Tonto 15 State #1

Job ID: 880-31279-1 SDG: Lea County, New Mexico

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
Laboratory Re			
EET MID =	Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440		

#### Protocol References:

#### Laboratory References:

Eurofins Midland

# Sample Summary

Client: Carmona Resources Project/Site: Tonto 15 State #1 Job ID: 880-31279-1 SDG: Lea County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-31279-1	S-6 (3')	Solid	07/25/23 00:00	07/26/23 16:45

# Received by OCD: 9/21/2023 6:16:51 AM

MM	Comments Email	S-6 (3)	Sample Identification	Total Containers	Sample Custody Seals	Cooler Custody Seals.	Received Intact:	SAMPLE RECEIPT	PO#	Sampler's Name	Project Location	Project Number	Project Name	Phone	City, State ZIP	Address	Company Name	Project Manager
	results to Wike Carmo	r) 7 25 23				Yes No		>T Temp Blank		CCM	Lea County New Mexico	6806	Tonto 15 State #1		Midland, TX 79701	310 W Wall St Ste 500	Carmona Resources	Clinton Merritt
Relinquished by (Signature)	na mcarmona@carr	23	eTime	Corrected Temperature			Thermometer ID	Yes (No)				9	State #1					
	nonaresource	×	Soil	rature	ding			Wet Ice				マ Routine	Tum	Email				
	ss com, Conne		Water Grab/ Comp	L U.S	9 9	-:30	$\sim$	Kee No	١		лер 4	[] Rush	Turn Around	msanjan@marathonoil.com	City State ZIP	Address	Company Name	Bill to. (if different)
7, 0	r Moehring		/ #of Cont			Pa	ramo	eter	s		Code	Pres.		rathonoil co				
Date/Time Re 26-23 Re 1045	g cmoehring@carmonaresources com, Clint Merritt		TPH	1 801	5M (	GRC	30211 ) + D > 300	RO	+ MR	20)			ANALYSIS REOLIEST	m	Houston TX 77024	990 Town and Country Blvd	Marathon Oil Corporation	Melodie Sanjari
Received by (Signature)	Email results to Mike Carmona mcarmona@carmonaresources com, Conner Moehring@carmonaresources com, Clint Merritt MerrittC@carmonaresources com		Samp	NaOH+Asc	Zn Acetate+NaOH Zn				HCL HC	Cool Cool	None NO		-	Deliverables EDD ADaPT D ot	Reporting Level II Level III ST/UST RRP	ľ	Program UST/PST PRP Irownfields RC	Work Order Comments
Date/Time			Sample Comments	NaOH+Ascorbic Acid SAPC	NaOH Zh	,00 4812		NACH NA		MeOH Me	DI Water H <sub>2</sub> O	r reservative Codes		2			RC Dnerfund	

Work Order No:

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Job Number: 880-31279-1

List Source: Eurofins Midland

SDG Number: Lea County, New Mexico

## Login Sample Receipt Checklist

Client: Carmona Resources

Login Number: 31279 List Number: 1 Creator: Rodriguez, Leticia

Question Answer Comment The cooler's custody seal, if present, is intact. N/A N/A Sample custody seals, if present, are intact. The cooler or samples do not appear to have been compromised or True tampered with. Samples were received on ice. True True Cooler Temperature is acceptable. 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 True HTs) 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 True MS/MSDs

N/A

<6mm (1/4").

Containers requiring zero headspace have no headspace or bubble is

Received by OCD: 9/21/2023 6:16:51 AM



**Environment Testing** 

# **ANALYTICAL REPORT**

# PREPARED FOR

Attn: Clint Merritt Carmona Resources 310 W Wall St Ste 500 Midland, Texas 79701 Generated 8/7/2023 12:42:46 PM

# JOB DESCRIPTION

Tonto 15 State #1 SDG NUMBER Lea County, New Mexico

# **JOB NUMBER**

880-31284-1

ËOL

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

AMER

Generated 8/7/2023 12:42:46 PM

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

Eurofins Midland is a laboratory within Eurofins Environment Testing South Central, LLC, a company within Eurofins Environment Testing Group of Companies

Laboratory Job ID: 880-31284-1 SDG: Lea County, New Mexico

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# **Definitions/Glossary**

#### Client: Carmona Resources Project/Site: Tonto 15 State #1

Job ID: 880-31284-1 SDG: Lea County, New Mexico

Qualifiers		- 3
GC VOA		
Qualifier	Qualifier Description	_ 4
U	Indicates the analyte was analyzed for but not detected.	
GC Semi VOA		5
Qualifier	Qualifier Description	_
*_	LCS and/or LCSD is outside acceptance limits, low 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.	8
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis	
%R	Percent Recovery	Q
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	

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Job ID: 880-31284-1 SDG: Lea County, New Mexico

#### Job ID: 880-31284-1

Client: Carmona Resources

Project/Site: Tonto 15 State #1

#### Laboratory: Eurofins Midland

#### Narrative

Job Narrative 880-31284-1

#### Receipt

The sample was received on 7/26/2023 4:45 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.5°C

#### **Receipt Exceptions**

The following sample was received and analyzed from an unpreserved bulk soil jar: S-6 (0-1') (880-31284-1).

#### GC VOA

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

#### GC Semi VOA

Method 8015MOD\_NM: The laboratory control sample (LCS) associated with preparation batch 880-59369 and analytical batch 880-59409 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.

Matrix: Solid

Job ID: 880-31284-1 SDG: Lea County, New Mexico

## Client Sample ID: S-6 (0-1') Date Collected: 07/25/23 00:00

Date Received: 07/26/23 16:45

Client: Carmona Resources

Project/Site: Tonto 15 State #1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		08/01/23 09:18	08/03/23 00:13	
Toluene	<0.00201	U	0.00201		mg/Kg		08/01/23 09:18	08/03/23 00:13	
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/01/23 09:18	08/03/23 00:13	
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/01/23 09:18	08/03/23 00:13	
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/01/23 09:18	08/03/23 00:13	
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/01/23 09:18	08/03/23 00:13	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130				08/01/23 09:18	08/03/23 00:13	
1,4-Difluorobenzene (Surr)	105		70 - 130				08/01/23 09:18	08/03/23 00:13	-
Method: TAL SOP Total BTEX - T	otal BTEX Calo	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			08/03/23 09:53	
Method: SW846 8015 NM - Diese	I Range Organ	ics (DRO) (	GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3		mg/Kg			08/07/23 10:15	1
Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.3	U *-	50.3		mg/Kg		08/04/23 17:30	08/06/23 18:26	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.3	U	50.3		mg/Kg		08/04/23 17:30	08/06/23 18:26	
C10-C28)	~50.0		50.2		m all a		00/04/00 17:00	08/06/23 18:26	1
Oll Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		08/04/23 17:30	00/00/23 18:26	
	0/ Decessory	Qualifier	Limits				Prepared	Analyzed	Dil Fa
Surrogate	%Recovery	quanner							
Surrogate 1-Chlorooctane		quanter	70 - 130				08/04/23 17:30	08/06/23 18:26	

**Released to Imaging: 11/6/2023 11:57:53 AM** 

Lab Sample ID: 880-31284-1

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Client: Carmona Resources Project/Site: Tonto 15 State #1

Job ID: 880-31284-1 SDG: Lea County, New Mexico

#### Method: 8021B - Volatile Organic Compounds (GC) Matrix: Solid

380-31279-A-1-A MS       Matrix Spike       103       100         380-31279-A-1-B MSD       Matrix Spike Duplicate       108       104         380-31284-1       S-6 (0-1')       120       105         LCS 880-58971/1-A       Lab Control Sample       104       100         LCSD 880-58971/2-A       Lab Control Sample Dup       95       103	Percent Surro	gate Recovery (Acceptance Limits)
880-31279-A-1-A MS       Matrix Spike       103       100         880-31279-A-1-B MSD       Matrix Spike Duplicate       108       104         880-31284-1       S-6 (0-1')       120       105         LCS 880-58971/1-A       Lab Control Sample       104       100         LCSD 880-58971/2-A       Lab Control Sample Dup       95       103	BFB1 DFBZ1	
380-31279-A-1-B MSD     Matrix Spike Duplicate     108     104       380-31284-1     S-6 (0-1')     120     105       LCS 880-58971/1-A     Lab Control Sample     104     100       LCSD 880-58971/2-A     Lab Control Sample Dup     95     103	Client Sample ID (70-130) (70-130)	
880-31284-1         S-6 (0-1')         120         105           LCS 880-58971/1-A         Lab Control Sample         104         100           LCSD 880-58971/2-A         Lab Control Sample Dup         95         103	-A MS Matrix Spike 103 100	
LCS 880-58971/1-A         Lab Control Sample         104         100           LCSD 880-58971/2-A         Lab Control Sample Dup         95         103	-B MSD Matrix Spike Duplicate 108 104	
LCSD 880-58971/2-A Lab Control Sample Dup 95 103	S-6 (0-1') 120 105	
	1/1-A Lab Control Sample 104 100	
MP 990 F9071/F A Mothed Plank 94 90	171/2-A Lab Control Sample Dup 95 103	
MB 660-5697 1/5-A Method Blank 64 69	/5-A Method Blank 84 89	
MB 880-58998/5-A Method Blank 85 89	i/5-A Method Blank 85 89	

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

#### Matrix: Solid

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
ample ID	Client Sample ID	(70-130)	(70-130)	
284-1	S-6 (0-1')	94	95	
64-A-2-F MS	Matrix Spike	123	104	
664-A-2-G MSD	Matrix Spike Duplicate	128	112	
-59369/2-A	Lab Control Sample	93	94	
0-59369/3-A	Lab Control Sample Dup	85	82	
80-59369/1-A	Method Blank	88	94	

#### Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Prep Type: Total/NA

Prep Type: Total/NA

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Eurofins Midland

Client: Carmona Resources Project/Site: Tonto 15 State #1

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

# Lab Sample ID: MB 880-58971/5-A

Matrix: Solid Analysis Batch: 59072

Analysis Batch: 59072								Prep Batch	n: 58971
	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/01/23 09:18	08/02/23 22:08	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/01/23 09:18	08/02/23 22:08	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/01/23 09:18	08/02/23 22:08	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/01/23 09:18	08/02/23 22:08	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/01/23 09:18	08/02/23 22:08	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/01/23 09:18	08/02/23 22:08	1
	МВ	МВ							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 130				08/01/23 09:18	08/02/23 22:08	1
1,4-Difluorobenzene (Surr)	89		70 - 130				08/01/23 09:18	08/02/23 22:08	1

#### Lab Sample ID: LCS 880-58971/1-A Matrix: Solid

### Analysis Batch: 59072

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.07714		mg/Kg		77	70 - 130	
Toluene	0.100	0.1014		mg/Kg		101	70 - 130	
Ethylbenzene	0.100	0.08911		mg/Kg		89	70 - 130	
m-Xylene & p-Xylene	0.200	0.1753		mg/Kg		88	70 - 130	
o-Xylene	0.100	0.08985		mg/Kg		90	70 - 130	

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

### Lab Sample ID: LCSD 880-58971/2-A

### Matrix: Solid

Analysis Batch: 59072							Prep	Batch:	<b>58971</b>
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.08576		mg/Kg		86	70 - 130	11	35
Toluene	0.100	0.1000		mg/Kg		100	70 - 130	1	35
Ethylbenzene	0.100	0.08572		mg/Kg		86	70 - 130	4	35
m-Xylene & p-Xylene	0.200	0.1641		mg/Kg		82	70 - 130	7	35
o-Xylene	0.100	0.08388		mg/Kg		84	70 - 130	7	35

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

# Lab Sample ID: 880-31279-A-1-A MS

#### Matrix: Solid alveie Potek

Analysis Batch: 59072									Pre	b Batch: 58971
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00202	U	0.0996	0.07513		mg/Kg		75	70 - 130	
Toluene	<0.00202	U	0.0996	0.08995		mg/Kg		90	70 - 130	

**Eurofins Midland** 

Prep Type: Total/NA

**Client Sample ID: Matrix Spike** 

# **Client Sample ID: Method Blank**

SDG: Lea County, New Mexico

Job ID: 880-31284-1

Prep Type: Total/NA

# **Client Sample ID: Lab Control Sample**

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 58971

Prep Type: Total/NA

Client: Carmona Resources

Project/Site: Tonto 15 State #1

### Job ID: 880-31284-1 SDG: Lea County, New Mexico

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

Lab Sample ID: 880-31279-4	A-1-A MS										Client S	Sample ID:		
Matrix: Solid												Prep Ty	-	
Analysis Batch: 59072												Prep	Batch:	5897 <sup>°</sup>
	Sample	Sam	ple	Spike	MS	MS						%Rec		
Analyte	Result		lifier	Added	Result	Qual	lifier	Unit		D	%Rec	Limits		
Ethylbenzene	<0.00202	U		0.0996	0.08100			mg/Kg			81	70 - 130		
n-Xylene & p-Xylene	<0.00403	U		0.199	0.1561			mg/Kg			78	70 - 130		
o-Xylene	<0.00202	U		0.0996	0.07987			mg/Kg			80	70 - 130		
		MS												
Surrogate		Qual	lifier	Limits										
4-Bromofluorobenzene (Surr)	103			70 - 130										
1,4-Difluorobenzene (Surr)	100			70 - 130										
Lab Sample ID: 880-31279-4	A-1-B MSD							C	Clier	nt Sa	mple ID:	Matrix Spi		
Matrix: Solid												Prep Ty	-	
Analysis Batch: 59072												Prep	Batch:	5897
	Sample	Sam	ple	Spike	MSD	MSD	)					%Rec		RPI
Analyte	Result	Qual	lifier	Added	Result	Qual	lifier	Unit		D	%Rec	Limits	RPD	Lim
Benzene	<0.00202	U		0.0994	0.07017			mg/Kg			71	70 - 130	7	3
Toluene	<0.00202	U		0.0994	0.08738			mg/Kg			88	70 - 130	3	3
Ethylbenzene	<0.00202	U		0.0994	0.07772			mg/Kg			78	70 - 130	4	3
m-Xylene & p-Xylene	<0.00403	U		0.199	0.1481			mg/Kg			75	70 - 130	5	3
o-Xylene	<0.00202	U		0.0994	0.07711			mg/Kg			78	70 - 130	4	3
	MSD	MSD	)											
Surrogate	%Recovery	Qual	lifier	Limits										
4-Bromofluorobenzene (Surr)	108			70 - 130										
1,4-Difluorobenzene (Surr)	104			70 - 130										
Lab Sample ID: MB 880-589	98/5-A										Client Sa	mple ID: N	lethod	Blan
Matrix: Solid												Prep Ty	vpe: To	tal/N/
Analysis Batch: 59072												Prep	Batch:	<b>5899</b>
		ΜВ	МВ											
Analyte	Re	sult	Qualifier	R	L	MDL	Unit		D	Pi	repared	Analyze	d	Dil Fa
Benzene	<0.00	0200	U	0.0020	00		mg/K	g	_	08/0	1/23 10:59	08/02/23 1	1:28	
Toluene	<0.00	0200	U	0.0020	D		mg/K	g		08/0	1/23 10:59	08/02/23 1	1:28	
Ethylbenzene	<0.00	0200	U	0.0020	D		mg/K	g		08/0	1/23 10:59	08/02/23 1	1:28	
m-Xylene & p-Xylene	<0.00	0400	U	0.0040	D		mg/K	g		08/0	1/23 10:59	08/02/23 1	1:28	
p-Xylene	<0.00	0200	U	0.0020	D		mg/K			08/0	1/23 10:59	08/02/23 1	1:28	
Vidence Tetel	<0.00	0400	U	0.0040	D		mg/K	-		08/0	1/23 10:59	08/02/23 1	1:28	
Kylenes, Total		ΜВ	МВ											
kylenes, lotal				Limits						PI	repared	Analyze	d	Dil Fa
	%Reco	very	Quaimer								-			
Surrogate 4-Bromofluorobenzene (Surr)	%Reco	very 85	Quaimer	70 - 130	-					08/0	1/23 10:59	08/02/23 1	1:28	
Surrogate	%Reco		Quaimer		_						1/23 10:59 1/23 10:59	08/02/23 1 08/02/23 1		

Lab Sample ID: MB 880-59369/1-A Matrix: Solid Analysis Batch: 59409						Client Sa	mple ID: Metho Prep Type: <sup>-</sup> Prep Batcl	Total/NA
I	IB MB							
Analyte Res	ult Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics <50	.0 U	50.0		mg/Kg		08/04/23 17:29	08/06/23 08:16	1

Eurofins Midland

80-31284-1 Jew Mexico

(GRO)-C6-C10

#### Job ID: 880-31284-1 SDG: Lea County, New Mexico

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

Lab Sample ID: MB 880-59369/	A-1									Client Sa	ample ID:		
Matrix: Solid												Type: T	
Analysis Batch: 59409		в мв									Prep	Batch	: 59369
Analyta		b MB It Qualifier	RL		мы	Unit		D	Dr	epared	Analyr	rod .	Dil Fac
Analyte Diesel Range Organics (Over	Kesu <50.		KL 50.0			mg/Kg				4/23 17:29	Analyz 08/06/23		
C10-C28)	-50	0 0	30.0			ing/itg			00/0-	+/20 11.29	00/00/20	00.10	
Oll Range Organics (Over C28-C36)	<50.	0 U	50.0			mg/Kg			08/04	4/23 17:29	08/06/23	08:16	1
<b>-</b>	M								_				
Surrogate	%Recover	y Qualifier 8	<u>Limits</u> 70 - 130					-		repared 4/23 17:29	Analyz		Dil Fac
1-Chlorooctane o-Terphenyl		o 4	70 - 130 70 - 130							4/23 17.29 4/23 17:29			
o-rerprienyi	5	4	70 - 730						00/04	+/23 11.29	00/00/23	00.70	
Lab Sample ID: LCS 880-59369	9/2-A							Cli	ient	Sample	ID: Lab C	ontrol	Sample
Matrix: Solid												Type: T	
Analysis Batch: 59409												Batch	
			Spike	LCS	LCS						%Rec		
Analyte			Added	Result	Qual	lifier	Unit		D	%Rec	Limits		
Gasoline Range Organics			1000	661.8	*-		mg/Kg			66	70 - 130		
(GRO)-C6-C10													
Diesel Range Organics (Over			1000	873.3			mg/Kg			87	70 - 130		
C10-C28)													
	LCS LC	s											
Surragata	%Recovery Q	ıalifier	Limits										
Surroyale													
-	93		70 - 130										
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-593	93 94		70 - 130 70 - 130				Cli	ent S	Sam	ple ID: L	_ab Contro	-	
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-593 Matrix: Solid	93 94		70 - 130				Cli	ent S	Sam	ple ID: L	Prep Prep	ol Samı Type: T o Batch	otal/NA : 59369
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-5930 Matrix: Solid Analysis Batch: 59409	93 94		70 - 130 Spike	LCSD				ent S		-	Prep 1 Prep %Rec	Type: T Batch	otal/NA : 59369 RPE
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-5930 Matrix: Solid Analysis Batch: 59409 Analyte	93 94		70 - 130 Spike Added	Result	Qual		Unit	ent S	Sam	%Rec	Prep Prep %Rec Limits	Type: T Batch	otal/NA : 59369 RPE Limi
o-Terphenyl Lab Sample ID: LCSD 880-5930 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics	93 94		70 - 130 Spike		Qual			ent S		-	Prep 1 Prep %Rec	Type: T Batch	otal/NA : 59369 RPE Limi
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-5930 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10	93 94		70 - 130 Spike Added	Result	Qual		Unit	ent S		%Rec	Prep Prep %Rec Limits	Type: T Batch	otal/NA : 59369 RPE Limi 20
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-5930 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	93 94		70 - 130 Spike Added 1000	Result 660.9	Qual		<mark>Unit</mark> mg/Kg	ent S		%Rec	Prep Prep %Rec Limits 70 - 130	Type: T b Batch RPD 0	otal/N/ : 59369 RPI Limi 20
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-5930 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	93 94 69/3-A		70 - 130 Spike Added 1000	Result 660.9	Qual		<mark>Unit</mark> mg/Kg	ent S		%Rec	Prep Prep %Rec Limits 70 - 130	Type: T b Batch RPD 0	otal/NA : 59369 RPE Limi 20
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-5930 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	93 94 69/3-A 		70 - 130 Spike Added 1000	Result 660.9	Qual		<mark>Unit</mark> mg/Kg	ent S		%Rec	Prep Prep %Rec Limits 70 - 130	Type: T b Batch RPD 0	otal/NA : 59369 RPE Limi 20
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-5930 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate	93 94 69/3-A 		70 - 130 Spike Added 1000 1000 Limits	Result 660.9	Qual		<mark>Unit</mark> mg/Kg	ent \$		%Rec	Prep Prep %Rec Limits 70 - 130	Type: T b Batch RPD 0	otal/NA : 59369 RPD Limit
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-5930 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane	93 94 69/3-A 		70 - 130 Spike Added 1000	Result 660.9	Qual		<mark>Unit</mark> mg/Kg	ent S		%Rec	Prep Prep %Rec Limits 70 - 130	Type: T b Batch RPD 0	otal/NA : 59369 RPE Limi 20
Surrogate         1-Chlorooctane         o-Terphenyl         Lab Sample ID: LCSD 880-5930         Matrix: Solid         Analysis Batch: 59409         Analyte         Gasoline Range Organics         (GRO)-C6-C10         Diesel Range Organics (Over         C10-C28)         Surrogate         1-Chlorooctane         o-Terphenyl	93 94 69/3-A 		70 - 130 Spike Added 1000 1000 Limits 70 - 130	Result 660.9	Qual		<mark>Unit</mark> mg/Kg	ent \$		%Rec	Prep Prep %Rec Limits 70 - 130	Type: T b Batch RPD 0	otal/NA : 59369 RPD Limit
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-5930 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl	93 94 69/3-A 		70 - 130 Spike Added 1000 1000 Limits 70 - 130	Result 660.9	Qual		<mark>Unit</mark> mg/Kg	ent 5		<b>%Rec</b> 66 85	Prep 7 Prep %Rec Limits 70 - 130 70 - 130	Type: T Batch RPD 0 3 2: Matri:	otal/N/ : 59365 RPE Limi 20 20
1-Chlorooctane o-Terpheny/ Lab Sample ID: LCSD 880-5930 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terpheny/ Lab Sample ID: 880-31664-A-2 Matrix: Solid	93 94 69/3-A 		70 - 130 Spike Added 1000 1000 Limits 70 - 130	Result 660.9	Qual		<mark>Unit</mark> mg/Kg	ent 5		<b>%Rec</b> 66 85	Prep           %Rec           Limits           70 - 130           70 - 130           Sample ID           Prep	Type: T Batch RPD 0 3 3 9: Matri: Type: T	total/NA : 59365 RPI Limi 20 20 x Spike otal/NA
1-Chlorooctane o-Terpheny/ Lab Sample ID: LCSD 880-5930 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terpheny/ Lab Sample ID: 880-31664-A-2 Matrix: Solid	93 94 69/3-A <i>LCSD LC</i> %Recovery Q4 85 82 -F MS	ualifier	70 - 130 Spike Added 1000 1000 Limits 70 - 130 70 - 130	Result 660.9 845.2	Qual *_		<mark>Unit</mark> mg/Kg	ent \$		<b>%Rec</b> 66 85	Prep 7 Prep %Rec Limits 70 - 130 70 - 130 70 - 130 Sample ID Prep 7 Prep	Type: T Batch RPD 0 3 2: Matri:	total/NA : 59365 RPE Limi 20 20 20 x Spike otal/NA
1-Chlorooctane o-Terpheny/ Lab Sample ID: LCSD 880-5930 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terpheny/ Lab Sample ID: 880-31664-A-2 Matrix: Solid Analysis Batch: 59409	93 94 69/3-A  69/3- 69/3 69/3 69/3 69/3 69/3 69/3 69/3 69/3	nalifier	70 - 130  Spike Added 1000 1000  Limits 70 - 130 70 - 130 70 - 130 Spike	Result 660.9 845.2 MS	Qual *-	lifier	Unit mg/Kg mg/Kg	ent \$	<u>D</u> .	%Rec 66 85 Client 5	Prep %Rec Limits 70 - 130 70 - 130 70 - 130 Sample ID Prep %Rec	Type: T Batch RPD 0 3 3 9: Matri: Type: T	total/NA : 59365 RPI Limi 20 20 x Spike otal/NA
1-Chlorooctane o-Terpheny/ Lab Sample ID: LCSD 880-5930 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terpheny/ Lab Sample ID: 880-31664-A-2 Matrix: Solid Analysis Batch: 59409 Analyte	93 94 69/3-A 69/3-A <u><i>LCSD</i></u> 69/3-A <u><i>CCSD</i></u> 69/3-A 69/3- 82 69/3- 82 69/3- 82 69/3- 82 82 82 82 82 82 82 82 82 82 82 82 82	mple	70 - 130         Spike         Added         1000         1000         1000         1000         1000         1000         5pike         Added         Added	Result           660.9           845.2           MS           Result	Qual *-	lifier	Unit mg/Kg mg/Kg	ent \$		%Rec 66 85 Client \$	Prep %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130 970 - 130 Prep %Rec Limits	Type: T Batch RPD 0 3 3 9: Matri: Type: T	total/NA : 59365 RPE Limi 20 20 20 x Spike otal/NA
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-5930 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 880-31664-A-2 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics	93 94 69/3-A  69/3- 69/3 69/3 69/3 69/3 69/3 69/3 69/3 69/3	mple	70 - 130  Spike Added 1000 1000  Limits 70 - 130 70 - 130 70 - 130 Spike	Result 660.9 845.2 MS	Qual *-	lifier	Unit mg/Kg mg/Kg	ent 5	<u>D</u> .	%Rec 66 85 Client 5	Prep %Rec Limits 70 - 130 70 - 130 70 - 130 Sample ID Prep %Rec	Type: T Batch RPD 0 3 3 9: Matri: Type: T	total/NA : 59365 RPI Limi 20 20 x Spike otal/NA
1-Chlorooctane o-Terpheny/ Lab Sample ID: LCSD 880-5930 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terpheny/ Lab Sample ID: 880-31664-A-2 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10	93 94 69/3-A <i>LCSD LC</i> <i>%Recovery Qu</i> 85 82 -F MS -F MS Sample Sa <u>Result Qu</u> <50.3 U	mple	70 - 130         Spike         Added         1000         1000         1000         1000         1000         1000         5pike         Added         993	Result           660.9           845.2           MS           Result           876.9	Qual *-	lifier	Unit mg/Kg mg/Kg Unit mg/Kg	ent 5	<u>D</u> .	%Rec 66 85 Client 5 %Rec 86	Prep           %Rec           Limits           70 - 130           70 - 130           70 - 130           %Rec           Use           %Rec           Use           %Rec           Limits           70 - 130	Type: T Batch RPD 0 3 3 9: Matri: Type: T	total/NA : 59365 RPI Limi 20 20 x Spike otal/NA
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-5930 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 880-31664-A-2 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	93 94 69/3-A 69/3-A <u><i>LCSD</i></u> 69/3-A <u><i>CCSD</i></u> 69/3-A 69/3- 82 69/3- 82 69/3- 82 69/3- 82 82 82 82 82 82 82 82 82 82 82 82 82	mple	70 - 130         Spike         Added         1000         1000         1000         1000         1000         1000         5pike         Added         Added	Result           660.9           845.2           MS           Result	Qual *-	lifier	Unit mg/Kg mg/Kg	ent \$ 	<u>D</u> .	%Rec 66 85 Client \$	Prep %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130 970 - 130 Prep %Rec Limits	Type: T Batch RPD 0 3 3 9: Matri: Type: T	total/NA : 5936 RPI Limi 2 2 2 x Spike otal/NA
1-Chlorooctane o-Terpheny/ Lab Sample ID: LCSD 880-5930 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terpheny/ Lab Sample ID: 880-31664-A-2 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	93 94 69/3-A 69/3-A 69/3-A 69/3-A 61.5	nalifier mple nalifier	70 - 130         Spike         Added         1000         1000         1000         1000         1000         1000         5pike         Added         993	Result           660.9           845.2           MS           Result           876.9	Qual *-	lifier	Unit mg/Kg mg/Kg Unit mg/Kg	ent 5	<u>D</u> .	%Rec 66 85 Client 5 %Rec 86	Prep           %Rec           Limits           70 - 130           70 - 130           70 - 130           %Rec           Use           %Rec           Use           %Rec           Limits           70 - 130	Type: T Batch RPD 0 3 3 9: Matri: Type: T	total/NA : 59365 RPE Limi 20 20 20 x Spike otal/NA
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-5930 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 880-31664-A-2 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	93 94 69/3-A 69/3-A <i>LCSD LC</i> % <i>Recovery</i> Qi 85 82 -F MS -F MS Sample Sa <u>Result</u> Qi <50.3 U 61.5 <i>MS M</i> .	nalifier mple nalifier *-	70 - 130         Spike         Added         1000         1000         1000         1000         1000         1000         50         70 - 130         70 - 130         70 - 130         993         993         993	Result           660.9           845.2           MS           Result           876.9	Qual *-	lifier	Unit mg/Kg mg/Kg Unit mg/Kg	ent \$	<u>D</u> .	%Rec 66 85 Client 5 %Rec 86	Prep           %Rec           Limits           70 - 130           70 - 130           70 - 130           %Rec           Use           %Rec           Use           %Rec           Limits           70 - 130	Type: T Batch RPD 0 3 3 9: Matri: Type: T	total/NA : 59369 RPD Limin 20 20 20 x Spike otal/NA
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-5930 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane	93 94 69/3-A 69/3-A 69/3-A 69/3-A 61.5	nalifier mple nalifier *-	70 - 130         Spike         Added         1000         1000         1000         1000         1000         1000         5pike         Added         993	Result           660.9           845.2           MS           Result           876.9	Qual *-	lifier	Unit mg/Kg mg/Kg Unit mg/Kg	ent \$	<u>D</u> .	%Rec 66 85 Client 5 %Rec 86	Prep           %Rec           Limits           70 - 130           70 - 130           70 - 130           %Rec           Use           %Rec           Use           %Rec           Limits           70 - 130	Type: T Batch RPD 0 3 3 9: Matri: Type: T	otal/NA : 59369 RPD Limit 20 20 x Spike otal/NA

Client: Carmona Resources Project/Site: Tonto 15 State #1

Job ID: 880-31284-1 SDG: Lea County, New Mexico

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

Matrix: Solid         Analysis Batch: 59409         Sample       Sample       Spike         Analyte       Result       Qualifier       Added         Gasoline Range Organics       <50.3       U*-       992         (GRO)-C6-C10       0       0*-       992         Diesel Range Organics (Over       61.5       992         C10-C28)       MSD       MSD         Surrogate       %Recovery       Qualifier       Limits         1-Chlorooctane       128       70 - 130         o-Terphenyl       112       70 - 130	<b>MSD</b> <b>Result</b> 918.4 1254	MSD Qualifier	<mark>Unit</mark> mg/Kg mg/Kg	<u>D</u>	%Rec 91 120		ype: To Batch: <u>RPD</u> 5		
SampleSampleSpikeAnalyteResultQualifierAddedGasoline Range Organics<50.3U *-992(GRO)-C6-C100<61.5992Diesel Range Organics (Over C10-C28)61.5992MSDMSDSurrogate%Recovery 128QualifierLimits 70 - 130	<b>Result</b> 918.4		mg/Kg	<u>D</u>	91	%Rec Limits 70 - 130	<b>RPD</b> 5	RPD Limit 20	2
AnalyteResultQualifierAddedGasoline Range Organics<50.3U *-992(GRO)-C6-C10U *-992Diesel Range Organics (Over61.5992C10-C28)MSDMSDSurrogate%RecoveryQualifierLimits1-Chlorooctane12870 - 130	<b>Result</b> 918.4		mg/Kg	<u> </u>	91	Limits 70 - 130	5	Limit 20	
Gasoline Range Organics       <50.3       U *-       992         (GRO)-C6-C10       Diesel Range Organics (Over       61.5       992         C10-C28)       MSD       MSD         Surrogate       %Recovery       Qualifier       Limits         1-Chlorooctane       128       70 - 130	918.4	Qualifier	mg/Kg	<u>D</u>	91	70 - 130	5	20	
(GRO)-C6-C10 Diesel Range Organics (Over 61.5 992 C10-C28) MSD MSD Surrogate <u>%Recovery</u> Qualifier Limits 1-Chlorooctane 128 70 - 130									
Diesel Range Organics (Over 61.5 992 C10-C28)  MSD MSD  Surrogate %Recovery Qualifier Limits 128 70 - 130	1254		mg/Kg		120	70 - 130	6	20	ļ
MSDMSDSurrogate%RecoveryQualifierLimits-Chlorooctane12870 - 130	1254		mg/Kg		120	70 - 130	6	20	
MSDMSDSurrogate%RecoveryQualifierLimits-Chlorooctane12870 - 130									
Surrogate%RecoveryQualifierLimits1-Chlorooctane12870 - 130									
-Chlorooctane 128 70 - 130									
Tembenyl 112 70 130									
-Telphenyi 112 10-130									
									i

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**Client Sample ID** 

Lab Control Sample

Lab Control Sample Dup

Matrix Spike Duplicate

**Client Sample ID** 

Method Blank

S-6 (0-1')

Method Blank

Matrix Spike

# **QC Association Summary**

Client: Carmona Resources Project/Site: Tonto 15 State #1

**GC VOA** 

Prep Batch: 58971

MB 880-58971/5-A

LCS 880-58971/1-A

LCSD 880-58971/2-A

880-31279-A-1-A MS

880-31279-A-1-B MSD

Prep Batch: 58998

MB 880-58998/5-A

Lab Sample ID

Lab Sample ID

880-31284-1

Job ID: 880-31284-1 SDG: Lea County, New Mexico

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#### Prep Batch Matrix Method Prep Type Total/NA Solid 5035 Prep Batch Prep Type Matrix Method 5035 Total/NA Solid

#### Analysis Batch: 59072

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31284-1	S-6 (0-1')	Total/NA	Solid	8021B	58971
MB 880-58971/5-A	Method Blank	Total/NA	Solid	8021B	58971
MB 880-58998/5-A	Method Blank	Total/NA	Solid	8021B	58998
_CS 880-58971/1-A	Lab Control Sample	Total/NA	Solid	8021B	58971
LCSD 880-58971/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	58971
880-31279-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	58971
880-31279-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	58971

#### atch: 592

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
880-31284-1	S-6 (0-1')	Total/NA	Solid	Total BTEX	

#### GC Semi VOA

#### Prep Batch: 59369

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31284-1	S-6 (0-1')	Total/NA	Solid	8015NM Prep	
MB 880-59369/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-59369/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-59369/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-31664-A-2-F MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-31664-A-2-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

#### Analysis Batch: 59409

880-31284-1

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31284-1	S-6 (0-1')	Total/NA	Solid	8015B NM	59369
MB 880-59369/1-A	Method Blank	Total/NA	Solid	8015B NM	59369
LCS 880-59369/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	59369
LCSD 880-59369/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	59369
880-31664-A-2-F MS	Matrix Spike	Total/NA	Solid	8015B NM	59369
880-31664-A-2-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	59369
Analysis Batch: 59486					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch

Total/NA

Solid

8015 NM

S-6 (0-1')

#### Client Sample ID: S-6 (0-1') Date Collected: 07/25/23 00:00 Date Received: 07/26/23 16:45

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	58971	08/01/23 09:18	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	59072	08/03/23 00:13	SM	EET MID
Total/NA	Analysis	Total BTEX		1			59205	08/03/23 09:53	SM	EET MID
Total/NA	Analysis	8015 NM		1			59486	08/07/23 10:15	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	59369	08/04/23 17:30	ткс	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59409	08/06/23 18:26	SM	EET MID

#### Laboratory References:

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

Job ID: 880-31284-1 SDG: Lea County, New Mexico

# Lab Sample ID: 880-31284-1

Matrix: Solid

Eurofins Midland

# Accreditation/Certification Summary

Client: Carmona Resources Project/Site: Tonto 15 State #1 Job ID: 880-31284-1 SDG: Lea County, New Mexico

#### Laboratory: Eurofins Midland

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

thority	P	rogram	Identification Number	Expiration Date
xas	N	IELAP	T104704400-23-26	06-30-24
The following analytes	are included in this report, b	out the laboratory is not certif	ied by the governing authority. This list ma	ay include analytes for w
the agency does not of		Matrix	Analyta	
Analysis Method	fer certification Prep Method	Matrix	Analyte	
6 ,		Matrix Solid	Analyte Total TPH	

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# **Method Summary**

#### Client: Carmona Resources Project/Site: Tonto 15 State #1

Job ID: 880-31284-1 SDG: Lea County, New Mexico

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
Protocol Refe	rences:		
	"Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third E = TestAmerica Laboratories, Standard Operating Procedure	Edition, November 1986 And Its Updates.	
TAL SOP	- TestAmenca Laboratories, Standard Operating Procedure		
Laboratory R	eferences:		
Laboratory R		0	
Laboratory R	eferences:	0	
Laboratory R	eferences:	0	
Laboratory R	eferences:	0	
Laboratory R	eferences:	0	
Laboratory R	eferences:	0	
Laboratory R	eferences:	0	

#### Protocol References:

#### Laboratory References:

Eurofins Midland

# Sample Summary

Client: Carmona Resources Project/Site: Tonto 15 State #1 Job ID: 880-31284-1 SDG: Lea County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-31284-1	S-6 (0-1')	Solid	07/25/23 00:00	07/26/23 16:45

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												880-3	1284 CI	880-31284 Chain of Custody	Justody				
											]					Page_		of1	Ľ
	-			Bill to (if different)	)	Melodie Sanjari	banjari					an in the second se		Vork Or	der Cor	Work Order Comments			أستسامله
Company Name Carmona Resources	Se			Company Name	æ	Marathon	Marathon Oil Corporation	ration			Prog	Program. UST/PST PRP	/PST		rownfields	ldsRC	~	Dperfund [	أساست
	500			Address		990 Town and Country Blvd	and Cour	itry Blvd			State	State of Project.	at.						
City, State ZIP Midland, TX 79701				City, State ZIP		Houston TX 77024	TX 77024				Repo	Reporting Level II Level III			□st/ust				
			Email	msanjari@marathonoil.com	irathonoil.c	om					Delive	Deliverables EDD			ADaPT		:		
Tont	Tonto 15 State #1		Turn	Turn Around												,			I
Project Number	2089		マ Routine	[ ] Rush	Pres,			_					_			rrese	r reservative Codes	Codes	1
	Lea County, New Mexico		Due Date	5 dav				_			-	_	-			NOTE NO	C	DI Water: H <sub>2</sub> O	
	CCM														5 2		Me	MeOH Me	
					5	+ MF									: ፲		I,	HNC3 HN	
SAMPLE RECEIPT Temp Blank	lank	Yes No	Wet Ice	Res No	eter										П <sub>2</sub>		Na	NaOH Na	
Received Intact: (Fes)	)	21		$(\mathcal{O})$	ram	3021 ) + E	e 30(								2 3		20		
Seals Ye	NAL CO	<b>Correction Factor</b>		065	Pa										Z	Nanson Nason			
Sample Custody Seals Yes No	NUA Ter	Temperature Reading	ding	Q.Y											Zn	Zn Acetate+NaOH Zn	Z HUEN	ב	
Total Containers.	Co	Corrected Temperature	ature	N-S	1	1 801									Na	NaOH+Ascorbic Acid SAPC	orbic Acio	1 SAPC	
Sample Identification	Date	Time	Soil	Water Comp	p Cont	TP										Samp	Sample Comments	ments	
S-6 (0-1')	7 25 23		×	G		×									+				
													-		_				
						<b> </b>													L
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																			i
Email results to Mike Carmona mcarmona@carmonaresources com, Conner Moehring cmoehring@carmonaresources com, Clint Merntt MernttC@carmonaresources com	irmona mcar	mona@carm	ionaresource	is com, Conne	er Moehrir	lg cmoeh	tring@ca	rmonare	sources	com, C	Int Meri	tt Merr	ttC@c:	rmona	resourc	es com			1
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Reli	Relinquished by (Signature)	Signature)				Date/Time	Ф 			Re	Received by (Signature)	Y (Signa	ature)				Date	Date/Time	
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# 8/7/2023

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Job Number: 880-31284-1

List Source: Eurofins Midland

SDG Number: Lea County, New Mexico

# Login Sample Receipt Checklist

Client: Carmona Resources

Login Number: 31284 List Number: 1

<6mm (1/4").

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	N/A	

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Received by OCD: 9/21/2023 6:16:51 AM



**Environment Testing** 

# **ANALYTICAL REPORT**

# PREPARED FOR

Attn: Clint Merritt Carmona Resources 310 W Wall St Ste 500 Midland, Texas 79701 Generated 9/13/2023 1:05:06 PM

# JOB DESCRIPTION

Tonto 15 State #1 SDG NUMBER Lea County NM

# **JOB NUMBER**

880-33030-1

Eurofins Midland 1211 W. Florida Ave Midland TX 79701

See page two for job notes and contact information.



# **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

AMER

Generated 9/13/2023 1:05:06 PM

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

Eurofins Midland is a laboratory within Eurofins Environment Testing South Central, LLC, a company within Eurofins Environment Testing Group of Companies

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# **Definitions/Glossary**

#### Client: Carmona Resources Project/Site: Tonto 15 State #1

Job ID: 880-33030-1 SDG: Lea County NM

Q	ua	lifi	e	rs
-			-	-

Qualifiers		3
GC VOA		
Qualifier	Qualifier Description	
S1-	Surrogate recovery exceeds control limits, low biased.	
U	Indicates the analyte was analyzed for but not detected.	5
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	8
F1	MS and/or MSD recovery exceeds control limits.	
U	Indicates the analyte was analyzed for but not detected.	9
Glossary		10
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	10
DER	Duplicate Error Ratio (normalized absolute difference)	13
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) Most Probable Number MPN 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

Practical Quantitation Limit PQL 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** 

Job ID: 880-33030-1 SDG: Lea County NM

#### Job ID: 880-33030-1

Client: Carmona Resources Project/Site: Tonto 15 State #1

#### Laboratory: Eurofins Midland

#### Narrative

Job Narrative 880-33030-1

#### Receipt

The samples were received on 9/8/2023 1:34 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 -2.7°C

#### GC VOA

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-62082 and analytical batch 880-62040 was outside the upper control limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: S-7 (0-1') (880-33030-1), S-7 (1.5') (880-33030-2), (890-5210-A-1-C) and (880-32833-A-8-A MB). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (MB 880-62041/5-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.

#### GC Semi VOA

Method 8015MOD\_NM: The surrogate recovery for the blank associated with preparation batch 880-62105 and analytical batch 880-62028 was outside the upper control limits.

Method 8015MOD NM: Surrogate recovery for the following samples were outside control limits: (890-5212-A-1-B), (890-5212-A-1-C MS) and (890-5212-A-1-D MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD NM: Surrogate recovery for the following samples were outside control limits: S-7 (0-1') (880-33030-1), S-7 (1.5') (880-33030-2) and S-7 (2') (880-33030-3). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD\_NM: The method blank for preparation batch 880-62105 and analytical batch 880-62028 contained Gasoline Range Organics (GRO)-C6-C10 above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

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

#### HPLC/IC

Method 300 ORGFM 28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-62154 and 880-62154 and analytical batch 880-62337 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

# **Client Sample Results**

Client: Carmona Resources Project/Site: Tonto 15 State #1

### Client Sample ID: S-7 (0-1') Date Collected: 09/07/23 00:00

Date Received: 09/08/23 13:34

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/08/23 13:56	09/09/23 01:47	
Toluene	<0.00200	U	0.00200		mg/Kg		09/08/23 13:56	09/09/23 01:47	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/08/23 13:56	09/09/23 01:47	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/08/23 13:56	09/09/23 01:47	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/08/23 13:56	09/09/23 01:47	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/08/23 13:56	09/09/23 01:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	58	S1-	70 - 130				09/08/23 13:56	09/09/23 01:47	1
1,4-Difluorobenzene (Surr)	88		70 - 130				09/08/23 13:56	09/09/23 01:47	1
Method: TAL SOP Total BTEX - T	otal BTEX Calo	ulation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			09/11/23 13:03	1
Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (G	C)						
Analyte	• •	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.2	<u> </u>	50.2		mg/Kg		· · ·	09/11/23 10:03	1
Analyte	Result	Qualifier		MDL	Unit	D	Prepared	Analyzed	
Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO) (	GC)						
Analyte Gasoline Range Organics		Qualifier		MDL	Unit mg/Kg	D	Prepared 09/08/23 15:26	Analyzed	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10	<b>Result</b> <50.2	Qualifier U	RL 50.2	MDL	mg/Kg	<u> </u>	09/08/23 15:26	09/09/23 04:47	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result	Qualifier U		MDL		<u>D</u>			1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<b>Result</b> <50.2	Qualifier U U	RL 50.2	MDL	mg/Kg	<u> </u>	09/08/23 15:26	09/09/23 04:47	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <50.2 <50.2	Qualifier U U	RL 50.2 50.2	MDL	mg/Kg mg/Kg	<u> </u>	09/08/23 15:26 09/08/23 15:26	09/09/23 04:47 09/09/23 04:47	1 1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result <50.2 <50.2 <50.2	Qualifier U U U	RL 50.2 50.2 50.2	MDL	mg/Kg mg/Kg	<u> </u>	09/08/23 15:26 09/08/23 15:26 09/08/23 15:26	09/09/23 04:47 09/09/23 04:47 09/09/23 04:47	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result           <50.2	Qualifier U U U	RL 50.2 50.2 50.2 Limits	MDL	mg/Kg mg/Kg	<u>D</u>	09/08/23 15:26 09/08/23 15:26 09/08/23 15:26 <b>Prepared</b>	09/09/23 04:47 09/09/23 04:47 09/09/23 04:47 09/09/23 04:47 Analyzed	1 1 1 <b>Dil Fac</b>
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result           <50.2	Qualifier U U Qualifier S1+	RL           50.2           50.2           50.2           50.2           50.2           50.2           70 - 130	MDL	mg/Kg mg/Kg	<u>D</u>	09/08/23 15:26 09/08/23 15:26 09/08/23 15:26 <b>Prepared</b> 09/08/23 15:26	09/09/23 04:47 09/09/23 04:47 09/09/23 04:47 09/09/23 04:47 <u>Analyzed</u> 09/09/23 04:47	1 1 1 <b>Dil Fac</b> 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl Method: EPA 300.0 - Anions, Ion	Result <50.2 <50.2 <50.2 <50.2 %Recovery 127 136 Chromatograp	Qualifier U U Qualifier S1+	RL           50.2           50.2           50.2           50.2           50.2           50.2           70 - 130		mg/Kg mg/Kg	<u>D</u>	09/08/23 15:26 09/08/23 15:26 09/08/23 15:26 <b>Prepared</b> 09/08/23 15:26	09/09/23 04:47 09/09/23 04:47 09/09/23 04:47 09/09/23 04:47 <u>Analyzed</u> 09/09/23 04:47	1 1 1 <b>Dil Fac</b> 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl Method: EPA 300.0 - Anions, Ion Analyte	Result <50.2 <50.2 <50.2 <50.2 %Recovery 127 136 Chromatograp	Qualifier U U Qualifier S1+ hy - Soluble	RL         50.2         50.2         50.2         50.2         50.2         50.2         70.130         70.130		mg/Kg mg/Kg mg/Kg		09/08/23 15:26 09/08/23 15:26 09/08/23 15:26 <b>Prepared</b> 09/08/23 15:26 09/08/23 15:26	09/09/23 04:47 09/09/23 04:47 09/09/23 04:47 09/09/23 04:47 09/09/23 04:47 09/09/23 04:47	1 1 1 1 1 1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl Method: EPA 300.0 - Anions, Ion Analyte Chloride	Result           <50.2	Qualifier U U Qualifier S1+ hy - Soluble	RL           50.2           70.2           70.2 </td <td></td> <td>mg/Kg mg/Kg mg/Kg Unit</td> <td></td> <td>09/08/23 15:26 09/08/23 15:26 09/08/23 15:26 <b>Prepared</b> 09/08/23 15:26 09/08/23 15:26 <b>Prepared</b></td> <td>09/09/23 04:47 09/09/23 04:47 09/09/23 04:47 <b>Analyzed</b> 09/09/23 04:47 09/09/23 04:47 <b>Analyzed</b></td> <td>1 1 <i>Dil Fac</i> 1 1 1 Dil Fac</td>		mg/Kg mg/Kg mg/Kg Unit		09/08/23 15:26 09/08/23 15:26 09/08/23 15:26 <b>Prepared</b> 09/08/23 15:26 09/08/23 15:26 <b>Prepared</b>	09/09/23 04:47 09/09/23 04:47 09/09/23 04:47 <b>Analyzed</b> 09/09/23 04:47 09/09/23 04:47 <b>Analyzed</b>	1 1 <i>Dil Fac</i> 1 1 1 Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl Method: EPA 300.0 - Anions, Ion Analyte Chloride Elient Sample ID: S-7 (1.5')	Result           <50.2	Qualifier U U Qualifier S1+ hy - Soluble	RL           50.2           70.2           70.2 </td <td></td> <td>mg/Kg mg/Kg mg/Kg Unit</td> <td></td> <td>09/08/23 15:26 09/08/23 15:26 09/08/23 15:26 <b>Prepared</b> 09/08/23 15:26 09/08/23 15:26 <b>Prepared</b></td> <td>09/09/23 04:47 09/09/23 04:47 09/09/23 04:47 <b>Analyzed</b> 09/09/23 04:47 09/09/23 04:47 09/09/23 04:47 <b>Analyzed</b> 09/13/23 07:12 <b>ple ID: 880-3</b></td> <td>1 1 <i>Dil Fac</i> 1 Dil Fac 1 3030-2</td>		mg/Kg mg/Kg mg/Kg Unit		09/08/23 15:26 09/08/23 15:26 09/08/23 15:26 <b>Prepared</b> 09/08/23 15:26 09/08/23 15:26 <b>Prepared</b>	09/09/23 04:47 09/09/23 04:47 09/09/23 04:47 <b>Analyzed</b> 09/09/23 04:47 09/09/23 04:47 09/09/23 04:47 <b>Analyzed</b> 09/13/23 07:12 <b>ple ID: 880-3</b>	1 1 <i>Dil Fac</i> 1 Dil Fac 1 3030-2
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl Method: EPA 300.0 - Anions, Ion Analyte Chloride Hient Sample ID: S-7 (1.5') ate Collected: 09/07/23 00:00	Result           <50.2	Qualifier U U Qualifier S1+ hy - Soluble	RL           50.2           70.2           70.2 </td <td></td> <td>mg/Kg mg/Kg mg/Kg Unit</td> <td></td> <td>09/08/23 15:26 09/08/23 15:26 09/08/23 15:26 <b>Prepared</b> 09/08/23 15:26 09/08/23 15:26 <b>Prepared</b></td> <td>09/09/23 04:47 09/09/23 04:47 09/09/23 04:47 <b>Analyzed</b> 09/09/23 04:47 09/09/23 04:47 09/09/23 04:47 <b>Analyzed</b> 09/13/23 07:12 <b>ple ID: 880-3</b></td> <td>1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1</td>		mg/Kg mg/Kg mg/Kg Unit		09/08/23 15:26 09/08/23 15:26 09/08/23 15:26 <b>Prepared</b> 09/08/23 15:26 09/08/23 15:26 <b>Prepared</b>	09/09/23 04:47 09/09/23 04:47 09/09/23 04:47 <b>Analyzed</b> 09/09/23 04:47 09/09/23 04:47 09/09/23 04:47 <b>Analyzed</b> 09/13/23 07:12 <b>ple ID: 880-3</b>	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl Method: EPA 300.0 - Anions, Ion Analyte Chloride Chloride Chloride Chloride Chloride 1D: S-7 (1.5') ate Collected: 09/07/23 00:00 ate Received: 09/08/23 13:34	Result           <50.2	Qualifier U U Qualifier S1+ C Qualifier	RL           50.2           70.2           70.2 </td <td></td> <td>mg/Kg mg/Kg mg/Kg Unit</td> <td></td> <td>09/08/23 15:26 09/08/23 15:26 09/08/23 15:26 <b>Prepared</b> 09/08/23 15:26 09/08/23 15:26 <b>Prepared</b></td> <td>09/09/23 04:47 09/09/23 04:47 09/09/23 04:47 <b>Analyzed</b> 09/09/23 04:47 09/09/23 04:47 09/09/23 04:47 <b>Analyzed</b> 09/13/23 07:12 <b>ple ID: 880-3</b></td> <td>1 1 <i>Dil Fac</i> 1 Dil Fac 1 3030-2</td>		mg/Kg mg/Kg mg/Kg Unit		09/08/23 15:26 09/08/23 15:26 09/08/23 15:26 <b>Prepared</b> 09/08/23 15:26 09/08/23 15:26 <b>Prepared</b>	09/09/23 04:47 09/09/23 04:47 09/09/23 04:47 <b>Analyzed</b> 09/09/23 04:47 09/09/23 04:47 09/09/23 04:47 <b>Analyzed</b> 09/13/23 07:12 <b>ple ID: 880-3</b>	1 1 <i>Dil Fac</i> 1 Dil Fac 1 3030-2
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl Method: EPA 300.0 - Anions, Ion Analyte Chloride Ch	Result           <50.2	Qualifier U U Qualifier S1+ C Qualifier	RL           50.2           70.2           70.2 </td <td></td> <td>mg/Kg mg/Kg mg/Kg Unit mg/Kg</td> <td></td> <td>09/08/23 15:26 09/08/23 15:26 09/08/23 15:26 <b>Prepared</b> 09/08/23 15:26 09/08/23 15:26 <b>Prepared</b></td> <td>09/09/23 04:47 09/09/23 04:47 09/09/23 04:47 <b>Analyzed</b> 09/09/23 04:47 09/09/23 04:47 09/09/23 04:47 <b>Analyzed</b> 09/13/23 07:12 <b>ple ID: 880-3</b></td> <td>1 1 <i>Dil Fac</i> 1 1 1 Dil Fac</td>		mg/Kg mg/Kg mg/Kg Unit mg/Kg		09/08/23 15:26 09/08/23 15:26 09/08/23 15:26 <b>Prepared</b> 09/08/23 15:26 09/08/23 15:26 <b>Prepared</b>	09/09/23 04:47 09/09/23 04:47 09/09/23 04:47 <b>Analyzed</b> 09/09/23 04:47 09/09/23 04:47 09/09/23 04:47 <b>Analyzed</b> 09/13/23 07:12 <b>ple ID: 880-3</b>	1 1 <i>Dil Fac</i> 1 1 1 Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl Method: EPA 300.0 - Anions, Ion Analyte Chloride Client Sample ID: S-7 (1.5') Pate Collected: 09/07/23 00:00 Pate Received: 09/08/23 13:34 Method: SW846 8021B - Volatile Analyte Benzene	Result           <50.2	Qualifier U U Qualifier S1+ hy - Soluble Qualifier	RL         50.2         50.2         50.2         50.2         0.2         100         70 - 130         70 - 130         70 - 5.02	MDL	mg/Kg mg/Kg mg/Kg Unit mg/Kg	<u>D</u>	09/08/23 15:26 09/08/23 15:26 09/08/23 15:26 <b>Prepared</b> 09/08/23 15:26 09/08/23 15:26 <b>Prepared</b> Lab Sam	09/09/23 04:47 09/09/23 04:47 09/09/23 04:47 <i>Analyzed</i> 09/09/23 04:47 09/09/23 04:47 09/09/23 04:47 <u>Analyzed</u> 09/13/23 07:12 ple ID: 880-3 Matri	1 1 1 1 1 1 1 1 3030-2 x: Solid

m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg	09/08/23 13:56	09/09/23 02:07	1
o-Xylene	<0.00198	U	0.00198	mg/Kg	09/08/23 13:56	09/09/23 02:07	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg	09/08/23 13:56	09/09/23 02:07	1
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
Surrogate 4-Bromofluorobenzene (Surr)		Qualifier S1-	Limits		Prepared 09/08/23 13:56	Analyzed 09/09/23 02:07	Dil Fac
							<b>Dil Fac</b> 1 1

0.00198

mg/Kg

09/08/23 13:56

<0.00198 U

Eurofins Midland

09/09/23 02:07

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Job ID: 880-33030-1 SDG: Lea County NM

# Lab Sample ID: 880-33030-1

Matrix: Solid

5

9/13/2023

Ethylbenzene

1

Matrix: Solid

5

# **Client Sample Results**

Job ID: 880-33030-1 SDG: Lea County NM

Lab Sample ID: 880-33030-2

# Client Sample ID: S-7 (1.5')

Date Collected: 09/07/23 00:00 Date Received: 09/08/23 13:34

Client: Carmona Resources

Project/Site: Tonto 15 State #1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			09/11/23 13:03	1
Method: SW846 8015 NM - Diesel	Range Organ	ics (DRO) (	GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			09/11/23 10:03	1
Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.1	U	50.1		mg/Kg		09/08/23 15:26	09/09/23 05:08	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.1	U	50.1		mg/Kg		09/08/23 15:26	09/09/23 05:08	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		09/08/23 15:26	09/09/23 05:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	129		70 - 130				09/08/23 15:26	09/09/23 05:08	1
o-Terphenyl	141	S1+	70 - 130				09/08/23 15:26	09/09/23 05:08	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e						
Analyte	• •	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	67.6		4.99		mg/Kg			09/13/23 07:18	1

# Client Sample ID: S-7 (2')

Date Collected: 09/07/23 00:00 Date Received: 09/08/23 13:34

### Lab Sample ID: 880-33030-3 Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		09/08/23 13:56	09/09/23 03:32	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/08/23 13:56	09/09/23 03:32	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/08/23 13:56	09/09/23 03:32	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		09/08/23 13:56	09/09/23 03:32	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/08/23 13:56	09/09/23 03:32	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/08/23 13:56	09/09/23 03:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	73		70 - 130				09/08/23 13:56	09/09/23 03:32	1
1,4-Difluorobenzene (Surr)	97		70 - 130				09/08/23 13:56	09/09/23 03:32	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			09/11/23 13:03	1
Method: SW846 8015 NM - Dies	el Range Organ	ics (DRO) (G	SC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5		mg/Kg			09/11/23 10:03	1
Method: SW846 8015B NM - Die	esel Range Orga	nics (DRO)	(GC)						
	Beault	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte	Result	quannor							
Analyte Gasoline Range Organics	Kesuit <50.5		50.5		mg/Kg		09/08/23 15:26	09/09/23 05:29	1
Gasoline Range Organics					mg/Kg		09/08/23 15:26	09/09/23 05:29	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over		U			mg/Kg mg/Kg		09/08/23 15:26 09/08/23 15:26	09/09/23 05:29 09/09/23 05:29	1

**Eurofins Midland** 

# Released to Imaging: 11/6/2023 11:57:53 AM

# **Client Sample Results**

Client: Carmona Resources Project/Site: Tonto 15 State #1

### Client Sample ID: S-7 (2') Date Collected: 09/07/23 00:00

Date Received: 09/08/23 13:34

# Job ID: 880-33030-1 SDG: Lea County NM

# Lab Sample ID: 880-33030-3

Matrix: Solid

5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		09/08/23 15:26	09/09/23 05:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	125		70 - 130				09/08/23 15:26	09/09/23 05:29	1
o-Terphenyl	131	S1+	70 - 130				09/08/23 15:26	09/09/23 05:29	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	ohy - Solubl	e						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	86.4		4.99		mg/Kg			09/13/23 07:38	1

Eurofins Midland

Client: Carmona Resources Project/Site: Tonto 15 State #1

### Job ID: 880-33030-1 SDG: Lea County NM

Prep Type: Total/NA

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

Matrix: Solid

				Percent Surrogate Recovery (Acceptance Limits)	
		BFB1 (70-130)	DFBZ1 (70-130)		Ĩ
Lab Sample ID 880-32833-A-8-A MB	Client Sample ID Method Blank	(70-130) 65 S1-	101		4
880-33030-1	S-7 (0-1')	58 S1-	88		
880-33030-2	S-7 (1.5')	68 S1-	100		17
880-33030-3	S-7 (2')	73	97		
890-5210-A-1-A MS	Matrix Spike	113	113		
890-5210-A-1-B MSD	Matrix Spike Duplicate	110	96		
LCS 880-62082/1-A	Lab Control Sample	122	111		
LCSD 880-62082/2-A	Lab Control Sample Dup	110	113		
MB 880-62082/5-A	Method Blank	62 S1-	99		
Ourse sector Language					

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Sample ID	Client Sample ID	(70-130)	(70-130)	
30-1	S-7 (0-1')	127	136 S1+	
3030-2	S-7 (1.5')	129	141 S1+	
3030-3	S-7 (2')	125	131 S1+	
12-A-1-C MS	Matrix Spike	134 S1+	133 S1+	
12-A-1-D MSD	Matrix Spike Duplicate	133 S1+	130	
30-62105/2-A	Lab Control Sample	91	103	
880-62105/3-A	Lab Control Sample Dup	89	101	
80-62105/1-A	Method Blank	145 S1+	161 S1+	

#### Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

3

Prep Type: Total/NA

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

Lab Sample ID: 880-32833-A-8-A	МВ								Client Sa	mple ID: Metho	
Matrix: Solid										Prep Type:	
Analysis Batch: 62040	ME	B MB								Prep Batc	n: 62041
Analyte	Resul		RL	м	IDL	Unit	D	P	Prepared	Analyzed	Dil Fac
Benzene	<0.00200		0.00200			mg/Kg			08/23 08:55	09/08/23 17:11	1
Toluene	<0.00200		0.00200			mg/Kg			08/23 08:55	09/08/23 17:11	1
Ethylbenzene	<0.00200		0.00200			mg/Kg			08/23 08:55	09/08/23 17:11	1
m-Xylene & p-Xylene	<0.00400		0.00400			mg/Kg			08/23 08:55	09/08/23 17:11	1
o-Xylene	<0.00200		0.00200			mg/Kg			08/23 08:55	09/08/23 17:11	1
Xylenes, Total	< 0.00400		0.00400			mg/Kg			08/23 08:55	09/08/23 17:11	1
	-0.00100		0.00100			ing/itg		00/0	0,20 00.00	00/00/20 11:11	
	ME	B MB									
Surrogate	%Recovery	-	Limits					F	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	68	5 S1-	70 - 130					09/0	08/23 08:55	09/08/23 17:11	1
1,4-Difluorobenzene (Surr)	101	1	70 - 130					09/0	08/23 08:55	09/08/23 17:11	1
- Lab Sample ID: MR 990 62092/5 /									Client Se	male ID: Meth	ad Blank
Lab Sample ID: MB 880-62082/5-/ Matrix: Solid	•								Client Sa	mple ID: Metho	
										Prep Type:	
Analysis Batch: 62040	ME	8 MB								Prep Batc	n: 62062
Analyta			RL		IDL	Unit	D		ronorod	Apolyzod	Dil Fac
Analyte Benzene	Resul		0.00200		IDL	Unit			Prepared 08/23 11:01	Analyzed 09/08/23 22:40	1
						mg/Kg					1
	< 0.00200		0.00200			mg/Kg			08/23 11:01	09/08/23 22:40	1
Ethylbenzene	< 0.00200					mg/Kg			08/23 11:01	09/08/23 22:40	· · · · · · · ·
m-Xylene & p-Xylene	< 0.00400		0.00400			mg/Kg			08/23 11:01	09/08/23 22:40	1
o-Xylene	< 0.00200		0.00200			mg/Kg			08/23 11:01	09/08/23 22:40	1
Xylenes, Total	<0.00400	0	0.00400			mg/Kg		09/0	08/23 11:01	09/08/23 22:40	I
	ME	B MB									
Surrogate	%Recovery	Qualifier	Limits					F	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	62	2 S1-	70 - 130					09/0	08/23 11:01	09/08/23 22:40	1
1,4-Difluorobenzene (Surr)	99	9	70 - 130					09/0	08/23 11:01	09/08/23 22:40	1
 Lab Sample ID: LCS 880-62082/14								lion	t Samnle	ID: Lab Control	Sample
Matrix: Solid	~								Compie	Prep Type:	
Analysis Batch: 62040										Prep Batc	
Analysis Baton. 62040			Spike	LCS L	LCS					%Rec	
Analyte			Added	Result C		ifier Unit		D	%Rec	Limits	
Benzene			0.100	0.09941		mg/K	a		99	70 - 130	
Toluene			0.100	0.1014		mg/K			101	70 - 130	
Ethylbenzene			0.100	0.1016		mg/K			102	70 - 130	
m-Xylene & p-Xylene			0.200	0.2210		mg/K			111	70 - 130	
o-Xylene			0.100	0.1157		mg/K			116	70 - 130	
0-Xylene			0.100	0.1107		ing/it	9		110	10-100	
	LCS LC	s									
Surrogate	%Recovery Qu	alifier	Limits								
4-Bromofluorobenzene (Surr)	122		70 - 130								
1,4-Difluorobenzene (Surr)	111		70 - 130								
_ Lab Sample ID: LCSD 880-62082/	2-0						Clien	t San		ab Control Sam	
Matrix: Solid	2-M						onen	Jan	ipie iD. L	Prep Type:	
Analysis Batch: 62040			Sniko	LCSD L		n				Prep Batc %Rec	n: 62082 RPD
Analyta			Spike	Beault (				-	% Baa	%Rec	

5

7 8

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4

RPD

Analyte

Benzene

Result Qualifier

0.09561

Unit

mg/Kg

D

%Rec

96

Limits

70 - 130

Added

0.100

Limit

35

Client: Carmona Resources Project/Site: Tonto 15 State #1

Job ID: 880-33030-1 SDG: Lea County NM

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

Lab Sample ID: LCSD 880-6	2082/2-A					Clie	nt Sam	ple ID: I	Lab Contro		
Matrix: Solid										Type: To	
Analysis Batch: 62040			• "							Batch:	
Analista			Spike		LCSD	1114		0/ <b>D</b> = =	%Rec		RPD
Analyte			Added		Qualifier	Unit	D	%Rec	Limits	RPD	Limi
Toluene			0.100	0.09614		mg/Kg		96	70 - 130	5	35
Ethylbenzene			0.100	0.09614		mg/Kg		96	70 - 130	6	35
m-Xylene & p-Xylene			0.200	0.2067		mg/Kg		103	70 - 130	7	35
o-Xylene			0.100	0.1039		mg/Kg		104	70 - 130	11	35
	LCSD	LCSD									
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)			70 - 130								
1,4-Difluorobenzene (Surr)	113		70 - 130								
Lab Sample ID: 890-5210-A-	·1-A MS							Client	Sample ID		-
Matrix: Solid									Prep 1	Гуре: То	tal/NA
Analysis Batch: 62040									Prep	Batch:	62082
	Sample	Sample	Spike	MS	MS				%Rec		
Analyte		Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Benzene	<0.00199	U	0.0998	0.08017		mg/Kg		80	70 - 130		
Toluene	<0.00199	U	0.0998	0.08157		mg/Kg		82	70 - 130		
Ethylbenzene	<0.00199	U	0.0998	0.08150		mg/Kg		82	70 - 130		
m-Xylene & p-Xylene	<0.00398	U	0.200	0.1714		mg/Kg		86	70 - 130		
						mg/Kg		86	70 - 130		
o-Xylene	<0.00199	U	0.0998	0.08588		mg/Kg		00	70 - 130		
o-Xylene		U <b>MS</b>	0.0998	0.08588		mg/Kg		00	70 - 130		
o-Xylene Surrogate		MS	0.0998 <i>Limits</i>	0.08588		ing/Kg		00	70 - 130		
	MS	MS		0.08588		mg/Kg		00	70 - 130		
Surrogate	MS %Recovery	MS	Limits	0.08588		mg/Kg		00	70 - 130		
Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr)	MS %Recovery 	MS	Limits 70 - 130	0.08588							
Surrogate 4-Bromofluorobenzene (Surr)	MS %Recovery 	MS	Limits 70 - 130	0.08588			lient Sa		): Matrix Sp		
Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 890-5210-A- Matrix: Solid	MS %Recovery 	MS	Limits 70 - 130	0.08588			lient Sa		): Matrix Sp Prep 1	Гуре: То	tal/NA
Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 890-5210-A-	MS <u>%Recovery</u> 113 113 -1-B MSD	MS	Limits 70 - 130		MSD		lient Sa		): Matrix Sp Prep 1		tal/NA
Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 890-5210-A- Matrix: Solid	MS <u>%Recovery</u> 113 113 -1-B MSD Sample	MS Qualifier	Limits 70 - 130 70 - 130	MSD	MSD Qualifier		lient Sa		): Matrix Sp Prep 1 Prep	Гуре: То	tal/NA 62082

Benzene	<0.00199	U	0.100	0.08514	mg/Kg	85	70 - 130	6	35
Toluene	<0.00199	U	0.100	0.08931	mg/Kg	89	70 - 130	9	35
Ethylbenzene	<0.00199	U	0.100	0.08778	mg/Kg	88	70 - 130	7	35
m-Xylene & p-Xylene	<0.00398	U	0.200	0.1806	mg/Kg	90	70 - 130	5	35
o-Xylene	<0.00199	U	0.100	0.09035	mg/Kg	90	70 - 130	5	35
	MSD	MSD							
Surrogate	%Recovery	Qualifier	Limits						
4-Bromofluorobenzene (Surr)	110		70 - 130						

70 - 130

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

96

Lab Sample ID: MB 880-62105/1-A Matrix: Solid Analysis Batch: 62028		мв					Client Sa	mple ID: Metho Prep Type: <sup>-</sup> Prep Batcl	Total/NA
Analyte Gasoline Range Organics	Result <50.0	Qualifier	RL 50.0	MDL	Unit mg/Kg	<u> </u>	Prepared 09/08/23 15:26	Analyzed	Dil Fac
(GRO)-C6-C10	-50.0	0	00.0		iiig/itg		03/00/23 13.20	09/00/23 20:37	1

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1,4-Difluorobenzene (Surr)

Client: Carmona Resources Project/Site: Tonto 15 State #1

### Job ID: 880-33030-1 SDG: Lea County NM

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

Lab Sample ID: MB 880-62105/	1 <b>-A</b>									Client Sa	mple ID: M		
Matrix: Solid											Prep Ty		
Analysis Batch: 62028											Prep	Batch	: 62105
		BMB						_	_				
Analyte		lt Qualifier			MDL	Unit		D		repared	Analyze		Dil Fac
Diesel Range Organics (Over	<50.	.0 U	50.0			mg/K	g		09/0	8/23 15:26	09/08/23 2	0:37	1
C10-C28) Oll Range Organics (Over C28-C36)	<50	.0 U	50.0			mg/K	a		00/0	8/23 15:26	09/08/23 2	0.37	1
On Range Organics (Over 020-000)	-50.	.0 0	50.0			ing/it	9		03/0	0/20 10.20	03/00/23 2	0.07	'
	М	B MB											
Surrogate	%Recover	ry Qualifier	Limits						P	repared	Analyze	ed	Dil Fac
1-Chlorooctane	14	15 S1+	70 - 130					-	09/0	8/23 15:26	09/08/23 2	20:37	1
o-Terphenyl	16	61 S1+	70 - 130						09/0	8/23 15:26	09/08/23 2	20:37	1
Lab Sample ID: LCS 880-6210	5/2-A							С	lient	Sample	ID: Lab Co	ntrol	Sample
Matrix: Solid											Prep Ty		
Analysis Batch: 62028													: 62105
			Spike	LCS	LCS						%Rec		
Analyte			Added	Result			Unit		D	%Rec	Limits		
Gasoline Range Organics			1000	1157			mg/Kg		_	116	70 - 130		
(GRO)-C6-C10							5 5						
Diesel Range Organics (Over			1000	1011			mg/Kg			101	70 - 130		
C10-C28)													
	LCS LC	cs											
Surrogate	%Recovery Q	ualifier	Limits										
1-Chlorooctane	91		70 - 130										
o-Terphenyl	103		70 - 130										
Matrix: Solid Analysis Batch: 62028			Spike	LCSD	LCS	D					Prep Ty Prep %Rec		otal/NA : 62105 RPE
Analyte			Added	Result	Qual	lifier	Unit		D	%Rec	Limits	RPD	Limit
Gasoline Range Organics			1000	1080			mg/Kg		_	108	70 - 130	7	20
(GRO)-C6-C10													
Diesel Range Organics (Over			1000	947.1			mg/Kg			95	70 - 130	7	20
C10-C28)													
	LCSD LC	CSD											
Surrogate	%Recovery Q	ualifier	Limits										
1-Chlorooctane	89		70 - 130										
o-Terphenyl	101		70 - 130										
Lab Sample ID: 890-5212-A-1-0	CMS									Client 9	Sample ID:	Matri	x Snike
Matrix: Solid										Cheffit C	Prep Ty		
Analysis Batch: 62028													: 62105
Analysis Buton. 02020	Sample Sa	mple	Spike	MS	MS						%Rec	Sucon	. 02100
Analyte	Result Q	-	Added	Result		lifier	Unit		D	%Rec	Limits		
Gasoline Range Organics	<49.6 U		1010	971.0			mg/Kg		_	95	70 - 130		
(GRO)-C6-C10			-	-			5. 5						
Diesel Range Organics (Over C10-C28)	63.7		1010	1106			mg/Kg			104	70 - 130		
	MS M	s											
Surrogate	%Recovery Q		Limits										
1-Chlorooctane	134 St		70 - 130										

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o-Terphenyl

70 - 130

133 S1+

Client: Carmona Resources Project/Site: Tonto 15 State #1

Job ID: 880-33030-1 SDG: Lea County NM

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

Matrix: Solid	1-D MSD							- C.	): Matrix Sp Prep 1	Гуре: То	tal/N
Analysis Batch: 62028										Batch:	
	Sample	Sample	Spike	MSD	MSD				%Rec	Batom	RPI
Analyte	-	Qualifier	Added		Qualifier	Unit	D	%Rec	Limits	RPD	Limi
Gasoline Range Organics	<49.6		1010	956.7	duamor	mg/Kg		94	70 - 130	1	2
(GRO)-C6-C10	10.0	0	1010	000.1		iiig/itg		01	10-100	•	-
Diesel Range Organics (Over C10-C28)	63.7		1010	1099		mg/Kg		103	70 - 130	1	2
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	133	<u>S1+</u>	70 - 130								
o-Terphenyl	130		70 - 130								
lethod: 300.0 - Anions, I Lab Sample ID: MB 880-6215 Matrix: Solid Analysis Batch: 62337								Client S	Sample ID: Prep	Method Type: S	
	_	MB MB					_			_	
Analyte		esult Qualifier			MDL Unit		р <u>Р</u>	repared	Analyz		Dil Fa
Chloride	<	5.00 U	ł	5.00	mg/K	g			09/13/23	04:58	
	54/2-A						Client	Sample	ID: Lab Co Prep	Type: S	
Matrix: Solid Analysis Batch: 62337	54/2-A		Spike		LCS	11-14			Prep %Rec		
Matrix: Solid Analysis Batch: 62337 <sup>Analyte</sup>			Added	Result	LCS Qualifier	Unit ma/Ka		%Rec	Prep %Rec Limits		
Matrix: Solid Analysis Batch: 62337 <sup>Analyte</sup>						Unit mg/Kg			Prep %Rec		
Matrix: Solid Analysis Batch: 62337 Analyte Chloride			Added	Result		mg/Kg	<u>D</u>	<b>%Rec</b> 99	Prep %Rec Limits 90 - 110	Type: S	olub
Matrix: Solid Analysis Batch: 62337 Analyte Chloride Lab Sample ID: LCSD 880-62			Added	Result		mg/Kg	<u>D</u>	<b>%Rec</b> 99	Prep %Rec Limits 90 - 110	Type: S	olub le Du
Matrix: Solid Analysis Batch: 62337 Analyte Chloride Lab Sample ID: LCSD 880-62 Matrix: Solid			Added	Result		mg/Kg	<u>D</u>	<b>%Rec</b> 99	Prep %Rec Limits 90 - 110	Type: S	olub le Du
Matrix: Solid Analysis Batch: 62337 Analyte Chloride Lab Sample ID: LCSD 880-62 Matrix: Solid			Added	Result 247.0		mg/Kg	<u>D</u>	<b>%Rec</b> 99	Prep %Rec Limits 90 - 110	Type: S	olub le Du olub
Matrix: Solid Analysis Batch: 62337 Analyte Chloride Lab Sample ID: LCSD 880-62 Matrix: Solid Analysis Batch: 62337			Added	Result 247.0 LCSD	Qualifier	mg/Kg	<u>D</u>	<b>%Rec</b> 99	Prep %Rec Limits 90 - 110 Lab Contro Prep	Type: S	olub le Du olub RP
Matrix: Solid Analysis Batch: 62337 Analyte Chloride Lab Sample ID: LCSD 880-62 Matrix: Solid Analysis Batch: 62337 Analyte			Added 250 Spike	Result 247.0 LCSD	Qualifier	mg/Kg Clier	D_ nt Sam	%Rec 99	Prep %Rec Limits 90 - 110 Lab Contro Prep %Rec	Type: S	olub le Du olub RF Lin
Matrix: Solid Analysis Batch: 62337 Analyte Chloride Lab Sample ID: LCSD 880-62 Matrix: Solid Analysis Batch: 62337 Analyte Chloride Lab Sample ID: 880-33015-A Matrix: Solid	 2154/3-A 		Added 250 Spike Added	Result 247.0 LCSD Result	Qualifier	mg/Kg Clier Unit	D_ nt Sam	%Rec 99 pple ID: I %Rec 99	Prep %Rec Limits 90 - 110 Lab Contro Prep %Rec Limits 90 - 110 Sample ID	Type: S 	olub le Du olub RF Lim Spik
Matrix: Solid Analysis Batch: 62337 Analyte Chloride Lab Sample ID: LCSD 880-62 Matrix: Solid Analysis Batch: 62337 Analyte Chloride Lab Sample ID: 880-33015-A Matrix: Solid	 2154/3-A 		Added 250 Spike Added	Result 247.0 LCSD Result 247.1	Qualifier	mg/Kg Clier Unit	D_ nt Sam	%Rec 99 pple ID: I %Rec 99	Prep %Rec Limits 90 - 110 Lab Contro Prep %Rec Limits 90 - 110 Sample ID	Type: S Type: S Sampl Type: S RPD 0 : Matrix	olub le Du olub RF Lim 2 Spik
Lab Sample ID: LCS 880-621 Matrix: Solid Analysis Batch: 62337 Analyte Chloride Lab Sample ID: LCSD 880-62 Matrix: Solid Analysis Batch: 62337 Analyte Chloride Lab Sample ID: 880-33015-A Matrix: Solid Analysis Batch: 62337 Analyte	2154/3-A 	Sample Qualifier	Added 250 Spike Added 250	Result 247.0 LCSD Result 247.1	Qualifier LCSD Qualifier	mg/Kg Clier Unit	D_ nt Sam	%Rec 99 pple ID: I %Rec 99	Prep %Rec Limits 90 - 110 Lab Contro Prep %Rec Limits 90 - 110 Sample ID Prep	Type: S Type: S Sampl Type: S RPD 0 : Matrix	olubi le Du olubi RP Lim 2 Spik
Matrix: Solid Analysis Batch: 62337 Analyte Chloride Lab Sample ID: LCSD 880-62 Matrix: Solid Analysis Batch: 62337 Analyte Chloride Lab Sample ID: 880-33015-A Matrix: Solid Analysis Batch: 62337 Analyte	2154/3-A 	Qualifier	Added 250 Spike Added 250 Spike	Result 247.0 LCSD Result 247.1	Qualifier LCSD Qualifier MS	mg/Kg Clien Unit mg/Kg	D	%Rec 99 mple ID: I %Rec 99 Client	Prep %Rec Limits 90 - 110 Lab Contro Prep %Rec Limits 90 - 110 Sample ID Prep %Rec	Type: S Type: S Sampl Type: S RPD 0 : Matrix	olub le Du olub RF Lin Spik
Matrix: Solid Analysis Batch: 62337 Analyte Chloride Lab Sample ID: LCSD 880-62 Matrix: Solid Analysis Batch: 62337 Analyte Chloride Lab Sample ID: 880-33015-A Matrix: Solid Analysis Batch: 62337	2154/3-A -10-D MS 	Qualifier F1	Added 250 Spike Added 250 Spike Added 251	Result           247.0           LCSD           Result           247.1           MS           Result           405.4	Qualifier LCSD Qualifier MS Qualifier	mg/Kg       Clien       Unit       mg/Kg	D	%Rec           99           ople ID: I           %Rec           99           Client           %Rec           109	Prep %Rec Limits 90 - 110 Lab Contro Prep %Rec Limits 90 - 110 Sample ID Prep %Rec Limits 90 - 110 0: Matrix Sp Prep	Type: S OI Sampl Type: S RPD 0 : Matrix Type: S	olub le Du olub Rr Lin Spik olub
Matrix: Solid Analysis Batch: 62337 Analyte Chloride Lab Sample ID: LCSD 880-62 Matrix: Solid Analysis Batch: 62337 Analyte Chloride Lab Sample ID: 880-33015-A Matrix: Solid Analysis Batch: 62337 Analyte Chloride Lab Sample ID: 880-33015-A Matrix: Solid	2154/3-A -10-D MS - Sample - Result 132 -10-E MSD Sample	Qualifier F1	Added 250 Spike Added 250 Spike Added	Result 247.0 LCSD Result 247.1 MS Result 405.4	Qualifier LCSD Qualifier MS	mg/Kg       Clien       Unit       mg/Kg	D	%Rec           99           ople ID: I           %Rec           99           Client           %Rec           109	Prep %Rec Limits 90 - 110 Lab Contro Prep %Rec Limits 90 - 110 Sample ID Prep %Rec Limits 90 - 110	Type: S Type: S Sampl Type: S RPD 0 Matrix Type: S Dike Dup	elub ele Du olub RP Linr Spik olub

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# **QC Association Summary**

Client: Carmona Resources Project/Site: Tonto 15 State #1

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Job ID: 880-33030-1 SDG: Lea County NM

# **GC VOA**

#### Analysis Batch: 62040

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33030-1	S-7 (0-1')	Total/NA	Solid	8021B	62082
880-33030-2	S-7 (1.5')	Total/NA	Solid	8021B	62082
880-33030-3	S-7 (2')	Total/NA	Solid	8021B	62082
880-32833-A-8-A MB	Method Blank	Total/NA	Solid	8021B	62041
MB 880-62082/5-A	Method Blank	Total/NA	Solid	8021B	62082
LCS 880-62082/1-A	Lab Control Sample	Total/NA	Solid	8021B	62082
LCSD 880-62082/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	62082
890-5210-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	62082
890-5210-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	62082

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32833-A-8-A MB	Method Blank	Total/NA	Solid	5030B	

#### Prep Batch: 62082

LCSD 000-02002/2-A	Lab Control Sample Dup	TOtal/NA	30lid	0021B	62062	
890-5210-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	62082	8
890-5210-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	62082	
Prep Batch: 62041						9
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch	10
880-32833-A-8-A MB	Method Blank	Total/NA	Solid	5030B		
Prep Batch: 62082						11
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch	12
880-33030-1	S-7 (0-1')	Total/NA	Solid	5035		
880-33030-2	S-7 (1.5')	Total/NA	Solid	5035		4.0
880-33030-3	S-7 (2')	Total/NA	Solid	5035		13
MB 880-62082/5-A	Method Blank	Total/NA	Solid	5035		
LCS 880-62082/1-A	Lab Control Sample	Total/NA	Solid	5035		14
				5005		
LCSD 880-62082/2-A	Lab Control Sample Dup	Total/NA	Solid	5035		
LCSD 880-62082/2-A 890-5210-A-1-A MS	Lab Control Sample Dup Matrix Spike	Total/NA Total/NA	Solid Solid	5035 5035		

#### Analysis Batch: 62183

Lab Sample ID Client Sample ID Prep Type	Matrix	Method	Prep Batch
880-33030-1         S-7 (0-1')         Total/NA	Solid	Total BTEX	
880-33030-2 S-7 (1.5') Total/NA	Solid	Total BTEX	
880-33030-3 S-7 (2') Total/NA	Solid	Total BTEX	

### GC Semi VOA

#### Analysis Batch: 62028

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
880-33030-1	S-7 (0-1')	Total/NA	Solid	8015B NM	62105
880-33030-2	S-7 (1.5')	Total/NA	Solid	8015B NM	62105
880-33030-3	S-7 (2')	Total/NA	Solid	8015B NM	62105
MB 880-62105/1-A	Method Blank	Total/NA	Solid	8015B NM	62105
LCS 880-62105/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	62105
LCSD 880-62105/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	62105
890-5212-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	62105
890-5212-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	62105

#### Prep Batch: 62105

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33030-1	S-7 (0-1')	Total/NA	Solid	8015NM Prep	
880-33030-2	S-7 (1.5')	Total/NA	Solid	8015NM Prep	
880-33030-3	S-7 (2')	Total/NA	Solid	8015NM Prep	
MB 880-62105/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-62105/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	

Eurofins Midland

# **QC Association Summary**

Client: Carmona Resources Project/Site: Tonto 15 State #1

# GC Semi VOA (Continued)

### Prep Batch: 62105 (Continued)

Lab Sample ID LCSD 880-62105/3-A	Client Sample ID Lab Control Sample Dup	Prep Type Total/NA	Matrix Solid	Method 8015NM Prep	Prep Batch
890-5212-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-5212-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	
Analysis Batch: 62149					

Lab Sample ID 880-33030-1	Client Sample ID S-7 (0-1')	Prep Type Total/NA	Matrix Solid	Method 8015 NM	Prep Batch
880-33030-2	S-7 (1.5')	Total/NA	Solid	8015 NM	
880-33030-3	S-7 (2')	Total/NA	Solid	8015 NM	

#### HPLC/IC

#### Leach Batch: 62154

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33030-1	S-7 (0-1')	Soluble	Solid	DI Leach	
880-33030-2	S-7 (1.5')	Soluble	Solid	DI Leach	
880-33030-3	S-7 (2')	Soluble	Solid	DI Leach	
MB 880-62154/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-62154/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
_CSD 880-62154/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-33015-A-10-D MS	Matrix Spike	Soluble	Solid	DI Leach	
880-33015-A-10-E MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

#### Analysis Batch: 62337

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33030-1	S-7 (0-1')	Soluble	Solid	300.0	62154
880-33030-2	S-7 (1.5')	Soluble	Solid	300.0	62154
880-33030-3	S-7 (2')	Soluble	Solid	300.0	62154
MB 880-62154/1-A	Method Blank	Soluble	Solid	300.0	62154
LCS 880-62154/2-A	Lab Control Sample	Soluble	Solid	300.0	62154
LCSD 880-62154/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	62154
880-33015-A-10-D MS	Matrix Spike	Soluble	Solid	300.0	62154
880-33015-A-10-E MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	62154

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8

Job ID: 880-33030-1

SDG: Lea County NM

Client: Carmona Resources Project/Site: Tonto 15 State #1

Client Sample ID: S-7 (0-1')

Batch

Туре

Prep

Analysis

Analysis

Analysis

Analysis

Analysis

Leach

Prep

Batch

Method

5035

8021B

Total BTEX

8015NM Prep

8015B NM

DI Leach

300.0

8015 NM

Date Collected: 09/07/23 00:00

Date Received: 09/08/23 13:34

Prep Type

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Soluble

Soluble

Initial

Amount

5.00 g

5 mL

9.97 g

1 uL

4.98 g

Final

Amount

5 mL

5 mL

10 mL

1 uL

50 mL

Batch

62082

62040

62183

62149

62105

62028

62154

62337

Number

Dil

1

1

1

1

1

Factor

Run

Job ID: 880-33030-1 SDG: Lea County NM

# Lab Sample ID: 880-33030-1

Analyst

MNR

MNR

SM

SM

ткс

SM

AG

СН

Prepared

or Analyzed

09/08/23 13:56

09/09/23 01:47

09/11/23 13:03

09/11/23 10:03

09/08/23 15:26

09/09/23 04:47

09/11/23 10:21

09/13/23 07:12

Matrix: Solid

Lab

EET MID

EET MID

EET MID

EET MID

EET MID

EET MID

FFT MID

EET MID

Matrix: Solid

#### Lab Sample ID: 880-33030-2 Matrix: Solid

Lab Sample ID: 880-33030-3

rix: Solid

#### Client Sample ID: S-7 (1.5') Date Collected: 09/07/23 00:00 Date Received: 09/08/23 13:34

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	62082	09/08/23 13:56	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62040	09/09/23 02:07	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62183	09/11/23 13:03	SM	EET MID
Total/NA	Analysis	8015 NM		1			62149	09/11/23 10:03	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	62105	09/08/23 15:26	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62028	09/09/23 05:08	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	62154	09/11/23 10:21	AG	EET MID
Soluble	Analysis	300.0		1			62337	09/13/23 07:18	СН	EET MID

#### Client Sample ID: S-7 (2') Date Collected: 09/07/23 00:00 Date Received: 09/08/23 13:34

#### Batch Batch Dil Initial Final Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Prep Total/NA 5035 4.98 g 5 mL 62082 09/08/23 13:56 MNR EET MID Total/NA Analysis 8021B 5 mL 5 mL 62040 09/09/23 03:32 MNR EET MID 1 Total/NA Total BTEX 62183 09/11/23 13:03 SM EET MID Analysis 1 Total/NA Analysis 8015 NM 1 62149 09/11/23 10:03 SM EET MID 9.91 g EET MID Total/NA Prep 8015NM Prep 10 ml 62105 09/08/23 15:26 TKC Total/NA 8015B NM 62028 09/09/23 05:29 EET MID Analysis 1 1 uL 1 uL SM Soluble **DI Leach** 5.01 g 50 mL 62154 09/11/23 10:21 AG EET MID Leach Soluble Analysis 300.0 62337 09/13/23 07:38 СН EET MID 1

#### Laboratory References:

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

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# Accreditation/Certification Summary

Client: Carmona Resources Project/Site: Tonto 15 State #1 Job ID: 880-33030-1 SDG: Lea County NM

#### Laboratory: Eurofins Midland

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

Ithority	Pi	rogram	Identification Number	Expiration Date
xas	N	ELAP	T104704400-23-26	06-30-24
The following analytes	are included in this report, bi	ut the laboratory is not certif	ied by the governing authority. This list ma	ay include analytes for v
the agency does not o		Matrix	Δnalvte	
the agency does not of Analysis Method 8015 NM	fer certification. Prep Method	Matrix Solid	Analyte Total TPH	

Eurofins Midland

# **Method Summary**

Client: Carmona Resources Project/Site: Tonto 15 State #1

Job ID: 880-33030-1 SDG: Lea County NM

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 Refe	rences:		
ASTM = A	STM International		
EPA = US	Environmental Protection Agency		
SW846 =	"Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Ed	ition, November 1986 And Its Updates.	
TAL SOP	= TestAmerica Laboratories, Standard Operating Procedure		
Laboratory R	eferences:		
EET MID :	= Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440		

#### Laboratory References:

Eurofins Midland

Released to Imaging: 11/6/2023 11:57:53 AM

# Sample Summary

Client: Carmona Resources Project/Site: Tonto 15 State #1 Job ID: 880-33030-1 SDG: Lea County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-33030-1	S-7 (0-1')	Solid	09/07/23 00:00	09/08/23 13:34
880-33030-2	S-7 (1.5')	Solid	09/07/23 00:00	09/08/23 13:34
880-33030-3	S-7 (2')	Solid	09/07/23 00:00	09/08/23 13:34

٢	Real Proved						Comments: Email results to Mike Carmona mcarmona@carmonaresources.com, Conner Moehring cmoehring@carmonaresources.com, Clint Merritt MerrittC@carmonaresources.com					S-7 (2')	S-7 (1 5)	S-7 (0-1')	Sample Identification	Total Containers.	Sample Custody Seals.	Cooler Custody Seals.	Received Intact:	SAMPLE RECEIPT	PO#	Sampler's Name:	Project Location	Project Number	Project Name:	Phone.	City, State ZIP	Address.	Company Name	Project Manager (	
				Re			results to Mike					)	5,	[])	fication		Yes No	Yes No	tes No	T Temp Blank.			Lea Co		Ton		Midland, TX 79701	310 W Wall St Ste 500	Carmona Resources	Clinton Merritt	
				Relinquished by			Carmona mo					9/7/2023	9/7/2023	9/7/2023	Date		( N/A )	MIA		Blank.		CCM	Lea County, New Mexico	2089	Tonto 15 State #1		Ē	e 500	ces		
				<ul> <li>(Signature)</li> </ul>			carmona@car								Time	Corrected Temperature	Temperature Reading	Correction Factor	Thermometer ID	Yes No			exico								
							monaresourc					×	×	×	Soil	erature	ading	-		Wet Ice			Due Date	✓ Routine	Turn	Email					
							es.com, Con					9	G	9	Water Comp	1-27	- 2 H	0.	124				5 day	Rush	Turn Around	Email msanjari@marathonoil.com	City, State ZIP	Address.	Company Name	Bill to: (if different)	
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		P-23		Date/Time			ng cmoe			 		×	×	×					802							Î	Houston	990 Tow	Marathor	Melodie Sanjari	
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							armona																							Work Order Comments	
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		4					es.com								Sample	OH+Ascort	Zn Acetate+NaOH Zn	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> NaSO <sub>3</sub>	NaHSO4 NABIS	H <sub>3</sub> PO <sub>4</sub> HP	H,S0, H,	HCL. HC	Cool Cool	None NO	Preserv	l Other			ds RRC	iments	Page
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9/13/2023



Job Number: 880-33030-1 SDG Number: Lea County NM

List Source: Eurofins Midland

# Login Sample Receipt Checklist

Client: Carmona Resources

# Login Number: 33030 List Number: 1

<6mm (1/4").

Creator:	Kramer, J	lessica
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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	N/A	

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

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

District III

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

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

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

CONDITIONS

Operator:	OGRID:
MARATHON OIL PERMIAN LLC	372098
990 Town & Country Blvd.	Action Number:
Houston, TX 77024	267580
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By		Condition Date
bhall	Closure approved per conditions of the remediation report approved 7/25/2018.	11/6/2023

Action 267580