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

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Submit to appropriate OCD District office

Incident ID	nAB182233389
District RP	2RP4725
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party Marathon Oil Permian	OGRID 372098
Contact Name Callie Karrigan	Contact Telephone 405-202-1028 (cell) 575-297-0956 (office)
Contact email cnkarrigan@marathonoil.com	Incident # (assigned by OCD)
Contact mailing address 5555 San Felipe St, Houston Texas 77056	

Location of Release Source

Latitude 32.2985

Longitude -104.2086 (NAD 83 in decimal degrees to 5 decimal places)

Site Name Sterling 20 State 1H	Site Type Oil and Gas Production Facilities
Date Release Discovered 4/17/2018	API# (if applicable) 30-015-42731

Unit Letter	Section	Township	Range	County
0	17	23S	27E	Eddy

Surface Owner: State Federal Tribal Private (Name:

Nature and Volume of Release

Material	(s) Released (Select all that apply and attach calculations or specific	justification for the volumes provided below)
Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
Produced Water	Volume Released (bbls) 5.18	Volume Recovered (bbls) 4.5
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	Yes No
Condensate	Volume Released (bbls)	Volume Recovered (bbls)
Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
Cause of Release		

Flowback Operator reported that the free water knock out (FWKO) lost supply gas, not allowing the vessel to dump fluids. The FWKO high leveled and

traveled down the flare line, sending fluids out the flare and an overspray. Fluid also released from the back pressure valve on the FWKO inside

containment, releasing an estimated 3.50 barrels. Overspray traveled from the flare on and off location

Page 2

Incident ID	nAB1812233389
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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 no	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

 \square 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:HES Professional
Signature: _ <u>Callie Karrigan</u>	Date: <u>1/24/2019</u>
email:cnkarrigan@marathonoil.com	Telephone:575-297-0956
OCD Only	
Received by:	Date:

Received by OCD: 10/5/2023 9:17:38 AM Form C-141 State of New Mexico

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Oil Conservation Division

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Incident ID	nAB1812233389
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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.

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>75</u> (ft bgs)
Did this release impact groundwater or surface water?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	🗌 Yes 🛛 No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	🗌 Yes 🛛 No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	🗌 Yes 🛛 No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	🗌 Yes 🛛 No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of a wetland?	🗌 Yes 🛛 No
Are the lateral extents of the release overlying a subsurface mine?	🗌 Yes 🛛 No
Are the lateral extents of the release overlying an unstable area such as karst geology?	5
Are the lateral extents of the release within a 100-year floodplain?	🗌 Yes 🛛 No
Did the release impact areas not on an exploration, development, production, or storage site?	🗌 Yes 🔀 No

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

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

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Field data
- Data table of soil contaminant concentration data
- \boxtimes Depth to water determination
- Determination of water sources and significant watercourses within ¹/₂-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.

Received by OCD: 10/5/2023 9:1	7:38 AM			Page 4 of 2 24
F01111 C-141	State of New Mexico		Incident ID	nAB1812233389
Page 4	Oil Conservation Division		District RP	2RP-4725
			Facility ID	
			Application ID	
I hereby certify that the information regulations all operators are require public health or the environment. T failed to adequately investigate and addition, OCD acceptance of a C-14 and/or regulations. Printed Name:Melodie Sanja Signature: Melodie Sanja email:msanjari@marathono	ri Tit ari	est of my knowledge a cations and perform c CD does not relieve th to groundwater, surfa esponsibility for comp tle:HES Profe D Telephone:57	and understand that purs orrective actions for rele e operator of liability sha ace water, human health liance with any other fea essional ate:6/20/2023 5-988-8752	uant to OCD rules and ases which may endanger ould their operations have or the environment. In deral, state, or local laws
Received by: <u>Jocelyn Har</u>	imon	Date:0	6/26/2023	

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Deferral not approved 06/26/2023 Jocelyn Harimon

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122. Labs p. 202.

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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 Sanjavi</u> Date 10/5/2023 email: msanjari@marathonoil.com Telephone: <u>575-988-8753</u> **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: Ashley Maxwell Date: 10/06/2023
Printed Name: Ashley Maxwell Title: Force to the second secon Printed Name: _____Ashley Maxwell Title: __Environmental Specialist J/ Harimon requested additional sample at L8 for 1' bgs for TPH only. Addtl. Samples p. 113. Lab table on p.

From:	Maxwell, Ashley, EMNRD
To:	Sanjari, Melodie (MRO)
Subject:	RE: [External] The Oil Conservation Division (OCD) has rejected the application, Application ID: 230831
Date:	Monday, September 25, 2023 7:13:03 AM

This Message Is From an External Sender - Beware of links/attachments.

Report Suspicious

Good Morning Mel,

Jocelyn is no longer with the OCD. She moved on the NMED. Please submit the samples via the OCD portal and I will keep an eye out for the submission.

Thanks! Ashley

Ashley Maxwell • Environmental Specialist Environmental Bureau Projects Group EMNRD - Oil Conservation Division 1000 Rio Brazos Road | Aztec, NM 87110 505.635.5000 | Ashley.Maxwell@emnrd.nm.gov http://www.emnrd.state.nm.us/OCD/

From: Harimon, Jocelyn, EMNRD <Jocelyn.Harimon@emnrd.nm.gov>
Sent: Sunday, September 24, 2023 10:59 PM
To: Maxwell, Ashley, EMNRD <Ashley.Maxwell@emnrd.nm.gov>
Subject: Fwd: [External] The Oil Conservation Division (OCD) has rejected the application, Application ID: 230831

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From: Sanjari, Melodie (MRO) <<u>msanjari@marathonoil.com</u>
Sent: Wednesday, September 20, 2023 1:59:18 PM
To: Harimon, Jocelyn, EMNRD <<u>Jocelyn.Harimon@emnrd.nm.gov</u>
Subject: RE: [External] The Oil Conservation Division (OCD) has rejected the application, Application ID: 230831

Hey there Jocelyn,

We have collected and analyzed the additional sample you required for incident nAB1812233389, L8 at 1 foot bgs for TPH. Would you like me resubmit via the portal or am I able to provide it via email?

Thanks!



Souder, Miller & Associates•201 S. Halagueno St.•Carlsbad, NM 88220 (575) 689-8801

nAB1812233389

January 24, 2019

#5E27499-BG4

NMOCD District 2 Mr. Mike Bratcher 811 S. First St. Artesia, New Mexico 88210

SUBJECT: REMEDIATION Deferral REPORT FOR THE STERLING 20 STATE 1H RELEASE (2RP-4725), CARLSBAD, NEW MEXICO

Dear Mr. Bratcher:

On behalf of Marathon Oil Permian LLC (Marathon), Souder, Miller & Associates (SMA) has prepared this Remediation Deferral Report that describes the remediation of a release of liquids related to oil and gas production activities at the Sterling 20 State 1H site. The site is in Unit O, Section 17, Township 23S, Range 27E, Eddy County, New Mexico, on State land. Figure 1 illustrates the vicinity and site location on an USGS 7.5-minute quadrangle map.

Table 1: Release Information and Closure Criteria							
Name	Sterling 20 State 1H	Company	Marathon Oil Permian, LLC				
API Number	30-015-42731	32.29810545° -104.20840165°					
Incident Number		2RP-4725					
Estimated Date of Release	04/17/2018 Date Reported to NMOCD 04/17/2018						
Land Owner	State	Reported To	NMOCD District 2, NMSLO				
Source of Release	Flare						
Released Volume	5.18 bbls	Released Material	Produced Water				
Recovered Volume	4.50 bbls	Net Release	0.68				
NMOCD Closure Criteria	51-100 feet to groundwater Area now mapped as high Karst Potential - OCD requires <50 criteria.						
SMA Response Dates	July 06, August 2, September 26 & 28, and October 1. 2018						

Table 1 summarizes release information and Closure Criteria.

1.0 Background

On April 17, 2018, a free water knock out (FWKO) lost supply, which caused an accumulation of fluids that ultimately traveled down the flare line resulting in a release of fluids from the flair and causing overspray. Fluid was also released from the back-pressure valve on the FWKO inside the containment releasing an estimated 3.5 bbl. Overspray from the flare traveled on and off location. Standing fluids in containment were recovered via vac truck. Absorbent material was used to recover excess fluids and the containment liner was washed. The liner integrity was inspected with no damage or breach of the liner found. The area of the overspray was surface scraped to six (6) inches.

Figure 1 illustrates the site vicinity, Figure 2 illustrates the site and release location. The initial C-141 form is included in Appendix A.

2.0 Site Information and Closure Criteria

The Sterling 20 State 1H is located approximately 8.5 miles southeast of Carlsbad, New Mexico on State land.

As summarized in Table 2 and illustrated in Figure 1, depth to groundwater in the area is estimated to be seventy-five (75) feet below grade surface (bgs). There are no known water sources within ½-mile of the location, according to the New Mexico Office of the State Engineer (NMOSE) online water well database (https://gis.ose.state.nm.us/gisapps/ose_pod_locations/; accessed 7/9/2018). The nearest significant watercourse is an irrigation canal located approximately 1,500 feet to the east of Sterling 20 State 1H.

Based on the information presented herein, the applicable NMOCD Closure Criteria for this site is for a groundwater of less than 50', due to the 2020 change in the area from medium Karst potential to high Karst potential, as required by NM OCD.

3.0 Release Characterization Activities and Findings

On July 6, 2018, SMA personnel arrived on site in response to the release associated with Sterling 20 State 1H. SMA performed site delineation activities by collecting soil samples around the release site and throughout the visibly stained area. Soil samples were field-screened for chloride using an electrical conductivity (EC) meter.

On August 2, 2018, SMA performed further site delineation activities by collecting soil samples with the aid of a backhoe service around the release site and throughout the visibly surface stained area. Soil samples were field-screened for chlorides using an electrical conductivity (EC) measurement device.

A total of nine (9) sample locations (L1-L9) were investigated using excavated test pits, to depths up to three (3) to four (4) feet bgs. A minimum of two samples were collected at each sampling location and field-screened using the methods previously stated. A total of twenty-nine (29) samples were collected for laboratory analysis for total chloride using EPA Method 300.0; benzene, toluene, ethylbenzene and total xylenes (BTEX) using EPA Method 8021B; and motor, diesel and gasoline range organics (MRO, DRO, and GRO) by EPA Method 8015D. Table 3 itemizes the samples and field-screening results. Locations for all samples are depicted on Figure 2.

Laboratory samples were collected in accordance with the sampling protocol included in Appendix C. Samples were placed into laboratory supplied glassware, labeled, and maintained on ice until delivery to Hall Environmental Analysis Laboratory in Albuquerque, New Mexico (Appendix D).

Results indicated that an area approximately 236 feet long by up to 94 feet wide and anywhere from 0.5 to 2 feet deep had been impacted.

In the approved workplan, SMA proposed excavating and removing contaminated soil in the impacted area approximately 0.5 to 3.5 feet bgs. On September 26, 2018, NMOCD approved the work plan and the proposed closure sampling plan.

4.0 Soil Remediation Summary

On September 26, 2018 SMA arrived on site to guide the excavation and removal of contaminated soil. After approval from area utilities via 811 SMA guided the excavation per the approved work plan. Samples were screened for chloride using an electrical conductivity (EC) measurement device. The walls and base were excavated until field screening results indicated that NMOCD Closure Criteria and reclamation standards for chlorides were met. NMOCD was notified on September 24, 2018 that closure samples were expected to be collected in two (2) business days.

On September 28 and October 1, 2018 SMA conducted confirmation sampling of the excavation. Excavation depths are outlined in Table 3. Confirmation samples were collected from the eleven (L1-L11) locations at the base of the excavation to confirm the vertical extent and eleven (SW1-SW11) from the sidewalls to confirm the lateral extent. The samples were collected according to the sampling protocol included in Appendix C. This sampling protocol was pre-approved by NMOCD.

Figure 2 shows the extent and depths of the excavation and sample locations. All field screening and laboratory results are summarized in Table 3. Laboratory reports are included in Appendix D.

In addition to meeting the Closure Criteria, the top; four (4) feet of impacted areas of the well pad meet the Reclamation requirement of 19.15.2913(D)(1); Contaminated soils were removed and replaced with clean backfill material to return the surface to previous contours. The contaminated soil was transported and disposed of at R360 near Hobbs, NM, an NMOCD permitted disposal facility.

5.0 Scope and Limitations

The scope of our services included: assessment sampling; verifying release stabilization; regulatory liaison; remediation; and preparing 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.

If there are any questions regarding this report, please contact either Heather Patterson at 575-200-5343 or Shawna Chubbuck at 505-325-7535.

Submitted by: SOUDER, MILLER & ASSOCIATES

Hall

Heather Patterson Staff Scientist

Reviewed by:

Jauna hubbuck

Shawna Chubbuck Senior Scientist

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Sterling 20 State 1H Remediation Closure Report (2RP-4725) January 24, 2019

ATTACHMENTS:

Figures:

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

Tables:

Table 2: NMOCD Closure Criteria Justification Table 3: Summary of Sample Results

Appendices:

Appendix A: Form C141 Appendix B: NMOSE Wells Report Appendix C: Sampling Protocol, Field Notes and Photo Documentation Appendix D: Laboratory Analytical Reports

FIGURES

Received by OCD: 10/5/2023 9:17:38 AM



Received by OCD: 10/5/2023 9:17:38 AM



Released to Imaging: 10/6/2023 12:48:46 PM

TABLES

High Karst - <50' - 6/20/2023

Site Information (19.15.29.11.A(2, 3, and 4) NMAC)	Source/Notes	
Depth to Groundwater (feet bgs)	75	NMOSE
Hortizontal Distance From All Water Sources Within 1/2 Mile (ft)	0	Figure 1
Hortizontal Distance to Nearest Significant Watercourse (ft)	1500	Figure 1

Closure Criteria (19.15.29.12.B(4) and Table 1 NMAC)						
		Close	ure Criteria	a (units in n	ng/kg)	
Depth to Groundwater	Chloride *numerical limit or background, whichever is greater	ТРН	GRO + DRO	BTEX	Benzene	
< 50' BGS		600	100		50	10
51' to 100'	Х	10000	2500	1000	50	10
>100'		20000	2500	1000	50	10
Surface Water		if ye	s, then			
<300' from continuously flowing watercourse or other significant watercourse? <200' from lakebed, sinkhole or playa lake?	No No					
<500 feet from spring or a private, domestic fresh water well used by less than 5 households for domestic or stock watering purposes? <1000' from fresh water well or spring?	No No	-				
Human and Other Areas	•	600	100		50	10
<300' from an occupied permanent residence, school, hospital, institution or church? within incorporated municipal boundaries or within a defined municipal fresh water well field? <100' from wetland? within area overlying a subsurface mine	No No No No	-				
within an unstable area? within a 100-year floodplain?	No No	-				
				1		1

Table 3: Summary of Initial Sample Results

Marathon oil Permian, LLC Sterling 20 State 1H (2RP-4725)

Initial Sampling Event

Sample Number on Figure 2	Sample Date	Depth (feet bgs)	Proposed Action	BTEX mg/Kg	Benzene mg/Kg	GRO mg/Kg	DRO mg/Kg	MRO mg/Kg	Total TPH mg/Kg	Cl- Field Screens (ppm)	CI- Laboratory mg/Kg
NMOCD Closure Criteria			50	10				1000/2500		600/20,000*	
	7/6/2018	0.5	excavate	<0.225	<0.025	<5.0	<9.9	<50	<64.9		810
11	8/2/2018	1	excavate							995	
L1	8/2/2018	2	in-situ							485	530
	8/2/2018	3	in-situ							428	390
	7/6/2018	0.5	excavate	<.21	<0.023	<4.7	<9.9	<49	<63.6		2,500
	8/2/2018	1	excavate							513	1,600
L2	8/2/2018	2	excavate							1463	
	8/2/2018	3	in-situ							400	350
	8/2/2018	4	in-situ							<270	83
	7/6/2018	0.5	excavate	<0.221	<0.025	<4.9	180	110	295		6,400
12	8/2/2018	1	in-situ							1307	
L3	8/2/2018	2	in-situ							<270	<30
	8/2/2018	3	in-situ							<270	
	7/6/2018	0.5	excavate	<0.207	<0.023	<4.6	430	300	735		4,000
L4	8/2/2018	1	in-situ							400	480
	8/2/2018	2	in-situ							272	320
	7/6/2018	0.5	excavate	<0.219	<0.024	98	8,600	3,400	12,098		95
	8/2/2018	1	excavate			1200	2,400	7,500	11,100		
L5	8/2/2018	2	excavate			99	1,100	400	1,599		
	8/2/2018	3	in-situ			18	170	68	256		
	8/2/2018	4	in-situ			<4.8	<9.3	<47	<62		
L6	7/6/2018	0.5	in-situ	<0.024	<0.212	<4.7	<9.8	<49	<63.5		94

Sample		_	_	BTEX	Benzene	GRO	DRO	MRO	Total TPH	CI-	CI-
Number on Figure 2	Sample Date	Depth (feet bgs)	Proposed Action	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	Field Screens (ppm)	Laboratory mg/Kg
NMOCD Closure Criteria		50	10				1000/2500		600/20,000*		
	7/6/2018	0.5	excavate	<0.023	<0.207	<4.6	5,100	2,500	7,605		3,200
	8/2/2018	1	in-situ			<5.0	<9.9	<50	<65	<270	35
L7	8/2/2018	2	in-situ							1520	1,600
	8/2/2018	3	in-situ							627	910
	8/2/2018	4	in-situ							<270	130
L8	7/6/2018	0.5	in-situ	0.024	<0.216	<4.8	210	100	315		210
	7/6/2018	0.5	excavate	<0.024	<0.214	20	16,000	<990	17,010		2,500
10	8/2/2018	1	excavate							1250	
L9	8/2/2018	2	excavate			180	5400	<450	5580	372	390
	8/2/2018	3	in-situ			<4.8	44	<49	44	<270	95
BG1	8/2/2018	0.5	in-situ							<270	
BG2	8/2/2018	0.5	in-situ							<270	
SW1	8/2/2018	sidewall	in-situ			<4.8	<9.3	<46	<61	<270	<30
SW2	8/2/2018	sidewall	in-situ							<270	540
SW3	8/2/2018	sidewall	excavate							357	950
SW4	8/2/2018	sidewall	in-situ			<4.8	<9.8	<49	<64	<270	31
SW5	8/2/2018	sidewall	in-situ							<270	610
SW6	8/2/2018	sidewall	in-situ							<270	110
SW7	8/2/2018	sidewall	in-situ			<4.7	<9.2	<46	<61	<270	<30
SW8	8/2/2018	sidewall	in-situ			<4.6	<9.4	<47	<62	<270	<30
SW9	8/2/2018	sidewall	in-situ							357	380
SW10	8/2/2018	sidewall	in-situ			<4.8	63	<46	63	<270	220
SW11	8/2/2018	sidewall	in-situ			<5.0	<9.5	<48	<63		640

Sample		Depth	Proposed	BTEX	Benzene	GRO	DRO	MRO	Total TPH	CI-
Number on Figure 2	Sample Date	(feet bgs)	Action	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	Laboratory mg/Kg
NMOCD Clos	ure Criteria			50	10	10	00		2500	600/10,000*
L1	9/26/2018	1	in-situ							<30
L2	9/26/2018	2	in-situ							<30
L3	9/26/2018	0.5	in-situ							<30
L4	9/26/2018	0.5	requesting deferral							2,600
L5	9/26/2018	2	in-situ	<0.23	<0.024	<4.9	11	<4.9	11	180
L6	9/26/2018	0.5	in-situ							50
L7	9/28/2018	0.5	requesting deferral	<0.23	<0.024	<4.9	520	610	1,130	<30
L8	9/28/2018	0.5	in-situ							200
L9	10/1/2018	2	in-situ	<0.23	<0.024	<4.8	<10	<50	<64.8	140
L10	9/28/2018	2	in-situ							86
L11	9/28/2018	2	in-situ							140
SW1	9/28/2018	sidewall	in-situ							<30
SW3	9/28/2018	sidewall	in-situ	<0.23	<0.024	<4.7	<9.7	<48	<63	140
SW10	9/28/2018	sidewall	in-situ	<0.23	<0.025	<5.0	<9.6	<48	<62.6	170

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APPENDIX A FORM C141

<i>Acceived by OCD: 10/5/2023 9:17:38 AM</i>			RECE	NED	Page 20 of		
<u>^{listrict I}</u> 625 N. French Dr., Hobbs, NM 88240	State of	New Mexico		0.0010	Form C-141		
<u>Pistrict II</u> 11 S. First St., Artesia, NM 88210	Energy Minerals	and Natural Resources	APR 3	0 2018	Revised April 3, 2017		
<u>vistrict III</u> 000 Rio Brazos Road, Aztec, NM 87410	Oil Conse	rvation Division		mit 1 Copy	to appropriate District Office in sordance with 19.15.29 NMAC.		
<u>vistrict IV</u> 220 S. St. Francis Dr., Santa Fe, NM 87505	1220 Sout	h St. Francis Dr.		TESIA O.	J.U.		
D-L-	Santa F	e, NM 8/505	A				
Release Notification and Corrective Action							
Name of Company Marathon Oil Permian LI	C 372098	Contact Callie Karrigan			al Report 📋 Final Repor		
Address 5555 San Felipe Street, Houston, Te	exas 77056	Telephone No. 405-202	1028 (cell) 575-297-	-0956 (office)		
Facility Name: Sterling 20 State 1H		Facility Type Oil and ga	s productio	on facilitie	S		
Surface: Owner: state	Mineral: Owner	: state		API No	. : 30-015-42731		
	LOCATIO	N OF RELEASE					
Unit LetterSectionTownshipRangeO1723S27E	Feet from the 240North south	South Line Feet from th 1950	e East/V east	Vest Line	County Eddy		
	Latitude 32.298	35.Longitude -104.2086					
Type of Release: produced water	NATURE	Volume of Release 5 18	bbl	Volume R	Recovered: 4 50 bbl		
Source of Release: flare		Date and Hour of Occur	ence	Date and	Hour of Discovery		
Was Immediate Notice Given?		04/17/2018 6:00 am If YES, To Whom?		04/17/201	8 6:00 am		
The first of the second s	No 🗍 Not Required	Eddy County – Mike Br	tcher and C	Crystal Wea	wer, SLO – Ryan Mann		
Yes		Date and Hour 04/17/2018 3:15 pm If YES, Volume Impacting the Watercourse.					
Was himconde Fronce Groun. ⊠ Yes By Whom? Callie Karrigan Was a Watercourse Reached? □ Yes If a Watercourse was Impacted, Describe Fully.* Not applicable.	No	Date and Hour 04/17/20 If YES, Volume Impact	8 3:15 pm ng the Wate	ercourse.			
Yes By Whom? Callie Karrigan Was a Watercourse Reached? Yes If a Watercourse was Impacted, Describe Fully.* Not applicable. Describe Cause of Problem and Remedial Action Flowback Operator reported that the free water kn traveled down the flare line, sending fluids out the containment, releasing an estimated 3.50 barrels.	No Taken.* nock out (FWKO) lost s e flare and an overspray Overspray traveled from	Date and Hour 04/17/20 If YES, Volume Impact supply gas, not allowing the 7. Fluid also released from th n the flare on and off location	8 3:15 pm ng the Wate vessel to du e back pres n (see attac	ercourse. amp fluids. sure valve hed survey	The FWKO high leveled and on the FWKO inside).		
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Operator/Responsible Party,

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 <u>2</u> office in <u>ARTESIA</u> on or before <u>5/30/2018</u>. 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; C₆ thru C₃₆), 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; C₆ thru C₃₆), 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 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	nAB182233389
District RP	2RP4725
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party Marathon Oil Permian	OGRID 372098
Contact Name Callie Karrigan	Contact Telephone 405-202-1028 (cell) 575-297-0956 (office)
Contact email cnkarrigan@marathonoil.com	Incident # (assigned by OCD)
Contact mailing address 5555 San Felipe St, Houston Texas 77056	

Location of Release Source

Latitude 32.2985_

(NAD 83 in decimal degrees to 5 decimal places)

Site Name Sterling 20 State 1H	Site Type Oil and Gas Production Facilities
Date Release Discovered 4/17/2018	API# (if applicable) 30-015-42731

Unit Letter	Section	Township	Range	County
0	17	23S	27E	Eddy

Surface Owner: State Federal Tribal Private (Name:

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)								
Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)						
Produced Water	Volume Released (bbls) 5.18	Volume Recovered (bbls) 4.5						
	Is the concentration of dissolved chloride in the produced water >10,000 mg/1?	Yes No						
Condensate	Volume Released (bbls)	Volume Recovered (bbls)						
Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)						
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)						
Cause of Release								

Flowback Operator reported that the free water knock out (FWKO) lost supply gas, not allowing the vessel to dump fluids. The FWKO high leveled and

traveled down the flare line, sending fluids out the flare and an overspray. Fluid also released from the back pressure valve on the FWKO inside

containment, releasing an estimated 3.50 barrels. Overspray traveled from the flare on and off location

Page 2

Incident ID	nAB1812233389
District RP	2RP-4725
Facility ID	
Application ID	

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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 no	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

 \square 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:HES Professional
Signature: _ <u>Callie Karrigan</u>	Date: <u>1/24/2019</u>
email:cnkarrigan@marathonoil.com	Telephone:575-297-0956
OCD Only	
Received by:	Date:

Received by OCD: 10/5/2023 9:17:38 AM Form C-141 State of New Mexico

Page 3

Oil Conservation Division

	Page 25 of 224
Incident ID	nAB1812233389
District RP	2RP-4725
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>75</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?							
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?							
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						
Are the lateral extents of the release within 300 feet of a wetland?	🗌 Yes 🛛 No						
Are the lateral extents of the release overlying a subsurface mine?	🗌 Yes 🛛 No						
Are the lateral extents of the release overlying an unstable area such as karst geology?	S						
Are the lateral extents of the release within a 100-year floodplain?	🗌 Yes 🛛 No						
Did the release impact areas not on an exploration, development, production, or storage site?	🗌 Yes 🔀 No						

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

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

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Field data
- Data table of soil contaminant concentration data
- Depth to water determination
- Determination of water sources and significant watercourses within ¹/₂-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.

Received by OCD: 10/5/2023 9:1	7:38 AM		Page 26 of 224					
Form C-141	State of New Mexico		Incident ID	nAB1812233389				
Page 4	Oil Conservation Division		District RP	2RP-4725				
			Facility ID					
			Application ID					
I hereby certify that the information regulations all operators are require public health or the environment. T failed to adequately investigate and addition, OCD acceptance of a C-1 and/or regulations. Printed Name:Melodie Sanja Signature:Melodie Sanja email:msanjari@marathono	n given above is true and complete to the best of ed to report and/or file certain release notification. The acceptance of a C-141 report by the OCD do a remediate contamination that pose a threat to grave the operator of respon ari Title: Title: Title: Tele	my knowledge ar is and perform co es not relieve the oundwater, surfac sibility for compl HES Profe: Da ephone:575	nd understand that purst rrective actions for rele operator of liability sho ce water, human health iance with any other fec sssional	uant to OCD rules and ases which may endanger build their operations have or the environment. In deral, state, or local laws				
Received by: <u>Jocelyn Ha</u>	rimon	Date:06	/26/2023					

Deferral not approved 06/26/2023 Jocelyn Harimon

Released to Imaging: 10/6/2023 12:48:46 PM

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 water right file.)	(R=POD has been replaced O=orphaned, C=the file is closed)	д, (((quar	ters a ters a	are 1: are si	=NW : malles	2=NE ∺ st to lai	3=SW 4=SE rgest) (N	E) AD83 UTM in mi	eters)	(In feet)	
POD Number	POD Sub- Code basin (County	Q v 64 [·]	Q Q 16 4	Sec	Tws	Rna	x	Y	Distance	Depth Well	Depth Water	Water Column
<u>C 01261</u>	CUB	ED			21	23S	27E	575780	3572889* 🌍	1521	250		
<u>C 01195</u>	С	ED		2	19	23S	27E	572958	3573260* 🌍	1646	180	100	80
<u>C 01781</u>	С	ED		24	19	23S	27E	573161	3572659* 🌍	1752			
C 01781 POD2	С	ED		24	19	23S	27E	573161	3572659* 🌍	1752	210		
C 01781 POD3	С	ED		24	19	23S	27E	573161	3572659* 🌍	1752	210		
<u>C 01618</u>	С	ED	4	44	07	23S	27E	573252	3575384* 🌍	2070	250		
<u>C 02377</u>	С	ED		2	29	23S	27E	574575	3571666* 🌍	2088	232	170	62
<u>C 03005</u>	С	ED	3	44	07	23S	27E	573052	3575384* 🌍	2199	140	100	40
C 04044 POD1	CUB	ED	3	23	09	23S	27E	575504	3575907 🌍	2363	290	150	140
<u>C 02453</u>	С	ED	4	42	29	23S	27E	574876	3571372* 🌍	2407	210	175	35
<u>C 03301</u>	С	ED	3	34	07	23S	27E	572597	3575268 🌍	2454	375		
									Avera	ige Depth to	Water:	139	feet
										Minimum	Depth:	100	feet
										Maximum	Depth:	175	feet
Record Count: 11													
UTMNAD83 Radius	Search (in mete	ers):											

Easting (X): 574528.79

Northing (Y): 3573754.32

Radius: 2500

*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.

9/24/18 10:46 AM

APPENDIX C SAMPLING PROTOCOL, FIELD NOTES AND PHOTO DOCUMENTATION



Sampling Protocol

Representatives from SMA chose the Judgmental Sampling Method as described in EPA's Final Sampling Guidance for SW-846, 2002 to adequately quantify contaminant concentrations on the Sterling 20 State 1H Location. The utility of this particular method functions on the sufficient knowledge of the contaminant, which we possess. This design is also useful when identifying the composition of a release, which we have documented. In addition, this sampling design was chosen for this project because of the locations uniform soil type and the several operational considerations that precluded the implementation of a different statistical design.

The soil samples were collected in laboratory supplied containers in accordance with this sampling protocol, immediately placed on ice and sent under standard chain-of-custody protocols to Hall Environmental Analysis Laboratory (HEAL) in Albuquerque, New Mexico for analysis. A total of twenty-nine (29) samples were collected for laboratory analysis for total chloride using EPA Method 300.0; benzene, toluene, ethylbenzene and total xylenes (BTEX) using EPA Method 8021B; and motor, diesel and gasoline range organics (MRO, DRO, and GRO) by EPA Method 8015D.

Sampling Analysis Field Quality Assurance Procedures

A unique sample numbering was used to identify each sample collected and designated for on-site and off-site laboratory analysis. The purpose of this numbering scheme was to provide a tracking system for the retrieval of analytical and field data on each sample. Sample identification numbers were recorded on sample labels or tags, field notes, chain-of-custody records (COC) and all other applicable documentation used during the project. Sample labels were affixed to all sample containers during sampling activities. Information was recorded on each sample container label at the time of sample collection. The information recorded on the labels were as follows: sample identification number; sample type (discrete or composite); site name and area/location number; analysis to be performed; type of chemical preservative present in container; date and time of sample collection; and sample collector's name and initials. All samples were packed in ice in an approved rigid body container, custody sealed signed and shipped to the appropriate laboratory via insured currier service.

COC procedures implemented for the project provided documentation of the handling of each sample from the time of collection until completion of laboratory analysis. A COC form serves as a legal record of possession of the sample. A sample is considered to be under custody if one or more of the following criteria are met: the sample is in the sampler's possession; the sample is in the sampler's view after being in possession; the sample was in the sampler's possession and then was placed into a locked area to prevent tampering; and/or the sample is in a designated secure area. Custody was documented throughout the project field sampling activities by a chain-of custody form initiated each day during which samples are collected. Container custody seals placed on either individual samples or on the rigid body container were used to ensure that no sample tampering occurs between the time the samples are placed into the containers and the time the containers are opened for analysis at the laboratory. Container custody seals were signed and dated by the individual responsible for completing the COC form contained within the container.

Photo Taken 09/26/2018

Facing East

32°17'54.95"N 104°12'31.39"W



Photo Taken 09/27/2018

Facing North

32°17'54.69"N 104°12'31.13"W



Photo Taken 09/28/2018

Facing North

32°17'54.64"N 104°12'31.09"W



Photo Taken 09/28/2018

Facing North

32°17'54.63"N 104°12'31.07"W



APPENDIX D LABORATORY ANALYTICAL REPORTS



July 19, 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: Sterling

OrderNo.: 1807382

Dear Austin Weyant:

Hall Environmental Analysis Laboratory received 9 sample(s) on 7/10/2018 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
CLIENT: Souder, Miller &

Sterling

EPA METHOD 300.0: ANIO

Diesel Range Organics (DRO)

Motor Oil Range Organics (MRO)

Gasoline Range Organics (GRO)

Methyl tert-butyl ether (MTBE)

Surr: 4-Bromofluorobenzene

EPA METHOD 8021B: VOLATILES

EPA METHOD 8015D: GASOLINE RANGE

1807382-001

Project:

Lab ID:

Analyses

Chloride

Surr: DNOP

Surr: BFB

Benzene

Toluene

Ethylbenzene

Xylenes, Total

Analytical Report
Lab Order 1807382

Analyst: Irm

Analyst: NSB

Analyst: NSB

39158

39158

39158

39133

39133

39133

39133

39133

39133

39133

39133

Hall Environmental Analysis Laboratory, I	nc.
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EPA METHOD 8015M/D: DIESEL RANGE ORGANICS

Lab Order 1807382 Date Reported: 7/19/2018

7/14/2018 7:46:28 AM

7/14/2018 7:46:28 AM

7/14/2018 7:46:28 AM

7/12/2018 1:08:04 AM

Associates		Client	Sample II): L1-	-0.5			
		Colle	ection Date	e: 7/6	/2018 11:25:00 AM			
	Matrix: SOIL	SOIL Received Date: 7/10/2018 9:00:00 AM						
	Result	PQL Qu	al Units	DF	Date Analyzed	Batch		
NS					Analyst	: CJS		
	810	30	mg/Kg	20	7/17/2018 7:31:49 AM	39212		

9.9

50

5.0

70-130

15-316

0.10

0.025

0.050

0.050

0.10

80-120

mg/Kg

mg/Kg

%Rec

mg/Kg

%Rec

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

%Rec

1

1

1

1

1

1

1

1

1

1

1

ND

ND

95.7

ND

82.3

ND

ND

ND

ND

ND

93.8

- * 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 13
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order 1807382

Date Reported: 7/19/2018

CLIENT:	Souder, Miller & Associates		Cl	ient Sample II): L2-	0.5		
Project:	Sterling		(Collection Date	e: 7/6	/2018 11:35:00 AM		
Lab ID:	1807382-002	Matrix: SOIL	Matrix: SOIL Received Date: 7/10/201					
Analyses		Result	PQL	Qual Units	DF	Date Analyzed	Batch	
EPA MET	HOD 300.0: ANIONS					Analyst	: CJS	
Chloride		2500	150	mg/Kg	100	7/17/2018 6:10:48 PM	39246	
EPA MET	HOD 8015M/D: DIESEL RAN	GE ORGANICS				Analyst	: Irm	
Diesel R	ange Organics (DRO)	ND	9.9	mg/Kg	1	7/14/2018 8:08:31 AM	39158	
Motor Oi	I Range Organics (MRO)	ND	49	mg/Kg	1	7/14/2018 8:08:31 AM	39158	
Surr: [DNOP	84.6	70-130	%Rec	1	7/14/2018 8:08:31 AM	39158	
EPA MET	HOD 8015D: GASOLINE RAM	NGE				Analyst	: NSB	
Gasoline	Range Organics (GRO)	ND	4.7	mg/Kg	1	7/12/2018 1:31:22 AM	39133	
Surr: E	3FB	81.4	15-316	%Rec	1	7/12/2018 1:31:22 AM	39133	
EPA MET	HOD 8021B: VOLATILES					Analyst	: NSB	
Methyl te	ert-butyl ether (MTBE)	ND	0.093	mg/Kg	1	7/12/2018 1:31:22 AM	39133	
Benzene		ND	0.023	mg/Kg	1	7/12/2018 1:31:22 AM	39133	
Toluene		ND	0.047	mg/Kg	1	7/12/2018 1:31:22 AM	39133	
Ethylben	zene	ND	0.047	mg/Kg	1	7/12/2018 1:31:22 AM	39133	
Xylenes,	Total	ND	0.093	mg/Kg	1	7/12/2018 1:31:22 AM	39133	
Surr: 4	1-Bromofluorobenzene	92.4	80-120	%Rec	1	7/12/2018 1:31:22 AM	39133	

- * 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 13 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified W

Project:

Lab ID:

CLIENT: Souder, Miller & Associates

1807382-003

Sterling

Analytical Report
Lab Order 1807382

Lab Order **1807382** Date Reported: **7/19/2018**

Client Sample ID: L3-0.5
Collection Date: 7/6/2018 11:45:00 AM
Received Date: 7/10/2018 9:00:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	: CJS
Chloride	6400	300	mg/Kg	20	0 7/17/2018 6:23:13 PM	39246
EPA METHOD 8015M/D: DIESEL RANGE ORGAN					Analys	t: Irm
Diesel Range Organics (DRO)	180	10	mg/Kg	1	7/14/2018 8:31:04 AM	39158
Motor Oil Range Organics (MRO)	110	50	mg/Kg	1	7/14/2018 8:31:04 AM	39158
Surr: DNOP	103	70-130	%Rec	1	7/14/2018 8:31:04 AM	39158
EPA METHOD 8015D: GASOLINE RANGE					Analys	: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/12/2018 1:54:38 AM	39133
Surr: BFB	80.6	15-316	%Rec	1	7/12/2018 1:54:38 AM	39133
EPA METHOD 8021B: VOLATILES					Analys	: NSB
Methyl tert-butyl ether (MTBE)	ND	0.098	mg/Kg	1	7/12/2018 1:54:38 AM	39133
Benzene	ND	0.025	mg/Kg	1	7/12/2018 1:54:38 AM	39133
Toluene	ND	0.049	mg/Kg	1	7/12/2018 1:54:38 AM	39133
Ethylbenzene	ND	0.049	mg/Kg	1	7/12/2018 1:54:38 AM	39133
Xylenes, Total	ND	0.098	mg/Kg	1	7/12/2018 1:54:38 AM	39133
Surr: 4-Bromofluorobenzene	89.4	80-120	%Rec	1	7/12/2018 1:54:38 AM	39133

Matrix: SOIL

- * Value exceeds Maximum Contaminant Level.D Sample Diluted Due to Matrix
- 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 13
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall	Environmental	Analy	ysis La	borato	ry, Inc.
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Lab Order 1807382

7/12/2018 2:17:56 AM

7/12/2018 2:17:56 AM

39133

39133

Date Reported: 7/19/2018

CLIENT: Souder, Miller & Associates	s Client Sample ID: L4-0.5					
Project: Sterling	Collection Date: 7/6/2018 11:55:00 AM					
Lab ID: 1807382-004	Matrix: SOIL Received Date: 7/10/2018 9:00:00 AM					
Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CJS
Chloride	4000	150	mg/Kg	100	7/17/2018 6:35:38 PM	39246
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	: Irm
Diesel Range Organics (DRO)	430	9.9	mg/Kg	1	7/14/2018 9:37:43 AM	39158
Motor Oil Range Organics (MRO)	300	50	mg/Kg	1	7/14/2018 9:37:43 AM	39158
Surr: DNOP	108	70-130	%Rec	1	7/14/2018 9:37:43 AM	39158
EPA METHOD 8015D: GASOLINE RANGE	E				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	7/12/2018 2:17:56 AM	39133
Surr: BFB	85.2	15-316	%Rec	1	7/12/2018 2:17:56 AM	39133
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Methyl tert-butyl ether (MTBE)	ND	0.092	mg/Kg	1	7/12/2018 2:17:56 AM	39133
Benzene	ND	0.023	mg/Kg	1	7/12/2018 2:17:56 AM	39133
Toluene	ND	0.046	mg/Kg	1	7/12/2018 2:17:56 AM	39133
Ethylbenzene	ND	0.046	mg/Kg	1	7/12/2018 2:17:56 AM	39133

ND

92.6

0.092

80-120

mg/Kg

%Rec

1

1

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. 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 4 of 13 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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Hall Environmental Analysis Laboratory, Inc.

Lab Order 1807382

Date Reported: 7/19/2018

CLIENT: Souder, Miller & Associates Project: Sterling		Cl (ient Sa Collect	ample II ion Dat): L5 e: 7/6	-0.5 5/2018 12:05:00 PM	
Lab ID: 1807382-005	Matrix: SOIL		Receiv	ved Dat	e: 7/1	0/2018 9:00:00 AM	
Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	CJS
Chloride	95	30		mg/Kg	20	7/17/2018 2:27:26 PM	39246
EPA METHOD 8015M/D: DIESEL RANG	GE ORGANICS					Analyst	: Irm
Diesel Range Organics (DRO)	8600	97		mg/Kg	10	7/14/2018 11:28:56 AM	39158
Motor Oil Range Organics (MRO)	3400	480		mg/Kg	10	7/14/2018 11:28:56 AM	39158
Surr: DNOP	0	70-130	S	%Rec	10	7/14/2018 11:28:56 AM	39158
EPA METHOD 8015D: GASOLINE RAN	IGE					Analyst	: NSB
Gasoline Range Organics (GRO)	98	4.9		mg/Kg	1	7/12/2018 2:41:10 AM	39133
Surr: BFB	714	15-316	S	%Rec	1	7/12/2018 2:41:10 AM	39133
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Methyl tert-butyl ether (MTBE)	ND	0.097		mg/Kg	1	7/12/2018 2:41:10 AM	39133
Benzene	ND	0.024		mg/Kg	1	7/12/2018 2:41:10 AM	39133
Toluene	ND	0.049		mg/Kg	1	7/12/2018 2:41:10 AM	39133
Ethylbenzene	ND	0.049		mg/Kg	1	7/12/2018 2:41:10 AM	39133
Xylenes, Total	0.41	0.097		mg/Kg	1	7/12/2018 2:41:10 AM	39133
Surr: 4-Bromofluorobenzene	120	80-120		%Rec	1	7/12/2018 2:41:10 AM	39133

- * 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
- 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 5 of 13 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified W

Hall Environmental Analysis Laboratory, Inc.

Lab Order 1807382

Date Reported: 7/19/2018

CLIENT: Project:	Souder, Miller & Associat Sterling	es	CI	ient Sample II Collection Date): L6 e: 7/6	-0.5 5/2018 12:15:00 PM				
Lab ID:	1807382-006	Matrix: SOIL		Received Date	ceived Date: 7/10/2018 9:00:00 AM					
Analyses		Result	PQL	Qual Units	DF	Date Analyzed	Batch			
EPA MET	HOD 300.0: ANIONS					Analys	t: CJS			
Chloride		94	30	mg/Kg	20	7/17/2018 3:04:40 PM	39246			
EPA MET	HOD 8015M/D: DIESEL RA	ANGE ORGANICS				Analys	t: Irm			
Diesel Ra	ange Organics (DRO)	ND	9.8	mg/Kg	1	7/14/2018 12:35:19 PM	1 39158			
Motor Oil	Range Organics (MRO)	ND	49	mg/Kg	1	7/14/2018 12:35:19 PM	1 39158			
Surr: [DNOP	98.3	70-130	%Rec	1	7/14/2018 12:35:19 PM	1 39158			
EPA MET	HOD 8015D: GASOLINE F	RANGE				Analys	t: NSB			
Gasoline	Range Organics (GRO)	ND	4.7	mg/Kg	1	7/12/2018 3:04:19 AM	39133			
Surr: E	BFB	88.3	15-316	%Rec	1	7/12/2018 3:04:19 AM	39133			
EPA MET	HOD 8021B: VOLATILES					Analys	t: NSB			
Methyl te	ert-butyl ether (MTBE)	ND	0.094	mg/Kg	1	7/12/2018 3:04:19 AM	39133			
Benzene		ND	0.024	mg/Kg	1	7/12/2018 3:04:19 AM	39133			
Toluene		ND	0.047	mg/Kg	1	7/12/2018 3:04:19 AM	39133			
Ethylben	zene	ND	0.047	mg/Kg	1	7/12/2018 3:04:19 AM	39133			
Xylenes,	Total	ND	0.094	mg/Kg	1	7/12/2018 3:04:19 AM	39133			
Surr: 4	I-Bromofluorobenzene	96.4	80-120	%Rec	1	7/12/2018 3:04:19 AM	39133			

- * 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
- 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 13 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified W

	Hall	Environmental	Analysis	Laboratory,	Inc.
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Lab Order 1807382

Date Reported: 7/19/2018

CLIENT:	Souder, Miller & Associate	es	Cl	ient Sa	ample II): L7-	0.5	
Project:	Sterling	Collection Date: 7/6/2018 12:25:00 PM						
Lab ID:	1807382-007	Matrix: SOIL	Matrix: SOIL Received Date: 7/10/2018 9:00:00 AM					
Analyses		Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA MET	HOD 300.0: ANIONS						Analyst	: CJS
Chloride		3200	150		mg/Kg	100	7/17/2018 7:12:51 PM	39246
EPA MET	HOD 8015M/D: DIESEL RA	ANGE ORGANICS					Analyst	: Irm
Diesel Ra	ange Organics (DRO)	5100	99		mg/Kg	10	7/14/2018 12:57:33 PM	39158
Motor Oil	Range Organics (MRO)	2500	490		mg/Kg	10	7/14/2018 12:57:33 PN	39158
Surr: [DNOP	0	70-130	S	%Rec	10	7/14/2018 12:57:33 PM	39158
EPA MET	HOD 8015D: GASOLINE R	ANGE					Analyst	: NSB
Gasoline	Range Organics (GRO)	ND	4.6		mg/Kg	1	7/12/2018 3:27:32 AM	39133
Surr: E	BFB	109	15-316		%Rec	1	7/12/2018 3:27:32 AM	39133
EPA MET	HOD 8021B: VOLATILES						Analyst	: NSB
Methyl te	rt-butyl ether (MTBE)	ND	0.092		mg/Kg	1	7/12/2018 3:27:32 AM	39133
Benzene		ND	0.023		mg/Kg	1	7/12/2018 3:27:32 AM	39133
Toluene		ND	0.046		mg/Kg	1	7/12/2018 3:27:32 AM	39133
Ethylben	zene	ND	0.046		mg/Kg	1	7/12/2018 3:27:32 AM	39133
Xylenes,	Total	ND	0.092		mg/Kg	1	7/12/2018 3:27:32 AM	39133
Surr: 4	I-Bromofluorobenzene	94.0	80-120		%Rec	1	7/12/2018 3:27:32 AM	39133

- * 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 13 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified W

Hall Environmental Analysis Laboratory, Inc.

Lab Order 1807382

Date Reported: 7/19/2018

CLIENT: Souder, Miller & Associate	Client Sample ID: L8-0.5								
Project: Sterling		Collection Date: 7/6/2018 12:35:00 PM							
Lab ID: 1807382-008	Matrix: SOIL	0/2018 9:00:00 AM							
Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch			
EPA METHOD 300.0: ANIONS					Analys	: CJS			
Chloride	210	30	mg/Kg	20	7/17/2018 3:29:29 PM	39246			
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANICS				Analys	t: Irm			
Diesel Range Organics (DRO)	210	10	mg/Kg	1	7/14/2018 2:04:08 PM	39158			
Motor Oil Range Organics (MRO)	100	50	mg/Kg	1	7/14/2018 2:04:08 PM	39158			
Surr: DNOP	105	70-130	%Rec	1	7/14/2018 2:04:08 PM	39158			
EPA METHOD 8015D: GASOLINE R	ANGE				Analys	: NSB			
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	7/12/2018 3:50:50 AM	39133			
Surr: BFB	84.4	15-316	%Rec	1	7/12/2018 3:50:50 AM	39133			
EPA METHOD 8021B: VOLATILES					Analys	: NSB			
Methyl tert-butyl ether (MTBE)	ND	0.096	mg/Kg	1	7/12/2018 3:50:50 AM	39133			
Benzene	ND	0.024	mg/Kg	1	7/12/2018 3:50:50 AM	39133			
Toluene	ND	0.048	mg/Kg	1	7/12/2018 3:50:50 AM	39133			
Ethylbenzene	ND	0.048	mg/Kg	1	7/12/2018 3:50:50 AM	39133			
Xylenes, Total	ND	0.096	mg/Kg	1	7/12/2018 3:50:50 AM	39133			
Surr: 4-Bromofluorobenzene	95.8	80-120	%Rec	1	7/12/2018 3:50:50 AM	39133			

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- 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 8 of 13 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified W

Hall Environmental Analysis Laboratory, Inc.

Lab Order 1807382

Date Reported: 7/19/2018

CLIENT: Souder, Miller & Associates	Client Sample ID: L9-0.5									
Project: Sterling	t: Sterling C				Collection Date: 7/6/2018 12:45:00 PM					
Lab ID: 1807382-009	Matrix: SOIL Received Date: 7/					10/2018 9:00:00 AM				
Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch			
EPA METHOD 300.0: ANIONS						Analyst	: CJS			
Chloride	2500	75		mg/Kg	50	7/17/2018 7:25:16 PM	39246			
EPA METHOD 8015M/D: DIESEL RANG	GE ORGANICS					Analyst	: Irm			
Diesel Range Organics (DRO)	16000	200		mg/Kg	20	7/16/2018 5:32:43 PM	39158			
Motor Oil Range Organics (MRO)	ND	990		mg/Kg	20	7/16/2018 5:32:43 PM	39158			
Surr: DNOP	0	70-130	S	%Rec	20	7/16/2018 5:32:43 PM	39158			
EPA METHOD 8015D: GASOLINE RAN	GE					Analyst	: NSB			
Gasoline Range Organics (GRO)	20	4.7		mg/Kg	1	7/12/2018 4:14:12 AM	39133			
Surr: BFB	294	15-316		%Rec	1	7/12/2018 4:14:12 AM	39133			
EPA METHOD 8021B: VOLATILES						Analyst	: NSB			
Methyl tert-butyl ether (MTBE)	ND	0.095		mg/Kg	1	7/12/2018 4:14:12 AM	39133			
Benzene	ND	0.024		mg/Kg	1	7/12/2018 4:14:12 AM	39133			
Toluene	ND	0.047		mg/Kg	1	7/12/2018 4:14:12 AM	39133			
Ethylbenzene	ND	0.047		mg/Kg	1	7/12/2018 4:14:12 AM	39133			
Xylenes, Total	ND	0.095		mg/Kg	1	7/12/2018 4:14:12 AM	39133			
Surr: 4-Bromofluorobenzene	95.2	80-120		%Rec	1	7/12/2018 4:14:12 AM	39133			

Qualifiers:

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- 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 9 of 13 J
- Р Sample pH Not In Range
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- Sample container temperature is out of limit as specified W

Client: Project:	Souder, N Sterling	Miller & Assoc	iates						
Sample ID	MB-39212	SampType:	mblk	Test	Code: EPA Metho	od 300.0: Anion	s		
Client ID:	PBS	Batch ID:	39212	R	unNo: 52749				
Prep Date:	7/16/2018	Analysis Date:	7/17/2018	S	eqNo: 1732696	Units: mg/K	g		
Analyte Chloride		Result PC	L SPK value	SPK Ref Val	%REC LowLim	it HighLimit	%RPD	RPDLimit	Qual
Sample ID	LCS-39212	SampType:	lcs	Test	Code: EPA Metho	od 300.0: Anion	s		
Client ID:	LCSS	Batch ID:	39212	R	tunNo: 52749				
Prep Date:	7/16/2018	Analysis Date:	7/17/2018	S	eqNo: 1732697	Units: mg/K	g		
Analyte		Result PC	L SPK value	SPK Ref Val	%REC LowLim	it HighLimit	%RPD	RPDLimit	Qual
Chloride		14 <i>*</i>	1.5 15.00	0	94.8 9	0 110			
Sample ID	MB-39246	SampType:	mblk	Test	Code: EPA Metho	od 300.0: Anion	s		
Client ID:	PBS	Batch ID:	39246	R	unNo: 52750				
Prep Date:	7/17/2018	Analysis Date:	7/17/2018	S	eqNo: 1733779	Units: mg/K	g		
Analyte		Result PC	L SPK value	SPK Ref Val	%REC LowLim	it HighLimit	%RPD	RPDLimit	Qual
Chloride		ND ²	1.5						
Sample ID	LCS-39246	SampType:	lcs	Test	Code: EPA Metho	od 300.0: Anion	s		
Client ID:	LCSS	Batch ID:	39246	R	tunNo: 52750				
Prep Date:	7/17/2018	Analysis Date:	7/17/2018	S	eqNo: 1733780	Units: mg/K	g		
Analyte		Result PC	L SPK value	SPK Ref Val	%REC LowLim	it HighLimit	%RPD	RPDLimit	Qual
Chloride		14 <i>*</i>	1.5 15.00	0	93.5 9	0 110			

Qualifiers:

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Client: Sou Project: Ste	ıder, Miller & Asso rling	ciates											
Sample ID MB-39158	SampType	e: MBL	_K	TestCode: EPA Method 8015M/D: Diesel Range Organics									
Client ID: PBS	ent ID: PBS Batch ID: 39158					RunNo: 52652							
Prep Date: 7/11/2018	Analysis Date	: 7/1:	2/2018	S	eqNo: 1	728319	Units: mg/k	٢g					
Analyte	Result P	QL :	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Diesel Range Organics (DRO)	ND	10											
Motor Oil Range Organics (MI	RO) ND	50											
Surr: DNOP	9.5		10.00		95.2	70	130						
Sample ID LCS-39158	SampType	E LCS	5	Test	Code: El	PA Method	8015M/D: Di	esel Range	e Organics				
Client ID: LCSS	Batch ID	: 3915	58	RunNo: 52652									
Prep Date: 7/11/2018	Analysis Date	: 7/1:	2/2018	S	eqNo: 1	728320	Units: mg/k	٢g					
Analyte	Result F	QL :	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Diesel Range Organics (DRO)	54	10	50.00	0	108	70	130						
Surr: DNOP	4.6		5.000		91.3	70	130						

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Client:	Souder, N	Miller & Asso	ociate	es							
Project:	Sterling										
Sample ID	MB-39120	SampType	e: ME	BLK	Test	tCode: E	PA Method	8015D: Gase	oline Rang	e	
Client ID:	PBS	Batch ID): 39	120	R	unNo: 5	2630				
Prep Date:	7/10/2018	Analysis Date	e: 7/	11/2018	S	eqNo: 1	727168	Units: %Re	с		
Analyte		Result F	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB		940		1000		93.5	15	316			
Sample ID	LCS-39120	SampType	e: LC	s	Test	tCode: E	PA Method	8015D: Gase	oline Rang	e	
Client ID:	LCSS	Batch ID): 39	120	R	unNo: 5	2630				
Prep Date:	7/10/2018	Analysis Date	e: 7/	11/2018	S	eqNo: 1	727169	Units: %Re	с		
Analyte		Result F	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB		1000		1000		105	15	316			
Sample ID	MB-39133	SampType	e: Me	BLK	Test	tCode: E	PA Method	8015D: Gaso	oline Rang	e	
Sample ID Client ID:	MB-39133 PBS	SampType Batch ID	e: ME	3LK 133	Test	tCode: E	PA Method	8015D: Gaso	oline Rang	e	
Sample ID Client ID: Prep Date:	MB-39133 PBS 7/10/2018	SampType Batch ID Analysis Date	e: ME): 39 e: 7/	BLK 133 '11/2018	Test R S	tCode: E tunNo: { SeqNo: 1	PA Method 2630 727188	8015D: Gaso Units: mg/ł	oline Rang Kg	e	
Sample ID Client ID: Prep Date: Analyte	MB-39133 PBS 7/10/2018	SampType Batch ID Analysis Date Result F	e: ME): 39 e: 7/ PQL	3LK 133 11/2018 SPK value	Test R S SPK Ref Val	tCode: E tunNo: f ieqNo: 1 %REC	PA Method 2630 727188 LowLimit	8015D: Gaso Units: mg/k HighLimit	oline Rang (g %RPD	e RPDLimit	Qual
Sample ID Client ID: Prep Date: Analyte Gasoline Rang	MB-39133 PBS 7/10/2018 re Organics (GRO)	SampType Batch ID Analysis Date Result F ND	e: ME): 39 e: 7/ PQL 5.0	3LK 133 11/2018 SPK value	Test R S SPK Ref Val	Code: E cunNo: ieqNo: 1 %REC	PA Method 2630 727188 LowLimit	8015D: Gaso Units: mg/ł HighLimit	oline Rang (g %RPD	e RPDLimit	Qual
Sample ID Client ID: Prep Date: Analyte Gasoline Rang Surr: BFB	MB-39133 PBS 7/10/2018 re Organics (GRO)	SampType Batch ID Analysis Date Result F ND 1000	e: ME 2: 39 2: 7/ 2QL 5.0	3LK 133 /11/2018 SPK value 1000	Test R S SPK Ref Val	Code: E tunNo: 5 GeqNo: 1 %REC 101	PA Method i2630 727188 LowLimit 15	8015D: Gaso Units: mg/k HighLimit 316	oline Rang (g %RPD	e RPDLimit	Qual
Sample ID Client ID: Prep Date: Analyte Gasoline Rang Surr: BFB Sample ID	MB-39133 PBS 7/10/2018 e Organics (GRO) LCS-39133	SampType Batch ID Analysis Date Result F ND 1000 SampType	e: ME): 39 e: 7/ PQL 5.0 e: LC	3LK 133 11/2018 SPK value 1000	Test R SPK Ref Val Test	Code: E cunNo: ceqNo: 1 %REC 101 Code: E	PA Method 52630 727188 LowLimit 15 PA Method	8015D: Gaso Units: mg/k HighLimit 316 8015D: Gaso	Soline Rang Sg %RPD Soline Rang	e RPDLimit e	Qual
Sample ID Client ID: Prep Date: Analyte Gasoline Rang Surr: BFB Sample ID Client ID:	MB-39133 PBS 7/10/2018 re Organics (GRO) LCS-39133 LCSS	SampType Batch ID Analysis Date Result F ND 1000 SampType Batch ID	e: ME 2: 39 2: 7/ 2QL 5.0 e: LC 0: 39	3LK 133 11/2018 SPK value 1000 SS 133	Test R SPK Ref Val Test R	tCode: E tunNo: SeqNo: 1 %REC 101 tCode: E tunNo:	PA Method i2630 727188 LowLimit 15 PA Method i2630	8015D: Gaso Units: mg/k HighLimit 316 8015D: Gaso	oline Rang Kg %RPD Dline Rang	e RPDLimit e	Qual
Sample ID Client ID: Prep Date: Analyte Gasoline Rang Surr: BFB Sample ID Client ID: Prep Date:	MB-39133 PBS 7/10/2018 e Organics (GRO) LCS-39133 LCSS 7/10/2018	SampType Batch ID Analysis Date Result F ND 1000 SampType Batch ID Analysis Date	e: ME 2: 39 2: 7/ 2 2 5.0 5.0 2: 10 2: 39 2: 7/	3LK 133 11/2018 SPK value 1000 SS 133 11/2018	Test R SPK Ref Val Test R S	tCode: E tunNo: GeqNo: 1 %REC 101 tCode: E tunNo: SeqNo: 1	PA Method 52630 727188 LowLimit 15 PA Method 52630 727189	8015D: Gaso Units: mg/k HighLimit 316 8015D: Gaso Units: mg/k	oline Rang Kg %RPD Dline Rang	e RPDLimit e	Qual
Sample ID Client ID: Prep Date: Analyte Gasoline Rang Surr: BFB Sample ID Client ID: Prep Date: Analyte	MB-39133 PBS 7/10/2018 e Organics (GRO) LCS-39133 LCSS 7/10/2018	SampType Batch ID Analysis Date Result F ND 1000 SampType Batch ID Analysis Date Result F	e: ME 2: 39 2: 7/ 2QL 5.0 e: LC 2: 39 2: 7/ 2: 7/ 2: 2L	3LK 133 11/2018 SPK value 1000 CS 133 11/2018 SPK value	Test R SPK Ref Val Test R SPK Ref Val	tCode: E tunNo: teqNo: 1 %REC 101 tCode: E tunNo: teqNo: 1 %REC	PA Method 2630 727188 LowLimit 15 PA Method 2630 727189 LowLimit	8015D: Gaso Units: mg/k HighLimit 316 8015D: Gaso Units: mg/k HighLimit	oline Rang Kg %RPD oline Rang Kg %RPD	e RPDLimit e RPDLimit	Qual
Sample ID Client ID: Prep Date: Analyte Gasoline Rang Surr: BFB Sample ID Client ID: Prep Date: Analyte Gasoline Rang	MB-39133 PBS 7/10/2018 e Organics (GRO) LCS-39133 LCSS 7/10/2018	SampType Batch ID Analysis Date Result F ND 1000 SampType Batch ID Analysis Date Result F 26	2011 2012 2012 2012 2012 2012 2012 2012	3LK 133 11/2018 SPK value 1000 SS 133 11/2018 SPK value 25.00	Test R SPK Ref Val Test R SPK Ref Val 0	tCode: E tunNo: \$ teqNo: 1 %REC 101 tCode: E tunNo: \$ teqNo: 1 %REC 102	PA Method 52630 727188 LowLimit 15 PA Method 52630 727189 LowLimit 75.9	8015D: Gaso Units: mg/k HighLimit 316 8015D: Gaso Units: mg/k HighLimit 131	oline Rang Kg %RPD bline Rang Kg %RPD	e RPDLimit e RPDLimit	Qual

Qualifiers:

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Client:	Souder, Miller &	Associate	es									
Project:	Sterling											
				_								
Sample ID MB-391	20 Sam	pType: MI	BLK									
Client ID: PBS	Ba	tch ID: 39	120	R	lunNo: 52	2630						
Prep Date: 7/10/20	018 Analysi	s Date: 7	/11/2018	S	SeqNo: 17	727210	Units: %Rec	:				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Surr: 4-Bromofluorober	izene 1.0		1.000		103	80	120					
Sample ID LCS-39	120 Sam	рТуре: ЦС	s	Tes	tCode: EF	PA Method	8021B: Volat	les				
Client ID: LCSS	Ba	tch ID: 39	120	R	unNo: 52	2630						
Prep Date: 7/10/20	018 Analysi	s Date: 7	/11/2018	S	SeqNo: 17	727211	Units: %Rec	:				
	Result	POI	SPK value	SPK Rof Val	%REC	Lowl imit	Highl imit	%RPD	RPDI imit	Qual		
Surr: 4-Bromofluorober	izene 1.1	IQL	1.000		111	80	120	701 CI D		Quai		
		_										
Sample ID MB-391	33 Sam	рТуре: МІ	BLK	Tes	tCode: EF	PA Method	8021B: Volat	les				
Client ID: PBS	Ba	tch ID: 39	133	R	RunNo: 52	2630						
Prep Date: 7/10/20	018 Analysis	lysis Date: 7/11/2018 SeqNo: 1727221 Units: mg/Kg										
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Methyl tert-butyl ether (M	rbe) ND	0.10										
Benzene	ND	0.025										
Toluene	ND	0.050										
Ethylbenzene	ND	0.050										
Xylenes, Total	ND	0.10										
Surr: 4-Bromofluorober	izene 1.1		1.000		106	80	120					
Sample ID LCS-39	133 Sam	pType: LC	s	Tes	tCode: EF	PA Method	8021B: Volat	les				
Client ID: LCSS	Ba	tch ID: 39	133	R	unNo: 52	2630						
Prep Date: 7/10/20	SeqNo: 17	727222	Units: mg/K	g								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Methyl tert-butyl ether (M	(BE) 0.92	0.10	1.000	0	92.2	70.1	121					
Benzene	0.97	0.025	1.000	0	97.0	77.3	128					
Toluene	0.99	0.050	1.000	0	99.4	79.2	125					
Ethylbenzene	0.99	0.050	1.000	0	98.6	80.7	127					
Xylenes, Total	3.0	0.10	3.000	0	101	81.6	129					
Surr: 4-Bromofluorober	izene 1.1		1.000		109	80	120					

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HALL ENVIRONMENTAL ANALYSIS LABORATORY	Hall En TEL: 50 Webs	vironmental Analysis I 4901 H Albuquerque, 5-345-3975 FAX: 505 ite: www.hallenviron	aboratory awkins NE NM 87109 Se -345-4107 nental.com	Sample Log-In Check				
Client Name: SMA-CARLSBAD	Work Ord	er Number: 180738	2	RcptNo: 1				
Received By: Isaiah Ortiz	7/10/2018 9	00:00 AM	IGA					
Completed By: Isaiah Ortiz	7/10/2018 1	1:56:35 AM	IG					
Reviewed By: ENM	7/10/18	Labeled	1 by: _	JAB 07/10	118			
Chain of Custody					<u></u>			
 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 sample	s?	Yes 🔽	No 🗌					
1. Were all samples received at a temperatu	re of >0° C to 6.0	°C Yes 🗹	No 🗌	NA 🗔				
5. Sample(s) in proper container(s)?		Yes 🖌	No 🗌					
Sufficient sample volume for indicated tes	t(s)?	Yes 🗹	No 🗌					
' Are samples (except VOA and ONG) prop	erly preserved?	Yes 🖌	No 🗔					
8. Was preservative added to bottles?		Yes 🗌	No 🗹	NA 🗌				
. VOA vials have zero headspace?		Yes 🗌	No 🗌	No VOA Vials 🗹				
). Were any sample containers received bro	ken?	Yes	No 🔽	# of preserved				
 Does paperwork match bottle labels? (Note discrepancies on chain of custody) 		Yes 🔽	No 🗔	bottles checked for pH:	10/18			
Are matrices correctly identified on Chain of	of Custody?	Yes 🔽	No 🗌	Adjusted?				
Is it clear what analyses were requested?		Yes 🗹	No 🗌		U			
. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes 🔽	No 🗌	Checked V:				
pecial Handling (if applicable)				1-21				
5. Was client notified of all discrepancies with	this order?	Yes	No 🗌	× NA 🗹				
Person Notified:		Date:						
By Whom:		Via: eMail [] Phone 🔲 Fax	in Person				
Regarding:								
Client Instructions:								

Cooler No	Temp ⁹ C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.3	Good	Yes			

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Page 51 of 224



August 15, 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: Sterling

OrderNo.: 1808257

Dear Austin Weyant:

Hall Environmental Analysis Laboratory received 29 sample(s) on 8/4/2018 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

Hall Environmental Analysis		Analytical Report Lab Order 1808257 Date Reported: 8/15/2018							
CLIENT: Souder, Miller & Associates		Client	t Sample II	D: L1	-2				
Project: Sterling	Collection Date: 8/2/2018 8:11:00 AM								
Lab ID: 1808257-001	Matrix: SOIL	Re	4/2018 10:15:00 AM						
Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch			
EPA METHOD 300.0: ANIONS					Analy	st: MRA			
Chloride	530	30	mg/Kg	20	8/7/2018 10:37:48 PM	1 39649			

Qualifiers:	3
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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 1 of 33
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis	Inc.		Analytical Report Lab Order 1808257 Date Reported: 8/15/2018					
CLIENT: Souder, Miller & Associates Project: Sterling		Client	Sample I ection Dat	D: L1	-3 2/2018 8:15:00 AM			
Lab ID: 1808257-002	Matrix: SOIL	Ree	ceived Dat	te: 8/4/2018 10:15:00 AM				
Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch		
EPA METHOD 300.0: ANIONS Chloride	390	30	mg/Kg	20	Analy 8/7/2018 10:50:13 PM	st: MRA 1 39649		

- * 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 33
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

					Analytical Report Lab Order 1808257				
Hall Environmental Analysis		Date Reported: 8/15/2018							
CLIENT: Souder, Miller & Associates		Client	Sample I	D: L2	-1				
Project: Sterling	Collection Date: 8/2/2018 8:18:00 AM								
Lab ID: 1808257-003	Matrix: SOIL	Re	Received Date: 8/4/2018 10:15:00 AM						
Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch			
EPA METHOD 300.0: ANIONS					Analy	st: MRA			
Chloride	1600	75	mg/Kg	50	8/10/2018 10:07:21 F	'M 39649			

- * 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 33
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis	s Laboratory, l	Inc.			Analytical Report Lab Order 1808257 Date Reported: 8/15/2	018
CLIENT: Souder, Miller & Associates Project: Sterling	N / L GOV	Client Coll	t Sample II ection Dat	D: L2 e: 8/2	2-3 2/2018 8:25:00 AM	
Lab ID: 1808257-004 Analyses	Matrix: SOIL Result	Re PQL Qu	ceived Dat	e: 8/2 DF	4/2018 10:15:00 AM Date Analyzed	Batch
EPA METHOD 300.0: ANIONS Chloride	350	30	mg/Kg	20	Analy: 8/7/2018 11:15:03 PM	st: MRA 1 39649

- * 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 4 of 33
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

					Analytical Report Lab Order 1808257	
Hall Environmental Analysis	s Laboratory, 1	Inc.			Date Reported: 8/15/20)18
CLIENT: Souder, Miller & Associates		Client	t Sample II	D: L2	-4	
Project: Sterling	Collection Date: 8/2/2018 8:30:00 A				2/2018 8:30:00 AM	
Lab ID: 1808257-005	Matrix: SOIL	Re	ceived Dat	e: 8/4	4/2018 10:15:00 AM	
Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	it: JRR
Chloride	83	30	mg/Kg	20	8/8/2018 5:48:17 PM	39676

- * 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 5 of 33
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis	s Laboratory, l	[nc.			Analytical Report Lab Order 1808257 Date Reported: 8/15/20)18
CLIENT: Souder, Miller & Associates Project: Sterling		Client	t Sample II ection Dat	D: L3 e: 8/2	-2 2/2018 8:45:00 AM	
Lab ID: 1808257-006	Matrix: SOIL Result	Re PQL Qi	ceived Dat	e: 8/4 DF	4/2018 10:15:00 AM Date Analyzed	Batch
EPA METHOD 300.0: ANIONS Chloride	ND	30	mg/Kg	20	Analys 8/8/2018 6:25:30 PM	t: JRR 39676

- * 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 33
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

					Analytical Report Lab Order 1808257	
Hall Environmental Analysis	s Laboratory, 1	[nc.			Date Reported: 8/15/20)18
CLIENT: Souder, Miller & Associates		Client	t Sample II	D: L4	-1	
Project: Sterling		Coll	ection Dat	e: 8/2	2/2018 9:00:00 AM	
Lab ID: 1808257-007	Matrix: SOIL	Re	ceived Dat	e: 8/4	/2018 10:15:00 AM	
Analyses	Result	PQL Qı	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: JRR
Chloride	480	30	mg/Kg	20	8/8/2018 6:37:55 PM	39676

- * 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 7 of 33
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

					Analytical Report	
					Lab Order 1808257	
Hall Environmental Analysis	s Laboratory, Inc.			Date Reported: 8/15/2018		
CLIENT: Souder, Miller & Associates		Clien	t Sample II	D: L4	2	
Project: Sterling		Coll	ection Dat	e: 8/2	2/2018 9:05:00 AM	
Lab ID: 1808257-008	Matrix: SOIL	Re	ceived Dat	e: 8/4	4/2018 10:15:00 AM	
Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: JRR
Chloride	320	30	mg/Kg	20	8/8/2018 6:50:20 PM	39676

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 8 of 33
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysi	s Laboratory,	Inc.				Analytical Report Lab Order 1808257 Date Reported: 8/15/20	018
CLIENT: Souder, Miller & Associates		Cl	ient Sa	ample II): L5	-1	
Project: Sterling Collection				tion Dat	e: 8/2	/2018 9:20:00 AM	
Lab ID: 1808257-009	Matrix: SOIL	Matrix: SOIL Received Date: 8/4/2018 10:15:00 A					
Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D MOD: GASOLINE	RANGE					Analys	t: AG
Gasoline Range Organics (GRO)	1200	24		mg/Kg	5	8/7/2018 6:56:15 PM	39617
Surr: BFB	109	70-130		%Rec	5	8/7/2018 6:56:15 PM	39617
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS					Analys	t: Irm
Diesel Range Organics (DRO)	7500	100		mg/Kg	10	8/8/2018 5:02:43 PM	39630
Motor Oil Range Organics (MRO)	2400	500		mg/Kg	10	8/8/2018 5:02:43 PM	39630
Surr: DNOP	0	50.6-138	S	%Rec	10	8/8/2018 5:02:43 PM	39630

Qualifiers: *	Value exceeds Maximum	Contaminant Level.
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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 Page 9 of 33
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis	s Laboratory,	Inc.			Analytical Report Lab Order 1808257 Date Reported: 8/15/20)18
CLIENT: Souder, Miller & Associates Project: Sterling Lab ID: 1808257-010	Matrix: SOIL	Cl (ient Sample II Collection Dat Received Dat	D: L5 e: 8/2 e: 8/4	5-2 2/2018 9:25:00 AM 4/2018 10:15:00 AM	
Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 8015D MOD: GASOLINE	RANGE				Analys	t: AG
Gasoline Range Organics (GRO)	99	4.8	mg/Kg	1	8/7/2018 9:38:40 PM	39617
Surr: BFB	122	70-130	%Rec	1	8/7/2018 9:38:40 PM	39617
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS				Analys	t: Irm
Diesel Range Organics (DRO)	1100	47	mg/Kg	5	8/9/2018 3:36:17 PM	39630
Motor Oil Range Organics (MRO)	400	230	mg/Kg	5	8/9/2018 3:36:17 PM	39630
Surr: DNOP	113	50.6-138	%Rec	5	8/9/2018 3:36:17 PM	39630

Qualifiers: *	Value exceeds Maximum	Contaminant Level.
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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 Page 10 of 33
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis	s Laboratory,	Inc.			Analytical Report Lab Order 1808257 Date Reported: 8/15/20	18
CLIENT: Souder, Miller & Associates		Cli	ient Sample II): L:	5-3	
Project: Sterling		C	Collection Date	e: 8/	2/2018 9:30:00 AM	
Lab ID: 1808257-011	Matrix: SOIL	Matrix: SOIL Received Date: 5				
Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 8015D MOD: GASOLINE	RANGE				Analysi	t: AG
Gasoline Range Organics (GRO)	18	4.9	mg/Kg	1	8/7/2018 10:01:45 PM	39617
Surr: BFB	121	70-130	%Rec	1	8/7/2018 10:01:45 PM	39617
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS				Analyst	:: Irm
Diesel Range Organics (DRO)	170	10	mg/Kg	1	8/8/2018 7:30:58 PM	39630
Motor Oil Range Organics (MRO)	68	51	mg/Kg	1	8/8/2018 7:30:58 PM	39630
Surr: DNOP	85.8	50.6-138	%Rec	1	8/8/2018 7:30:58 PM	39630

Qualifiers: *	Value exceeds Maximum	Contaminant Level.
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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 Page 11 of 33
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysi	s Laboratory,	Inc.			Analytical Report Lab Order 1808257 Date Reported: 8/15/20	018	
CLIENT: Souder, Miller & Associates		Cl	ient Sample II): L:	5-4		
Project: Sterling		(Collection Dat	e: 8/	2/2018 9:35:00 AM		
Lab ID: 1808257-012 Matrix: SOIL Received				Date: 8/4/2018 10:15:00 AM			
Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch	
EPA METHOD 8015D MOD: GASOLINE	RANGE				Analys	t: AG	
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	8/7/2018 10:24:47 PM	39617	
Surr: BFB	117	70-130	%Rec	1	8/7/2018 10:24:47 PM	39617	
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS				Analys	t: Irm	
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	8/8/2018 8:44:59 PM	39630	
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	8/8/2018 8:44:59 PM	39630	
Surr: DNOP	95.7	50.6-138	%Rec	1	8/8/2018 8:44:59 PM	39630	

Qualifiers: *	Value exceeds Maximum	Contaminant Level.
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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 Page 12 of 33
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Analytical Report Lab Order 1808257

Date Reported: 8/15/2018

CLIENT: Souder	, Miller & Associates		Cl	ient Sample II	D: L7	/-1		
Project: Sterling			(Collection Dat	e: 8/2	2/2018 9:47:00 AM		
Lab ID: 18082	57-013	Matrix: SOII	Matrix: SOIL Received Date: 8/4/2018 10:15:00 AM					
Analyses		Result	PQL	Qual Units	DF	Date Analyzed	Batch	
EPA METHOD 30	00.0: ANIONS					Analys	t: JRR	
Chloride		35	30	mg/Kg	20	8/8/2018 7:02:45 PM	39676	
EPA METHOD 80	15D MOD: GASOLIN	IE RANGE				Analys	t: AG	
Gasoline Range (Drganics (GRO)	ND	5.0	mg/Kg	1	8/7/2018 10:47:54 PM	39617	
Surr: BFB		114	70-130	%Rec	1	8/7/2018 10:47:54 PM	39617	
EPA METHOD 80	015M/D: DIESEL RAM	IGE ORGANICS				Analys	t: Irm	
Diesel Range Org	anics (DRO)	ND	9.9	mg/Kg	1	8/8/2018 9:59:18 PM	39630	
Motor Oil Range	Organics (MRO)	ND	50	mg/Kg	1	8/8/2018 9:59:18 PM	39630	
Surr: DNOP		87.5	50.6-138	%Rec	1	8/8/2018 9:59:18 PM	39630	

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

Qual	lifiers:	*

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

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 limit Page 13 of 33 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, l	Inc.			Analytical Report Lab Order 1808257 Date Reported: 8/15/2	018
CLIENT: Souder, Miller & Associates Project: Sterling Lab ID: 1808257-014	Matrix: SOIL	Client Coll Re	t Sample II ection Dat ceived Dat	D: L7 e: 8/2 e: 8/4	2-2 2/2018 9:49:00 AM 4/2018 10:15:00 AM	
Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS Chloride	1600	75	mg/Kg	50	Analy 8/10/2018 10:19:45 P	st: MRA M 39676

- * 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 14 of 33
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis	s Laboratory, l	Inc.			Analytical Report Lab Order 1808257 Date Reported: 8/15/20)18
CLIENT: Souder, Miller & Associates Project: Sterling		Client Coll	: Sample II ection Dat	D: L7 e: 8/2	-3 2/2018 9:50:00 AM	
Lab ID: 1808257-015	Matrix: SOIL	Re	ceived Dat	e: 8/4	/2018 10:15:00 AM	
Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: JRR
Chloride	910	30	mg/Kg	20	8/8/2018 7:52:22 PM	39676

- * 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 15 of 33
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

					Analytical Report	
					Lab Order 1808257	
Hall Environmental Analysis	s Laboratory, 1	Inc.			Date Reported: 8/15/20)18
CLIENT: Souder, Miller & Associates		Clien	t Sample II	D: L7	-4	
Project: Sterling		Coll	ection Dat	e: 8/2	2/2018 9:58:00 AM	
Lab ID: 1808257-016	Matrix: SOIL	Re	ceived Dat	e: 8/4	4/2018 10:15:00 AM	
Analyses	Result	PQL Qu	ial Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: JRR
Chloride	130	30	mg/Kg	20	8/8/2018 8:04:46 PM	39676

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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 16 of 33
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Analytical Report Lab Order 1808257

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 8/15/2018

CLIENT:	Souder, Miller & Associates		Clien	nt Sample II	D: SV	V1	
Project:	Sterling		Col	llection Date	e: 8/2	2/2018 10:10:00 AM	
Lab ID:	1808257-017	Matrix: SOIL	R	eceived Date	e: 8/4	4/2018 10:15:00 AM	
Analyses		Result	PQL Q	ual Units	DF	Date Analyzed	Batch
EPA MET	HOD 300.0: ANIONS					Analys	: JRR
Chloride		ND	30	mg/Kg	20	8/8/2018 8:17:11 PM	39676
EPA MET	HOD 8015D MOD: GASOLINE	RANGE				Analys	t: AG
Gasoline	Range Organics (GRO)	ND	4.8	mg/Kg	1	8/7/2018 11:10:57 PM	39617
Surr: E	3FB	111	70-130	%Rec	1	8/7/2018 11:10:57 PM	39617
EPA MET	HOD 8015M/D: DIESEL RANG	E ORGANICS				Analys	t: Irm
Diesel Ra	ange Organics (DRO)	10	9.3	mg/Kg	1	8/8/2018 11:13:23 PM	39630
Motor Oil	I Range Organics (MRO)	ND	46	mg/Kg	1	8/8/2018 11:13:23 PM	39630
Surr: E	ONOP	87.5	50.6-138	%Rec	1	8/8/2018 11:13:23 PM	39630

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 limit Page 17 of 33 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 1808257

Date Reported: 8/15/2018

CLIENT:	Souder, Miller & Associates		Cl	ient Sa	ample II	D: L9	-2	
Project:	Sterling		(Collect	tion Dat	e: 8/2	2/2018 10:33:00 AM	
Lab ID:	1808257-018	Matrix: SOIL		Recei	ved Dat	e: 8/4	/2018 10:15:00 AM	
Analyses		Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA MET	HOD 300.0: ANIONS						Analyst	JRR
Chloride		390	30		mg/Kg	20	8/8/2018 8:29:35 PM	39676
EPA MET	HOD 8015D MOD: GASOLINE	RANGE					Analyst	: AG
Gasoline	Range Organics (GRO)	180	23		mg/Kg	5	8/7/2018 11:34:02 PM	39617
Surr: E	3FB	171	70-130	S	%Rec	5	8/7/2018 11:34:02 PM	39617
EPA MET	HOD 8015M/D: DIESEL RANG	E ORGANICS					Analyst	: Irm
Diesel Ra	ange Organics (DRO)	5500	90		mg/Kg	10	8/9/2018 4:01:00 PM	39630
Motor Oil	I Range Organics (MRO)	ND	450	D	mg/Kg	10	8/9/2018 4:01:00 PM	39630
Surr: D	ONOP	0	50.6-138	S	%Rec	10	8/9/2018 4:01:00 PM	39630

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
- % 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 18 of 33 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified W

Project:

Lab ID:

CLIENT: Souder, Miller & Associates

Sterling 1808257-019 Analytical Report Lab Order 1808257

Hall Environmental	Analysis	Laboratory,	Inc.
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Lab Order **1808257** Date Reported: **8/15/2018**

Client Sample ID: L9-3	
Collection Date: 8/2/2018 10:36:00 AM	

Received Date: 8/4/2018 10:15:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	JRR
Chloride	95	30	mg/Kg	20	8/8/2018 8:42:00 PM	39676
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	AG
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	8/7/2018 11:57:08 PM	39617
Surr: BFB	120	70-130	%Rec	1	8/7/2018 11:57:08 PM	39617
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS				Analyst: Irm		
Diesel Range Organics (DRO)	44	9.7	mg/Kg	1	8/9/2018 1:41:21 AM	39630
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	8/9/2018 1:41:21 AM	39630
Surr: DNOP	86.3	50.6-138	%Rec	1	8/9/2018 1:41:21 AM	39630

Matrix: SOIL

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 19 of 33
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis	s Laboratory, l	Inc.			Analytical Report Lab Order 1808257 Date Reported: 8/15/20	18
CLIENT: Souder, Miller & Associates Project: Sterling Lab ID: 1808257-020	Matrix: SOIL	Client Coll Re	t Sample II ection Dat ceived Dat	D: SV e: 8/2 e: 8/4	V2 2/2018 10:45:00 AM 1/2018 10:15:00 AM	
Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS Chloride	540	30	mg/Kg	20	Analys 8/8/2018 8:54:25 PM	t: JRR 39676

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 20 of 33
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified
| Hall Environmental Analysis Laboratory, Inc. | | | | | Analytical Report
Lab Order 1808257
Date Reported: 8/15/20 | 018 |
|---|--------------|---------------------|--|---------------------------|--|------------------------|
| CLIENT: Souder, Miller & Associates
Project: Sterling
Lab ID: 1808257-021 | Matrix: SOIL | Clien
Coll
Re | t Sample II
lection Dat
ceived Dat | D: SV
e: 8/2
e: 8/4 | V3
2/2018 10:50:00 AM
4/2018 10:15:00 AM | |
| Analyses | Result | PQL Qu | ual Units | DF | Date Analyzed | Batch |
| EPA METHOD 300.0: ANIONS
Chloride | 950 | 75 | mg/Kg | 50 | Analys
8/9/2018 2:06:17 PM | t: JRR
39689 |

- * 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 21 of 33
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Analytical Report Lab Order 1808257

Hall Environmenta	l Analysis	Laboratory,	, Inc.
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Date Reported:	8/15/2018
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CLIENT:	Souder, Miller & Associates		Cli	ent Sample II	D: SV	V4	
Project:	Sterling		C	Collection Date	e: 8/2	2/2018 11:25:00 AM	
Lab ID:	1808257-022	Matrix: SOIL		Received Date	e: 8 /4	/2018 10:15:00 AM	
Analyses		Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA MET	HOD 300.0: ANIONS					Analysi	: JRR
Chloride		31	30	mg/Kg	20	8/9/2018 2:43:30 PM	39689
EPA MET	HOD 8015D MOD: GASOLINE	RANGE				Analyst	: AG
Gasoline	Range Organics (GRO)	ND	4.8	mg/Kg	1	8/8/2018 12:20:13 AM	39617
Surr: E	3FB	113	70-130	%Rec	1	8/8/2018 12:20:13 AM	39617
EPA MET	HOD 8015M/D: DIESEL RANGI	E ORGANICS				Analyst	: Irm
Diesel R	ange Organics (DRO)	ND	9.8	mg/Kg	1	8/9/2018 3:19:47 AM	39630
Motor Oi	I Range Organics (MRO)	ND	49	mg/Kg	1	8/9/2018 3:19:47 AM	39630
Surr: [DNOP	64.8	50.6-138	%Rec	1	8/9/2018 3:19:47 AM	39630

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 limit Page 22 of 33 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis	s Laboratory, I	nc.			Analytical Report Lab Order 1808257 Date Reported: 8/15/20)18
CLIENT: Souder, Miller & Associates Project: Sterling Lab ID: 1808257-023	Matrix: SOIL	Client Coll Red	: Sample II ection Dat ceived Dat	D: SW e: 8/2 e: 8/4	V5 2/2018 1:15:00 AM 4/2018 10:15:00 AM	
Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS Chloride	610	30	mg/Kg	20	Analys 8/9/2018 2:55:54 PM	t: JRR 39689

Qualifiers:	3
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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 23 of 33
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis	s Laboratory, 1	Inc.			Analytical Report Lab Order 1808257 Date Reported: 8/15/20	018
CLIENT: Souder, Miller & Associates		Client	t Sample II	D: SV	V6	
Project: Sterling		Coll	ection Dat	e: 8/2	2/2018 1:18:00 AM	
Lab ID: 1808257-024	Matrix: SOIL	Re	ceived Dat	e: 8/4	4/2018 10:15:00 AM	
Analyses	Result	PQL Qu	ial Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	st: JRR
Chloride	110	30	mg/Kg	20	8/9/2018 3:08:19 PM	39689

Qualifiers:	3
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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 24 of 33
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Analytical Report

Lab Order 1808257

Date Reported: 8/15/2018

CLIENT:Souder, MillerProject:SterlingLab ID:1808257-025	& Associates Matrix: SOIL	es Client Sample ID: SW7 Collection Date: 8/2/2018 1:45:00 Matrix: SOIL Received Date: 8/4/2018 10:15:0				
Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: AN	IONS				Analys	t: JRR
Chloride	ND	30	mg/Kg	20	8/9/2018 3:20:43 PM	39689
EPA METHOD 8015D MC	DD: GASOLINE RANGE				Analys	t: AG
Gasoline Range Organics	GRO) ND	4.7	mg/Kg	1	8/8/2018 12:43:12 AM	39617
Surr: BFB	117	70-130	%Rec	1	8/8/2018 12:43:12 AM	39617
EPA METHOD 8015M/D:	DIESEL RANGE ORGANICS				Analys	t: Irm
Diesel Range Organics (DF	RO) ND	9.2	mg/Kg	1	8/9/2018 4:33:28 AM	39630
Motor Oil Range Organics	(MRO) ND	46	mg/Kg	1	8/9/2018 4:33:28 AM	39630
Surr: DNOP	67.5	50.6-138	%Rec	1	8/9/2018 4:33:28 AM	39630

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 limit Page 25 of 33 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Analytical Report

	Hall	Environmenta	l Anal	ysis L	Laborat	ory, Inc.
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Lab Order 1808257

Date Reported: 8/15/2018

CLIENT: Project: Lab ID:	Souder, Miller & Associates Sterling 1808257-026	 Client Sample ID: SW8 Collection Date: 8/2/2018 1:47:00 AM Matrix: SOIL Received Date: 8/4/2018 10:15:00 AM 					
Analyses		Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA MET	HOD 300.0: ANIONS					Analys	: JRR
Chloride		ND	30	mg/Kg	20	8/9/2018 3:57:56 PM	39689
EPA MET	HOD 8015D MOD: GASOLINE	RANGE				Analys	t: AG
Gasoline	Range Organics (GRO)	ND	4.6	mg/Kg	1	8/8/2018 1:06:17 AM	39617
Surr: B	FB	110	70-130	%Rec	1	8/8/2018 1:06:17 AM	39617
EPA MET	HOD 8015M/D: DIESEL RANG	EORGANICS				Analys	t: Irm
Diesel Ra	ange Organics (DRO)	ND	9.4	mg/Kg	1	8/9/2018 10:40:32 AM	39631
Motor Oil	Range Organics (MRO)	ND	47	mg/Kg	1	8/9/2018 10:40:32 AM	39631
Surr: D	NOP	82.4	50.6-138	%Rec	1	8/9/2018 10:40:32 AM	39631

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 limit Page 26 of 33 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, l	Inc.			Analytical Report Lab Order 1808257 Date Reported: 8/15/20	18
CLIENT: Souder, Miller & Associates Project: Sterling Lab ID: 1808257-027	Matrix: SOIL	Client Coll Re	t Sample II ection Dat ceived Dat	D: SV e: 8/2 e: 8/4	2/2018 2:24:00 AM	
Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS Chloride	380	30	mg/Kg	20	Analys 8/9/2018 4:10:20 PM	t: JRR 39689

- * 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 27 of 33
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Analytical Report

Hall Environmental	l Analysis	Laboratory,	Inc.
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Lab Order 1808257

Date Reported: 8/15/2018

CLIENT: Souder, Miller & Associate Project: Sterling	Client Sample ID: SW10 Collection Date: 8/2/2018 1:40:00 AM					
Lab ID: 1808257-028	Matrix: SOIL		Received Date	e: 8/4	4/2018 10:15:00 AM	
Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: JRR
Chloride	220	30	mg/Kg	20	8/9/2018 4:22:45 PM	39689
EPA METHOD 8015D MOD: GASOLI	NE RANGE				Analys	t: AG
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	8/8/2018 1:29:27 AM	39617
Surr: BFB	110	70-130	%Rec	1	8/8/2018 1:29:27 AM	39617
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANICS				Analys	t: Irm
Diesel Range Organics (DRO)	63	9.2	mg/Kg	1	8/9/2018 11:54:10 AM	39631
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	8/9/2018 11:54:10 AM	39631
Surr: DNOP	73.2	50.6-138	%Rec	1	8/9/2018 11:54:10 AM	39631

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
- % 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 limit Page 28 of 33 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 1808257

Date Reported: 8/15/2018

CLIENT: Project:	Souder, Miller & Associates Sterling	Client Sample ID: SW11 Collection Date: 8/2/2018 3:00:00 AM					
Lab ID:	1808257-029	Matrix: SOIL		Received Dat	:e: 8/2	4/2018 10:15:00 AM	
Analyses		Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA MET	HOD 300.0: ANIONS					Analyst	: JRR
Chloride		640	30	mg/Kg	20	8/9/2018 4:35:09 PM	39689
EPA MET	HOD 8015D MOD: GASOLINE	RANGE				Analyst	AG
Gasoline	Range Organics (GRO)	ND	5.0	mg/Kg	1	8/8/2018 1:52:33 AM	39617
Surr: E	3FB	112	70-130	%Rec	1	8/8/2018 1:52:33 AM	39617
EPA MET	HOD 8015M/D: DIESEL RANG	E ORGANICS				Analyst	: Irm
Diesel Ra	ange Organics (DRO)	ND	9.5	mg/Kg	1	8/9/2018 12:18:54 PM	39631
Motor Oil	I Range Organics (MRO)	ND	48	mg/Kg	1	8/9/2018 12:18:54 PM	39631
Surr: D	ONOP	58.6	50.6-138	%Rec	1	8/9/2018 12:18:54 PM	39631

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
- % 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 limit Page 29 of 33 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified W

Client:	Souder, N	Miller & Associates			
Project:	Sterling				
Sample ID	MB-39649	SampType: mblk	TestCode: EPA Method	300.0: Anions	
Client ID:	PBS	Batch ID: 39649	RunNo: 53285		
Prep Date:	8/7/2018	Analysis Date: 8/7/2018	SeqNo: 1754280	Units: mg/Kg	
Analyte		Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Chloride		ND 1.5			
Sample ID	LCS-39649	SampType: Ics	TestCode: EPA Method	300.0: Anions	
Client ID:	LCSS	Batch ID: 39649	RunNo: 53285		
Prep Date:	8/7/2018	Analysis Date: 8/7/2018	SeqNo: 1754281	Units: mg/Kg	
Analyte		Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Chloride		14 1.5 15.00	0 96.4 90	110	
Sample ID	MB-39676	SampType: MBLK	TestCode: EPA Method	300.0: Anions	
Client ID:	PBS	Batch ID: 39676	RunNo: 53315		
Prep Date:	8/8/2018	Analysis Date: 8/8/2018	SeqNo: 1755324	Units: mg/Kg	
Analyte		Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Chloride		ND 1.5			
Sample ID	LCS-39676	SampType: LCS	TestCode: EPA Method	300.0: Anions	
Client ID:	2201	Potob ID: 20676	PunNo: 52215		
	2000	Datch ID. 390/0	Kulino. 33313		
Prep Date:	8/8/2018	Analysis Date: 8/8/2018	SeqNo: 1755325	Units: mg/Kg	
Prep Date: Analyte	8/8/2018	Analysis Date: 8/8/2018 Result PQL SPK value	SeqNo: 1755325	Units: mg/Kg HighLimit %RPD	RPDLimit Qual
Prep Date: Analyte Chloride	8/8/2018	Battin D. 39676 Analysis Date: 8/8/2018 Result PQL SPK value 14 1.5 15.00	SeqNo: 1755325 SPK Ref Val %REC LowLimit 0 0 94.7 90	Units: mg/Kg HighLimit %RPD 110	RPDLimit Qual
Prep Date: Analyte Chloride Sample ID	8/8/2018 MB-39689	Analysis Date: 8/8/2018 Result PQL SPK value 14 1.5 15.00 SampType: MBLK	SeqNo: 1755325 SPK Ref Val %REC LowLimit 0 94.7 90 TestCode: EPA Method	Units: mg/Kg <u>HighLimit %RPD</u> 110 300.0: Anions	RPDLimit Qual
Prep Date: Analyte Chloride Sample ID Client ID:	8/8/2018 MB-39689 PBS	Analysis Date: 8/8/2018 Result PQL SPK value 14 1.5 15.00 SampType: MBLK Batch ID: 39689	SeqNo: 1755325 • SPK Ref Val %REC LowLimit • 0 94.7 90 • TestCode: EPA Method RunNo: 53313 53313	Units: mg/Kg HighLimit %RPD 110	RPDLimit Qual
Prep Date: Analyte Chloride Sample ID Client ID: Prep Date:	MB-39689 PBS 8/9/2018	Analysis Date: 8/8/2018 Result PQL SPK value 14 1.5 15.00 SampType: MBLK Batch ID: 39689 Analysis Date: 8/9/2018	SeqNo: 1755325 SPK Ref Val %REC LowLimit 0 94.7 90 TestCode: EPA Method RunNo: 53322 SeqNo: 1756389	Units: mg/Kg <u>HighLimit %RPD</u> 110 300.0: Anions Units: mg/Kg	RPDLimit Qual
Prep Date: Analyte Chloride Sample ID Client ID: Prep Date: Analyte	MB-39689 PBS 8/9/2018	Analysis Date: 8/8/2018 Result PQL SPK value 14 1.5 15.00 SampType: MBLK Batch ID: 39689 Analysis Date: 8/9/2018 Result PQL SPK value	SeqNo: 1755325 SeqNo: 1755325 SPK Ref Val %REC LowLimit 0 94.7 90 TestCode: EPA Method RunNo: 53322 SeqNo: 1756389 SPK Ref Val %REC LowLimit	Units: mg/Kg HighLimit %RPD 110 I 300.0: Anions Units: mg/Kg HighLimit %RPD	RPDLimit Qual
Prep Date: Analyte Chloride Sample ID Client ID: Prep Date: Analyte Chloride	MB-39689 PBS 8/9/2018	Analysis Date: 8/8/2018 Result PQL SPK value 14 1.5 15.00 SampType: MBLK Batch ID: 39689 Analysis Date: 8/9/2018 Result PQL SPK value ND 1.5	SeqNo: 1755325 SeqNo: 1755325 SeqNo: 1755325 O 94.7 90 TestCode: EPA Method RunNo: 53322 SeqNo: 1756389 SPK Ref Val %REC LowLimit	Units: mg/Kg HighLimit %RPD 110 I 300.0: Anions Units: mg/Kg HighLimit %RPD	RPDLimit Qual
Prep Date: Analyte Chloride Sample ID Client ID: Prep Date: Analyte Chloride Sample ID	MB-39689 PBS 8/9/2018	Analysis Date: 8/8/2018 Result PQL SPK value 14 1.5 15.00 SampType: MBLK Batch ID: 39689 Analysis Date: 8/9/2018 Result PQL SPK value ND 1.5 SampType: LCS	SeqNo: 1755325 SeqNo: 1755325 SPK Ref Val %REC LowLimit 0 94.7 90 TestCode: EPA Method RunNo: 53322 SeqNo: 1756389 SPK Ref Val %REC LowLimit TestCode: EPA Method	Units: mg/Kg HighLimit %RPD 110 300.0: Anions Units: mg/Kg HighLimit %RPD	RPDLimit Qual
Prep Date: Analyte Chloride Sample ID Client ID: Prep Date: Analyte Chloride Sample ID Client ID:	B-39689 PBS 8/9/2018 LCS-39689 LCSS	Analysis Date: 8/8/2018 Result PQL SPK value 14 1.5 15.00 SampType: MBLK Batch ID: 39689 Analysis Date: 8/9/2018 Result PQL SPK value ND 1.5 SampType: LCS Batch ID: 39689	SeqNo: 1755325 SeqNo: 1755325 SeqNo: 1755325 TestCode: EPA Method RunNo: 53322 SeqNo: 1756389 SPK Ref Val %REC LowLimit TestCode: EPA Method RunNo: 53322	Units: mg/Kg HighLimit %RPD 110 I 300.0: Anions Units: mg/Kg HighLimit %RPD	RPDLimit Qual
Prep Date: Analyte Chloride Sample ID Client ID: Prep Date: Analyte Chloride Sample ID Client ID: Prep Date:	MB-39689 PBS 8/9/2018 LCS-39689 LCSS 8/9/2018	Analysis Date: 8/8/2018 Result PQL SPK value 14 1.5 15.00 SampType: MBLK Batch ID: 39689 Analysis Date: 8/9/2018 Result PQL SPK value ND 1.5 SampType: LCS Batch ID: 39689 Analysis Date: 8/9/2018	SeqNo: 1755325 SeqNo: 1755325 SPK Ref Val %REC LowLimit 0 94.7 90 TestCode: EPA Method RunNo: 53322 SeqNo: 1756389 SPK Ref Val %REC LowLimit TestCode: EPA Method RunNo: 53322 SeqNo: 1756390	Units: mg/Kg HighLimit %RPD 110 300.0: Anions Units: mg/Kg HighLimit %RPD 300.0: Anions Units: mg/Kg	RPDLimit Qual
Prep Date: Analyte Chloride Sample ID Client ID: Prep Date: Analyte Chloride Sample ID Client ID: Prep Date: Analyte	MB-39689 PBS 8/9/2018 LCS-39689 LCSS 8/9/2018	Analysis Date: 8/8/2018 Result PQL SPK value 14 1.5 15.00 SampType: MBLK Batch ID: 39689 Analysis Date: 8/9/2018 Result PQL SPK value ND 1.5 SampType: LCS Batch ID: 39689 Analysis Date: 8/9/2018 Result PQL SampType: LCS Batch ID: 39689 Analysis Date: 8/9/2018 Result PQL SPK value Analysis Date: 8/9/2018	SPK Ref Val %REC LowLimit SeqNo: 1755325 SeqNo: 1755325 TestCode: EPA Method RunNo: 53322 SeqNo: 1756389 SPK Ref Val %REC LowLimit TestCode: EPA Method RunNo: 53322 SeqNo: 1756390 SPK Ref Val %REC LowLimit	Units: mg/Kg HighLimit %RPD 110 I 300.0: Anions Units: mg/Kg HighLimit %RPD I 300.0: Anions Units: mg/Kg 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

1808257

15-Aug-18

WO#:

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Client: Sou	ider, Miller & Associ	iates						
Project: Ste	rling							
Sample ID MB-39630	SampType:	MBLK	Tes	tCode: EPA Meth	od 8015M/D: Die	esel Rang	e Organics	
Client ID: PBS	Batch ID:	39630	R	RunNo: 53282				
Prep Date: 8/7/2018	Analysis Date:	8/8/2018	S	GeqNo: 1753763	Units: mg/K	g		
Analyte	Result PC	L SPK value	SPK Ref Val	%REC LowLin	nit HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10						
Motor Oil Range Organics (MI	RO) ND	50						
Surr: DNOP	8.0	10.00		80.2 50	0.6 138			
Sample ID LCS-39630	SampType:	LCS	Tes	tCode: EPA Meth	od 8015M/D: Die	esel Rang	e Organics	
Client ID: LCSS	Batch ID:	39630	R	RunNo: 53282				
Prep Date: 8/7/2018	Analysis Date:	8/8/2018	S	SeqNo: 1753885	Units: mg/K	g		
Analyte	Result PC	L SPK value	SPK Ref Val	%REC LowLin	nit HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	10 50.00	0	88.5	70 130			
Surr: DNOP	3.9	5.000		78.8 50	0.6 138			
	Company		Тее				0	
Sample ID MB-39631	SampType:	MBLK	I es	Code: EPA Meth	od 8015M/D: Die	esel Rang	e Organics	
Client ID: PBS	Batch ID:	39631	R	lunNo: 53282				
Prep Date: 8/7/2018	Analysis Date:	8/9/2018	S	SeqNo: 1755507	Units: mg/K	(g		
Analyte	Result PC	L SPK value	SPK Ref Val	%REC LowLin	nit HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10						
Motor Oil Range Organics (MF	RO) ND	50						
Surr: DNOP	8.2	10.00		81.9 50	0.6 138			
Sample ID LCS-39631	SampType:	LCS	Tes	tCode: EPA Meth	od 8015M/D: Die	esel Rang	e Organics	
Client ID: LCSS	Batch ID:	39631	R	RunNo: 53282				
Prep Date: 8/7/2018	Analysis Date:	8/9/2018	S	SeqNo: 1755508	Units: mg/K	g		
Analyte	Result PC	L SPK value	SPK Ref Val	%REC LowLin	nit HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	10 50.00	0	92.0	70 130			
Surr: DNOP	4.0	5.000		79.0 50	0.6 138			
Sample ID 1808257-02	6AMS SampType:	MS	Tes	tCode: EPA Meth	od 8015M/D: Die	esel Rang	e Organics	
Client ID: SW8	Batch ID:	39631	R	RunNo: 53282				
Prep Date: 8/7/2018	Analysis Date:	8/9/2018	S	GeqNo: 1755510	Units: mg/K	ģ		
Analyte	Result PC	L SPK value	SPK Ref Val	%REC LowLin	nit HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47 9	9.4 47.08	2.889	92.7 53	3.5 126			
Surr: DNOP	3.9	4.708		82.6 50	0.6 138			

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#: **1808257**

15-Aug-18

Client: Project:	Souder, M	filler & Asso	ociates							
	Sterning									
Sample ID	1808257-026AMSD	SampType	e: MSD	Tes	tCode: EPA	Method	8015M/D: Die	sel Rang	e Organics	
Client ID:	SW8	Batch ID): 39631	F	RunNo: 532	82				
Prep Date:	8/7/2018	Analysis Date	e: 8/9/2018	S	SeqNo: 175	5511	Units: mg/K	g		
Analyte		Result F	PQL SPK value	SPK Ref Val	%REC L	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range	Organics (DRO)	46	9.4 46.86	2.889	91.2	53.5	126	1.95	21.7	
Surr: DNOP		3.9	4.686	5	84.2	50.6	138	0	0	
Sample ID	MB-39736	SampType	e: MBLK	Tes	tCode: EPA	A Method	8015M/D: Die	sel Rang	e Organics	
Client ID:	PBS	Batch ID): 39736	F	RunNo: 533	83				
Prep Date:	8/13/2018	Analysis Date	e: 8/13/2018	S	SeqNo: 175	8231	Units: %Rec			
Analyte		Result F	PQL SPK value	e SPK Ref Val	%REC L	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		6.5	10.00		65.4	50.6	138			
Sample ID	LCS-39736	SampType	e: LCS	Tes	tCode: EPA	Method	8015M/D: Die	sel Rang	e Organics	
Client ID:	LCSS	Batch ID): 39736	F	RunNo: 533	83				
Prep Date:	8/13/2018	Analysis Date	e: 8/13/2018	S	SeqNo: 175	8232	Units: %Rec			
Analyte		Result F	PQL SPK value	SPK Ref Val	%REC L	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		3.3	5.000)	66.5	50.6	138			

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

1808257

15-Aug-18

WO#:

Page 32 of 33

Client:	Souder, N	Miller & As	ssociate	es							
Project:	Sterling										
Sample ID	1808257-009ams	SampT	ype: MS	3	Tes	tCode: El	PA Method	8015D Mod:	Gasoline	Range	
Client ID:	L5-1	Batch	n ID: 39	617	F	RunNo: 5	3276				
Prep Date:	8/6/2018	Analysis D	ate: 8/	7/2018	S	SeqNo: 1	753410	Units: mg/ł	٨g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	ge Organics (GRO)	1100	24	23.76	1186	-556	64.7	142			S
Surr: BFB		2400		2376		101	70	130			
Sample ID	lcs-39617	SampT	ype: LC	s	Tes	tCode: El	PA Method	8015D Mod:	Gasoline	Range	
Client ID:	LCSS	Batch	n ID: 39	617	F	RunNo: 5	3276				
Prep Date:	8/6/2018	Analysis D	ate: 8/	7/2018	5	SeqNo: 1	753428	Units: mg/ł	٨g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	ge Organics (GRO)	26	5.0	25.00	0	103	70	130			
Surr: BFB		530		500.0		106	70	130			
Sample ID	mb-39617	SampT	ype: M	BLK	Tes	tCode: El	PA Method	8015D Mod:	Gasoline	Range	
Client ID:	PBS	Batch	n ID: 39	617	F	RunNo: 5	3276				
Prep Date:	8/6/2018	Analysis D	ate: 8/	7/2018	5	SeqNo: 1	753429	Units: mg/ł	٨g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	ge Organics (GRO)	ND	5.0								
Surr: BFB		570		500.0		114	70	130			
Sample ID	1808257-009amsc	I SampT	ype: MS	SD	Tes	tCode: El	PA Method	8015D Mod:	Gasoline	Range	
Client ID:	L5-1	Batch	n ID: 39	617	F	RunNo: 5	3276				
Prep Date:	8/6/2018	Analysis D	ate: 8/	7/2018	S	SeqNo: 1	753643	Units: mg/ł	٨g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	ge Organics (GRO)	1000	23	23.19	1186	-646	64.7	142	1.68	20	S
Surr: BFB		2300		2319		101	70	130	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

Released to Imaging: 10/6/2023 12:48:46 PM

- 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

WO#: 1808257 15-Aug-18

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HALL ENVIRONMENTAL ANALYSIS LABORATORY	Hall Environmental Albu TEL: 505-345-3975 Website: www.ha	Analysis Laboratory 4901 Hawkins NH uquerque, NM 87109 FAX: 505-345-4107 Ilenvironmental.com	san	nple Log-In Check List
Client Name: SMA-CARLSBAD	Work Order Number:	1808257		RcptNo: 1
Received By: Erin Melendrez	8/4/2018 10:15:00 AM	U	LA	7
Completed By: Ashley Gallegos	8/6/2018 9:21:38 AM	5	AZ	
Reviewed By: JAB 08/06/18	la	beled	by	: A volocel
<u>Chain of Custody</u>				V
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	f >0° C to 6.0°C	Yes 🗹	No 🗌	
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 🗌
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 custody)		Yes 🔽	No 🗔	for ph
12. Are matrices correctly identified on Chain of Co	ustody?	Yes 🗹	No 🗌	Adjusted?
13. Is it clear what analyses were requested?		Yes 🗹	No 🗌	612
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 thi	is order?	Yes	No 🗌	NA 🗹
Person Notified: Austin We By Whom: Ashley Go Regarding: Missing	allegos Via: X analysis f	08 00 \\8 2 eMail [] Phor 07 -008	ne 📄 Fax	In Person
Client Instructions: Qnalyze	for cl	- alex	080	06668
IO. Additional remarks: IOC IOC 17. Cooler Information Cooler No Temp °C Condition 1 2.8 Good Yes	I Intact Seal No S	eal Date Sig	ined By	

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ustody Record	AF I	Ĕ.		E E		LA	Level 4 (Full Validation)	ST ST		Sample Request ID	1-27	(7-2	67-3	C2-4	Swl	2-57	C-1-3	5w2	SW3	Swy	ŚwŚ	_ 5.4°Ce	Market Rec		Milled to thail Erryrodifileritar may be subcorrise
Chain-of-Cu	t S M	o Im	Mailing Address:	z: 10	Phone #:	email or Fax#:	**************************************	Accreditation	EDD (Tvpe)	Date Matrix	8/2/18 9227 Suil	54:6	es;6	9:54	01:01	[0,33	95-01	6:45	1030	1172	ا :لک	1:18	Zate: Time: Relinuish	Ble 190 A	it necessary, samples suu

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Turn-Around Time: S	□ Standard □ Rush_	Project Name:	Sterling	Project #:		Project Manager:	Austin We	Sampler: HwP/L	Sample Temperature: 3.1	Container Preservative Type and # Type	20h									Received by COUL	ontracted to other accredited laboratorie	
Chain-of-Custody Record	ient: SMA		ailing Address:		none #:	nail or Fax#:	VQC Package: Standard	screditation NELAP Dther	EDD (Type)	Date Time Matrix Sample Request ID	1011 145 Soil Sur	1:47 (SW 8	Sms (Hi.1)	0/005 / 01:1 ($(3\omega)/(2\omega)$					ate: Time: Retriguished ty:	If hecessary, samples outbritted to Hall Environmental may be subco	

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Received by OCD: 10/5/2023 9:17:38 AM.

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October 09, 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.: 1810095

RE: Sterling

Dear Austin Weyant:

Hall Environmental Analysis Laboratory received 13 sample(s) on 10/2/2018 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

Hall Environmental Analysis	s Laboratory, l	nc.		Analytical Report Lab Order 1810095 Date Reported: 10/9/2	2018
CLIENT:Souder, Miller & AssociatesProject:SterlingLab ID:1810095-001	Matrix: SOIL	Client Colle Rec	Sample I ection Dat ceived Dat	D: L-10-2 e: 9/28/2018 10:20:00 AN e: 10/2/2018 9:15:00 AM	1
Analyses	Result	PQL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS Chloride	86	30	mg/Kg	Analy 20 10/4/2018 2:05:23 PM	st: MRA / 40802

Qualifiers:	:
Quanners.	

- * 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 17
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

					Analytical Report Lab Order 1810095	
Hall Environmental Analysis	s Laboratory, 1	Inc.			Date Reported: 10/9/2	018
CLIENT: Souder, Miller & Associates		Client	t Sample II	D: L1	1-2	
Project: Sterling		Coll	ection Dat	e: 9/2	28/2018 10:40:00 AM	[
Lab ID: 1810095-002	Matrix: SOIL	Re	ceived Dat	e: 10	/2/2018 9:15:00 AM	
Analyses	Result	PQL Qı	ıal Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	st: MRA
Chloride	140	30	mg/Kg	20	10/4/2018 2:17:47 PM	40802

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
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- ND Not Detected at the Reporting Limit
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- E Value above quantitation range
- J Analyte detected below quantitation limits Page 2 of 17
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Analytical Report

Hall Environmental Analysis Laboratory, Inc.

Lab Order 1810095

Date Reported: 10/9/2018

CLIENT: Souder, Miller & Associates		Cl	ient Sample II): SV	V10			
Project: Sterling	Collection Date: 9/28/2018 12:28:00 PM							
Lab ID: 1810095-003	Matrix: SOIL	Received Date: 10/2/2018 9:15:00 AM						
Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch		
EPA METHOD 300.0: ANIONS					Analyst	MRA		
Chloride	170	30	mg/Kg	20	10/4/2018 3:19:50 PM	40802		
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	: Irm		
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	10/5/2018 11:31:42 PM	40813		
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	10/5/2018 11:31:42 PM	40813		
Surr: DNOP	94.3	50.6-138	%Rec	1	10/5/2018 11:31:42 PM	40813		
EPA METHOD 8015D: GASOLINE RANGI	E				Analyst	: NSB		
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	10/4/2018 2:02:41 PM	40785		
Surr: BFB	97.5	15-316	%Rec	1	10/4/2018 2:02:41 PM	40785		
EPA METHOD 8021B: VOLATILES					Analyst	: NSB		
Benzene	ND	0.025	mg/Kg	1	10/4/2018 2:02:41 PM	40785		
Toluene	ND	0.050	mg/Kg	1	10/4/2018 2:02:41 PM	40785		
Ethylbenzene	ND	0.050	mg/Kg	1	10/4/2018 2:02:41 PM	40785		
Xylenes, Total	ND	0.099	mg/Kg	1	10/4/2018 2:02:41 PM	40785		
Surr: 4-Bromofluorobenzene	91.7	80-120	%Rec	1	10/4/2018 2:02:41 PM	40785		

- * 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 3 of 17 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 I aboratory]	Inc			Analytical Report Lab Order 1810095	
	S Laboratory,	IIIC.			Date Reported: 10/9/2	018
CLIENT: Souder, Miller & Associates		Client	t Sample II	D: SV	W1	
Project: Sterling		Coll	ection Dat	e: 9/2	28/2018 11:26:00 AM	
Lab ID: 1810095-004	Matrix: SOIL	Re	ceived Dat	e: 10	/2/2018 9:15:00 AM	
Analyses	Result	PQL Qı	ıal Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	st: MRA
Chloride	ND	30	mg/Kg	20	10/4/2018 3:32:15 PM	40802

- * 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 4 of 17
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

					Analytical Report			
Hall Environmental Analysis	s Laboratory, 1	boratory, Inc.			Date Reported: 10/9/20			
CLIENT: Souder, Miller & Associates		Client	Sample I	D:L1	-1			
Project: Sterling		Coll	ection Dat	e: 9/2	28/2018 8:48:00 AM			
Lab ID: 1810095-005	Matrix: SOIL	Ree	eived Dat	e: 10	/2/2018 9:15:00 AM			
Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch		
EPA METHOD 300.0: ANIONS					Analys	st: MRA		
Chloride	ND	30	mg/Kg	20	10/4/2018 3:44:40 PM	40802		

- * 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 5 of 17
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

					Analytical Report		
Hall Environmental Analysis Laboratory, Inc.				Lab Order 1810095 Date Reported: 10/9/2018			
CLIENT: Souder, Miller & Associates	• •	Client	t Sample II	D: L2	-2		
Project: Sterling		Coll	ection Dat	e: 9/2	28/2018 8:34:00 AM		
Lab ID: 1810095-006	Matrix: SOIL	Re	ceived Dat	e: 10	/2/2018 9:15:00 AM		
Analyses	Result	PQL Qı	ual Units	DF	Date Analyzed	Batch	
EPA METHOD 300.0: ANIONS					Analys	t: MRA	
Chloride	ND	30	mg/Kg	20	10/4/2018 3:57:04 PM	40802	

- * 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 17
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis	s Laboratory, l	nc.			Analytical Report Lab Order 1810095 Date Reported: 10/9/20	018
CLIENT: Souder, Miller & Associates Project: Sterling Lab ID: 1810095-007	Matrix: SOIL	Client Coll Ree	: Sample II ection Dat ceived Dat	D: L3 e: 9/2 e: 10	- 3-0.5 28/2018 11:08:00 AM /2/2018 9:15:00 AM	
Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS Chloride	ND	30	mg/Kg	20	Analys 10/4/2018 4:09:29 PM	t: MRA 40802

- * 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 7 of 17
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis	s Laboratory, l	Inc.			Analytical Report Lab Order 1810095 Date Reported: 10/9/20	918
CLIENT: Souder, Miller & Associates		Client	t Sample II	D: L4	-0.5	
Project: Sterling		Coll	ection Dat	e: 9/2	28/2018 9:12:00 AM	
Lab ID: 1810095-008	Matrix: SOIL	Re	ceived Dat	e: 10/	/2/2018 9:15:00 AM	
Analyses	Result	PQL Qı	ual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: MRA
Chloride	2600	75	mg/Kg	50	10/8/2018 2:23:28 PM	40802

- * 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 8 of 17
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Analytical Report

Hall	Environmental	Ana	lysis	Laborat	tory,	Inc.

Lab Order 1810095

Date Reported: 10/9/2018

CLIENT: Souder, Miller & Associates	Client Sample ID: L5-2						
Project: Sterling	Collection Date: 9/28/2018 2:45:00 AM						
Lab ID: 1810095-009	Matrix: SOIL	Received Date: 10/2/2018 9:15:00 AM					
Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch	
EPA METHOD 300.0: ANIONS					Analyst	: smb	
Chloride	180	30	mg/Kg	20	10/5/2018 10:34:27 AN	40831	
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	: Irm	
Diesel Range Organics (DRO)	11	9.7	mg/Kg	1	10/5/2018 11:53:42 PM	40813	
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	10/5/2018 11:53:42 PN	40813	
Surr: DNOP	98.7	50.6-138	%Rec	1	10/5/2018 11:53:42 PM	40813	
EPA METHOD 8015D: GASOLINE RANGE	E				Analyst	: NSB	
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/4/2018 2:26:02 PM	40785	
Surr: BFB	98.0	15-316	%Rec	1	10/4/2018 2:26:02 PM	40785	
EPA METHOD 8021B: VOLATILES					Analyst	: NSB	
Benzene	ND	0.024	mg/Kg	1	10/4/2018 2:26:02 PM	40785	
Toluene	ND	0.049	mg/Kg	1	10/4/2018 2:26:02 PM	40785	
Ethylbenzene	ND	0.049	mg/Kg	1	10/4/2018 2:26:02 PM	40785	
Xylenes, Total	ND	0.098	mg/Kg	1	10/4/2018 2:26:02 PM	40785	
Surr: 4-Bromofluorobenzene	94.2	80-120	%Rec	1	10/4/2018 2:26:02 PM	40785	

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
- % 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 17 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis	s Laboratory, l	Inc.		Analytical Report Lab Order 1810095 Date Reported: 10/9/2018		
CLIENT: Souder, Miller & Associates Project: Sterling		Client Colle	Sample I ection Dat	D: L6-0.5 te: 9/28/2018 12:15:00 PM		
Lab ID: 1810095-010	Matrix: SOIL	Ree	eived Dat	te: 10/2/2018 9:15:00 AM		
Analyses	Result	PQL Qu	al Units	DF Date Analyzed	Batch	
EPA METHOD 300.0: ANIONS Chloride	50	30	mg/Kg	Analys 20 10/4/2018 4:34:18 PM	st: MRA 40802	

- * 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 10 of 17
- 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

1810095-011

Sterling

Analytical Report
Lab Order 1810095

Lab Order 1810095 Date Reported: 10/9/2018

Client Sample ID: L7-0.5						
Collection Date: 9/28/2018 12:01:00 PM						
Received Date: 10/2/2018 9:15:00 AM						

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: smb
Chloride	ND	30	mg/Kg	20	10/5/2018 11:11:41 AM	40831
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst	: Irm
Diesel Range Organics (DRO)	520	9.9	mg/Kg	1	10/6/2018 12:15:44 AM	40813
Motor Oil Range Organics (MRO)	610	49	mg/Kg	1	10/6/2018 12:15:44 AM	40813
Surr: DNOP	126	50.6-138	%Rec	1	10/6/2018 12:15:44 AM	40813
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/4/2018 2:49:24 PM	40785
Surr: BFB	96.7	15-316	%Rec	1	10/4/2018 2:49:24 PM	40785
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	10/4/2018 2:49:24 PM	40785
Toluene	ND	0.049	mg/Kg	1	10/4/2018 2:49:24 PM	40785
Ethylbenzene	ND	0.049	mg/Kg	1	10/4/2018 2:49:24 PM	40785
Xylenes, Total	ND	0.097	mg/Kg	1	10/4/2018 2:49:24 PM	40785
Surr: 4-Bromofluorobenzene	93.4	80-120	%Rec	1	10/4/2018 2:49:24 PM	40785

Matrix: SOIL

- * 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 11 of 17
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis	s Laboratory, l	Inc.			Analytical Report Lab Order 1810095 Date Reported: 10/9/2	018
CLIENT: Souder, Miller & Associates		Clien	t Sample II	D: L8	-0.5	
Lab ID: 1810095-012	Matrix: SOIL	Re	ceived Dat	e: 9/2	/2/2018 9:15:00 AM	
Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS Chloride	200	30	mg/Kg	20	Analy: 10/5/2018 11:24:05 A	st: smb M 40831

Qualifiers:	3
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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 12 of 17
- 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

1810095-013

Sterling

Analytical Report
Lab Order 1810095

Hall	Environmental	Analysis	Laboratory,	Inc.
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Lab Order **1810095** Date Reported: **10/9/2018**

	Client Sample ID: SW-3
	Collection Date: 9/28/2018 9:46:00 AM
Matrix: SOIL	Received Date: 10/2/2018 9:15:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: smb
Chloride	140	30	mg/Kg	20	10/5/2018 11:36:29 AM	40831
EPA METHOD 8015M/D: DIESEL RANGE OF	GANICS				Analyst	: Irm
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	10/6/2018 12:37:49 AM	40813
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	10/6/2018 12:37:49 AM	40813
Surr: DNOP	52.2	50.6-138	%Rec	1	10/6/2018 12:37:49 AM	40813
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	10/4/2018 3:12:48 PM	40785
Surr: BFB	98.3	15-316	%Rec	1	10/4/2018 3:12:48 PM	40785
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	10/4/2018 3:12:48 PM	40785
Toluene	ND	0.047	mg/Kg	1	10/4/2018 3:12:48 PM	40785
Ethylbenzene	ND	0.047	mg/Kg	1	10/4/2018 3:12:48 PM	40785
Xylenes, Total	ND	0.095	mg/Kg	1	10/4/2018 3:12:48 PM	40785
Surr: 4-Bromofluorobenzene	94.8	80-120	%Rec	1	10/4/2018 3:12:48 PM	40785

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 13 of 17
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Client:	Souder, N	Miller & Asso	ciates								
Project:	Sterling										
Sample ID	MB-40802	SampType	: mblk		Tes	Code:	EPA Method	300.0: Anion	s		
Client ID:	PBS	Batch ID	: 40802	2	R	unNo:	54642				
Prep Date:	10/4/2018	Analysis Date	: 10/4/	2018	S	eqNo:	1813615	Units: mg/K	g		
Analyte		Result P	QL SI	PK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND	1.5								
Sample ID	LCS-40802	SampType	: Ics		Tes	Code:	EPA Method	300.0: Anion	s		
Client ID:	LCSS	Batch ID	: 40802	2	R	unNo:	54642				
Prep Date:	10/4/2018	Analysis Date	: 10/4/	2018	S	eqNo:	1813616	Units: mg/K	g		
Analyte		Result P	QL SI	PK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		14	1.5	15.00	0	94.0	90	110			
Sample ID	MB-40831	SampType	: mblk		Tes	Code:	EPA Method	300.0: Anion	s		
Client ID:	PBS	Batch ID	: 40831		R	unNo:	54680				
Prep Date:	10/5/2018	Analysis Date	: 10/5/	2018	S	eqNo:	1815578	Units: mg/K	g		
Analyte		Result P	QL SI	PK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND	1.5								
Sample ID	LCS-40831	SampType	: Ics		Tes	Code:	EPA Method	300.0: Anion	s		
Client ID:	LCSS	Batch ID	: 40831		R	unNo:	54680				
Prep Date:	10/5/2018	Analysis Date	: 1 0/5/	2018	S	eqNo:	1815579	Units: mg/K	g		
Analyte		Result P	QL SI	PK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		15	1.5	15.00	0	98.3	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

Released to Imaging: 10/6/2023 12:48:46 PM

- 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
 - V Sample container temperature is out of limit as specified

1810095

09-Oct-18

WO#:

Page 14 of 17

Client:	Souder,	Miller & As	sociate	es							
Project:	Sterling										
Sample ID	LCS-40834	SampTy	/pe: LC	s	Tes	tCode: E	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID:	LCSS	Batch	ID: 40	834	F	RunNo: 5	4672				
Prep Date:	10/5/2018	Analysis Da	ate: 10	0/5/2018	S	SeqNo: 1	814135	Units: %Re	C		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP)	5.4		5.000		109	50.6	138			
Sample ID	MB-40834	SampTy	vpe: ME	BLK	Tes	tCode: E	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID:	PBS	Batch	ID: 40	834	F	RunNo: 5	4672				
Prep Date:	10/5/2018	Analysis Da	ate: 10	0/5/2018	S	SeqNo: 1	814136	Units: %Re	C		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP)	12		10.00		122	50.6	138			
Sample ID	LCS-40813	SampTy	vpe: LC	s	Tes	tCode: E	PA Method	8015M/D: Di	esel Rang	e Organics	
Sample ID Client ID:	LCS-40813 LCSS	SampTy Batch	/pe: LC ID: 40	:S 813	Tes F	tCode: E RunNo: 5	PA Method 4672	8015M/D: Di	esel Rang	e Organics	
Sample ID Client ID: Prep Date:	LCS-40813 LCSS 10/4/2018	SampTy Batch Analysis Da	vpe: LC ID: 40 ate: 10	:S 813 D/5/2018	Tes F S	tCode: E RunNo: 5 SeqNo: 1	PA Method 4672 815335	8015M/D: Die Units: mg/k	esel Rang	e Organics	
Sample ID Client ID: Prep Date: Analyte	LCS-40813 LCSS 10/4/2018	SampTy Batch Analysis Da Result	/pe: LC ID: 40 ate: 1(PQL	: S 813 0/5/2018 SPK value	Tes F S SPK Ref Val	tCode: E RunNo: 5 SeqNo: 1 %REC	PA Method 4672 815335 LowLimit	8015M/D: Die Units: mg/k HighLimit	esel Rang Xg %RPD	e Organics	Qual
Sample ID Client ID: Prep Date: Analyte Diesel Range 0	LCS-40813 LCSS 10/4/2018 Organics (DRO)	SampTy Batch Analysis Da Result 50	/pe: LC ID: 40 ate: 1(PQL 10	S 813 0/5/2018 SPK value 50.00	Tes F S SPK Ref Val 0	tCode: E RunNo: 5 SeqNo: 1 %REC 101	PA Method 4672 815335 LowLimit 70	8015M/D: Did Units: mg/K HighLimit 130	esel Rang Kg %RPD	e Organics	Qual
Sample ID Client ID: Prep Date: Analyte Diesel Range (Surr: DNOP	LCS-40813 LCSS 10/4/2018 Organics (DRO)	SampTy Batch Analysis Da Result 50 5.8	rpe: LC ID: 40 ate: 10 PQL 10	S 813 0/5/2018 SPK value 50.00 5.000	Tes F S SPK Ref Val 0	tCode: E RunNo: 5 SeqNo: 1 <u>%REC</u> 101 117	PA Method 4672 815335 LowLimit 70 50.6	8015M/D: Die Units: mg/k HighLimit 130 138	esel Rang Kg %RPD	e Organics	Qual
Sample ID Client ID: Prep Date: Analyte Diesel Range (Surr: DNOP Sample ID	LCS-40813 LCSS 10/4/2018 Organics (DRO)	SampTy Batch Analysis Da Result 50 5.8 SampTy	rpe: LC ID: 40 ate: 10 PQL 10 rpe: ME	S 813 0/5/2018 SPK value 50.00 5.000 BLK	Tes F SPK Ref Val 0 Tes	tCode: E RunNo: 5 SeqNo: 1 %REC 101 117 tCode: E	PA Method 4672 815335 LowLimit 70 50.6 PA Method	8015M/D: Did Units: mg/k HighLimit 130 138 8015M/D: Did	esel Rang Xg %RPD esel Rang	e Organics RPDLimit	Qual
Sample ID Client ID: Prep Date: Analyte Diesel Range (Surr: DNOP Sample ID Client ID:	LCS-40813 LCSS 10/4/2018 Organics (DRO) MB-40813 PBS	SampTy Batch Analysis Da Result 50 5.8 SampTy Batch	/pe: LC ID: 40 ate: 10 PQL 10 /pe: ME ID: 40	S 813 0/5/2018 SPK value 50.00 5.000 BLK 813	Tes F SPK Ref Val 0 Tes F	tCode: E RunNo: 5 SeqNo: 1 %REC 101 117 tCode: E RunNo: 5	PA Method 4672 815335 LowLimit 70 50.6 PA Method 4672	8015M/D: Die Units: mg/H HighLimit 130 138 8015M/D: Die	esel Rang Kg %RPD esel Rang	e Organics RPDLimit	Qual
Sample ID Client ID: Prep Date: Analyte Diesel Range (Surr: DNOP Sample ID Client ID: Prep Date:	LCS-40813 LCSS 10/4/2018 Organics (DRO) MB-40813 PBS 10/4/2018	SampTy Batch Analysis Da Result 50 5.8 SampTy Batch Analysis Da	rpe: LC ID: 40 ate: 10 PQL 10 rpe: ME ID: 40 ate: 10	S 813 5/5/2018 SPK value 50.00 5.000 BLK 813 5/5/2018	Tes F SPK Ref Val 0 Tes F S	tCode: E RunNo: 5 SeqNo: 1 %REC 101 117 tCode: E RunNo: 5 SeqNo: 1	PA Method 4672 815335 LowLimit 70 50.6 PA Method 4672 815336	8015M/D: Dia Units: mg/k HighLimit 130 138 8015M/D: Dia Units: mg/k	esel Rang %RPD esel Rang	e Organics RPDLimit	Qual
Sample ID Client ID: Prep Date: Analyte Diesel Range (Surr: DNOP Sample ID Client ID: Prep Date: Analyte	LCS-40813 LCSS 10/4/2018 Organics (DRO) MB-40813 PBS 10/4/2018	SampTy Batch Analysis Da Result 50 5.8 SampTy Batch Analysis Da Result	rpe: LC ID: 40 ate: 1(PQL 10 rpe: ME ID: 40 ate: 1(PQL	S 813 5/5/2018 SPK value 50.00 5.000 3LK 813 5/5/2018 SPK value	Tes F SPK Ref Val 0 Tes F SPK Ref Val	tCode: E RunNo: 5 SeqNo: 1 %REC 101 117 tCode: E RunNo: 5 SeqNo: 1 %REC	PA Method 4672 815335 LowLimit 70 50.6 PA Method 4672 815336 LowLimit	8015M/D: Dia Units: mg/k HighLimit 130 138 8015M/D: Dia Units: mg/k HighLimit	esel Rang %RPD esel Rang %RPD	e Organics RPDLimit e Organics	Qual
Sample ID Client ID: Prep Date: Analyte Diesel Range (Surr: DNOP Sample ID Client ID: Prep Date: Analyte Diesel Range (LCS-40813 LCSS 10/4/2018 Organics (DRO) MB-40813 PBS 10/4/2018 Organics (DRO)	SampTy Batch Analysis Da Result 50 5.8 SampTy Batch Analysis Da Result ND	rpe: LC ID: 40 ate: 1(PQL 10 rpe: ME ID: 40 ate: 1(PQL 10	SPK value 50.00 5.000 5.000 3LK 813 0/5/2018 SPK value	Tes F SPK Ref Val 0 Tes F SPK Ref Val	tCode: E RunNo: 5 SeqNo: 1 %REC 101 117 tCode: E RunNo: 5 SeqNo: 1 %REC	PA Method 4672 815335 LowLimit 70 50.6 PA Method 4672 815336 LowLimit	8015M/D: Dia Units: mg/k HighLimit 130 138 8015M/D: Dia Units: mg/k HighLimit	esel Rang %RPD esel Rang %RPD	e Organics RPDLimit e Organics RPDLimit	Qual
Sample ID Client ID: Prep Date: Analyte Diesel Range (Surr: DNOP Sample ID Client ID: Prep Date: Analyte Diesel Range (Motor Oil Range	LCS-40813 LCSS 10/4/2018 Organics (DRO) MB-40813 PBS 10/4/2018 Organics (DRO) ge Organics (MRO)	SampTy Batch Analysis Da Result 50 5.8 SampTy Batch Analysis Da Result ND ND	rpe: LC ID: 40 ate: 10 PQL 10 rpe: ME ID: 40 ate: 10 PQL 10 50	S 813 5/5/2018 SPK value 50.00 5.000 3LK 813 5/5/2018 SPK value	Tes F SPK Ref Val 0 Tes F SPK Ref Val	tCode: E RunNo: 5 SeqNo: 1 %REC 101 117 tCode: E RunNo: 5 SeqNo: 1 %REC	PA Method 4672 815335 LowLimit 70 50.6 PA Method 4672 815336 LowLimit	8015M/D: Dia Units: mg/k HighLimit 130 138 8015M/D: Dia Units: mg/k HighLimit	esel Rang %RPD esel Rang %RPD	e Organics RPDLimit e Organics RPDLimit	Qual

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
 - Sample container temperature is out of limit as specified

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- WO#: 1810095 09-Oct-18

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Client:	Souder, N	/liller & As	sociate	es							
Project:	Sterling										
Sample ID	MB-40785	SampTy	/pe: MI	BLK	Test	tCode: El	PA Method	8015D: Gasol	ine Rang	e	
Client ID:	PBS	Batch	ID: 40	785	R	unNo: 54	4638				
Prep Date:	10/3/2018	Analysis Da	ate: 1	0/4/2018	S	eqNo: 1	812890	Units: mg/Kg	9		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	ge Organics (GRO)	ND	5.0								
Surr: BFB		950		1000		95.5	15	316			
Sample ID	LCS-40785	SampTy	/pe: LC	s	Test	tCode: El	PA Method	8015D: Gasol	ine Rang	e	
Client ID:	LCSS	Batch	ID: 40	785	R	unNo: 54	4638				
Prep Date:	10/3/2018	Analysis Da	ate: 1	0/4/2018	S	eqNo: 1	812891	Units: mg/Kg	9		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	ge Organics (GRO)	24	5.0	25.00	0	96.2	75.9	131			
Surr: BFB		1100		1000		110	15	316			
Sample ID	MB-40791	SampTy	/pe: MI	BLK	Test	tCode: El	PA Method	8015D: Gasol	ine Rang	e	
Client ID:	PBS	Batch	ID: 40	791	R	unNo: 54	4638				
Prep Date:	10/3/2018	Analysis Da	ate: 1	0/4/2018	S	eqNo: 1	812912	Units: %Rec			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB		960		1000		96.0	15	316			
Sample ID	LCS-40791	SampTy	/pe: LC	s	Test	tCode: El	PA Method	8015D: Gasol	ine Rang	e	
Client ID:	LCSS	Batch	ID: 40	791	R	unNo: 54	4638				
Prep Date:	10/3/2018	Analysis Da	ate: 1	0/4/2018	S	eqNo: 1	812913	Units: %Rec			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB		1100		1000		112	15	316			

Qualifiers:

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- 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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Client:	Souder,	Miller & A	ssociate	es							
Project:	Sterling										
Sample ID	MB-40785	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID:	PBS	Batch	ו ID: 40	785	R	anNo: 54	4638				
Prep Date:	10/3/2018	Analysis D	ate: 10	0/4/2018	S	SeqNo: 1	812931	Units: mg/k	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-Brom	ofluorobenzene	0.91		1.000		91.3	80	120			
Sample ID	LCS-40785	SampT	ype: LC	s	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID:	LCSS	Batch	וD: 40	785	R	anNo: 54	4638				
Prep Date:	10/3/2018	Analysis D	ate: 10	0/4/2018	S	eqNo: 1	812932	Units: mg/k	ζg		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.91	0.025	1.000	0	91.0	77.3	128			
Toluene		0.95	0.050	1.000	0	94.5	79.2	125			
Ethylbenzene		0.93	0.050	1.000	0	93.5	80.7	127			
Xylenes, Total		2.8	0.10	3.000	0	93.8	81.6	129			
Surr: 4-Brom	ofluorobenzene	0.97		1.000		97.0	80	120			
Sample ID	MB-40791	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID:	PBS	Batch	ו ID: 40	791	R	RunNo: 54	4638				
Prep Date:	10/3/2018	Analysis D	ate: 10	0/4/2018	S	SeqNo: 1	812949	Units: %Re	C		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Brom	ofluorobenzene	0.92		1.000		92.2	80	120			
Sample ID	LCS-40791	SampT	ype: LC	s	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID:	LCSS	Batch	ו ID: 40	791	R	aunNo: 54	4638				
Prep Date:	10/3/2018	Analysis D	ate: 10	0/4/2018	S	SeqNo: 1	812950	Units: %Re	C		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Brom	ofluorobenzene	0.97		1.000		96.7	80	120			

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- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

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Client N	Name:	SMA-CAR	LSBAD	Wor	k Order Nur	nber: 181	0095			RcptNo:	1	
Receive	ed By:	Victoria 2	Zellar	10/2/2	018 9:15:00) AM		Victor	ua G	llan		
Comple	eted By:	Ashley G	allegos	10/2/2	018 12:28:4	3 PM		A	3			
Reviewe	ed By:	TD		10/2/12	K	Lal	sel(ed	b	V' TAB	10/02/1	
Chain (of Cus	todv										
1. Is Ch	nain of Cu	ustody comp	lete?			Yes		No		Not Present		
2. How	was the s	sample deliv	vered?			<u>Cou</u>	rier					
Log In	ר											
3. Was a	- an attem	pt made to (cool the samp	les?		Yes		No		NA 🗌		
4. Were	all samp	les received	l at a tempera	ture of >0° C	to 6.0°C	Yes		No		NA 🗌		
5. Samp	ole(s) in p	roper conta	iner(s)?			Yes		No				
6. Suffici	ient samp	ole volume f	or indicated te	est(s)?		Yes		No				
7. Are sa	amples (e	except VOA	and ONG) pro	perly preserv	ed?	Yes		No				
8. Was p	preservati	ive added to	bottles?			Yes		No	✓	NA 🗌		
9. VOA v	ials have	zero heads	space?			Yes		No		No VOA Vials 🗹		
10, Were	any sam	ple containe	ers received b	roken?		Yes		No		# of preserved		
11. Does p (Note (paperwor discrepar	k match bot ncies on cha	tle labels? ain of custody)		Yes	V	No		for pH:	12 unless noted)	
12. Are ma	atrices co	prrectly iden	tified on Chai	n of Custody?		Yes	✓	No		Adjusted?	0	
13. Is it cle	ear what	analyses we	ere requested	?		Yes	~	No				
14. Were a (If no, i	all holding notify cus	g times able stomer for a	to be met? uthorization.)			Yes	✓	No		Checked by: T	DAD10/2/18	
Special	Handliı	ng (if app	licable)									
15. Was c	client noti	fied of all di	screpancies v	vith this order?	?	Yes		No		NA 🗹		
ļ	Person N	lotified:			Date	r						
l I	By Whon	n:		****	″Via:	eMa	ii 📋 P	hone 🗔	Fax	In Person		
F	Regardin	g:										
(Client Ins	structions:								NTER OF THE OWNER OF		
16. Additi	ional rem	arks:		···· ···· · ····· ·			· · · · · · · · · · · · · · · · · · ·	···-···				
17. Cook	er Inform	ation										
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				0.1																								Ĩ



October 11, 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

OrderNo.: 1810268

Dear Austin Weyant:

RE: Sterling

Hall Environmental Analysis Laboratory received 1 sample(s) on 10/4/2018 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

Project:

CLIENT: Souder, Miller & Associates

Sterling

Analytical Report Lab Order 1810268

Date Reported: 10/11/2018

Client Sample ID: L9-2 Collection Date: 10/1/2018 12:45:00 PM Received Date: 10/4/2018 8:55:00 AM

Lab ID: 1810268-001	Matrix: SOIL		Received Dat	e: 10	/4/2018 8:55:00 AM	
Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	MRA
Chloride	140	30	mg/Kg	20	10/6/2018 5:55:04 PM	40852
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst:	Irm
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	10/10/2018 3:27:45 PM	40900
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	10/10/2018 3:27:45 PM	40900
Surr: DNOP	102	50.6-138	%Rec	1	10/10/2018 3:27:45 PM	40900
EPA METHOD 8015D: GASOLINE RANGE	E				Analyst:	NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	10/9/2018 10:28:59 AM	40866
Surr: BFB	88.8	15-316	%Rec	1	10/9/2018 10:28:59 AM	40866
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
Benzene	ND	0.024	mg/Kg	1	10/9/2018 10:28:59 AM	40866
Toluene	ND	0.048	mg/Kg	1	10/9/2018 10:28:59 AM	40866
Ethylbenzene	ND	0.048	mg/Kg	1	10/9/2018 10:28:59 AM	40866
Xylenes, Total	ND	0.095	mg/Kg	1	10/9/2018 10:28:59 AM	40866
Surr: 4-Bromofluorobenzene	96.1	80-120	%Rec	1	10/9/2018 10:28:59 AM	40866

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
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 1 of 5 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 Sterling	Miller & Assoc	iates					
Sample ID	MB-40852	SampType:	mblk	Test	Code: EPA Method	300.0: Anions		
Client ID:	PBS	Batch ID:	40852	R	unNo: 54700			
Prep Date:	10/5/2018	Analysis Date:	10/6/2018	S	eqNo: 1815489	Units: mg/Kg		
Analyte		Result PC	L SPK value	SPK Ref Val	%REC LowLimit	HighLimit %RP	D RPDLimit	Qual
Chloride		ND	1.5					
Sample ID	LCS-40852	SampType:	lcs	Test	Code: EPA Method	300.0: Anions		
Client ID:	LCSS	Batch ID:	40852	R	unNo: 54700			
Prep Date:	10/5/2018	Analysis Date:	10/6/2018	S	eqNo: 1815490	Units: mg/Kg		
Analyte		Result PC	L SPK value	SPK Ref Val	%REC LowLimit	HighLimit %RP	D RPDLimit	Qual
Chloride		15	1.5 15.00	0	96.9 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
- RL
- W Sample container temperature is out of limit as specified

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WO#:

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- Released to Imaging: 10/6/2023 12:48:46 PM

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client:	Souder, N	/liller & A	ssociate	es							
Project:	Sterling										
Sample ID	LCS-40900	SampT	ype: LC	s	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID:	LCSS	Batch	n ID: 40	900	F	RunNo: 5	4778				
Prep Date:	10/9/2018	Analysis D	Date: 1	0/10/2018	S	SeqNo: 1	819055	Units: mg/ł	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range	Organics (DRO)	45	10	50.00	0	89.3	70	130			
Surr: DNOP)	4.4		5.000		87.9	50.6	138			
Sample ID	MB-40900	SampT	ype: MI	BLK	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID:	PBS	Batch	n ID: 40	900	F	RunNo: 5	4778				
Prep Date:	10/9/2018	Analysis D	Date: 1	0/10/2018	S	SeqNo: 1	819056	Units: mg/ł	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range	Organics (DRO)	ND	10								
Motor Oil Rang	ge Organics (MRO)	ND	50								
Surr: DNOP)	9.8		10.00		98.2	50.6	138			
Sample ID	1810268-001AMS	SampT	ype: M	S	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID:	L9-2	Batch	n ID: 40	900	F	RunNo: 5	4778				
Prep Date:	10/9/2018	Analysis D)ate: 1	0/10/2018	5	SeqNo: 1	819695	Units: mg/ł	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range	Organics (DRO)	56	9.9	49.26	0	114	53.5	126			
Surr: DNOP)	5.7		4.926		115	50.6	138			
Sample ID	1810268-001AMS) SampT	ype: M	SD	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID:	L9-2	Batch	n ID: 40	900	F	RunNo: 5	4778				
Prep Date:	10/9/2018	Analysis D	Date: 1	0/10/2018	S	SeqNo: 1	819696	Units: mg/ł	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range	Organics (DRO)	59	9.9	49.41	0	119	53.5	126	5.03	21.7	
Surr: DNOP)	6.0		4.941		122	50.6	138	0	0	

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
- 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
 - Sample container temperature is out of limit as specified

1810268

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WO#:

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% Recovery outside of range due to dilution or matrix W

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Project: Startling Sample ID 1810268-001AMS SampType: MS TestCode: EPA Method 8015D: Gasoline Range Client ID: L9-2 Batch ID: 40966 SRUND: 54741 Units: mg/sc Analyte Result POL SPK value SPK Xelle SPK Xelle 1818152 Units: mg/sc Gasoline Range: Oganics (GR0) 26 4.8 24.11 0 107 7.78 128 Sample ID 1810268-001AMISD SampType: MS TestCode: EPA Method 515: Gasoline Range Gasoline Range: Gasoline Range: SampType: MS TestCode: EPA Method 94:55 20 Sample ID 1058/2018 Analysis Date: 10/9/2018 SeqNo: 1818153 Units: mg/sc EVE Value SeqNo: 1818153 Units: mg/sc Set Size 20 Sample ID 1058/2018 Analysis SeqNo: 1818153 Units: <td< th=""><th>Client:</th><th>Souder, N</th><th>/liller & Asso</th><th>ociate</th><th>es</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></td<>	Client:	Souder, N	/liller & Asso	ociate	es							
Sample ID 1910289-001AMS SampType: MS TestCode: EPA Method 8015D: Gasoline Range Client ID: L9-2 Batch ID: 40666 RunNo: 54741 Prep Date: 10/9/2018 Analysis Date: 10/9/2018 SeqNo: 1818152 Units: mg/Kg Analyte Result PQL SPK value SPK Kef Val XREC LowLimit HighLimit %RPD RPDL init Qual Sample ID 101028-001AMSD SampType: MSD TestCode: EPA Method 8015D: Gasoline Range Client ID: L9-2 Batch ID: 40866 RunNo: 54741 Prep Date: 10/02/018 Analysis Date: 10/02/018 SeqNo: 1818153 Units: mg/Kg Analysis Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Gasoline Range Organics (GR0) 28 4.8 24.44 0 118 77.8 128 56 <t< th=""><th>Project:</th><th>Sterling</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></t<>	Project:	Sterling										
Client ID: L9-2 Batch ID: 40866 RunNo: 54741 Prep Date: 10/8/2018 Analysis Date: 10/8/2018 SeqNo:: 1818152 Units::mg/Kg Analyse Result PCL SPK value SPK Ref Val kREC LowLinit HighLinit %RPD RPDLinit Qual Gasoline Range Organes (GRO) 26 4.8 24.11 0 107 77.8 128 Sacoline Range Gasoline Range Organes (GRO) 26 4.8 24.11 0 108 15 316 Cual Sample ID 1018/2018 Analysis Date: 10/9/2018 SeqNo: 1818153 Units:: mg/Kg Analysis Analysis Analysis Analysis Analysis Analysis Analysis Analysis <td< th=""><th>Sample ID</th><th>1810268-001AMS</th><th>SampTyp</th><th>e: MS</th><th>S</th><th>Tes</th><th>tCode: El</th><th>PA Method</th><th>8015D: Gaso</th><th>line Rang</th><th>e</th><th></th></td<>	Sample ID	1810268-001AMS	SampTyp	e: MS	S	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e	
Prep Date: 10/8/2018 Analysis Date: 10/9/2018 SeqNo: 1818152 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Casoline Range Organics (GR0) 26 4.8 24.11 0 107 77.8 128 Sim:BFB 1000 964.3 1008 15 316 316 316 Sample ID 1610268-001AMSD SampType: MSD TestCode: EPA Method 8015D: Gasoline Range Result POL SV SeqNo: 1818153 Units: mg/Kg Analyte Result POL SPK value SPK Ref Val %REC LowLinit HighLimit %RPD RPDLimit Qual Gasoline Range Organics (GR0) 28 A.8 24.04 0 118 77.8 128 9.65 20 SampTipe Test 1000 961.5 107 15 316 0 0 0 SampTipe Test Madysis Date: 109/2018 SeqNo: 1818187 Units: <th>Client ID:</th> <th>L9-2</th> <th>Batch ID</th> <th>): 40</th> <th>866</th> <th>F</th> <th>RunNo: 5</th> <th>4741</th> <th></th> <th>-</th> <th></th> <th></th>	Client ID:	L9-2	Batch ID): 40	866	F	RunNo: 5	4741		-		
Analyte Result PQL SPK Rel / all % REC LowLimit HighLimit % RPD RPDLimit Qual Gasoline Range Organics (GRO) 26 4.8 24.11 0 107 77.8 12 3 5 316	Prep Date:	10/8/2018	Analysis Date	e: 10	0/9/2018	S	SeqNo: 1	818152	Units: mg/k	ζg		
Gasoline Range Organics (GRO) 26 4.8 24.11 0 107 77.8 128 Sum: BFB 1000 964.3 108 15 316	Analyte		Result F	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB 1000 964.3 108 15 316 Sample ID 1810268-001AMSD SampType: MSD TestCode: EPA Method 8015D: Gasoline Range Client ID: L9-2 Batch ID: 40966 RunNo: 54741 Prep Date: 10/8/2018 Analysis Date: 10/9/2018 SeqNo: 1818153 Units: mg/kg Analyte Result PQL SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Gasoline Range Organics (GRO) 28 4.8 24.04 0 118 77.8 128 9.66 20 SampEl D LCS-40866 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range 20 Sample ID LCS-40866 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range 20 Gasoline Range Organics (GRO) 22 5.0 26.00 0 89.2 76.9 131 20 Sample ID MB-40866 SampType: MBLK	Gasoline Rang	ge Organics (GRO)	26	4.8	24.11	0	107	77.8	128			
Sample ID 1810268-001AMISD SampType: MSD TestCode: EPA Method SUISD: Gasoline Range: Client ID: 10-2 Batch ID: 40666 RunNo: 54741 Prep Date: 10/8/2018 Analysis Date:: 10/9/2018 SeqNo: 1818153 Units: mg/Kg Analyte: Result PQL SPK value SPK Ref Val %REC LowLinit HighLinit %RPD RPDLinit Qual Gasoline Range: Organics (SRO) 28 4.8 24.04 0 118 77.8 128 0 0 0 Sample ID LCS-40866 SampType: LCS Sampt ID 40866 Nettype	Surr: BFB		1000		964.3		108	15	316			
Client ID: L9-2 Batch ID: 40966 RunNo: 54741 Prep Date: 10/8/2018 Analysis Date: 10/9/2018 SeqNo: 1818153 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLint HighLinti %RPD RPDLinti Qual Gasoline Range Organics (GRO) 28 4.8 24.04 0 118 77.8 128 9.66 20 Surr: BFB 1000 961.5 107 15 316 0 0 1 Sample ID LCS-40866 SampType: LCS TestCode: EPA Method 505D: Gasoline Range/Gasoline Range/Gasoline Range/Gasoline Range/Gasoline Range/Gasoline Range/Gasoline Gasoline Gasolin	Sample ID	1810268-001AMSI) SampTyp	e: MS	SD	Tes	tCode: El	PA Method	8015D: Gasc	line Rang	е	
Prep Date: 10/8/2018 Analysis Date: 10/9/2018 SeqNo: 1818153 Units: mg/Kg Analysie Result POL SPK value SPK Ref Val %REC LowLinit HighLinit %RPD RPDLinit Qual Gasoline Range Organics (GRO) 2.8 4.8 24.04 0 118 77.8 128 9.05 20 Sum: BFB 1000 961.5 1007 316 0 0 0 Sample ID LCS-40866 SampType: LCS Batch ID: 40866 Sample/D 1818187 Units: mg/Kg Analysie Result POL SPK value SPK Ref Val %REC LowLinit HighLinit %RPD RPDLinit Qual Gasoline Range Organics (GRO) 22 5.0 25.00 0 89.2 75.9 131 110 1010 103 15 316 111 Qual Gasoline Range Organics (GRO) 22 5.0 25.00 89.2 75.9 131 111 111 Qual 1000 103 15	Client ID:	L9-2	Batch ID): 40	866	F	RunNo: 5	4741				
Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Gasoline Range Organics (GRO) 28 4.8 24.04 0 118 77.8 128 9.65 20 Sur: BFB 1000 961.5 107 117 118 77.8 128 9.65 20 Sample ID LCS-40866 SampType: LCS TestCode: EPA Method B01D: Gasoline Range 0 <	Prep Date:	10/8/2018	Analysis Date	e: 10	0/9/2018	S	SeqNo: 1	818153	Units: mg/k	(g		
Gasoline Range Organics (GRO) 28 4.8 24.04 0 118 77.8 128 9.65 20 Surr: BFB 1000 961.5 107 15 316 0 0 Surr: BFB 1000 961.5 TestCode: EPA Method 8015D: Gasoline Range 0 0 Sample ID LCS-40866 SampType: LCS Batch ID: 40866 RunNo: 54741 Units: mg/Kg Prep Date: 10/8/2018 Analysis Date: 10/9/2018 SeeqNo: 1818187 Units: mg/Kg Qual Gasoline Range Organics (GRO) 22 SO 0 82.2 75.9 131 Surr: 8FB SeeqNo: 1818187 Units: mg/Kg Surr: BFB DB-40866 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range FSPD RPDLimit Qual Gasoline Range Organics (GRO) 20 1000 92.0 103 5 316 SampType: SampType: LCS SampType: SeeqNo: 1818189 Units: mg/Kg SeeqNo: 181936 SeeqNo: 1819349	Analyte		Result F	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sur: BFB 1000 961.5 107 15 316 0 0 Sample ID LCS-40866 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range Client ID: LCSS Batch ID: 40866 RunNo: 54741 Units: mg/kg Analyte Result PQL SPK value SPK value SPK ef Val %REC LowLimit HighLimit %RPD RPDLimit Qual Gasoline Range Organics (GR0) 22 5.0 25.00 0 89.2 75.9 131 Surr: BFB 1000 1000 103 15 316 V V Sample ID MB-40866 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range Client ID: PBS Batch ID: 40966 RunNo: 54741 V V V V V V V V V V V V V V V V V V	Gasoline Rang	ge Organics (GRO)	28	4.8	24.04	0	118	77.8	128	9.65	20	
Sample ID LCS TestCode: EPA Method 8015D: Gasoline Range Client ID: LCSS Batch ID: 40866 RunNo: 54741 Units: mg/Kg Analyte Result PQL SPK value SPK Kef Val %REC LowLimit HighLimit %RPD RPDLimit Qual Gasoline Range Organics (GRO) 22 5.0 25.00 0 89.2 75.9 131 Surr: BFB 1000 1000 103 15 316 Sample ID MB-40866 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range Client ID: PBS Batch ID: 40866 RunNo: 54741 Qual ual Qual </td <td>Surr: BFB</td> <td></td> <td>1000</td> <td></td> <td>961.5</td> <td></td> <td>107</td> <td>15</td> <td>316</td> <td>0</td> <td>0</td> <td></td>	Surr: BFB		1000		961.5		107	15	316	0	0	
Client ID: LCSS Batch ID: 40866 RunNo: 54741 Prep Date: 10/8/2018 Analysis Date: 10/9/2018 SeqNo: 1818187 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Gasoline Range Organics (GRO) 22 5.0 25.00 0 89.2 75.9 131 316<	Sample ID	LCS-40866	SampTyp	e: LC	s	Tes	tCode: El	PA Method	8015D: Gasc	line Rang	е	
Prep Date: 10/8/2018 Analysis Date: 10/9/2018 SeqNo: 1818187 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Gasoline Range Organics (GRO) 22 5.0 25.00 0 89.2 75.9 131 100 100 103 15 316 100 100 100 103 15 316 100	Client ID:	LCSS	Batch ID): 40	866	F	RunNo: 5	4741				
Analyte Result PQL SPK value SPK Ref Val %REC LowLinit HighLinit %RPD RPDLinit Qual Gasoline Range Organics (GRO) 22 5.0 25.00 0 89.2 75.9 131 Surr: BFB 1000 1000 1000 103 15 316 5	Prep Date:	10/8/2018	Analysis Date	e: 10	0/9/2018	S	SeqNo: 1	818187	Units: mg/k	(g		
Gasoline Range Organics (GRO) 22 5.0 25.00 0 89.2 75.9 131 Surr: BFB 1000 1000 103 15 316 316 Sample ID MB-40866 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range EPA EPA Method 8015D: Gasoline Range EPA	Analyte		Result F	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB 1000 1000 103 15 316 Sample ID MB-40866 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range Client ID: PBS Batch ID: 40866 RunNo: 54741 Prep Date: 10/8/2018 Analysis Date: 10/9/2018 SeqNo: 1818189 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Gasoline Range Organics (GRO) ND 5.0 316 165 316 Qual Gasoline Range Qual SeqNo: 15 316 SeqNo: SeqNo: SeqNo: SeqNo: SeqNo: SeqNo: SeqNo: SeqNo: <td>Gasoline Rang</td> <td>ge Organics (GRO)</td> <td>22</td> <td>5.0</td> <td>25.00</td> <td>0</td> <td>89.2</td> <td>75.9</td> <td>131</td> <td></td> <td></td> <td></td>	Gasoline Rang	ge Organics (GRO)	22	5.0	25.00	0	89.2	75.9	131			
Sample IDMB-40866Samp Type:MBLKTestCode:EPA MethodBots ID:Gasoline RangeClient ID:PBSBatch ID:40866RunNo:54741Prep Date:10/8/2018Analysis Date:10/9/2018SeqNo:181889Units:mg/KgAnalyteResultPQLSPK valueSPK Ref Val%RECLowLimitHighLimit%RPDRPDLimitQualGasoline Range Organics (GRO)ND5.092.015316	Surr: BFB		1000		1000		103	15	316			
Client ID:PBSBatch ID:40866RunNo:54741Prep Date:10/8/2018Analysis Date:10/9/2018SeqNo:1818189Units:mg/KgAnalyteResultPQLSPK valueSPK Ref Val%RECLowLimitHighLimit%RPDRPDLimitQualGasoline Range:Organics (GRO)ND5.092.015316	Sample ID	MB-40866	SampTyp	e: Me	BLK	Tes	tCode: El	PA Method	8015D: Gasc	line Rang	e	
Prep Date: 10/8/2018 Analysis Date: 10/9/2018 SeqNo: 1818189 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Gasoline Range Organics (GRO) ND 5.0 316 - <td>Client ID:</td> <td>PBS</td> <td>Batch ID</td> <td>): 40</td> <td>866</td> <td>F</td> <td>RunNo: 5</td> <td>4741</td> <td></td> <td></td> <td></td> <td></td>	Client ID:	PBS	Batch ID): 40	866	F	RunNo: 5	4741				
Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Gasoline Range Organics (GRO) Surr: BFB ND 5.0 920 1000 92.0 15 316 5.0	Prep Date:	10/8/2018	Analysis Date	e: 10	0/9/2018	S	SeqNo: 1	818189	Units: mg/k	(g		
Gasoline Range Organics (GR0) ND 5.0 Surr: BFB 920 1000 92.0 15 316 Sample ID LCS-40909 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range Client ID: LCSS Batch ID: 40909 RunNo: 54774 Prep Date: 10/9/2018 Analysis Date: 10/10/2018 SeqNo: 1819349 Units: %Rec Analyte Result PQL SPK xalue SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Surr: BFB 1100 1000 105 15 316	Analyte		Result F	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB 920 100 92.0 15 316 Sample ID LCS-40909 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range Client ID: LCSS Batch ID: 40909 RunNo: 54774 Prep Date: 10/9/2018 Analysis Date: 10/10/2018 SeqNo: 1819349 Units: %Rec Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Surr: BFB 1100 1000 105 15 316	Gasoline Rang	ge Organics (GRO)	ND	5.0								
Sample ID LCS-40909 SampType: LCS TestCode: EPA Method Surg Stresconse Client ID: LCSS Batch ID: 40909 RunNo: 54774 Prep Date: 10/9/2018 Analysis Date: 10/10/2018 SeqNo: 1819349 Units: %Rec Analyte Result PQL SPK value SPK Ref Val %REC LowLimit MRPD RPDLimit Qual Surr: BFB 1100 100 100 105 15 316	Surr: BFB		920		1000		92.0	15	316			
Client ID: LCSS Batch ID: 40909 RunNo: 54774 Prep Date: 10/9/2018 Analysis Date: 10/10/2018 SeqNo: 1819349 Units: %Rec Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Surr: BFB 1100 100 105 15 316	Sample ID	LCS-40909	SampTyp	e: LC	s	Tes	tCode: El	PA Method	8015D: Gasc	line Rang	е	
Prep Date: 10/9/2018 Analysis Date: 10/10/2018 SeqNo: 1819349 Units: %Rec Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Sur:: BFB 1100 1000 105 105 316	Client ID:	LCSS	Batch ID): 40	909	F	RunNo: 5	4774				
AnalyteResultPQLSPK valueSPK Ref Val%RECLowLimitHighLimit%RPDRPDLimitQualSurr: BFB11001001051531600000Sample IDMB-40909SampType: MBLKTestCode: EPA Method 8015D: Gasoline Range0000000Client ID:PBSBatch ID: 40909RunNo: 54774Units: %Rec000 <t< td=""><td>Prep Date:</td><td>10/9/2018</td><td>Analysis Date</td><td>e: 10</td><td>0/10/2018</td><td>5</td><td>SeqNo: 1</td><td>819349</td><td>Units: %Re</td><td>C</td><td></td><td></td></t<>	Prep Date:	10/9/2018	Analysis Date	e: 10	0/10/2018	5	SeqNo: 1	819349	Units: %Re	C		
Sur: BFB 1100 100 105 15 316 Sample ID MB-40909 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range E Client ID: PBS Batch ID: 40909 RunNo: 54774 E E Prep Date: 10/9/2018 Analysis Date: 10/10/2018 SeqNo: 1819350 Units: %Rec Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Surr: BFB 900 1000 89.8 15 316 Since	Analyte		Result F	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sample ID MB-40909 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range Client ID: PBS Batch ID: 40909 RunNo: 54774 Prep Date: 10/9/2018 Analysis Date: 10/10/2018 SeqNo: 1819350 Units: %Rec Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Surr: BFB 900 1000 89.8 15 316	Surr: BFB		1100		1000		105	15	316			
Client ID: PBS Batch ID: 40909 RunNo: 54774 Prep Date: 10/9/2018 Analysis Date: 10/10/2018 SeqNo: 1819350 Units: %Rec Analyte Result PQL SPK value SPK Ref Val %REC LowLimit MighLimit %RPD RPDLimit Qual Surr: BFB 900 1000 89.8 15 316 16	Sample ID	MB-40909	SampTyp	e: ME	BLK	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e	
Prep Date: 10/9/2018 SeqNo: 1819350 Units: %Rec Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Surr: BFB 900 1000 89.8 15 316 16	Client ID:	PBS	Batch ID): 40	909	F	RunNo: 5	4774				
AnalyteResultPQLSPK valueSPK Ref Val%RECLowLimitHighLimit%RPDRPDLimitQualSurr: BFB900100089.815316	Prep Date:	10/9/2018	Analysis Date	e: 10	0/10/2018	5	SeqNo: 1	819350	Units: %Re	C		
Surr: BFB 900 1000 89.8 15 316	Analyte		Result F	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
	Surr: BFB		900		1000		89.8	15	316			

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

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- 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

WO#: 1810268

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11-Oct-18

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client:	Souder, 1	Miller & A	ssociate	es							
Project:	Sterling										
Sample ID	LCS-40866	Samp	Type: LC	S	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID:	LCSS	Batc	h ID: 40	866	F	anNo: 5	4741				
Prep Date:	10/8/2018	Analysis [Date: 10)/9/2018	S	SeqNo: 1	818668	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.87	0.025	1.000	0	87.3	77.3	128			
Toluene		0.94	0.050	1.000	0	94.0	79.2	125			
Ethylbenzene		0.94	0.050	1.000	0	94.2	80.7	127			
Xylenes, Total		2.9	0.10	3.000	0	95.7	81.6	129			
Surr: 4-Bron	nofluorobenzene	1.0		1.000		102	80	120			
Sample ID	MB-40866	Samp	Туре: МЕ	BLK	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID:	PBS	Batc	h ID: 40	866	F	RunNo: 5	4741				
Prep Date:	10/8/2018	Analysis [Date: 10)/9/2018	S	SeqNo: 1	818670	Units: mg/k	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-Bron	nofluorobenzene	0.99		1.000		99.0	80	120			
Sample ID	LCS-40909	Samp	Туре: LC	S	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID:	LCSS	Batc	h ID: 40	909	F	RunNo: 5	4774				
Prep Date:	10/9/2018	Analysis [Date: 10)/10/2018	S	SeqNo: 1	819469	Units: %Re	c		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bron	nofluorobenzene	0.99		1.000		98.6	80	120			
Sample ID	MB-40909	Samp	Туре: МЕ	BLK	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID:	PBS	Batc	h ID: 40	909	F	RunNo: 5	4774				
Prep Date:	10/9/2018	Analysis [Date: 10	0/10/2018	S	SeqNo: 1	819470	Units: %Re	с		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bron	nofluorobenzene	0.97		1.000		96.6	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

1810268

11-Oct-18

WO#:

Page 5 of 5

ANALYSIS LABORATORY	1011 Environmental Analysis L 4901 Hav Albuquerque, N TEL: 505-345-3975 FAX: 505-, Website: www.hallenvironme	ekins NE M 87105 Sa l 145-410; ntal.con	mple Log-In Check	List
Client Name: SMA-CARLSBAD W	ork Order Number: 1810268		RcptNo: 1	
Received By: Jazzmine Burkhead 10/4	/2018 8:55:00 AM	iere baddad N		
Reviewed By: Ashley Gallegos 10/4 Reviewed By: IO 10/4/1	6 (II458 AM	label	ed by: J	AB 10/04/1
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?	Ver 🔽	No 🗌		
e. Was an attempt made to cool the samples?	ies 🖭	NO LL		
4. Were all samples received at a temperature of >0'	C to 6.0°C Yes 🗹	No 🗆		
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 🗌	No 🗹	NA 🗌	
9. VOA vials have zero headspace?	Yes 🗆	No 🗆	No VOA Vials 🗹	tra
10. Were any sample containers received broken?	Yes 🗆	. No 🗹		tailly
	-		# of preserved bottles checked	1011
 Does paperwork match bottle labels? (Note discrepancies on chain of custody) 	Yes 🖌	No 🗌	for pH: (<2 or >12(Inte	ss poted)
12. Are matrices correctly identified on Chain of Custod	y? Yes 🗸	No 🗆	Adjusted?	
13. Is it clear what analyses were requested?	Yes 🗹	No 🗆	114	
14. Were all holding times able to be met?	Yes 🗹	No 🗆	Checked by:	
(internet in autorization)				
15 Was dispt patillad of all dispersions with this are	ыл <u>м</u> . П			
15, was clear nomed of an discrepancies with this of				
Person Normed:	Date			
Regarding	via: 📋 email 🗋	Phone Fax		
Client Instructions:				
16. Additional remarks:				
17 Cooler Information				
Cooler No Temp °C Condition Seal Inte	ct Seal No Seal Date	Signed By	1	
1 1.6 Good Yes				

Page 1 of 1

eceiv	ved b	by O	OCD): 1	0/5	5/2	02:	3 9:	17::	38 A	l <i>M</i>	(N	10)	() s	alddir8 ri	A	-					-		_		-				Page	118 of
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usiony record										Level 4 (Full Validation)		her			x Sample Request ID	1-6-1											1		shed by:	//q péti	10
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	Client		Mailing			;	Phone	email o	QA/QC	XStan	Accredi	D NEL			Date	OFILS													Date:	Date:	0318

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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 Sterling 20 State 1H Marathon Oil Corporation NAB182233389 2RP-4725 Site Location: Unit O, S17, T23S, R27E (Lat 32.2985°, Long -104.2086°) Eddy County, New Mexico

Mr. Bratcher:

On behalf of Marathon Oil Corporation (Marathon), Carmona Resource, LLC has prepared this letter to document additional site activities for the Sterling 20 State 1H. The site is located at the GPS 32.2985°, - 104.2086° within Unit O, S17, T23S, R27E in Eddy County, New Mexico.

1.0 Site Information and Background

NAB182233389/2RP-4725

On June 26, 2023 the New Mexico OCD denied the closure report for the following reason: This release has occurred in a high karst area and will need to be remediated to the strictest closure criteria of <50' depth to groundwater from Table 1 of the spill rule.

2.0 Site Characterization and Groundwater

The site is located within a high karst area. Based on a review of the New Mexico Office of State Engineers and USGS databases, no known water features are within a 0.50-mile radius of the location. The nearest identified well is approximately 0.63 miles Southeast of the site in S21, T23S, R27E and was drilled in 1983. The well has a reported depth to groundwater of 163.27 feet below the ground surface (ft bgs). A copy of the associated Summary Report is attached in Appendix D of the amended report.

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 13, 2023, Carmona Resources, LLC performed site assessment activities to evaluate soil impacts stemming from the release. To assess the vertical extent, three (4) sample points (S-1 through S-4) were advanced to depths ranging from surface to 3' bgs inside the release area at L4, L5, L7, and L8. 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

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



Laboratories in Midland, Texas. The sample points S-1, S-2, and S-3 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 point S-4 was analyzed for total petroleum hydrocarbons (TPH) by EPA method 8015. 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 closure sampling on September 28, 2018 to present.

5.0 Conclusions

Based on the assessment results and the analytical data, no further actions are required at the site. The final C-141 is attached, and 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, Carmona Resources, LLC

Mike Carmona Environmental Manager

Clinton Merritt Sr. Project Manager













APPENDIX B

CARMONA RESOURCES

Table 1 **Marathon Oil** Sterling 20 State 1H Eddy County, New Mexico

	Dette			TPF	l (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)
	7/25/2023	0-1	<50.4	<50.4	<50.4	<50.4	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	43.8
S-1	"	2.0	<50.5	<50.5	<50.5	<50.5	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	40.8
	"	3.0	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	42.9
	7/25/2023	0-1	<49.6	<49.6	<49.6	<49.6	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	83.9
S-2	"	2.0	<50.3	<50.3	<50.3	<50.3	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	96.3
	"	3.0	<50.4	<50.4	<50.4	<50.4	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	48.8
	7/25/2023	0-1	<50.4	<50.4	<50.4	<50.4	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	83.9
S-3	"	2.0	<50.5	<50.5	<50.5	<50.5	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	96.3
	"	3.0	<49.6	<49.6	<49.6	<49.6	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	48.8
S-4	9/13/2023	0-1	<49.8	<49.8	<49.8	<49.8	-	-	-	-	-	-
Regulatory	/ Criteria ^A					100 mg/kg	10 mg/kg				50 mg/kg	600 mg/kg

(-) Not Analyzed

^A – Table 1 - 19.15.29 NMAC

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

ft - feet

(S) Sample Point

APPENDIX C

CARMONA RESOURCES

.

PHOTOGRAPHIC LOG

Marathon Oil Corporation

Photograph N	lo. 1	SE S SW W 120 150 180 210 240 270
Facility:	Sterling 20 State 1H	© 187°S (T) LAT: 32.298668 LON: -104.209564 ±13ft ▲ 3176ft
County:	Eddy County, New Mexico	
Description: View South, are	a of L7/S-1.	25 Juli 2023, 12:53 H3 PM
Photograph N	lo. 2	SE S SW W 120 150 180 210 240 270 • • • • • • • • • •
Facility:	Sterling 20 State 1H	© 189°S (T) LAT: 32.298499 LON: -104.209568 ±13ft ▲ 3181ft
County:	Eddy County, New Mexico	the the test test
Description: View South, are	a of L4/S-2	25 Jul 2023, 12:53:27 PM
Photograph N	lo. 3	NW N N NE E
Facility:	Sterling 20 State 1H	© 22°NE (T) LAT: 32.298271 LON: -104.209691 ±13ft ▲ 3179ft
County:	Eddy County, New Mexico	
Description: View Northeast,	area of L5/S-3	25 Jul 2023-12:54:03 PM

APPENDIX D

CARMONA RESOURCES

Received by OCD: 10/5/2023 9:17:38 AN Nearest water well

Marathon Oil Permian LLC

STERLING 20 STATE #001H

(100' - Drilled 1964

133.22' - Drilled 2018

163.27' - Drilled 1983

170' - Drilled 1998

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a has

1 mi

Received by OCD: 10/5/2023 9:17:38 AM Hign Karst Marathon Oil Permian LLC

STERLING 20 STATE #001H



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1 mi



- 🥖 Medium

STERLING 20 STATE #001H



New Mexico Office of the State Engineer Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)	(R=POD has been replaced O=orphaned, C=the file is closed)	J,	(qua (qua	rter	s a s a	re 1: re sr	=NW malles	2=NE 3	3=SW 4=SE rgest) (N/	:) AD83 UTM in me	eters)	(In feet)	
	POD Sub-	_	Q	Q	Q	_	_	_				Depth	Depth	Water
POD Number C 01261	Code basin (CUB	ED	ty 64	16	4	Sec 21	Tws 23S	Rng 27E	X 575780	Y 3572889*	Distance 1521	250	Water	Column
C 01195	С	ED			2	19	23S	27E	572958	3573260* 🤤	1645	180	100	80
<u>C 01781</u>	С	ED		2	4	19	23S	27E	573161	3572659* 🥃	1751			
C 01781 POD2	С	ED		2	4	19	23S	27E	573161	3572659* 🌍	1751	210		
C 01781 POD3	С	ED		2	4	19	23S	27E	573161	3572659* 🌍	1751	210		
C 01618	С	ED	4	4	4	07	23S	27E	573252	3575384* 🌍	2070	250		
<u>C 02377</u>	С	ED			2	29	23S	27E	574575	3571666* 😜	2088	232	170	62
<u>C 03005</u>	С	ED	3	4	4	07	23S	27E	573052	3575384* 🌍	2198	140	100	40
C 04044 POD1	CUB	ED	3	2	3	09	23S	27E	575504	3575907 🌍	2363	290	150	140
<u>C 02453</u>	С	ED	4	4	2	29	23S	27E	574876	3571372* 🌍	2407	210	175	35
<u>C 03301</u>	С	ED	3	3	4	07	23S	27E	572597	3575268 🌍	2453	375		
<u>C 01632</u>	С	ED	3	2	4	07	23S	27E	573050	3575789* 🌍	2515	162	100	62
C 01632 CLW197648	0 C	ED	3	2	4	07	23S	27E	573050	3575789* 🌍	2515	162	100	62
C 01632 POD2	С	ED	3	2	4	07	23S	27E	573050	3575789* 🌍	2515	173	100	73
<u>C 02112</u>	С	ED	1	3	4	13	21S	24E	573831	3571337 🌍	2515	182	119	63
C 04429 POD1	С	ED	4	4	1	08	23S	27E	574102	3576270 🌍	2552	400	350	50
<u>C 00195</u>	CUB	ED	4	1	4	09	23S	27E	576069	3575827* 🌍	2583	128	83	45
<u>C 01071</u>	С	ED			1	08	23S	27E	573751	3576499* 🌍	2852	279	95	184
<u>C 02191</u>	С	ED			1	08	23S	27E	573751	3576499* 🌍	2852	252	75	177
C 04581 POD1	С	ED	3	1	1	09	23S	27E	575167	3576589 🌍	2906	165	109	56
<u>C 00187</u>	С	ED	1	1	4	15	23S	27E	577380	3574509 🌍	2950	210	125	85
<u>C 00623</u>	С	ED		2	1	15	23S	27E	577189	3575142* 🌍	3001	200		
C 03736 POD1	С	ED	2	2	4	13	23S	26E	571677	3574793 🌍	3034			
<u>C 02300</u>	CUB	ED			3	07	23S	27E	572160	3575676* 🌍	3049	402		
C 03892 POD1	С	ED	1	2	1	08	23S	27E	573846	3576764 🌍	3086	148	54	94
<u>C 02510</u>	С	ED	1	2	1	08	23S	27E	573848	3576806* 🥌	3126	350	350	0
*UTM location was derived f	rom PLSS - see I	lein												

Received by OCD: 10/5/2023 9:17:38 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	Q	Q							Denth	Denth	Water
POD Number	Code	e basin	County	64	16	4	Sec	Tws	Rng	х	Y	Distance	Well	Water	Column
C 00508 CLW225089	0	CUB	ED	4	1	3	10	23S	27E	576877	3575839* 🌍	3140	234	28	206
<u>C 02326</u>		С	ED			2	07	23S	27E	572948	3576491* 🌍	3160	140	99	41
<u>C 00420</u>	С	CUB	ED		4	2	09	23S	27E	576370	3576337* 🌍	3172	2151		
<u>C 00508 S</u>		CUB	ED	2	1	3	10	23S	27E	576877	3576039* 🌍	3277	234	28	206
C 00068 CLW193190	0	CUB	ED	3	3	1	10	23S	27E	576673	3576241* 🌍	3284	175		
<u>C 02835</u>		CUB	ED	3	4	1	30	23S	27E	572258	3571338* 🌍	3315	228		
<u>C 01847</u>		С	ED		1	3	07	23S	27E	571956	3575878* 🌍	3335	300		
C 01847 POD2		С	ED		1	3	07	23S	27E	571956	3575878* 🌍	3335	243		
<u>C 00323</u>		С	ED		4	4	05	23S	27E	574750	3577122* 🌍	3375	200		
<u>C 02711</u>		С	ED		4	4	05	23S	27E	574750	3577122* 🌍	3375	170	75	95
<u>C 03020</u>		С	ED		4	4	05	23S	27E	574750	3577122* 🌍	3375	176	135	41
<u>C 00068</u>		CUB	ED	1	3	1	10	23S	27E	576673	3576441* 🌍	3438	175		
C 03799 POD1		С	ED	1	3	3	04	23S	27E	574981	3577170 🌍	3446	200	51	149
C 04453 POD1		С	ED	3	2	1	07	23S	27E	572475	3576566 🌍	3482	250	70	180
<u>C 01825</u>		С	ED		3	2	13	23S	26E	571151	3574670* 🌍	3499	243	221	22
C 00109 CLW203096	0	CUB	ED	1	3	3	04	23S	27E	575051	3577226* 🌍	3511	260		
<u>C 02710</u>		С	ED			4	05	23S	27E	574550	3577318* 🌍	3564	200	72	128
C 03653 POD1		С	ED	2	4	4	05	23S	27E	574757	3577331 🌍	3585	220	180	40
<u>C 01083</u>		С	ED		4	2	15	23S	27E	578003	3574751 🌍	3615	325	45	280
<u>C 00508</u>		CUB	ED	3	1	4	10	23S	27E	577487	3575855* 🌍	3629	190		
<u>C 03010</u>		С	ED	2	2	4	12	23S	26E	571649	3575978* 🌍	3637	140	130	10
<u>C 01857</u>		С	ED				13	23S	26E	570949	3574465* 🌍	3648	255	197	58
<u>C 02232</u>		С	ED				13	23S	26E	570949	3574465* 🌍	3648	240	200	40
<u>C 02448</u>		С	ED		2	4	12	23S	26E	571550	3575879* 🌍	3658	140	127	13
C 04331 POD1		С	ED	2	2	4	12	23S	26E	571632	3575997 🌍	3663	170	133	37
C 00259 S		CUB	ED	1	1	3	30	23S	27E	571874	3571131* 🌍	3731	204		
<u>C 02834</u>		CUB	ED	1	1	3	30	23S	27E	571874	3571131* 🌍	3731	310	176	134
C 04591 POD1		С	ED	3	2	1	07	23S	27E	572168	3576690 🌍	3767	300		
C 00296		С	ED		1	4	05	23S	27E	574345	3577519* 🌍	3769	225		

*UTM location was derived from PLSS - see Help

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water right file.)

been replaced, O=orphaned, C=the file is

(R=POD has

closed)

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

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

eters)	(In feet)

	Sub-		Q	Q Q							Depth	Depth	Water
POD Number	Code basin	County	64	164	Sec	Tws	Rng	Х	Y	Distance	Well	Water	Column
<u>C 01672</u>	С	ED		43	13	23S	26E	570750	3573861* 🌍	3779	280	80	200
C 03961 POD1	С	ED	1	24	12	23S	26E	571522	3576070 🌍	3795	280		
<u>C 01905</u>	С	ED		23	13	23S	26E	570749	3574267* 🌍	3813	300		
<u>C 03071</u>	С	ED		23	13	23S	26E	570749	3574267* 🌍	3813	250	204	46
C 00518 POD2	CUB	ED	2	44	22	23S	27E	578105	3572431* 🌍	3813	220	98	122
<u>C 01678</u>	С	ED	3	34	12	23S	26E	571048	3575379* 🌍	3840		350	
C 02484 EXPL	CUB	ED		4 1	13	23S	26E	570747	3574672* 🌍	3890	280	175	105
<u>C 00518</u>	CUB	ED	1	1 3	23	23S	27E	578310	3572840* 🌍	3890	178		
<u>C 03348</u>	С	ED	1	33	13	23S	26E	570606	3573938 🌍	3926	240	200	40
C 03766 POD1	С	ED	3	3 1	14	23S	27E	578373	3574609 🌍	3939	260	25	235
<u>C 01642</u>	С	ED	2	2 1	13	23S	26E	570845	3575177* 🌍	3948	303		
<u>C 03060</u>	С	ED	4	44	10	23S	27E	578098	3575460 🌍	3956	139	87	52
C 03488 POD1	С	ED	4	31	23	23S	27E	578430	3573023 🌍	3969	217	122	95
<u>C 02151</u>	С	ED		43	06	23S	27E	572341	3577095* 🌍	3993	196	130	66
<u>C 00231 AS</u>	CUB	ED	4	1 1	23	23S	27E	578512	3573447* 🌍	3995	230	100	130
<u>C 00498</u>	CUB	ED	4	1 1	23	23S	27E	578512	3573447* 🌍	3995	210	120	90
C 00498 CLW194833	O CUB	ED	4	1 1	23	23S	27E	578512	3573447* 🌍	3995	165	80	85
									Avera	ge Depth to	Water:	129	feet
										Minimum	Depth:	25	feet
										Maximum	Depth:	350	feet

Record Count: 72

UTMNAD83 Radius Search (in meters):

Easting (X): 574528

Northing (Y): 3573754

Radius: 4000

*UTM location was derived from PLSS - see Help

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

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Groundwater levels for New Mexico

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Important: <u>Next Generation Monitoring Location Page</u>

Search Results -- 1 sites found

Agency code = usgs

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 321726104120801 23S.27E.20.42220

Eddy County, New Mexico Latitude 32°17'26", Longitude 104°12'08" NAD27 Land-surface elevation 3,162 feet above NAVD88 The depth of the well is 192 feet below land surface. This well is completed in the Other aquifers (N9999OTHER) national aquifer. This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

0	utpu	t forr	nats

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

Date	Time	? Water- level date- time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source (measure
1981-05-14		D	62610		2997.28	NGVD29	1	Z		
1981-05-14		D	62611		2998.92	NAVD88	1	Z		
1981-05-14		D	72019	163.08			1	Z		
1983-02-02		D	62610		2997.09	NGVD29	1	Z		
1983-02-02		D	62611		2998.73	NAVD88	1	Z		
1983-02-02		D	72019	163.27			1	Z		

	Explanation						
Section	Code	Description					
Water-level date-time accuracy	D	Date is accurate to the Day					
Parameter code	62610	Groundwater level above NGVD 1929, feet					
Parameter code	62611	Groundwater level above NAVD 1988, feet					
Parameter code	72019	Depth to water level, feet below land surface					

Rottins: //wis-waterdata.ugg/gev/prg/pwis/gwiexejs?pite_no=321726104120801&agency_cd=USGS&format=html

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USGS Groundwater for New Mexico: Water Levels -- 1 sites

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	?
Measuring agency			Not determined				
Source of measureme	nt		Not determined				
Water-level approval s	tatus	А	Approved for publica	ation Processing and	review completed.		

Questions or Comments Automated retrievals Help Data Tips Explanation of terms Subscribe for system changes News

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U.S. Department of the Interior | U.S. Geological Survey Title: Groundwater for New Mexico: Water Levels URL: https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?

Page Contact Information: <u>New Mexico Water Data Maintainer</u> Page Last Modified: 2023-07-18 14:06:18 EDT 0.29 0.25 nadww01



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New Mexico Office of the State Engineer **Point of Diversion Summary**

			(quarters a	re 1=N	W 2=N	IE 3=SW	/ 4=SE)			
			(quarters	are sma	allest to	o largest))	(NAD83 U	TM in meters)	
Well Tag	POD	Number	Q64 Q1	6 Q4	Sec	Tws	Rng	Χ	Y	
	C 0	1195		2	19	23S	27E	572958	3573260* 🤇	2
Driller Lic	ense:	108	Driller Co	mpan	ıy:	SM	ITH, SA	M S.		
Driller Na	me:	SMITH, SAM S.								
Drill Start	Date:	07/01/1964	Drill Finis	h Dat	te:	0	7/15/196	4 Pl	ug Date:	
Log File D	ate:	08/14/1964	PCW Rev	Date	:			So	urce:	Shallow
Ритр Тур	e:		Pipe Disch	arge	Size:			Es	timated Yield	d:
Casing Siz	e:	6.00	Depth We	ll:		1	80 feet	De	epth Water:	100 feet
y k	Wata	or Roaring Stratific	ations	То	n I	Rottom	Deser	intion		
	watt	i Dearing Stratifie	ations.	10	րլ	Jotton	Deser	iption		
				1.4	0	172	т	4 /D 1	· · · / C1 · 11-	

*UTM location was derived from PLSS - see Help

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7/18/23 12:01 PM

POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer **Point of Diversion Summary**

	(quarters are 1=NW 2=NE 3=SW 4=SE)										
			(quarters are	(quarters are smallest to largest)					(NAD83 UTM in meters)		
Well Tag	POD	Number	Q64 Q16	Q4 S	ec '	Tws	Rng	Х	Y		
	C 02	2377		2 2	29	23S	27E	574575	3571666*	9	
Driller Lic	ense:	1348	Driller Com	pany:		TAY	LOR W	ATER WE	LL SERVICE	Ξ	
Driller Nai	me:										
Drill Start Date: 05/24/1998		Drill Finish	Drill Finish Date:			05/30/1998		ıg Date:			
Log File Date: 08/24/1998			PCW Rev D	PCW Rcv Date:				So	urce:	Shallow	
Pump Type	e:		Pipe Discha	Pipe Discharge Size:				Es	timated Yiel	d:	
Casing Size	e:		Depth Well:	Depth Well: 232 feet			32 feet	De	pth Water:	170 feet	
X	Wata	n Dooning Stuatif	inations	Ton	De	ttom	Dosori	ntion			
	wate	i Dearing Strath	ications.	Tob	Du	ntom	Descri	ption			
				173		174	Limest	one/Dolon	nite/Chalk		
				175			176 Other/Unknown				
				179		180	Other/	Unknown			

*UTM location was derived from PLSS - see Help

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7/18/23 12:02 PM

POINT OF DIVERSION SUMMARY

Date	Time	?	?	Water level,	Water level,	Referenced vertical	?
		Water-level date-time accuracy	Parameter code	feet below land surface	feet above specific vertical datum	datum	S
				Groundwa	ter 🗸 New Mexico	✓ G0	۶Ē

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Important: <u>Next Generation Monitoring Location Page</u>

Search Results -- 1 sites found

Agency code = usgs site_no list =

• 321727104131801

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 321727104131801 23S.27E.19.421232

Eddy County, New Mexico Latitude 32°17'27", Longitude 104°13'18" NAD27 Land-surface elevation 3,190 feet above NAVD88 The depth of the well is 180 feet below land surface. This well is completed in the Other aquifers (N9999OTHER) national aquifer. This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

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

Date	Time	? Water- level date- time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measur
1966-01-05		D	62610		3033.25	NGVD29	1	Z		
1966-01-05		D	62611		3034.89	NAVD88	1	Z		
1966-01-05		D	72019	155.11			1	Z		
1967-01-19		D	62610		3033.08	NGVD29	1	Z		
1967-01-19		D	62611		3034.72	NAVD88	1	Z		
1967-01-19		D	72019	155.28			1	Z		
1968-01-26		D	62610		3033.20	NGVD29	1	Z		
1968-01-26		D	62611		3034.84	NAVD88	1	Z		
1968-01-26		D	72019	155.16			1	Z		
1969-01-28		D	62610		3033.70	NGVD29	1	Z		
1969-01-28		D	62611		3035.34	NAVD88	1	Z		
1969-01-28		D	72019	154.66			1	Z		
1970-01-20		D	62610		3032.54	NGVD29	1	Z		
1970-01-20		D	62611		3034.18	NAVD88	1	Z		

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USGS Groundwater for New Mexico: Water Levels -- 1 sites

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Date	Time	? Water-level date-time accuracy		? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Ref ver dat	erenced ? tical um S
1970-01-20	D	72019	155.	82		1	Z	
1974-01-22	D	62610		3031.74	NGVD29	1	Z	
1974-01-22	D	62611		3033.38	NAVD88	1	Z	
1974-01-22	D	72019	156.	62		1	Z	
1975-01-29	D	62610		3032.27	NGVD29	1	Z	
1975-01-29	D	62611		3033.91	NAVD88	1	Z	
1975-01-29	D	72019	156.	09		1	Z	
1976-01-13	D	62610		3033.22	NGVD29	1	Z	
1976-01-13	D	62611		3034.86	NAVD88	1	Z	
1976-01-13	D	72019	155.	14		1	Z	
1977-02-01	D	62610		3032.96	NGVD29	1	Z	
1977-02-01	D	62611		3034.60	NAVD88	1	Z	
1977-02-01	D	72019	155.	40		1	Z	
1978-01-23	D	62610		3032.96	NGVD29	1	Z	
1978-01-23	D	62611		3034.60	NAVD88	1	Z	
1978-01-23	D	72019	155.	40		1	Z	
1983-01-25	D	62610		3032.71	NGVD29	1	Z	
1983-01-25	D	62611		3034.35	NAVD88	1	Z	
1983-01-25	D	72019	155.	65		1	Z	
1988-03-16	D	62610		3034.46	NGVD29	1	Z	
1988-03-16	D	62611		3036.10	NAVD88	1	Z	
1988-03-16	D	72019	153.	90		1	Z	
1993-05-04	D	62610		3031.61	NGVD29	1	S	
1993-05-04	D	62611		3033.25	NAVD88	1	S	
1993-05-04	D	72019	156.	75		1	S	
1995-07-18	D	62610		3032.28	NGVD29	1	S	
1995-07-18	D	62611		3033.92	NAVD88	1	S	
1995-07-18	D	72019	156.	08		1	S	
1996-01-23	D	62610		3032.81	NGVD29	1	S	
1996-01-23	D	62611		3034.45	NAVD88	1	S	
1996-01-23	D	72019	155.	55		1	S	
1998-01-14	D	62610		3032.68	NGVD29	1	S	
1998-01-14	D	62611		3034.32	NAVD88	1	S	
1998-01-14	D	72019	155.	68		1	S	
2003-01-24	D	62610		3027.63	NGVD29	1	S	USGS
2003-01-24	D	62611		3029.27	NAVD88	1	S	USGS
2003-01-24	D	72019	160.	73		1	S	USGS
2018-02-01 00:14 UT	C m	62610		3055.14	NGVD29	1	V	USGS
2018-02-01 00:14	 C m	62611		3056.78	NAVD88	1	V	USGS
2018-02-01 00:14 UT	C m	72019	133	22		1	V	USGS
		,2017	100.			-	v	

Explanation							
Section	Code	Description					
Water-level date-time accuracy	D	Date is accurate to the Day					
Water-level date-time accuracy	m	Date is accurate to the Minute					
Parameter code	62610	Groundwater level above NGVD 1929, feet					
Parameter code	62611	Groundwater level above NAVD 1988, feet					
Parameter code	72019	Depth to water level, feet below land surface					

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USGS Groundwater for New Mexico: Water Levels -- 1 sites

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Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? S		
Method of measurement		V	Calibrated electric-tape measurement.						
Method of measurement		Z	Other.						
Measuring agency			Not determined						
Measuring agency		USGS	U.S. Geological Survey						
Source of measurement			Not determined						
Source of measurement		S	Measured by personnel of reporting agency.						
Water-level approval status		А	Approved for publication Processing and review completed.						

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 Title:
 Groundwater for New Mexico:
 Water Levels

 URL:
 https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?

Page Contact Information: <u>New Mexico Water Data Maintainer</u> Page Last Modified: 2023-07-18 14:04:36 EDT 0.33 0.29 nadww02



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New Mexico NFHL Data







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

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APPENDIX E

CARMONA RESOURCES


Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Clint Merritt Carmona Resources 310 W Wall St Ste 500 Midland, Texas 79701 Generated 8/9/2023 9:56:49 AM

JOB DESCRIPTION

Sterling 20 State 1H SDG NUMBER Lea County, New Mexico

JOB NUMBER

880-31299-1

Eurofins Midland 1211 W. Florida Ave Midland TX 79701





Eurofins Midland

Job Notes

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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 8/9/2023 9:56:49 AM

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

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Laboratory Job ID: 880-31299-1 SDG: Lea County, New Mexico

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Job ID: 880-31299-1 SDG: Lea County, New Mexico

MPN

MQL

NC

ND NEG

POS

PQL PRES

QC

RER

RPD

TEF

TEQ TNTC

RL

Qualifiers		3
GC VOA		
Qualifier	Qualifier Description	4
S1+	Surrogate recovery exceeds control limits, high biased.	
U	Indicates the analyte was analyzed for but not detected.	5
GC Semi VOA	A	
Qualifier	Qualifier Description	6
F1	MS and/or MSD recovery 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	
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	14
%R	Percent Recovery	
CFL	Contains Free Liquid	
CFU	Colony Forming Unit	
CNF	Contains No Free Liquid	10
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)	

Most Probable Number

Not Calculated

Negative / Absent

Positive / Present Practical Quantitation Limit

Presumptive

Quality Control

Method 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: 880-31299-1 SDG: Lea County, New Mexico

Job ID: 880-31299-1

Client: Carmona Resources Project/Site: Sterling 20 State 1H

Laboratory: Eurofins Midland

Narrative

Job Narrative 880-31299-1

Receipt

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

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: S-1 (0-1') (880-31299-1), S-1 (2') (880-31299-2), S-1 (3') (880-31299-3), S-1 (4') (880-31299-4) and S-1 (5') (880-31299-5).

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: S-1 (0-1') (880-31299-1), S-1 (2') (880-31299-2), S-1 (3') (880-31299-3), (880-31298-A-1-F), (880-31298-A-1-D MS) and (880-31298-A-1-E MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-58964 recovered above the upper control limit for Benzene, Toluene, Ethylbenzene, m-Xylene & p-Xylene and o-Xylene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: (CCV 880-58964/2) and (CCV 880-58964/20).

Method 8021B: The method blank for preparation batch 880-58815 and 880-58990 and analytical batch 880-58964 contained Ethylbenzene above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-58964 recovered above the upper control limit for Benzene, m-Xylene & p-Xylene and o-Xylene. 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 880-58964/64).

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

GC Semi VOA

Method 8015MOD NM: Surrogate recovery for the following samples were outside control limits: S-1 (0-1') (880-31299-1), S-1 (2') (880-31299-2), S-1 (3') (880-31299-3), (CCV 880-59596/31), (CCV 880-59596/47), (LCS 880-59402/2-A), (LCSD 880-59402/3-A), (870-19120-A-2-E), (870-19120-A-2-F MS) and (870-19120-A-2-G MSD). Evidence of matrix interferences is not obvious.

Method 8015MOD NM: The method blank for preparation batch 880-59402 and analytical batch 880-59596 contained Diesel Range Organics (Over C10-C28) above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015MOD NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-59402 and analytical batch 880-59596 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

HPLC/IC

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

Job ID: 880-31299-1 SDG: Lea County, New Mexico

Lab Sample ID: 880-31299-1

Matrix: Solid

5

Project/Site: Sterling 20 State 1H Client Sample ID: S-1 (0-1')

Client: Carmona Resources

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

Analyte					11	~	Duenersi	A making al	
Analyte	Result			MDL		U			
Benzene	< 0.00198	U	0.00198		mg/Kg		08/01/23 10:33	08/02/23 09:20	1
Toluene	< 0.00198	U	0.00198		mg/Kg		08/01/23 10:33	08/02/23 09:20	1
Etnyibenzene	< 0.00198	U	0.00198		mg/Kg		08/01/23 10:33	08/02/23 09:20	
m-Xylene & p-Xylene	< 0.00397	U	0.00397		mg/Kg		08/01/23 10:33	08/02/23 09:20	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		08/01/23 10:33	08/02/23 09:20	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		08/01/23 10:33	08/02/23 09:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	175	S1+	70 - 130				08/01/23 10:33	08/02/23 09:20	1
1,4-Difluorobenzene (Surr)	112		70 - 130				08/01/23 10:33	08/02/23 09:20	1
- Method: TAL SOP Total BTEX - To	tal BTEX Calo	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			08/02/23 15:47	1
_ Method: SW846 8015 NM - Diesel	Range Organ	ics (DRO) (6	C)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4		mg/Kg			08/09/23 10:33	1
Method: SW846 8015B NM - Diese Analyte	el Range Orga Result	nics (DRO) Qualifier	(<mark>GC)</mark> RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.4	U	50.4		mg/Kg		08/07/23 14:17	08/08/23 23:45	1
(GRO)-C6-C10					0 0				
Diesel Range Organics (Over	<50.4	U	50.4		mg/Kg		08/07/23 14:17	08/08/23 23:45	1
Oll Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		08/07/23 14:17	08/08/23 23:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	148	S1+	70 - 130				08/07/23 14:17	08/08/23 23:45	1
o-Terphenyl	137	S1+	70 - 130				08/07/23 14:17	08/08/23 23:45	1
– Method: EPA 300.0 - Anions, Ion (Chromatogram	hv - Soluble	ġ						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	43.8		5.04		mg/Kg			07/29/23 02:59	1
Client Sample ID: S-1 (2')							Lab Sam	ple ID: 880-3	1299-2
Date Collected: 07/25/23 00:00								Matri	v: Solid
Date Collected. 07/25/25 00.00								Iviau	x. 3011u
Method: SW846 8021B - Volatile C	rganic Comp	ounds (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		08/01/23 10:33	08/02/23 09:45	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/01/23 10:33	08/02/23 09:45	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/01/23 10:33	08/02/23 09:45	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/01/23 10:33	08/02/23 09:45	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/01/23 10:33	08/02/23 09:45	1
	< 0.00402	U	0.00402		mg/Kg		08/01/23 10:33	08/02/23 09:45	1
Xylenes, Total									
Xylenes, Total Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Xylenes, Total Surrogate 4-Bromofluorobenzene (Surr)	%Recovery 234	Qualifier S1+	Limits				Prepared 08/01/23 10:33	Analyzed 08/02/23 09:45	Dil Fac

8/9/2023

Matrix: Solid

5

Client Sample Results

Job ID: 880-31299-1 SDG: Lea County, New Mexico

Lab Sample ID: 880-31299-2

Client Sample ID: S-1 (2') Date Collected: 07/25/23 00:00

Project/Site: Sterling 20 State 1H

Client: Carmona Resources

Date Received: 07/26/23 16:45

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			08/02/23 15:47	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	<50.5	U	50.5		mg/Kg			08/09/23 10:33	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	<50.5	U	50.5		mg/Kg		08/07/23 14:17	08/09/23 00:06	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.5	U	50.5		mg/Kg		08/07/23 14:17	08/09/23 00:06	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		08/07/23 14:17	08/09/23 00:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	187	S1+	70 - 130				08/07/23 14:17	08/09/23 00:06	1
o-Terphenyl	172	S1+	70 - 130				08/07/23 14:17	08/09/23 00:06	1
_ Method: EPA 300.0 - Anions. Ion	Chromatograp	hv - Solub	e						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
			E 01					07/20/22 02:05	1

Client Sample ID: S-1 (3')

Date Collected: 07/25/23 00:00

Lab Sample ID: 880-31299-3 Matrix: Solid

Date Received: 07/26/23 16:45

Method: SW846 8021B - Volati	ile Organic Comp	ounds (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		08/01/23 10:33	08/02/23 10:11	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/01/23 10:33	08/02/23 10:11	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/01/23 10:33	08/02/23 10:11	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		08/01/23 10:33	08/02/23 10:11	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		08/01/23 10:33	08/02/23 10:11	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		08/01/23 10:33	08/02/23 10:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	157	S1+	70 - 130				08/01/23 10:33	08/02/23 10:11	1
1,4-Difluorobenzene (Surr)	76		70 - 130				08/01/23 10:33	08/02/23 10:11	1

Method: TAL SOP Total E	STEX - Total BTEX Cal	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			08/02/23 15:47	1
- Method: SW846 8015 NM	- Diesel Range Organ	ics (DRO) (0	GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			08/09/23 10:33	1

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

			/					
Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		08/07/23 14:17	08/09/23 00:28	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		08/07/23 14:17	08/09/23 00:28	1
C10-C28)								

Client Sample Results

Client: Carmona Resources Project/Site: Sterling 20 State 1H

Client Sample ID: S-1 (3')

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

Job ID: 880-31299-1 SDG: Lea County, New Mexico

Lab Sample ID: 880-31299-3

Matrix: Solid

5

Method: SW846 8015B NM - Diesel	Range Orga	nics (DRO)	(GC) (Continu	ed)					
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/07/23 14:17	08/09/23 00:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	161	S1+	70 - 130				08/07/23 14:17	08/09/23 00:28	1
o-Terphenyl	151	S1+	70 - 130				08/07/23 14:17	08/09/23 00:28	1
Method: EPA 300.0 - Anions, Ion Cl	nromatograp	hy - Solubl	e						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	42.9		4.95		mg/Kg			07/29/23 03:10	1

Client: Carmona Resources Project/Site: Sterling 20 State 1H

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

				Percent Surrogate Recovery (Acceptance Limits
		BFB1	DFBZ1	
b Sample ID	Client Sample ID	(70-130)	(70-130)	
-31298-A-1-D MS	Matrix Spike	137 S1+	97	
-31298-A-1-E MSD	Matrix Spike Duplicate	149 S1+	97	
-31299-1	S-1 (0-1')	175 S1+	112	
-31299-2	S-1 (2')	234 S1+	120	
-31299-3	S-1 (3')	157 S1+	76	
880-58990/1-A	Lab Control Sample	128	108	
D 880-58990/2-A	Lab Control Sample Dup	114	74	
880-58815/5-A	Method Blank	73	93	
880-58990/5-A	Method Blank	80	83	

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	Client Sample ID	(70-130)	(70-130)	
70-19120-A-2-F MS	Matrix Spike	152 S1+	113	
370-19120-A-2-G MSD	Matrix Spike Duplicate	151 S1+	122	
380-31299-1	S-1 (0-1')	148 S1+	137 S1+	
380-31299-2	S-1 (2')	187 S1+	172 S1+	
80-31299-3	S-1 (3')	161 S1+	151 S1+	
CS 880-59402/2-A	Lab Control Sample	169 S1+	148 S1+	
CSD 880-59402/3-A	Lab Control Sample Dup	172 S1+	158 S1+	
/IB 880-59402/1-A	Method Blank	113	105	

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Prep Type: Total/NA

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Job ID: 880-31299-1

Prep Type: Total/NA

SDG: Lea County, New Mexico

QC Sample Results

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-58815/5-	Α										Client Sa	ample ID: N	lethod	Blank
Matrix: Solid												Prep Ty	pe: To	otal/NA
Analysis Batch: 58964												Prep	Batch:	58815
-		ΜВ	мв											
Analyte	Re	sult	Qualifier	RL		MDL	Unit		D	Р	repared	Analyze	d	Dil Fac
Benzene	< 0.00	200	U	0.00200			mg/Kg	3	_	07/3	1/23 09:23	08/01/23 1	1:55	1
Toluene	<0.00	200	U	0.00200			mg/Kg	9		07/3	1/23 09:23	08/01/23 1	1:55	1
Ethylbenzene	<0.00	200	U	0.00200			mg/Kg	9		07/3	1/23 09:23	08/01/23 1	1:55	1
m-Xylene & p-Xylene	<0.004	400	U	0.00400			mg/Kg	 J		07/3	1/23 09:23	08/01/23 1	1:55	1
o-Xylene	<0.00	200	U	0.00200			mg/Kg	3		07/3	1/23 09:23	08/01/23 1	1:55	1
Xylenes, Total	<0.004	400	U	0.00400			mg/Kg	9		07/3	1/23 09:23	08/01/23 1	1:55	1
		ΜВ	МВ											
Surrogate	%Recov	ery	Qualifier	Limits						P	repared	Analyze	d	Dil Fac
4-Bromofluorobenzene (Surr)		73		70 - 130						07/3	1/23 09:23	08/01/23 1	1:55	1
1,4-Difluorobenzene (Surr)		93		70 _ 130						07/3	1/23 09:23	08/01/23 1	1:55	1
Lab Sample ID: MB 880-58990/5-	A										Client Sa	ample ID: N	lethod	Blank
Matrix: Solid												Prep Ty	pe: To	otal/NA
Analysis Batch: 58964												Prep	Batch:	58990
		ΜВ	МВ											
Analyte	Re	sult	Qualifier	RL		MDL	Unit		D	Р	repared	Analyze	d	Dil Fac
Benzene	< 0.00	200	U	0.00200			mg/Kg]	_	08/0	1/23 10:33	08/02/23 0	1:11	1
Toluene	<0.00	200	U	0.00200			mg/Kg	9		08/0	1/23 10:33	08/02/23 0	1:11	1
Ethylbenzene	<0.00	200	U	0.00200			mg/Kg	9		08/0	1/23 10:33	08/02/23 0	1:11	1
m-Xylene & p-Xylene	<0.004	400	U	0.00400			mg/Kg	3		08/0	1/23 10:33	08/02/23 0	1:11	1
o-Xylene	<0.00	200	U	0.00200			mg/Kg	3		08/0	1/23 10:33	08/02/23 0	1:11	1
Xylenes, Total	< 0.004	400	U	0.00400			mg/Kg	3		08/0	1/23 10:33	08/02/23 0	1:11	1
		MR	MB					-						
Surrogate	%Recov	erv	Qualifier	l imits						P	renared	Δnalvze	d	Dil Fac
4-Bromofluorobenzene (Surr)		80	quamer	70 - 130						08/0	1/23 10:33	08/02/23 0	1.11	1
1,4-Difluorobenzene (Surr)		83		70 - 130						08/0	1/23 10:33	08/02/23 0	1:11	1
									_					
Lab Sample ID: LCS 880-58990/1	-A								C	lient	Sample	ID: Lab Co	ntrol S	sample
Matrix: Solid												Prepily	/pe: ic	
Analysis Batch: 58964												Prep	Batch:	58990
				Spike	LCS	LCS				_	~ -	%Rec		
Analyte				Added	Result	Qua	lifier	Unit		_ <u>D</u>	%Rec	Limits		
Benzene				0.100	0.1132			mg/Kg			113	70 - 130		
Ioluene				0.100	0.1137			mg/Kg			114	70 - 130		
Ethylbenzene				0.100	0.1119			mg/Kg			112	70 - 130		
m-Xylene & p-Xylene				0.200	0.2278			mg/Kg			114	70 - 130		
o-Xylene				0.100	0.1085			mg/Kg			109	70 - 130		
0	LCS	LCS		1										
Surrogate	%Recovery	Qua	lifter											
	120			70 - 130										
ווע-אדועסropenzene (Surr)	108			70 - 130										
Lab Sample ID: LCSD 880-58990	/2-A							Cli	ent	Sam	ple ID: L	ab Control	Samp	le Dup
Watrix: Solid												Prep Ty	pe: Ic	
Analysis Batch: 58964				0.1			_					Prep	Batch:	58990
Analyta				оріке Адара	LUSD	LUS	U 1161	11:-:+		~	0/ Dec	%rKeC	000	KPU
Analyte				Added	Result	Qua	nner	unit		U	‰rcec	LIMITS	RPD	Limit

5

7

SDG: Lea County, New Mexico

Job ID: 880-31299-1

Released to Imaging: 10/6/2023 12:48:46 PM

Benzene

0.09487

mg/Kg

95

70 - 130

0.100

35

Job ID: 880-31299-1 SDG: Lea County, New Mexico

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

Lab Sample ID: LCSD 880-5 Matrix: Solid	8990/2-A					Clier	nt San	nple ID:	Lab Contro Prep 1	l Sampl Type: To	e Dup tal/NA
Analysis Batch: 58964									Prep	Batch:	58990
			Spike	LCSD	LCSD				%Rec		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Toluene			0.100	0.1006		mg/Kg		101	70 - 130	12	35
Ethylbenzene			0.100	0.1024		mg/Kg		102	70 - 130	9	35
m-Xylene & p-Xylene			0.200	0.2067		mg/Kg		103	70 - 130	10	35
o-Xylene			0.100	0.09669		mg/Kg		97	70 - 130	12	35
	LCSD	LCSD									
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)			70 - 130								
1,4-Difluorobenzene (Surr)	74		70 - 130								
Lab Sample ID: 880-31298-A	A-1-D MS							Client	Sample ID	: Matrix	Spike
Matrix: Solid									Prep 1	ype: To	tal/NA
Analysis Batch: 58964									Prep	Batch:	58990
	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Benzene	<0.00200	U	0.0996	0.1021		mg/Kg		103	70 - 130		
Toluene	<0.00200	U	0.0996	0.08881		mg/Kg		88	70 - 130		
Ethylbenzene	<0.00200	U	0.0996	0.07294		mg/Kg		73	70 - 130		
m-Xylene & p-Xylene	<0.00399	U	0.199	0.1536		mg/Kg		77	70 - 130		
o-Xylene	<0.00200	U	0.0996	0.07078		mg/Kg		71	70 - 130		
	MS	MS									
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	137	S1+	70 - 130								
1,4-Difluorobenzene (Surr)	97		70 - 130								
Lab Sample ID: 880-31298-A	A-1-E MSD					CI	ient Sa	ample IC): Matrix Sp	oike Dup	olicate
Matrix: Solid									Prep 1	ype: To	tal/NA
Analysis Batch: 58964									Prep	Batch:	58990
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00200	U	0.0994	0.1033		mg/Kg		104	70 - 130	1	35
Toluene	<0.00200	U	0.0994	0.09014		mg/Kg		89	70 - 130	1	35
Ethylbenzene	<0.00200	U	0.0994	0.07476		mg/Kg		75	70 - 130	2	35
m-Xylene & p-Xylene	< 0.00399	U	0.199	0.1561		mg/Kg		78	70 - 130	2	35

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

<0.00200 U

MSD MSD %Recovery Qualifier

149 S1+

97

Lab Sample ID: MB 880-59402/1-A Matrix: Solid							Client Sa	mple ID: Metho Prep Type: 1	d Blank fotal/NA
Analysis Batch: 59596								Prep Batch	n: 59402
	МВ	МВ							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		08/05/23 18:11	08/08/23 19:25	1
(GRO)-C6-C10									

0.0994

Limits

70 - 130

70 - 130

0.07104

mg/Kg

71

70 - 130

Eurofins Midland

0

35

o-Xylene

Surrogate

4-Bromofluorobenzene (Surr)

1,4-Difluorobenzene (Surr)

QC Sample Results

Client: Carmona Resources Project/Site: Sterling 20 State 1H Job ID: 880-31299-1 SDG: Lea County, New Mexico

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

Lab Sample ID: MB 880-59402	2/1-A										Client S	ample ID: N	Nethoo	l Blank
Matrix: Solid												Prep T	ype: To	otal/NA
Analysis Batch: 59596												Prep	Batch	: 59402
		MB	MB											
Analyte	Re	sult	Qualifier	RL		MDL	Unit		D	P	repared	Analyze	ed	Dil Fac
Diesel Range Organics (Over C10-C28)	<	50.0	U	50.0			mg/Kg	9		08/0	5/23 18:11	08/08/23 1	19:25	1
Oll Range Organics (Over C28-C36)	<	50.0	U	50.0			mg/Kg	9		08/0	5/23 18:11	08/08/23 1	19:25	1
		MB	МВ											
Surrogate	%Reco	very	Qualifier	Limits						P	repared	Analyze	ed	Dil Fac
1-Chlorooctane		113		70 - 130						08/0	05/23 18:11	08/08/23 1	19:25	1
o-Terphenyl		105		70 - 130						08/0)5/23 18:11	08/08/23 1	19:25	1
Lab Sample ID: LCS 880-5940)2/2-A								С	lient	Sample	ID: Lab Co	ontrol S	Sample
Matrix: Solid												Prep T	ype: To	otal/NA
Analysis Batch: 59596												Prep	Batch	: 59402
				Spike	LCS	LCS						%Rec		
Analyte				Added	Result	Qua	lifier	Unit		D	%Rec	Limits		
Gasoline Range Organics (GRO)-C6-C10				1000	1068			mg/Kg			107	70 - 130		
Diesel Range Organics (Over C10-C28)				1000	1003			mg/Kg			100	70 - 130		
,	LCS	LCS												
Surrogate	%Recovery	Qual	ifier	Limits										
1-Chlorooctane	169	S1+		70 - 130										
o-Terphenyl	148	S1+		70 - 130										
Lab Sample ID: LCSD 880-594	402/3-A							0.1		•		als Construct		
Matrix: Solid Analysis Batch: 59596				Spike		109	D	CII	ient	Sam	ipie iD: L	Prep T Prep T Prep	ype: To Batch	otal/NA : 59402
Matrix: Solid Analysis Batch: 59596				Spike	LCSD	LCS	D	CII	ient	Sam	%Rec	Prep T Prep T %Rec	ype: To Batch	ole Dup otal/NA : 59402 RPD
Matrix: Solid Analysis Batch: 59596 Analyte Gasoline Bange Organics				Spike	LCSD Result	LCS Qual	D lifier	Unit ma/Ka			<u>%Rec</u> _	Prep Ty Prep %Rec Limits 70 - 130	ype: To Batch	ble Dup otal/NA : 59402 RPD Limit 20
Matrix: Solid Analysis Batch: 59596 Analyte Gasoline Range Organics (GRO)-C6-C10				Spike Added 1000	LCSD Result 1052	LCS Qual	D lifier	Unit mg/Kg		<u>D</u>	<u>%Rec</u> 105	Prep T Prep 7 %Rec Limits 70 - 130	ype: To Batch RPD	ble Dup otal/NA : 59402 RPD Limit 20
Matrix: Solid Analysis Batch: 59596 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over				Spike Added 1000	LCSD Result 1052 960.9	LCS Qual	D lifier	Unit mg/Kg		<u>D</u>	%Rec 105 -	AD Control Prep T Prep %Rec Limits 70 - 130 70 - 130	ype: To Batch RPD 2	ble Dup otal/NA : 59402 RPD Limit 20
Matrix: Solid Analysis Batch: 59596 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)				Spike Added 1000	LCSD Result 1052 960.9	LCS Qual	D lifier	Unit mg/Kg mg/Kg			%Rec 105 - 96	AD Control Prep T Prep T %Rec Limits 70 - 130 70 - 130	ype: To Batch RPD 2 4	ble Dup otal/NA : 59402 RPD Limit 20 20
Matrix: Solid Analysis Batch: 59596 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)				Spike Added 1000 1000	LCSD Result 1052 960.9	LCS Qual	D lifier	Unit mg/Kg mg/Kg		<u> </u>	%Rec 105 - 96	AD Control Prep T Prep %Rec Limits 70 - 130 70 - 130	ype: To Batch <u>RPD</u> 2 4	ble Dup otal/NA : 59402 RPD Limit 20 20
Matrix: Solid Analysis Batch: 59596 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	LCSD	LCSI		Spike Added 1000	LCSD Result 1052 960.9	LCS Qual	D lifier	Unit mg/Kg mg/Kg		<u>D</u>	%Rec 105 - 96	AD Control Prep Ty %Rec Limits 70 - 130 70 - 130	ype: To Batch <u>RPD</u> 2 4	ble Dup otal/NA : 59402 RPD Limit 20 20
Matrix: Solid Analysis Batch: 59596 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate	LCSD %Recovery	LCSI Qual	D	Spike Added 1000 1000 Limits	LCSD Result 1052 960.9	LCS Qua	D lifier	Unit mg/Kg mg/Kg		<u>D</u>	%Rec 105 -	AD Control Prep T %Rec Limits 70 - 130 70 - 130	ype: To Batch <u>RPD</u> 2 4	ble Dup otal/NA : 59402 RPD Limit 20 20
Matrix: Solid Analysis Batch: 59596 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane	LCSD %Recovery 172	LCSI Qual S1+	D	Spike Added 1000 1000 1000 1000 1000 1000	LCSD Result 1052 960.9	LCS Quai	D lifier	Unit mg/Kg mg/Kg		<u>D</u>		AD Control Prep T %Rec Limits 70 - 130 70 - 130	ype: To Batch RPD 2 4	ble Dup otal/NA : 59402 RPD Limit 20 20
Matrix: Solid Analysis Batch: 59596 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl	LCSD %Recovery 172 158	LCSI Qual S1+ S1+	D	Spike Added 1000 1000 1000 1000 70 - 130 70 - 130	LCSD Result 1052 960.9	LCS Qual	D lifier	Unit mg/Kg mg/Kg		<u> </u>	%Rec 105 96	AD Control Prep Ty %Rec Limits 70 - 130 70 - 130	ype: To Batch RPD 2 4	ble Dup otal/NA : 59402 RPD Limit 20 20
Matrix: Solid Analysis Batch: 59596 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 870-19120-A-	LCSD %Recovery 172 158 2-F MS	LCSI Qual S1+ S1+	D	Spike Added 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000	LCSD Result 1052 960.9	LCS Qual	D lifier	Unit mg/Kg mg/Kg			%Rec - 105 - 96 - Client : -	Control Prep Ty %Rec Limits 70 - 130 70 - 130 Sample ID:	Matrip	ble Dup otal/NA : 59402 RPD Limit 20 20
Matrix: Solid Analysis Batch: 59596 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 870-19120-A-7 Matrix: Solid	LCSD %Recovery 172 158 2-F MS	LCSL Quali S1+ S1+	D	Spike Added 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000	LCSD Result 1052 960.9	LCS Quai	D lifier	Unit mg/Kg mg/Kg			- %Rec 105 - 96	AD Control Prep T %Rec Limits 70 - 130 70 - 130 70 - 130 Sample ID: Prep T	Matrib ype: To Batch 2 4	A Spike
Matrix: Solid Analysis Batch: 59596 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 870-19120-A- Matrix: Solid Analysis Batch: 59596	LCSD %Recovery 172 158 2-F MS	LCSI Quali S1+ S1+	D	Spike Added 1000	LCSD Result 1052 960.9	LCS Quai	D lifier	Unit mg/Kg mg/Kg				AD Control Prep T Prep %Rec Limits 70 - 130 70 - 130 70 - 130 Sample ID: Prep T Prep T	Matrib ype: To Batch 2 4 Matrib ype: To Batch	k Spike otal/NA : 59402 RPD Limit 20 20
Matrix: Solid Analysis Batch: 59596 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 870-19120-A- Matrix: Solid Analysis Batch: 59596	LCSD %Recovery 172 158 2-F MS Sample	LCSI Quali S1+ S1+ Samu	D <i>ifier</i>	Spike Added 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 5pike	LCSD Result 1052 960.9	LCS Qual	D lifier	Unit mg/Kg mg/Kg			%Rec	Sample ID: Prep Type %Rec Limits 70 - 130 70 - 130	Matrip ype: To Batch 2 4 Matrip ype: To Batch	k Spike otal/NA : 59402 RPD 20 20
Matrix: Solid Analysis Batch: 59596 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 870-19120-A- Matrix: Solid Analysis Batch: 59596 Analyte	LCSD %Recovery 172 158 2-F MS Sample Result	LCSI Quali S1+ S1+ Samı Quali	D <i>ifier</i>	Spike Added 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 50 50 50 Spike Added	LCSD Result 1052 960.9 MS Result	LCS Quai	D lifier	Unit mg/Kg mg/Kg			%Rec - 105 - 96 - Client : - %Rec -	Sample ID: Prep Type %Rec Limits 70 - 130 70 - 130 Sample ID: Prep Type %Rec Limits	Matrib ype: To Batch 2 4 Matrib ype: To Batch	k Spike 59402 RPD 20 20
Matrix: Solid Analysis Batch: 59596 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 870-19120-A- Matrix: Solid Analysis Batch: 59596 Analyte Gasoline Range Organics (GRO)-C6-C10	LCSD %Recovery 172 158 2-F MS Sample Result <50.2	LCSI Quali S1+ S1+ Samı Quali	D ifier	Spike Added 1000	LCSD Result 1052 960.9 MS Result 1013	LCS Quai MS Quai	D lifier	Unit mg/Kg mg/Kg <u>Unit</u> mg/Kg			%Rec 105 96 Client : %Rec 97	Sample ID: Prep Type %Rec Limits 70 - 130 70 - 130 Sample ID: Prep Type %Rec Limits 70 - 130	Matrip ype: To Batch 2 4 Matrip ype: To Batch	k Spike
Matrix: Solid Analysis Batch: 59596 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 870-19120-A- Matrix: Solid Analysis Batch: 59596 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	LCSD %Recovery 172 158 2-F MS Sample <u>Result</u> <50.2 <50.2	LCSI Quali S1+ S1+ Samı Quali U	D <i>ifier</i>	Spike Added 1000	LCSD Result 1052 960.9 MS Result 1013 1459	LCS Quai	D lifier	Unit mg/Kg mg/Kg <u>Unit</u> mg/Kg mg/Kg			%Rec 105 96 Client 3 %Rec 97 144	Sample ID: Prep Ty %Rec Limits 70 - 130 70 - 130 Sample ID: Prep Ty %Rec Limits 70 - 130 %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130	Matrip ype: To Batch 2 4 Matrip ype: To Batch	k Spike
Matrix: Solid Analysis Batch: 59596 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 870-19120-A-: Matrix: Solid Analysis Batch: 59596 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	LCSD %Recovery 172 158 2-F MS Sample Result <50.2 <50.2	LCSI Quali S1+ S1+ Samı Quali U U F1	D <i>ifier</i>	Spike Added 1000	LCSD Result 1052 960.9 MS Result 1013 1459	LCS Quai MS Quai	D lifier	Unit mg/Kg mg/Kg Unit mg/Kg mg/Kg			%Rec 105 96 Client %Rec 97 144	Control Prep Type %Rec Limits 70 - 130 70 - 130 Sample ID: Prep Type %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130	Matrip ype: To Batch 2 4 Matrip ype: To Batch	k Spike
Matrix: Solid Analysis Batch: 59596 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 870-19120-A- Matrix: Solid Analysis Batch: 59596 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate	LCSD %Recovery 172 158 2-F MS 2-F MS 2-F MS 50.2 <50.2 <50.2 %Recovery	LCSI Quali S1+ S1+ Quali U U F1 MS Quali	D ifier	Spike Added 1000	LCSD Result 1052 960.9 MS Result 1013 1459	LCS Quai	D lifier	Unit mg/Kg mg/Kg <u>Unit</u> mg/Kg mg/Kg			%Rec	Sample ID: Prep Ty %Rec Limits 70 - 130 70 - 130 Sample ID: Prep Ty %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130	Matrib ype: To Batch 2 4 Matrib ype: To Batch	k Spike

Eurofins Midland

113

o-Terphenyl

70 - 130

QC Sample Results

Job ID: 880-31299-1 SDG: Lea County, New Mexico

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

Lab Sample ID: 870-19120-/	A-2-G MSD						c	Client	Sai	mple IC): Matrix S	pike Du	plicate
Matrix: Solid											Prep 1	Гуре: То	otal/NA
Analysis Batch: 59596											Prep	Batch:	59402
	Sample	Sample	Spike		MSD	MSD					%Rec		RPD
Analyte	Result	Qualifier	Added		Result	Qualifier	Unit	I	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	<50.2	U	999		1118		mg/Kg			108	70 - 130	10	20
(GRO)-C6-C10													
Diesel Range Organics (Over	<50.2	U F1	999		1472	F1	mg/Kg			146	70 - 130	1	20
C10-C28)													
	MSD	MSD											
Surrogate	%Recovery	Qualifier	Limits										
1-Chlorooctane		<u>S1+</u>	70 - 130	-									
o-Terphenyl	122		70 - 130										
Method: 300.0 - Anions,	Ion Chromat	ography											
 _													
Lab Sample ID: MB 880-586	60/1-A								C	Client S	ample ID:	Method	Blank
Matrix: Solid											Prep	Type: S	oluble
Analysis Batch: 58743													
		MB MB											
Analyte	R	esult Qualifier		RL		MDL Unit		D	Pre	epared	Analyz	zed	Dil Fac
Chloride		<5.00 U		5.00		mg/K	g				07/29/23	00:46	1
Lab Sample ID: LCS 880-58	660/2-A							Clie	ent S	Sample	D: Lab C	ontrol S	ample
Matrix: Solid											Prep	Type: S	oluble
Analysis Batch: 58743													
			Spike		LCS	LCS					%Rec		
Analyte			Added		Result	Qualifier	Unit	I	D	%Rec	Limits		
Chloride			250		253.7		mg/Kg			101	90 - 110		
Lab Sample ID: LCSD 880-5	58660/3-A						Cli	ent Sa	amp	ble ID:	Lab Contro	ol Samp	le Dup
Matrix: Solid											Prep	Type: S	oluble
Analysis Batch: 58743													
			Spike		LCSD	LCSD					%Rec		RPD
Analyte			Added		Result	Qualifier	Unit	I	D	%Rec	Limits	RPD	Limit
Chloride			250		269.2		mg/Kg			108	90 - 110	6	20
Lab Sample ID: 880-31298-/	A-1-B MS									Client	Sample ID	: Matrix	Spike
Matrix: Solid											Prep	Type: S	oluble
Analysis Batch: 58743													
-	Sample	Sample	Spike		MS	MS					%Rec		
Analyte	Result	Qualifier	Added		Result	Qualifier	Unit	I	D	%Rec	Limits		
Chloride	169		253		417.1		mg/Kg			98	90 - 110		
Lab Sample ID: 880-31298-/	A-1-C MSD							Client	Sai	mple IC): Matrix Sp	pike Du	plicate
Matrix: Solid											Prep	Type: S	oluble
Analysis Batch: 58743													
-	Sample	Sample	Spike		MSD	MSD					%Rec		RPD
Analyte	Result	Qualifier	Added		Result	Qualifier	Unit		D	%Rec	Limits	RPD	Limit
Chloride	169		253		426.8		mg/Kq			102	90 - 110	2	20

Client: Carmona Resources Project/Site: Sterling 20 State 1H

Job ID: 880-31299-1 SDG: Lea County, New Mexico

GC VOA

Prep Batch: 58815

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch	
MB 880-58815/5-A	Method Blank	Total/NA	Solid	5035		E
Analysis Batch: 58964						Э
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch	
880-31299-1	S-1 (0-1')	Total/NA	Solid	8021B	58990	
880-31299-2	S-1 (2')	Total/NA	Solid	8021B	58990	
880-31299-3	S-1 (3')	Total/NA	Solid	8021B	58990	
MB 880-58815/5-A	Method Blank	Total/NA	Solid	8021B	58815	8
MB 880-58990/5-A	Method Blank	Total/NA	Solid	8021B	58990	
LCS 880-58990/1-A	Lab Control Sample	Total/NA	Solid	8021B	58990	9
LCSD 880-58990/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	58990	
880-31298-A-1-D MS	Matrix Spike	Total/NA	Solid	8021B	58990	
880-31298-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	58990	
Prep Batch: 58990						
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch	
880-31299-1	S-1 (0-1')	Total/NA	Solid	5035		
880-31299-2	S-1 (2')	Total/NA	Solid	5035		40
880-31299-3	S-1 (3')	Total/NA	Solid	5035		13
MB 880-58990/5-A	Method Blank	Total/NA	Solid	5035		
1 00 000 50000/4 4		T 1 1/010	0 11 1	5005		

880-31299-2	S-1 (2')	Total/NA	Solid	5035	
880-31299-3	S-1 (3')	Total/NA	Solid	5035	
MB 880-58990/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-58990/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-58990/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-31298-A-1-D MS	Matrix Spike	Total/NA	Solid	5035	
880-31298-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 59136

Lab Sample ID 880-31299-1	Client Sample ID S-1 (0-1')	Prep Type Total/NA	Matrix Solid	Method Total BTEX	Prep Batch
880-31299-2	S-1 (2')	Total/NA	Solid	Total BTEX	
880-31299-3	S-1 (3')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 59402

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31299-1	S-1 (0-1')	Total/NA	Solid	8015NM Prep	
880-31299-2	S-1 (2')	Total/NA	Solid	8015NM Prep	
880-31299-3	S-1 (3')	Total/NA	Solid	8015NM Prep	
MB 880-59402/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-59402/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-59402/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
870-19120-A-2-F MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
870-19120-A-2-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 59596

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
880-31299-1	S-1 (0-1')	Total/NA	Solid	8015B NM	59402
880-31299-2	S-1 (2')	Total/NA	Solid	8015B NM	59402
880-31299-3	S-1 (3')	Total/NA	Solid	8015B NM	59402
MB 880-59402/1-A	Method Blank	Total/NA	Solid	8015B NM	59402
LCS 880-59402/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	59402

QC Association Summary

GC Semi VOA (Continued)

Analysis Batch: 59596 (Continued)

rep batch	Method	Matrix	Prep Type	Client Sample ID	Lab Sample ID
59402	8015B NM	Solid	Total/NA	Lab Control Sample Dup	LCSD 880-59402/3-A
59402	8015B NM	Solid	Total/NA	Matrix Spike	870-19120-A-2-F MS
59402	8015B NM	Solid	Total/NA	Matrix Spike Duplicate	870-19120-A-2-G MSD
	8015B NM	Solid	Total/NA	Matrix Spike Duplicate	870-19120-A-2-G MSD

Lab Sample ID 880-31299-1	Client Sample ID S-1 (0-1')	Prep Type Total/NA	Matrix Solid	Method 8015 NM	Prep Batch
880-31299-2	S-1 (2')	Total/NA	Solid	8015 NM	
880-31299-3	S-1 (3')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 58660

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31299-1	S-1 (0-1')	Soluble	Solid	DI Leach	
880-31299-2	S-1 (2')	Soluble	Solid	DI Leach	
880-31299-3	S-1 (3')	Soluble	Solid	DI Leach	
MB 880-58660/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-58660/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-58660/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-31298-A-1-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-31298-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 58743

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
880-31299-1	S-1 (0-1')	Soluble	Solid	300.0	58660
880-31299-2	S-1 (2')	Soluble	Solid	300.0	58660
880-31299-3	S-1 (3')	Soluble	Solid	300.0	58660
MB 880-58660/1-A	Method Blank	Soluble	Solid	300.0	58660
LCS 880-58660/2-A	Lab Control Sample	Soluble	Solid	300.0	58660
LCSD 880-58660/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	58660
880-31298-A-1-B MS	Matrix Spike	Soluble	Solid	300.0	58660
880-31298-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	58660

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Job ID: 880-31299-1 SDG: Lea County, New Mexico

5 8

Initial

Amount

5.04 g

5 mL

9.92 g

1 uL

4.96 g

Dil

1

1

1

1

1

Factor

Run

Final

Amount

5 mL

5 mL

10 mL

1 uL

50 mL

Batch

58990

58964

59136

59742

59402

59596

58660

58743

Number

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

Prep Type

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Soluble

Soluble

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

Job ID: 880-31299-1 SDG: Lea County, New Mexico

Lab Sample ID: 880-31299-1 Matrix: Solid

Analyst

EL

SM

SM

SM

ткс

SM

ĸs

СН

Lab

EET MID

Prepared

or Analyzed

08/01/23 10:33

08/02/23 09:20

08/02/23 15:47

08/09/23 10:33

08/07/23 14:17

08/08/23 23:45

07/27/23 14:22

07/29/23 02:59

5 9

Lab Sample ID: 880-31299-2 Matrix: Solid

Client Sample ID: S-1 (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			4.97 g	5 mL	58990	08/01/23 10:33	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58964	08/02/23 09:45	SM	EET MID
Total/NA	Analysis	Total BTEX		1			59136	08/02/23 15:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			59742	08/09/23 10:33	SM	EET MID
Total/NA	Prep	8015NM Prep			9.91 g	10 mL	59402	08/07/23 14:17	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59596	08/09/23 00:06	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	58660	07/27/23 14:22	KS	EET MID
Soluble	Analysis	300.0		1			58743	07/29/23 03:05	СН	EET MID

Client Sample ID: S-1 (3') Date Collected: 07/25/23 00:00 Date Received: 07/26/23 16:45

Lab Sample ID: 880-31299-3

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	58990	08/01/23 10:33	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58964	08/02/23 10:11	SM	EET MID
Total/NA	Analysis	Total BTEX		1			59136	08/02/23 15:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			59742	08/09/23 10:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	59402	08/07/23 14:17	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59596	08/09/23 00:28	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	58660	07/27/23 14:22	KS	EET MID
Soluble	Analysis	300.0		1			58743	07/29/23 03:10	CH	EET MID

Laboratory References:

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

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Job ID: 880-31299-1 SDG: Lea County, New Mexico

Laboratory: Eurofins Midland

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

Authority	Pi	rogram	Identification Number	Expiration Date
Texas	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	ay include analytes for v
the agency does not of	fer certification.			
the agency does not of Analysis Method	fer certification. Prep Method	Matrix	Analyte	
the agency does not of Analysis Method 8015 NM	fer certification . Prep Method	Matrix Solid	Analyte Total TPH	

Method Summary

Client: Carmona Resources Project/Site: Sterling 20 State 1H

Job ID: 880-31299-1 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	
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	erences:			
ASTM = A	STM International			
EPA = US	Environmental Protection Agency			
SW846 =	"Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Ec	ition, November 1986 And Its Updates.		
TAL SOP	= TestAmerica Laboratories, Standard Operating Procedure			

Laboratory References:

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

Client: Carmona Resources Project/Site: Sterling 20 State 1H Job ID: 880-31299-1 SDG: Lea County, New Mexico

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Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-31299-1	S-1 (0-1')	Solid	07/25/23 00:00	07/26/23 16:45
880-31299-2	S-1 (2')	Solid	07/25/23 00:00	07/26/23 16:45
880-31299-3	S-1 (3')	Solid	07/25/23 00:00	07/26/23 16:45



of Custody	ments				□ □ Other		Preservative Codes		DL HC HNO ₃ HNO ₃ HN	S0₄ H₂ NaOH Na	PO4 HP	PLACE NABIS	Acetate+NaOH Zn	aOH+Ascorbic Acid SAPC	Sample Comments								és com	Date/Time		
880-31299 Chain c	Work Order Col	IST/PST DRP Crownfie	oject:	evel II DLevel III DST/US	s EDD 🗌 ADaPT 🛛				<u><u> </u></u>	± :	F		Z	ez					×				errittC@carmonaresourc	gnature)		
		Program	State of Pr	Reporting L	Deliverable	IS REDIFIERT					*********												m, Clint Merritt M	Received by (Si	UAN	
						ANAL YS																	urces co			
		5	Blvd															-				 	 onareso			
		Corporatio	Country	7024						0 (900 ÷	oride	40			×	×	×					@carm		3	
%	lie Sanja	hon Oil C	own and	on TX 7					(оям ·	+ OAI	a + c	วชอ) WSI	08 H	Idī	×	×	×					- dehring	ime	2-0	3
9	Meloo	Marat	1 066	Houst	com			 		8	11208	3 X 31	.8			×	×	×						Date/1	- 20	7
			:		athonoil		Pres. Code		: 	eters	uner T	59 11			# of Cont	-	-	-	-				Moehr			
	Bill to (if different)	Company Name	Address	City, State ZIP	<u>nsanjari@mar</u> i	round	🗌 Rush	5 day		Kes No	H CO	98°'	3	S.J.	Water Comp	U	σ	0	U	9	:		s com, Conner			
		0	<u></u>		Email	Turn A	 ✓ Routine 	Due Date		Wet Ice			ading	srature	Soil	×	×	×	×	×			nonaresources			
						Ŧ		lexico		Yes (No	Thermometer ID	Correction Factor	Temperature Rea	Corrected Lempe	Time								icarmona@car	y ⁻ (Signature)		
		ources	Ste 500	9701		erling 20 State	2091	County, New N	CCM	mg Blank	es) No	No Yuax	No KLA		Date	7 25 23	7 25 23	7 25 23	7 25 23	7 25 23			e Carmona m	Relinquished t		
	on Merritt	nona Resi	W Wall St	and, TX 7		St		Lea		Te	Þ	Yes	Yes		tion								ults to Mi		1	
	ject Manager Clint	mpany Name Carn	idress 310	ty, State ZIP Midls	Jone	oject Name	oject Number	oject Location	Impler's Name	AMPLE RECEIPT	ceived Intact:	oler Custody Seals	mple Custody Seals tal Containers		Sample Identifica	S-1 (0-1')	S-1 (2')	S-1 (3')	S-1 (4')	S-1 (5')			omments Email rest		Ç	

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1

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Job Number: 880-31299-1

List Source: Eurofins Midland

SDG Number: Lea County, New Mexico

Login Sample Receipt Checklist

Client: Carmona Resources

Login Number: 31299 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	



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 8/9/2023 9:55:53 AM

JOB DESCRIPTION

Sterling 20 State 1H SDG NUMBER Lea County, New Mexico

JOB NUMBER

880-31296-1

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 8/9/2023 9:55:53 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: 880-31296-1 SDG: Lea County, New Mexico

Table of Contents

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Sample Summary	19
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Definitions/Glossary

Client: Carmona Resources
Project/Site: Sterling 20 State 1H

Job ID: 880-31296-1 SDG: Lea County, New Mexico

Qualifiers		3
GC VOA Qualifier	Qualifier Description	4
J	Indicates the analyte was analyzed for but not detected.	
GC Semi VOA		5
Qualifier	Qualifier Description	
S1+	Surrogate recovery exceeds control limits, high biased.	6
J	Indicates the analyte was analyzed for but not detected.	
HPLC/IC		
Qualifier	Qualifier Description	
J	Indicates the analyte was analyzed for but not detected.	8
Glossary		9
Abbreviation	These commonly used abbreviations may or may not be present in this report.	
ä	Listed under the "D" column to designate that the result is reported on a dry weight basis	10
%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	4.0
DL	Detection Limit (DoD/DOE)	13
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)	
	Estimated Detection Limit (Diavin)	

 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)

MDLMethod Detection LimitMLMinimum 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)

NEGNegative / AbsentPOSPositive / 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: 880-31296-1 SDG: Lea County, New Mexico

Job ID: 880-31296-1

Client: Carmona Resources Project/Site: Sterling 20 State 1H

Laboratory: Eurofins Midland

Narrative

Job Narrative 880-31296-1

Receipt

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

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: S-2 (0-1') (880-31296-1), S-2 (2') (880-31296-2) and S-2 (3') (880-31296-3).

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: Surrogate recovery for the following samples were outside control limits: (CCV 880-59598/31), (CCV 880-59598/47) and (CCV 880-59598/58). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: S-2 (0-1') (880-31296-1), S-2 (2') (880-31296-2), S-2 (3') (880-31296-3), (880-31325-A-21-E), (880-31325-A-21-F MS) and (880-31325-A-21-G MSD). 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 880-59535 and analytical batch 880-59598 contained Gasoline Range Organics (GRO)-C6-C10 above the method detection limit. This target analyte concentration was less than the reporting limit (RL); 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

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

Job ID: 880-31296-1 SDG: Lea County, New Mexico

Lab Sample ID: 880-31296-1

Matrix: Solid

5

Project/Site: Sterling 20 State 1H Client Sample ID: S-2 (0-1')

Client: Carmona Resources

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

Analyte Res	ult Quali	ier RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene <0.002	02 U	0.00202		mg/Kg		08/01/23 09:18	08/03/23 04:20	1
Toluene <0.002	02 U	0.00202		mg/Kg		08/01/23 09:18	08/03/23 04:20	1
Ethylbenzene <0.002	02 U	0.00202		mg/Kg		08/01/23 09:18	08/03/23 04:20	1
m-Xylene & p-Xylene <0.004	03 U	0.00403		mg/Kg		08/01/23 09:18	08/03/23 04:20	1
o-Xylene <0.002	02 U	0.00202		mg/Kg		08/01/23 09:18	08/03/23 04:20	1
Xylenes, Total <0.004	03 U	0.00403		mg/Kg		08/01/23 09:18	08/03/23 04:20	1
Surrogate %Recover	ry Quali	fier Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr) 1	13	70 - 130				08/01/23 09:18	08/03/23 04:20	1
1,4-Difluorobenzene (Surr) 1	04	70 - 130				08/01/23 09:18	08/03/23 04:20	1
Method: TAL SOP Total BTEX - Total BTEX C	alculati	on						
Analyte Res	ult Quali	ier RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX <0.004	03 U	0.00403		mg/Kg			08/03/23 09:53	1
Method: SW846 8015 NM - Diesel Range Org	anics (E	RO) (GC)						
Analyte Res	ult Quali	ier RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH <49	.6 U	49.6		mg/Kg			08/09/23 10:25	1
Method: SW846 8015B NM - Diesel Range Or	ganics	DRO) (GC)						
Analyte Res	ult Quali	ier RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics <49 (GRO)-C6-C10	.6 U	49.6		mg/Kg		08/07/23 14:29	08/09/23 03:41	1
Diesel Range Organics (Over <49	.6 U	49.6		mg/Kg		08/07/23 14:29	08/09/23 03:41	1
OII Range Organics (Over C28-C36)<49	.6 U	49.6		mg/Kg		08/07/23 14:29	08/09/23 03:41	1
Surrogate %Recover	ry Quali	fier Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane 1	42 S1+	70 - 130				08/07/23 14:29	08/09/23 03:41	1
o-Terphenyl 1	66 S1+	70 - 130				08/07/23 14:29	08/09/23 03:41	1
- Method: EPA 300.0 - Anions, Ion Chromatogr	aphy -	Soluble						
Analyte Res	ult Quali	ïer RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride 83	.9	4.99		mg/Kg			07/29/23 01:34	1
Client Sample ID: S-2 (2')						Lab Sam	ple ID: 880-3	1296-2
Date Collected: 07/25/23 00:00							Matri	ix: Solid
Date Received: 07/26/23 16:45								
Method: SW846 8021B - Volatile Organic Con	npound	s (GC)						
Analyte Res	ult Quali	ier RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene <0.002	01 U	0.00201		mg/Kg		08/01/23 09:18	08/03/23 04:40	1
Toluene <0.002	01 U	0.00201		mg/Kg		08/01/23 09:18	08/03/23 04:40	1
Ethylbenzene <0.002	01 U	0.00201		mg/Kg		08/01/23 09:18	08/03/23 04:40	1
m-Xylene & p-Xylene <0.004	02 U	0.00402		mg/Kg		08/01/23 09:18	08/03/23 04:40	1
o-Xylene <0.002	01 U	0.00201		mg/Kg		08/01/23 09:18	08/03/23 04:40	1
Xylenes, Total <0.004	02 U	0.00402		mg/Kg		08/01/23 09:18	08/03/23 04:40	1
Surrogate%Recover	ry Quali	fier Limits				Prepared	Analyzed	Dil Fac
Surrogate%Recove4-Bromofluorobenzene (Surr)1	ry Quali	fier <u>Limits</u> 70 - 130				Prepared 08/01/23 09:18	Analyzed 08/03/23 04:40	Dil Fac

Eurofins Midland

Released to Imaging: 10/6/2023 12:48:46 PM

Matrix: Solid

5

Client Sample Results

Job ID: 880-31296-1 SDG: Lea County, New Mexico

Lab Sample ID: 880-31296-2

Client Sample ID: S-2 (2') Date Collected: 07/25/23 00:00

Project/Site: Sterling 20 State 1H

Client: Carmona Resources

Date Received: 07/26/23 16:45

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	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	<50.3	U	50.3		mg/Kg			08/09/23 10:25	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		08/07/23 14:29	08/09/23 04:03	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.3	U	50.3		mg/Kg		08/07/23 14:29	08/09/23 04:03	
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		08/07/23 14:29	08/09/23 04:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	145	S1+	70 - 130				08/07/23 14:29	08/09/23 04:03	1
o-Terphenyl	173	S1+	70 - 130				08/07/23 14:29	08/09/23 04:03	1
- Method: EPA 300.0 - Anions. Ion	Chromatograp	hv - Solubl	e						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: S-2 (3')

Date Collected: 07/25/23 00:00

Lab Sample ID: 880-31296-3 Matrix: Solid

Date Received: 07/26/23 16:45

Method: SW846 8021B - Volatil	e Organic Comp	ounds (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	< 0.00202	U	0.00202		mg/Kg		08/01/23 09:18	08/03/23 05:01	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/01/23 09:18	08/03/23 05:01	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/01/23 09:18	08/03/23 05:01	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		08/01/23 09:18	08/03/23 05:01	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		08/01/23 09:18	08/03/23 05:01	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		08/01/23 09:18	08/03/23 05:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130				08/01/23 09:18	08/03/23 05:01	1
1,4-Difluorobenzene (Surr)	102		70 - 130				08/01/23 09:18	08/03/23 05:01	1

Method: TAL SOP Total BTEX -	Total BTEX Cal	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 - Dies	sel Range Organ	ics (DRO) (0	GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4		mg/Kg			08/09/23 10:25	1
- Method: SW846 8015B NM - Di	esel Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.4	U	50.4		mg/Kg		08/07/23 14:29	08/09/23 04:24	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.4	U	50.4		mg/Kg		08/07/23 14:29	08/09/23 04:24	1
C10-C28)									

Client Sample Results

Client: Carmona Resources Project/Site: Sterling 20 State 1H

Client Sample ID: S-2 (3') Date Collected: 07/25/23 00:00

Date Received: 07/26/23 16:45

Job ID: 880-31296-1 SDG: Lea County, New Mexico

Lab Sample ID: 880-31296-3

Matrix: Solid

5

Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC) (Continu	ied)					
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		08/07/23 14:29	08/09/23 04:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	149	S1+	70 - 130				08/07/23 14:29	08/09/23 04:24	1
o-Terphenyl	185	S1+	70 - 130				08/07/23 14:29	08/09/23 04:24	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	ohy - Solubl	e						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	48.8		4.96		mg/Kg			07/29/23 01:55	1

Eurofins Midland

Released to Imaging: 10/6/2023 12:48:46 PM

Client: Carmona Resources Project/Site: Sterling 20 State 1H

Job ID: 880-31296-1 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	
880-31296-1	S-2 (0-1')	113	104	
880-31296-2	S-2 (2')	112	107	
380-31296-3	S-2 (3')	103	102	
LCS 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	
MB 880-58998/5-A	Method Blank	85	89	

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)	
880-31296-1	S-2 (0-1')	142 S1+	166 S1+	
880-31296-2	S-2 (2')	145 S1+	173 S1+	
880-31296-3	S-2 (3')	149 S1+	185 S1+	
880-31325-A-21-F MS	Matrix Spike	138 S1+	152 S1+	
880-31325-A-21-G MSD	Matrix Spike Duplicate	160 S1+	166 S1+	
LCS 880-59535/2-A	Lab Control Sample	102	128	
LCSD 880-59535/3-A	Lab Control Sample Dup	102	128	
MB 880-59535/1-A	Method Blank	101	123	

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

G: Lea County, New Mexico

Prep Type: Total/NA

Prep Type: Total/NA

QC Sample Results

Client: Carmona Resources Project/Site: Sterling 20 State 1H

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

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	

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Prep Type: Total/NA

Client Sample ID: Matrix Spike

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

SDG: Lea County, New Mexico

Job ID: 880-31296-1

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 58971

Prep Batch: 58971

Client: Carmona Resources

Project/Site: Sterling 20 State 1H

Job ID: 880-31296-1 SDG: Lea County, New Mexico

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

Matrix: Solid												Prep Ty	/pe: To	otal/NA
Analysis Batch: 59072												Prep	Batch:	5897 1
	Sample	Sam	ple	Spike	MS	MS						%Rec		
Analyte	Result	Qua	lifier	Added	Result	Qua	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-1	-B MSD								Clier	nt Sa	mple ID:	Matrix Sp	ike Duj	plicate
Matrix: Solid												Prep Ty	/pe: To	otal/NA
Analysis Batch: 59072												Prep	Batch:	58971
-	Sample	Sam	ple	Spike	MSD	MSE)					%Rec		RPD
Analyte	Result	Qua	lifier	Added	Result	Qua	lifier	Unit		D	%Rec	Limits	RPD	Limi
Benzene	<0.00202	U		0.0994	0.07017			mg/Kg		_	71	70 - 130	7	35
Toluene	<0.00202	U		0.0994	0.08738			mg/Kg			88	70 - 130	3	35
Ethylbenzene	<0.00202	U		0.0994	0.07772			mg/Kg			78	70 - 130	4	35
m-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)											
Surrogate	%Recovery	Qua	lifier	Limits										
4-Bromofluorobenzene (Surr)	108			70 _ 130										
1,4-Difluorobenzene (Surr)	104			70 - 130										
Lab Sample ID: MB 880-58998/	/5-A										Client Sa	mple ID: N	lethod	Blank
Matrix: Solid												Prep Ty	/pe: To	otal/NA
Analysis Batch: 59072												Prep	Batch:	58998
		ΜВ	MB											
Analyte	Re	esult	Qualifier	R	L	MDL	Unit		D	Pr	epared	Analyze	d	Dil Fac
Benzene	<0.00	0200	U	0.0020	0		mg/Kg	9		08/0	1/23 10:59	08/02/23 1	1:28	1
Toluene	<0.00	0200	U	0.0020	0		mg/Kg	9		08/0	1/23 10:59	08/02/23 1	1:28	1
Ethylbenzene	<0.00	0200	U	0.0020	0		mg/Kg	9		08/0	1/23 10:59	08/02/23 1	1:28	1
m-Xylene & p-Xylene	<0.00	0400	U	0.0040	0		mg/Kg	9		08/0	1/23 10:59	08/02/23 1	1:28	1
o-Xylene	<0.00	0200	U	0.0020	0		mg/Kg	9		08/0	1/23 10:59	08/02/23 1	1:28	1
Xylenes, Total	<0.00	0400	U	0.0040	0		mg/Kg	9		08/0	1/23 10:59	08/02/23 1	1:28	1
		ΜВ	ΜВ											
Surrogate	%Reco	very	Qualifier	Limits	_					Pi	repared	Analyze	d	Dil Fac
		85		70 - 130						08/0	1/23 10:59	08/02/23 1	1:28	1
4-Bromofluorobenzene (Surr)														

Lab Sample ID: MB 880-59535/1-A							Client Sa	mple ID: Metho	d Blank
Matrix: Solid	olid Prep T						Prep Type: 1	fotal/NA	
Analysis Batch: 59598								Prep Batch	n: 59535
	MB	МВ							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		08/07/23 14:29	08/08/23 19:25	1

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(GRO)-C6-C10

QC Sample Results

Client: Carmona Resources Project/Site: Sterling 20 State 1H Job ID: 880-31296-1

SDG: Lea County, New Mexico

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

Lab Sample ID: MB 880-59535/	1-A									Client S	Sample ID:	Method	Blank
Matrix: Solid											Prep ⁻	Гуре: То	otal/NA
Analysis Batch: 59598											Prep	Batch:	59535
		MB	МВ										
Analyte	R	esult	Qualifier	R	L 	MDL	Unit		D	Prepared	Analyz	zed	Dil Fac
Diesel Range Organics (Over	•	<50.0	U	50.	0	I	mg/Kg		08	/07/23 14:2	9 08/08/23	19:25	1
Oll Range Organics (Over C28-C36)		\$50.0	U	50	n		ma/Ka		08	/07/23 14.2	9 08/08/23	19.25	1
		00.0	C			-				0.7202	00,00,20	10.20	
		MB	МВ										
Surrogate	%Reco	overy	Qualifier	Limits	_					Prepared	Analyz	zed	Dil Fac
I-Chlorooctane		101		70 - 130					08	/07/23 14:2	9 08/08/23	19:25	1
- Terphenyl		123		70 - 130					08	/07/23 14:2	9 08/08/23	19:25	1
ab Sample ID: I CS 880-59535	1 2- 4								Clier	nt Sample	e ID: I ah C	ontrol S	amnle
Matrix: Solid									Union	it oumpr	Pren ⁻	Type: To	tal/NΔ
Analysis Batch: 59598											Prer	Batch	59535
				Spike	LCS	LCS					%Rec		
Analyte				Added	Result	Qualif	ier	Unit	D	%Rec	Limits		
Basoline Range Organics				1000	970.1			mg/Kg		97	70 - 130		
GRO)-C6-C10													
Diesel Range Organics (Over				1000	964.8		I	mg/Kg		96	70 - 130		
C10-C28)													
	LCS	LCS											
Surrogate	%Recovery	Qua	lifier	Limits									
-Chlorooctane	102			70 - 130									
-Terphenyl	128			70 - 130									
ah Comple ID: LOOD 999 505								0	t C-	male ID-	Lob Contro	l Com-	la Dura
Lab Sample ID: LCSD 880-595. Motrix: Solid	55/3-A							Cli	ent Sa	inpie ID:		ы Samp	
vidurix: Juliu Analysis Ratch: 59509											Prep	NPe: 10	5052F
-marysis Daten. 33330				Snike							WRec	, Dateri.	00000 00000
Analyte				Added	Result	Qualif	ier	Unit	п	%Rec	Limits	RPD	Limit
Gasoline Range Organics				1000	1003			mg/Ka		100	70 - 130	3	
GRO)-C6-C10							·	.99				5	20
Diesel Range Organics (Over				1000	969.6		I	mg/Kg		97	70 - 130	1	20
C10-C28)													
	LCSD	LCS	D										
Surrogate	%Recovery	Qua	lifier	Limits									
-Chlorooctane	102			70_130									
-Terphenyl	128			70 - 130									
p-Terphenyl	128			70 - 130									
-Terphenyl _ab Sample ID: 880-31325-A-2	128 1-F MS			70 - 130						Client	Sample ID	: Matrix	Spike
- <i>Terphenyl</i> _ab Sample ID: 880-31325-A-2 [.] Matrix: Solid	128 1-F MS			70 - 130						Client	Sample ID Prep ⁻	: Matrix Type: To	Spike
- <i>Terphenyl</i> Lab Sample ID: 880-31325-A-2 [.] Matrix: Solid Analysis Batch: 59598	128 1-F MS			70 - 130						Client	: Sample ID Prep Prep	: Matrix Type: To Batch:	Spike stal/NA 59535
- <i>Terphenyl</i> .ab Sample ID: 880-31325-A-2 Matrix: Solid Analysis Batch: 59598	128 1-F MS Sample	Sam	ple	70 _ 130 Spike	MS	MS				Client	Sample ID Prep Prep %Rec	: Matrix Type: To Batch:	Spike otal/NA 59535
- <i>Terphenyl</i> Lab Sample ID: 880-31325-A-2 Matrix: Solid Analysis Batch: 59598 Malyte	128 1-F MS Sample Result	Sam Qual	ple ifier	70 _ 130 Spike Added	MS Result	MS Qualif	ïer	Unit	D	Client %Rec	Sample ID Prep %Rec Limits	: Matrix Type: To Batch:	Spike otal/NA 59535
D-Terphenyl Lab Sample ID: 880-31325-A-2 Matrix: Solid Analysis Batch: 59598 Analyte Jasoline Range Organics	128 1-F MS Sample Result <49.9	Sam Qual U	ple ifier	70 - 130 Spike Added 1010	MS Result 984.3	MS Qualif	ïer	Unit mg/Kg	<u>D</u>	Client %Rec 94	Sample ID Prep %Rec Limits 70 - 130	: Matrix Type: To Batch: 	Spike otal/NA 59535
D-Terphenyl Lab Sample ID: 880-31325-A-2 Matrix: Solid Analysis Batch: 59598 Analyte Gasoline Range Organics GRO)-C6-C10 Discel Range Organics (Over	128 1-F MS Sample Result <49.9	Sam Qual U	ple lifier	70 - 130 Spike Added 1010	MS Result 984.3	MS Qualif	ier	Unit mg/Kg	D	Client - <u>%Rec</u> 94	Sample ID Prep %Rec Limits 70 - 130	: Matrix Type: To Batch:	Spike otal/NA 59535
-Terphenyl -ab Sample ID: 880-31325-A-2 Vatrix: Solid Analysis Batch: 59598 Valyte Basoline Range Organics GRO)-C6-C10 Viesel Range Organics (Over 210-C28)	128 1-F MS Sample Result <49.9 136	Sam Qual U	ple ifier	70 - 130 Spike Added 1010 1010	MS Result 984.3 1054	MS Qualif	ier	Unit mg/Kg mg/Kg	<u>D</u>	Client %Rec 94 91	Sample ID Prep ⁻ %Rec Limits 70 - 130 70 - 130	: Matrix Type: To Batch:	Spike otal/NA 59535
- <i>Terphenyl</i> Lab Sample ID: 880-31325-A-2 Matrix: Solid Analysis Batch: 59598 Analyte Basoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over 210-C28)	128 1-F MS Sample Result <49.9 136	Sam Qual U	ple ifier	70 - 130 Spike Added 1010 1010	MS Result 984.3 1054	MS Qualif	ïer	<mark>Unit</mark> mg/Kg mg/Kg	<u>D</u>	Client - <u>%Rec</u> 94 91	Sample ID Prep %Rec Limits 70 - 130 70 - 130	: Matrix Type: To Batch:	Spike otal/NA 59535
Analysis Batch: 59598 Analysis Batch: 59598 Analyte Basoline Range Organics GRO)-C6-C10 Viesel Range Organics (Over 10-C28)	128 1-F MS Sample Result <49.9 136 <i>MS</i>	Sam Qual U	ple ifier	70 - 130 Spike Added 1010 1010	MS Result 984.3 1054	MS Qualif	ier	<mark>Unit</mark> mg/Kg mg/Kg	<u>D</u>	Client - <u>%Rec</u> 94 91	Sample ID Prep %Rec Limits 70 - 130 70 - 130	: Matrix Type: To Batch: 	Spike otal/NA 59535
-Terphenyl -ab Sample ID: 880-31325-A-2 Matrix: Solid Analysis Batch: 59598 Analyte Basoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate	128 I-F MS Sample Result <49.9 136 <i>MS</i> <i>%Recovery</i>	Sam Qual U MS Qual	ple ifier	70 - 130 Spike Added 1010 1010 Limits 70 - 100	MS <u>Result</u> 984.3 1054	MS Qualif	ier	Unit mg/Kg mg/Kg	<u>D</u>	Client • %Rec 94 91	Sample ID Prep %Rec Limits 70 - 130 70 - 130	: Matrix Type: To Batch: 	Spike otal/NA 59535
-Terphenyl Lab Sample ID: 880-31325-A-2 Matrix: Solid Analysis Batch: 59598 Analyte Basoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over 210-C28) Surrogate -Chlorooctane Terphenyl	128 1-F MS Sample Result <49.9 136 <i>MS</i> <i>%Recovery</i> 138	Sam Qual U MS Qua S1+	ple lifier	70 - 130 Spike Added 1010 1010 Limits 70 - 130 70 - 130 70 - 130	MS <u>Result</u> 984.3 1054	MS Qualif	ier	Unit mg/Kg mg/Kg	<u>D</u>	Client - <u>%Rec</u> 94 91	Sample ID Prep %Rec Limits 70 - 130 70 - 130	: Matrix Type: To Batch: 	Spike otal/NA 59535

QC Sample Results

Job ID: 880-31296-1 SDG: Lea County, New Mexico

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

Lab Sample ID: 880-31325-	A-21-G MSD							Clien	t Sa	ample IC): Matrix S	pike Du	plicate
Matrix: Solid											Prep 1	Type: To	otal/NA
Analysis Batch: 59598											Prep	Batch:	59535
	Sample	Sample	Spike		MSD	MSD					%Rec		RPD
Analyte	Result	Qualifier	Added	F	Result	Qualifier	Unit		D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	<49.9	U	1010		1127		mg/Kg		_	108	70 - 130	14	20
(GRO)-C6-C10													
Diesel Range Organics (Over	136		1010		1203		mg/Kg			106	70 - 130	13	20
C10-C28)													
	MSD	MSD											
Surrogate	%Recovery	Qualifier	Limits										
1-Chlorooctane		<u>S1+</u>	70 - 130										
o-Terphenvl	166	S1+	70 - 130										
		•											
Method: 300.0 - Anions,	Ion Chromat	ography											
<u> </u>													
Lab Sample ID: MB 880-586	60/1-A									Client S	ample ID:	Method	l Blank
Matrix: Solid											Prep	Type: S	Soluble
Analysis Batch: 58743													
		MB MB											
Analyte	R	esult Qualifier		RL		MDL Unit		D	P	repared	Analyz	zed	Dil Fac
Chloride		<5.00 U		5.00		mg/K	g				07/29/23	00:46	1
_													
Lab Sample ID: LCS 880-58	660/2-A							Cli	ent	Sample	ID: Lab C	ontrol S	Sample
Matrix: Solid											Prep	Type: S	Soluble
Analysis Batch: 58743													
			Spike		LCS	LCS					%Rec		
Analyte			Added	F	Result	Qualifier	Unit		D	%Rec	Limits		
Chloride			250		253.7		mg/Kg		_	101	90 - 110		
_													
Lab Sample ID: LCSD 880-5	8660/3-A						Cli	ient S	Sam	ple ID:	Lab Contro	ol Samp	le Dup
Matrix: Solid											Prep	Type: S	Soluble
Analysis Batch: 58743													
-			Spike		LCSD	LCSD					%Rec		RPD
Analyte			Added	F	Result	Qualifier	Unit		D	%Rec	Limits	RPD	Limit
Chloride			250		269.2		mg/Kg		_	108	90 - 110	6	20
—													
Lab Sample ID: 880-31292-	A-1-B MS									Client	Sample ID	: Matrix	Spike
Matrix: Solid											Prep	Type: S	Soluble
Analysis Batch: 58743													
	Sample	Sample	Spike		MS	MS					%Rec		
Analyte	Result	Qualifier	Added	F	Result	Qualifier	Unit		D	%Rec	Limits		
Chloride	65.6		251		292.8		ma/Ka		—	91	90 - 110		
_			-				5. 5			-	-		
Lab Sample ID: 880-31292-4	A-1-C MSD							Clien	t Sa	ample IC): Matrix Si	pike Du	plicate
Matrix: Solid											Prep	Type: S	Soluble
Analysis Batch: 58743												1.000	
	Sample	Sample	Spike		MSD	MSD					%Rec		RPD
Analyte	Result	Qualifier	Added	F	Result	Qualifier	Unit		D	%Rec	Limits	RPD	Limit
Chloride			251	•	304.8		ma/Ka		_	95	90 110		
onionuo	00.0		201		007.0		ing/itg			30	50 - 110	+	20

Eurofins Midland

Released to Imaging: 10/6/2023 12:48:46 PM

Client Sample ID

S-2 (0-1')

S-2 (2')

S-2 (3')

Method Blank

Matrix Spike

Lab Control Sample

Lab Control Sample Dup

Matrix Spike Duplicate

Client Sample ID

Method Blank

QC Association Summary

Prep Type

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Prep Type

Total/NA

Matrix

Solid

Solid

Solid

Solid

Solid

Solid

Solid

Solid

Matrix

Solid

Client: Carmona Resources Project/Site: Sterling 20 State 1H Page 179 of 224

Prep Batch

Job ID: 880-31296-1 SDG: Lea County, New Mexico

Method

5035

5035

5035

5035

5035

5035

5035

5035

Method Prep Batch 5035 Prep Batch Method 8021B 58971

Lab Sample ID
MB 880-58998/5-A

Analysis Batch: 59072

Prep Batch: 58998

GC VOA

Prep Batch: 58971

Lab Sample ID

880-31296-1

880-31296-2

880-31296-3

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

Lab Sample ID **Client Sample ID** Prep Type Matrix 880-31296-1 Total/NA S-2 (0-1') Solid 880-31296-2 S-2 (2') Total/NA Solid 8021B 58971 880-31296-3 S-2 (3') Total/NA Solid 8021B 58971 MB 880-58971/5-A Method Blank Total/NA Solid 8021B 58971 Total/NA MB 880-58998/5-A Method Blank Solid 8021B 58998 Total/NA Solid LCS 880-58971/1-A Lab Control Sample 8021B 58971 Lab Control Sample Dup Total/NA Solid 8021B LCSD 880-58971/2-A 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: 59212

Lab Sample ID 880-31296-1	Client Sample ID S-2 (0-1')	Prep Type Total/NA	Matrix Solid	Method	Prep Batch
880-31296-2	S-2 (2')	Total/NA	Solid	Total BTEX	
880-31296-3	S-2 (3')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 59535

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method Prep Batch
880-31296-1	S-2 (0-1')	Total/NA	Solid	8015NM Prep
880-31296-2	S-2 (2')	Total/NA	Solid	8015NM Prep
880-31296-3	S-2 (3')	Total/NA	Solid	8015NM Prep
MB 880-59535/1-A	Method Blank	Total/NA	Solid	8015NM Prep
LCS 880-59535/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep
LCSD 880-59535/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep
880-31325-A-21-F MS	Matrix Spike	Total/NA	Solid	8015NM Prep
880-31325-A-21-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep

Analysis Batch: 59598

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31296-1	S-2 (0-1')	Total/NA	Solid	8015B NM	59535
880-31296-2	S-2 (2')	Total/NA	Solid	8015B NM	59535
880-31296-3	S-2 (3')	Total/NA	Solid	8015B NM	59535
MB 880-59535/1-A	Method Blank	Total/NA	Solid	8015B NM	59535
LCS 880-59535/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	59535

QC Association Summary

GC Semi VOA (Continued)

Analysis Batch: 59598 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-59535/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	59535
880-31325-A-21-F MS	Matrix Spike	Total/NA	Solid	8015B NM	59535
880-31325-A-21-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	59535

Lab Sample ID 880-31296-1	Client Sample ID S-2 (0-1')	Prep Type Total/NA	Matrix Solid	Method 8015 NM	Prep Batch
880-31296-2	S-2 (2')	Total/NA	Solid	8015 NM	
880-31296-3	S-2 (3')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 58660

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31296-1	S-2 (0-1')	Soluble	Solid	DI Leach	
880-31296-2	S-2 (2')	Soluble	Solid	DI Leach	
880-31296-3	S-2 (3')	Soluble	Solid	DI Leach	
MB 880-58660/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-58660/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-58660/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-31292-A-1-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-31292-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 58743

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
880-31296-1	S-2 (0-1')	Soluble	Solid	300.0	58660
880-31296-2	S-2 (2')	Soluble	Solid	300.0	58660
880-31296-3	S-2 (3')	Soluble	Solid	300.0	58660
MB 880-58660/1-A	Method Blank	Soluble	Solid	300.0	58660
LCS 880-58660/2-A	Lab Control Sample	Soluble	Solid	300.0	58660
LCSD 880-58660/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	58660
880-31292-A-1-B MS	Matrix Spike	Soluble	Solid	300.0	58660
880-31292-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	58660

5

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Job ID: 880-31296-1

SDG: Lea County, New Mexico
Initial

Amount

4.96 g

5 mL

10.09 g

1 uL

5.01 g

Final

Amount

5 mL

5 mL

10 mL

1 uL

50 mL

Batch

58971

59072

59212

59738

59535

59598

58660

58743

Number

Dil

1

1

1

1

1

Factor

Run

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

Prep Type

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Soluble

Soluble

Batch

Туре

Prep

Analysis

Analysis

Analysis

Analysis

Analysis

I each

Prep

Batch

Method

5035

8021B

Total BTEX

8015NM Prep

8015B NM

DI Leach

300.0

8015 NM

Job ID: 880-31296-1 SDG: Lea County, New Mexico

Lab Sample ID: 880-31296-1 Matrix: Solid

Analyst

EL

SM

SM

SM

ткс

SM

ĸs

СН

Lab

EET MID

EET MID

EET MID

EET MID

EET MID

EET MID

FFT MID

EET MID

Matrix: Solid

Prepared

or Analyzed

08/01/23 09:18

08/03/23 04:20

08/03/23 09:53

08/09/23 10:25

08/07/23 14:29

08/09/23 03:41

07/27/23 14:22

07/29/23 01:34

Lab Sample ID: 880-31296-2 Matrix: Solid

Lab Sample ID: 880-31296-3

rix: Solid

11 12 13

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			4.98 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 04:40	SM	EET MID
Total/NA	Analysis	Total BTEX		1			59212	08/03/23 09:53	SM	EET MID
Total/NA	Analysis	8015 NM		1			59738	08/09/23 10:25	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	59535	08/07/23 14:29	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59598	08/09/23 04:03	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	58660	07/27/23 14:22	KS	EET MID
Soluble	Analysis	300.0		1			58743	07/29/23 01:50	CH	EET MID

Client Sample ID: S-2 (3') Date Collected: 07/25/23 00:00

Date Received: 07/26/23 16:45 Dil Batch Batch Initial Final Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Prep Total/NA 5035 4.95 g 5 mL 58971 08/01/23 09:18 EL EET MID Total/NA Analysis 8021B 5 mL 5 mL 59072 08/03/23 05:01 SM EET MID 1 Total/NA Total BTEX 59212 08/03/23 09:53 SM EET MID Analysis 1 Total/NA Analysis 8015 NM 1 59738 08/09/23 10:25 SM EET MID 9.93 g Total/NA Prep 8015NM Prep 10 ml 59535 08/07/23 14:29 TKC EET MID Total/NA 8015B NM 59598 08/09/23 04:24 EET MID Analysis 1 1 uL 1 uL SM Soluble **DI Leach** 5.04 g 50 mL 58660 07/27/23 14:22 KS EET MID Leach Soluble Analysis 300.0 58743 07/29/23 01:55 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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Job ID: 880-31296-1 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	ogram	Identification Number	Expiration Date
exas	NELA		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 w
the agency does not of	fer certification.			
the agency does not of Analysis Method	fer certification. Prep Method	Matrix	Analyte	
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: Sterling 20 State 1H

Job ID: 880-31296-1 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
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Eurofins Midland

Client: Carmona Resources Project/Site: Sterling 20 State 1H Job ID: 880-31296-1 SDG: Lea County, New Mexico

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Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-31296-1	S-2 (0-1')	Solid	07/25/23 00:00	07/26/23 16:45
880-31296-2	S-2 (2')	Solid	07/25/23 00:00	07/26/23 16:45
880-31296-3	S-2 (3')	Solid	07/25/23 00:00	07/26/23 16:45

Released to Imaging: 10/6/2023 12:48:46 PM



8/9/2023

Released to Imaging: 10/6/2023 12:48:46 PM

Job Number: 880-31296-1

List Source: Eurofins Midland

SDG Number: Lea County, New Mexico

Login Sample Receipt Checklist

Client: Carmona Resources

Login Number: 31296 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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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 12:44:19 PM

JOB DESCRIPTION

Sterling 20 State 1H SDG NUMBER Lea County, New Mexico

JOB NUMBER

880-31291-1

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 12:44:19 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: 880-31291-1 SDG: Lea County, New Mexico

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2

Client: Carmona Resources Project/Site: Sterling 20 State 1H

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Job ID: 880-31291-1
SDG: Lea County, New Mexico

Qualifiers

PQL

QC

RER

RPD

TEF

TEQ

TNTC

RL

PRES

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.		6
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		ľ
%R	Percent Recovery		0
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		

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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

Presumptive

Quality Control

4

5

Job ID: 880-31291-1 SDG: Lea County, New Mexico

Job ID: 880-31291-1

Client: Carmona Resources

Laboratory: Eurofins Midland

Project/Site: Sterling 20 State 1H

Narrative

Job Narrative 880-31291-1

Receipt

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

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: S-3 (0-1') (880-31291-1), S-3 (2') (880-31291-2) and S-3 (3') (880-31291-3).

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: 880-31291-1 SDG: Lea County, New Mexico

Lab Sample ID: 880-31291-1

Matrix: Solid

5

Project/Site: Sterling 20 State 1H Client Sample ID: S-3 (0-1')

Client: Carmona Resources

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

Method: SW846 8021B - Volatile C	Organic Comp	ounds (GC))						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/01/23 09:18	08/03/23 00:54	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/01/23 09:18	08/03/23 00:54	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/01/23 09:18	08/03/23 00:54	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/01/23 09:18	08/03/23 00:54	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/01/23 09:18	08/03/23 00:54	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/01/23 09:18	08/03/23 00:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130				08/01/23 09:18	08/03/23 00:54	1
1,4-Difluorobenzene (Surr)	105		70 - 130				08/01/23 09:18	08/03/23 00:54	1
Method: TAL SOP Total BTEX - To	otal BTEX Cal	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			08/03/23 09:53	1
Method: SW846 8015 NM - Diesel	Range Organ	ics (DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4		mg/Kg			08/07/23 10:15	1
Method: SW846 8015B NM - Diese	el Range Orga	nics (DRO)	(GC)						
Analyte	Result	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 19:21	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.4	U	50.4		mg/Kg		08/04/23 17:30	08/06/23 19:21	1
Oll Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		08/04/23 17:30	08/06/23 19:21	1
Surrogate	%Recovery	Qualifier	l imits				Pronarod	Analyzod	Dil Far
1-Chlorooctane	108		70 130				08/04/23 17:30	08/06/23 19:21	1
o-Ternbenyl	100		70 130				08/04/23 17:30	08/06/23 10:21	1
	110		70 - 130				00/04/23 17:30	00/00/23 13.21	,
Client Sample ID: S-3 (2')							Lab Sam	ple ID: 880-3	1291-2
Date Collected: 07/25/23 00:00								Matri	x: Solid
Method: SW846 8021B - Volatile C	Drganic Comp	ounds (GC)) Ri	мы	Unit	п	Prenared	Analyzed	Dil Fac
Renzene	<0.00198		0.00198	MDL	ma/Ka		08/01/23 09:18	08/03/23 01:14	1
	<0.00198		0.00190		mg/Kg		08/01/23 00:18	08/03/23 01:14	1
Ethylhenzene	<0.00190	5 11	0.00190		mg/Kg		08/01/23 00.10	08/03/23 01.14	1
m-Yylene & n-Yylene	<0.00190		0.00190		mg/Kg		00/01/20 00.10	09/03/23 01.14	ן • • • • • • •
	<0.00396	0	0.00390		mg/Kg		00/01/23 09:18	00/03/23 01:14	1
	<0.00198	0	0.00198		mg/Kg		00/01/23 09:18	00/03/23 01:14	1
Ayienes, IOTAI	<0.00396	U	0.00396		mg/Kg		08/01/23 09:18	08/03/23 01:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130				08/01/23 09:18	08/03/23 01:14	1

Method: TAL SOP Total BTEX - Total BTEX Calculation											
Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac			
Total BTEX	< 0.00396	U	0.00396	mg/Kg	1		08/03/23 09:53	1			

70 - 130

106

Eurofins Midland

08/03/23 01:14

08/01/23 09:18

1,4-Difluorobenzene (Surr)

1

Job ID: 880-31291-1 SDG: Lea County, New Mexico

Client Sample ID: S-3 (2') Date Collected: 07/25/23 00:00

Project/Site: Sterling 20 State 1H

Client: Carmona Resources

Date Received: 07/26/23 16:45

Method: SW846 8015 NM - Diesel	Range Organ	ics (DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5		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	<50.5	U *-	50.5		mg/Kg		08/04/23 17:30	08/06/23 19:45	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.5	U	50.5		mg/Kg		08/04/23 17:30	08/06/23 19:45	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		08/04/23 17:30	08/06/23 19:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 _ 130				08/04/23 17:30	08/06/23 19:45	1
o-Terphenyl	108		70 - 130				08/04/23 17:30	08/06/23 19:45	1

Client Sample ID: S-3 (3')

Date Collected: 07/25/23 00:00

Date Received: 07/26/23 16:45

Method: SW846 8021B - Volatile	Organic Comp	ounds (GC)						
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 01:35	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/01/23 09:18	08/03/23 01:35	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/01/23 09:18	08/03/23 01:35	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/01/23 09:18	08/03/23 01:35	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/01/23 09:18	08/03/23 01:35	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/01/23 09:18	08/03/23 01:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130				08/01/23 09:18	08/03/23 01:35	1
1,4-Difluorobenzene (Surr)	102		70 - 130				08/01/23 09:18	08/03/23 01:35	1
- Method: TAL SOP Total BTEX - T	otal BTEX Cal	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	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	sel 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 20:11	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		08/04/23 17:30	08/06/23 20:11	1
Oll Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		08/04/23 17:30	08/06/23 20:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130	08/04/23 17:30	08/06/23 20:11	1
o-Terphenyl	98		70 - 130	08/04/23 17:30	08/06/23 20:11	1

Lab Sample ID: 880-31291-2 Matrix: Solid 5 Lab Sample ID: 880-31291-3

Matrix: Solid

Client: Carmona Resources Project/Site: Sterling 20 State 1H

Job ID: 880-31291-1 SDG: Lea County, New Mexico

Prep Type: Total/NA

Prep Type: Total/NA

3

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		
880-31291-1	S-3 (0-1')	106	105		
880-31291-2	S-3 (2')	111	106		
880-31291-3	S-3 (3')	114	102		
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					

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	Client Sample ID	(70-130)	(70-130)	
80-31291-1	S-3 (0-1')	108	115	
880-31291-2	S-3 (2')	104	108	
880-31291-3	S-3 (3')	96	98	
80-31664-A-2-F MS	Matrix Spike	123	104	
80-31664-A-2-G MSD	Matrix Spike Duplicate	128	112	
CS 880-59369/2-A	Lab Control Sample	93	94	
CSD 880-59369/3-A	Lab Control Sample Dup	85	82	
VIB 880-59369/1-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: Sterling 20 State 1H

Method: 8021B - Volatile Organic Compounds (GC)

Lab	Sa	mp	le	ID:	MB	880-58971/5-A
		_				

Matrix: Solid Analysis Batch: 59072

	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
	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

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
Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene	Added 0.100 0.100 0.100 0.100 0.200 0.100	0.08576 0.1000 0.08572 0.1641 0.08388	Qualifier	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	<u> </u>	**************************************	To - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130	11 1 4 7 7	-

	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	

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Prep Type: Total/NA

Client Sample ID: Matrix Spike

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Job ID: 880-31291-1

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 58971

Prep Batch: 58971

Client: Carmona Resources

Project/Site: Sterling 20 State 1H

Job ID: 880-31291-1 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: Prop T	Matrix	Spike
Analysis Batch: 59072												Prepi	Ratch	58071
Analysis Batch. 33072	Sample	Sam	nle	Snike	MS	MS						%Rec	Daten.	30371
Analyte	Result	Qual	ifier		Result	Qua	lifier	Unit		р	%Rec	Limits		
Fthylbenzene	<0.00202	<u>u</u>		0.0996	0.08100			ma/Ka			81	70 - 130		
m-Xylene & n-Xylene	<0.00202			0.199	0 1561			ma/Ka			78	70 130		
	<0.00202	U		0.0996	0.07987			ma/Ka			80	70 130		
	0.00202	0		0.0000	0.07007			mg/rtg			00	101100		
	MS	MS												
Surrogate	%Recovery	Qua	ifier	Limits										
4-Bromofluorobenzene (Surr)	103			70 - 130										
1,4-Difluorobenzene (Surr)	100			70 - 130										
- I ah Sample ID: 880-31279-A.								0	رمنا	nt Sa	mole ID:	Matrix Sn	iko Du	olicato
Matrix: Solid								Ŭ	-iiei		pie iD.	Pron T	vne: To	tal/NA
Analysis Batch: 59072												Pron	Batch	58971
Analysis Batch. 33072	Sample	Sam	nle	Snike	MSD	MSD	,					%Rec	Daten.	RPD
Analyte	Result	Qual	ifier	Added	Result	Qua	lifier	Unit		D	%Rec	Limits	RPD	Limit
Benzene	<0.00202	U		0.0994	0.07017			ma/Ka			71	70 - 130	7	35
Toluene	<0.00202	U		0.0994	0.08738			ma/Ka			88	70 - 130	. 3	35
Fthylbenzene	<0.00202	U		0.0994	0.07772			ma/Ka			78	70 - 130	4	35
m-Xylene & n-Xylene	<0.00202			0 199	0 1481			ma/Ka			75	70 130		35
o-Xylene	<0.00400	U U		0.0994	0.07711			ma/Ka			78	70 130	4	35
	0.00202	0		0.0001	0.01111								·	
	MSD	MSD												
Surrogate	%Recovery	Qua	ifier	Limits										
4-Bromofluorobenzene (Surr)	108			70 - 130										
1,4-Difluorobenzene (Surr)	104			70 - 130										
– I ah Sample ID: MB 880-5899	8/5-4										Client Sa	mnle ID [.] I	/lethod	Blank
Matrix: Solid												Pren T	vne: To	tal/NA
Analysis Batch: 59072												Pren	Batch:	58998
		мв	мв											
Analvte	Re	sult	Qualifier	RL		MDL	Unit		D	Pi	repared	Analyz	ed	Dil Fac
Benzene	<0.00	200	U	0.00200			mg/K	а	_	08/0	1/23 10:59	08/02/23	1:28	1
Toluene	<0.00	200	U	0.00200			mg/K	- 1		08/0	1/23 10:59	08/02/23	1:28	1
Ethylbenzene	<0.00	200	U	0.00200			ma/K	2		08/0	1/23 10:59	08/02/23	1:28	1
m-Xylene & p-Xylene	<0.00	400	U	0.00400			mg/K	, J		08/0	1/23 10:59	08/02/23	1:28	1
o-Xvlene	<0.00	200	U	0.00200			ma/K	3		08/0	1/23 10:59	08/02/23	1:28	1
Xylenes, Total	<0.00	400	U	0.00400			mg/K	3		08/0	1/23 10:59	08/02/23	1:28	1
,			-				5	5						
Surrogata	% Bases	MB	MB	Limito							ranarad	Analyz		Dil Eco
4-Bromofluorobenzene (Surr)	%ReCO	85	Quaimer							08/0	1/23 10.50	08/02/22		JII Fac
1 4-Difluorobenzene (Surr)		80		70 - 130						08/0	1/23 10:59	08/02/23	1.20	1
		09		70 - 730						00/0		00/02/23	1.20	1
Method: 8015B NM - Dies	el Range Or	gar	ics (DR	0) (GC)										
_														

Lab Sample ID: MB 880-59369/1-A Matrix: Solid					Client Sa	mple ID: Metho Prep Type: 1	d Blank ſotal/NA		
Analysis Batch: 59409								Prep Batch	n: 59369
•	МВ	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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QC Sample Results

Client: Carmona Resources Project/Site: Sterling 20 State 1H Job ID: 880-31291-1 SDG: Lea County, New Mexico

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

Lab Sample ID: MB 880-59369/ Matrix: Solid Analysis Batch: 59409	/1- A									Client S	ample ID: M Prep T Prep	Method ype: To Batch:	Blank tal/NA 59369
	ME	3 MB											
Analyte	Resul	t Qualifier			MDL	Unit		<u>D</u>	P	repared	Analyz	ed	Dil Fac
Diesel Range Organics (Over	<50.0	0 0	50.0			mg/Ko	9		08/0	4/23 17:29	08/06/23 0)8:16	1
Oll Range Organics (Over C28-C36)	<50.0) U	50.0			mg/Ko	9		08/0	4/23 17:29	08/06/23 0	8:16	1
	ME	B MB											
Surrogate	%Recover	Qualifier	Limits						P	repared	Analyz	ed	Dil Fac
1-Chlorooctane	8	3	70 - 130						08/0	4/23 17:29	08/06/23 (08:16	1
o-Terphenyl	9.	4	70 - 130						08/0	4/23 17:29	08/06/23 (08:16	1
Lab Sample ID: LCS 880-59369 Matrix: Solid	9/2-A							С	lient	Sample	ID: Lab Co Prep T	ontrol S ype: To	ample tal/NA
Analysis Batch: 59409			Calka	1.00	1.00						Prep	Batch:	59369
Analyte			Spike	Rocult	0	lifior	linit		Р	%Paa	%rteC		
Gasoline Bange Organics			1000	661.8	Qual	Inter					70 130		
(GRO)-C6-C10			1000	001.0	-		mg/rtg			00	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	873.3			mg/Kg			87	70 - 130		
	LCS LC	s											
Surrogate	%Recoverv Qu	- alifier	Limits										
1-Chlorooctane	93		70 - 130										
o-Terphenyl	94		70 - 130										
Lab Sample ID: LCSD 880-593 Matrix: Solid Analysis Batch: 59409	69/3-A		Spiko		1.05	D	CI	ient	Sam	nple ID: L	ab Control Prep T Prep	l Samp ype: To Batch:	le Dup tal/NA 59369
Lab Sample ID: LCSD 880-593 Matrix: Solid Analysis Batch: 59409	69/3-A		Spike	LCSD	LCS	D	CI	ient	Sam	Nple ID: L	ab Control Prep T Prep %Rec	I Samp ype: To Batch:	le Dup tal/NA 59369 RPD
Lab Sample ID: LCSD 880-593 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics	69/3-A		Spike Added	LCSD Result	LCS Qual	D lifier	Cl Unit ma/Ka	ient	Sam	%Rec - 66	ab Contro Prep T Prep %Rec Limits 70 - 130	I Samp ype: To Batch: 	le Dup tal/NA 59369 RPD Limit 20
Lab Sample ID: LCSD 880-593 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10	69/3-A		Spike <u>Added</u> 1000	LCSD Result 660.9	LCSi Qual *-	D lifier	Cl Unit mg/Kg	ient	Sam	%Rec 66	Ab Control Prep T Prep %Rec Limits 70 - 130	I Samp ype: To Batch: 	le Dup tal/NA 59369 RPD Limit 20
Lab Sample ID: LCSD 880-593 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	69/3-A		Spike <u>Added</u> 1000 1000	LCSD Result 660.9 845.2	LCS Qual *-	D lifier	CI Unit mg/Kg mg/Kg	ient	Sam	%Rec 66 85	-ab Control Prep T Prep %Rec Limits 70 - 130 70 - 130	I Samp ype: To Batch: <u>RPD</u> 0 3	le Dup tal/NA 59369 RPD Limit 20 20
Lab Sample ID: LCSD 880-593 Matrix: Solid Analysis Batch: 59409 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	69/3-A		Spike Added 1000	LCSD Result 660.9 845.2	LCS Qual *-	D lifier	CI Unit mg/Kg mg/Kg	ient	Sam	%Rec 66 85	Ab Control Prep T Prep %Rec Limits 70 - 130 70 - 130	I Samp ype: To Batch: RPD 0 3	le Dup tal/NA 59369 RPD Limit 20 20
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	69/3-A 	SD alifier	Spike Added 1000 1000 Limits	LCSD Result 660.9 845.2	LCS Qual *-	D lifier	CI Unit mg/Kg mg/Kg	ient	Sam	%Rec 66 85	Ab Control Prep T %Rec Limits 70 - 130 70 - 130	I Sampi ype: To Batch: 	le Dup tal/NA 59369 RPD Limit 20 20
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	69/3-A 	SD alifier	Spike Added 1000 1000 Limits 70 - 130	LCSD Result 660.9 845.2	LCS Qual *-	D lifier	CI Unit mg/Kg mg/Kg	ient	Sam	%Rec 66 - 85	Ab Control Prep T Prep %Rec Limits 70 - 130 70 - 130	I Sampi ype: To Batch: 	le Dup tal/NA 59369 RPD Limit 20 20
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	69/3-A	SD	Spike Added 1000 1000 1000 1000 0 1000 1000	LCSD Result 660.9 845.2	LCSI Qual *-	D lifier	CI Unit mg/Kg mg/Kg	ient	Sarr	%Rec 66 85	Ab Control Prep T Prep %Rec Limits 70 - 130 70 - 130	I Sampi ype: To Batch: 	le Dup tal/NA 59369 RPD Limit 20 20
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	69/3-A	SD alifier	Spike Added 1000	LCSD Result 660.9 845.2	LCS Qual *-	D lifier	CI mg/Kg mg/Kg	ient	Sam	%Rec 66 85 Client	Ab Control Prep T %Rec Limits 70 - 130 70 - 130 Sample ID: Prep T	I Sampi ype: To Batch: 0 3 3 Matrix ype: To	le Dup tal/NA 59369 RPD Limit 20 20 20
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	69/3-A <i>LCSD LC</i> %Recovery Qu 85 82 -F MS	SD alifier	Spike Added 1000 1000 1000 <i>Limits</i> 70 - 130 70 - 130	LCSD Result 660.9 845.2	LCS Qual *-	D lifier	CI mg/Kg mg/Kg	ient	Sarr	%Rec 66 85 Client	-ab Control Prep T %Rec Limits 70 - 130 70 - 130 70 - 130 Sample ID: Prep T Prep T	I Sampi ype: To Batch: 0 3 Matrix ype: To Batch:	le Dup tal/NA 59369 RPD Limit 20 20 20 Spike tal/NA 59369
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	69/3-A <i>LCSD LC</i> %Recovery Qu 85 82 -F MS Sample Sa	SD alifier	Spike Added 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 5pike	LCSD Result 660.9 845.2	LCSI Qual *-	D lifier	CI mg/Kg mg/Kg	ient	Sam	%Rec 66 85	Ab Control Prep T %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130 Sample ID: Prep T Prep T Prep	I Sampi ype: To Batch:	le Dup tal/NA 59369 RPD Limit 20 20 20 Spike tal/NA 59369
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	69/3-A LCSD LC %Recovery Qu 85 82 -F MS Sample Sal Result Qu	SD alifier	Spike Added 1000 1000 1000 1000 1000 5pike Added	LCSD Result 660.9 845.2 MS Result	LCSI Qual *-	D lifier	CI mg/Kg mg/Kg	ient	D	%Rec %Rec 85	Ab Control Prep T %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130 Sample ID: Prep T Prep T %Rec Limits	I Sampi ype: To Batch: 0 3 3 Matrix ype: To Batch:	le Dup tal/NA 59369 RPD Limit 20 20 20 Spike tal/NA 59369
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	69/3-A	SD alifier	Spike Added 1000 1000 1000 1000 1000 5pike Added 993	LCSD Result 660.9 845.2 845.2 MS Result 876.9	LCSI Qual *-	D lifier	Unit mg/Kg mg/Kg	ient	D	%Rec 66 85	Ab Control Prep T %Rec Limits 70 - 130 70 - 130 70 - 130 Sample ID: Prep T Prep T %Rec Limits 70 - 130	I Sampi ype: To Batch: 0 3 3 Matrix ype: To Batch:	le Dup tal/NA 59369 RPD Limit 20 20 20 Spike tal/NA 59369
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)	69/3-A <i>LCSD LC</i> %Recovery Qu 85 82 -F MS Sample Sa <u>Result Qu</u> <50.3 U* 61.5	SD alifier	Spike Added 1000	LCSD Result 660.9 845.2 MS Result 876.9 1175	LCSI Qual *-	D lifier	Unit mg/Kg mg/Kg Unit mg/Kg mg/Kg	ient	Sam	%Rec 66 85 66 85 66 85 112	Sample ID: %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130	I Sampi ype: To Batch: 0 3 3 Matrix ype: To Batch:	le Dup tal/NA 59369 RPD Limit 20 20 20 Spike tal/NA 59369
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)	69/3-A <i>LCSD LC</i> %Recovery Qu 85 82 -F MS Sample Sal Result Qu <50.3 U* 61.5	SD alifier	Spike Added 1000 1000 1000 1000 1000 1000 1000 5pike Added 993 993	LCSD Result 660.9 845.2 MS Result 876.9 1175	LCS Qual *-	D lifier	CI mg/Kg mg/Kg <u>Unit</u> mg/Kg mg/Kg	ient	D D	%Rec 66 85 Client %Rec 86 112	-ab Control Prep T %Rec Limits 70 - 130 70 - 130 70 - 130 8 Sample ID: Prep T %Rec Limits 70 - 130 70 - 130	I Sampi ype: To Batch: 0 3 3 Matrix ype: To Batch:	le Dup tal/NA 59369 RPD Limit 20 20 20 Spike tal/NA 59369
Lab Sample ID: LCSD 880-593 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 C10-C28) Surrogate	69/3-A	SD alifier	Spike Added 1000 1000 1000 Limits 70 - 130 70 - 130 Spike Added 993 993 Limits	LCSD Result 660.9 845.2 845.2 MS Result 876.9 1175	LCSI Qual *-	D lifier	CI mg/Kg mg/Kg <u>Unit</u> mg/Kg mg/Kg	ient	Sam	%Rec 66 85 66 85 66 85 112	-ab Control Prep T %Rec Limits 70 - 130 70 - 130 70 - 130 Sample ID: Prep T %Rec Limits 70 - 130 70 - 130 70 - 130	I Sampi ype: To Batch: 0 3 3 Matrix ype: To Batch:	le Dup tal/NA 59369 RPD Limit 20 20 20 Spike tal/NA 59369
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) Surrogate 1-Chlorooctane Analyte Gasoline Range Organics (Over C10-C28) Surrogate 1-Chlorooctane	69/3-A <i>LCSD LC</i> % <i>Recovery Qu</i> 85 82 -F MS Sample Sa Result Qu <50.3 U* 61.5 <i>MS</i> <i>%Recovery Qu</i> 123	SD alifier alifier alifier	Spike Added 1000	LCSD Result 660.9 845.2 MS Result 876.9 1175	LCSI Qual *-	D lifier	CI mg/Kg mg/Kg <u>Unit</u> mg/Kg mg/Kg	ient	D	%Rec 66 85 66 85 66 85 66 112 112	Sample ID: Prep T %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130	I Sampi ype: To Batch: 0 3 Matrix ype: To Batch:	le Dup tal/NA 59369 RPD 20 20 Spike tal/NA 59369

QC Sample Results

Client: Carmona Resources Project/Site: Sterling 20 State 1H

Job ID: 880-31291-1 SDG: Lea County, New Mexico

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

– Lab Sample ID: 880-31664-4	A-2-G MSD					CI	ient Sa	ample IF): Matrix Sr	nike Dur	licate	
Matrix: Solid									Prep 1	vpe: To	tal/NA	
Analysis Batch: 59409									Prep	Batch:	59369	
-	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	5
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	6
Diesel Range Organics (Over	61.5		992	1254		mg/Kg		120	70 - 130	6	20	7
C10-C28)												-
	MSD	MSD										8
Surrogate	%Recovery	Qualifier	Limits									
1-Chlorooctane	128		70 - 130									g
o-Terphenyl	112		70 - 130									
												13

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QC Association Summary

Prep Type

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Prep Type

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Client: Carmona Resources Project/Site: Sterling 20 State 1H

GC VOA

880-31291-1

880-31291-2

880-31291-3

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 Lab Sample ID

MB 880-58998/5-A

Lab Sample ID

880-31291-1

880-31291-2

880-31291-3

MB 880-58971/5-A

MB 880-58998/5-A

LCS 880-58971/1-A

Analysis Batch: 59072

Prep Batch: 58971 Lab Sample ID

Page 199 of 224

Prep Batch

Prep Batch

58971

58971

58971

58971

58998

58971

58971

58971

58971

Job ID: 880-31291-1 SDG: Lea County, New Mexico

Method

5035

5035

5035

5035

5035

5035

5035

5035

Method

5035

8021B

8021B

8021B

8021B

Method Prep Batch Prep Type Matrix Total/NA 8021B Solid Total/NA Solid 8021B Total/NA Solid 8021B Total/NA Solid 8021B Total/NA Solid 8021B

Matrix

Solid

Solid

Solid

Solid

Solid

Solid

Solid

Solid

Matrix

Solid

Solid

Solid

Solid

Solid

LCSD 880-58971/2-A 880-31279-A-1-A MS 880-31279-A-1-B MSD

Analysis Batch: 59207

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31291-1	S-3 (0-1')	Total/NA	Solid	Total BTEX	
880-31291-2	S-3 (2')	Total/NA	Solid	Total BTEX	
880-31291-3	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
880-31291-1	S-3 (0-1')	Total/NA	Solid	8015NM Prep	
880-31291-2	S-3 (2')	Total/NA	Solid	8015NM Prep	
880-31291-3	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

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
880-31291-1	S-3 (0-1')	Total/NA	Solid	8015B NM	59369
880-31291-2	S-3 (2')	Total/NA	Solid	8015B NM	59369
880-31291-3	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

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Client Sample ID

S-3 (0-1')

S-3 (2')

S-3 (3')

Method Blank

Matrix Spike

Lab Control Sample

Lab Control Sample Dup

Matrix Spike Duplicate

Client Sample ID

Client Sample ID

S-3 (0-1')

S-3 (2')

S-3 (3')

Method Blank

Method Blank

Matrix Spike

Lab Control Sample

Lab Control Sample Dup

Matrix Spike Duplicate

Method Blank

QC Association Summary

Client: Carmona Resources Project/Site: Sterling 20 State 1H

GC Semi VOA (Continued) Analysis Batch: 59409 (Continued)

Client Sample ID

Matrix Spike

Lab Control Sample Dup

Matrix Spike Duplicate

Job ID: 880-31291-1 SDG: Lea County, New Mexico

2 3 4 5 6 7

7 8 9 10

11 12

Eurofins Midland

MatrixMethodPrep BatchSolid8015B NM59369Solid8015B NM59369Solid8015B NM59369

880-31664-A-2-G MSD Analysis Batch: 59488

Lab Sample ID

LCSD 880-59369/3-A

880-31664-A-2-F MS

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31291-2	S-3 (2')	Total/NA	Solid	8015 NM	
880-31291-3	S-3 (3')	Total/NA	Solid	8015 NM	

Prep Type

Total/NA

Total/NA

Total/NA

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			5.01 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 00:54	SM	EET MID
Total/NA	Analysis	Total BTEX		1			59207	08/03/23 09:53	SM	EET MID
Total/NA	Analysis	8015 NM		1			59488	08/07/23 10:15	SM	EET MID
Total/NA	Prep	8015NM Prep			9.93 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 19:21	SM	EET MID

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		
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	08/03/23 01:14	SM	EET MID
Total/NA	Analysis	Total BTEX		1			59207	08/03/23 09:53	SM	EET MID
Total/NA	Analysis	8015 NM		1			59488	08/07/23 10:15	SM	EET MID
Total/NA	Prep	8015NM Prep			9.91 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 19:45	SM	EET MID

Client Sample ID: S-3 (3')

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

Dil Batch Initial Final Batch Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab 5035 Total/NA Prep 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 01:35 SM EET MID Total/NA Analysis Total BTEX 59207 08/03/23 09:53 SM EET MID 1 Total/NA Analysis 8015 NM 1 59488 08/07/23 10:15 SM EET MID Total/NA Prep 8015NM Prep 10.09 g 59369 08/04/23 17:30 TKC EET MID 10 mL Total/NA Analysis 8015B NM 1 1 uL 1 uL 59409 08/06/23 20:11 SM EET MID

Laboratory References:

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

Job ID: 880-31291-1 SDG: Lea County, New Mexico

Lab Sample ID: 880-31291-1 Matrix: Solid

Lab Sample ID: 880-31291-2

Matrix: Solid

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Matrix: Solid

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Client: Carmona Resou	irces			Job ID: 880-31291-1
Project/Site: Sterling 20) State 1H			SDG: Lea County, New Mexico
Laboratory: Eurofi	ns Midland			
Unless otherwise noted, all a	nalytes for this laboratory	were covered under each acc	reditation/certification below.	
Authority		Program	Identification Number	Expiration Date
Texas	Texas		T104704400-23-26	06-30-24
The following analytes the agency does not of	are included in this report fer certification.	, but the laboratory is not certif	ied by the governing authority. This list ma	ay include analytes for which
Analysis Method	Prep Method	Matrix	Analyte	
8015 NM		Solid	Total TPH	
Total BTEX		Solid	Total BTEX	

Eurofins Midland

Released to Imaging: 10/6/2023 12:48:46 PM

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Method Summary

Client: Carmona Resources Project/Site: Sterling 20 State 1H

Job ID: 880-31291-1 SDG: Lea County, New Mexico

Method	Method Description	Protocol	Laboratory	
8021B	Volatile Organic Compounds (GC)	SW846	EET MID	- A
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID	
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID	5
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:			
SW846 = TAL SOP	"Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Ec = TestAmerica Laboratories, Standard Operating Procedure	ition, November 1986 And Its Updates.		8
Laboratory R	eferences:			9
EET MID :	= Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440			
				4.4
				13
				14

Protocol References:

Laboratory References:

Eurofins Midland

Client: Carmona Resources Project/Site: Sterling 20 State 1H Job ID: 880-31291-1 SDG: Lea County, New Mexico

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Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-31291-1	S-3 (0-1')	Solid	07/25/23 00:00	07/26/23 16:45
880-31291-2	S-3 (2')	Solid	07/25/23 00:00	07/26/23 16:45
880-31291-3	S-3 (3')	Solid	07/25/23 00:00	07/26/23 16:45

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Phone.

0d

Received by OCD: 10/5/2023 9:17:38 AM

8/7/2021

5

Job Number: 880-31291-1

List Source: Eurofins Midland

SDG Number: Lea County, New Mexico

Login Sample Receipt Checklist

Client: Carmona Resources

Login Number: 31291 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: 10/5/2023 9:17:38 AM



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Clint Merritt Carmona Resources 310 W Wall St Ste 500 Midland, Texas 79701 Generated 9/19/2023 8:20:49 AM Revision 1

JOB DESCRIPTION

Sterling 20 St 1H SDG NUMBER Eddy County New Mexico

JOB NUMBER

890-5263-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

See page two for job notes and contact information.

Eurofins Carlsbad

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 9/19/2023 8:20:49 AM Revision 1

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

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

Laboratory Job ID: 890-5263-1 SDG: Eddy County New Mexico

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Definitions/Glossary

Client: Carmona Resources Project/Site: Sterling 20 St 1H

Job ID: 890-5263-1 SDG: Eddy County New Mexico

Qualifiers

Qualifiers		3
GC Semi VO	Α	
Qualifier	Qualifier Description	
U	Indicates the analyte was analyzed for but not detected.	
Glossary		5
Abbreviation	These commonly used abbreviations may or may not be present in this report.	6
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis	0
%R	Percent Recovery	
CFL	Contains Free Liquid	
CFU	Colony Forming Unit	
CNF	Contains No Free Liquid	δ
DER	Duplicate Error Ratio (normalized absolute difference)	
Dil Fac	Dilution Factor	9
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 Carlsbad

Job ID: 890-5263-1

Client: Carmona Resources

Project/Site: Sterling 20 St 1H

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-5263-1

REVISION

The report being provided is a revision of the original report sent on 9/18/2023. The report (revision 1) is being revised due to Per client email, requesting sample ID correction.

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

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

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

Receipt

The sample was received on 9/13/2023 11:11 AM. 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 2.4°C

Receipt Exceptions

The following sample was received and analyzed from an unpreserved bulk soil jar: S-4 (0-1') (890-5263-1).

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (880-33291-A-17-C). 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.

Job ID: 890-5263-1 SDG: Eddy County New Mexico

Client Sample ID: S-4 (0-1') Date Collected: 09/13/23 00:00 Date Received: 09/13/23 11:11

Lab Sample ID: 890-5263-1 Matrix: Solid

	iesel Range	• Organics	(DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		09/15/23 12:04	09/15/23 23:25	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		09/15/23 12:04	09/15/23 23:25	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		09/15/23 12:04	09/15/23 23:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	118		70 - 130				09/15/23 12:04	09/15/23 23:25	1
o-Terphenyl	123		70 - 130				09/15/23 12:04	09/15/23 23:25	1

5

Eurofins Carlsbad

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Surrogate Summary

Client: Carmona Resources Project/Site: Sterling 20 St 1H

Job ID: 890-5263-1 SDG: Eddy County New Mexico

Prep Type: Total/NA

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

_			Pe	ercent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1		
Lab Sample ID	Client Sample ID	(70-130)	(70-130)		5
880-33291-A-17-D MS	Matrix Spike	112	110		
880-33291-A-17-E MSD	Matrix Spike Duplicate	122	116		6
890-5263-1	S-4 (0-1')	118	123		
LCS 880-62583/2-A	Lab Control Sample	96	106		
LCSD 880-62583/3-A	Lab Control Sample Dup	87	97		
MB 880-62583/1-A	Method Blank	121	128		8
Surrogate Legend					
1CO = 1-Chlorooctane					9
OTPH = o-Terphenyl _					10
					13

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QC Sample Results

Client: Carmona Resources Project/Site: Sterling 20 St 1H Job ID: 890-5263-1 SDG: Eddy County New Mexico

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

Metrixy Cellel										one	ni Samp			Blank
Analysis Batch: 62511												Prep Typ Prep B	atch:	62583
		MB	MB											
Analyte	Re	sult	Qualifier	RL	I	MDL	Unit		D	Pr	repared	Analyz	ed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<	50.0	U	50.0			mg/K	9		09/1	5/23 12:04	09/15/23	17:38	1
Diesel Range Organics (Over	<	50.0	U	50.0			mg/K	9		09/1	5/23 12:04	09/15/23	17:38	1
Oll Range Organics (Over C28-C36)	<	50.0	U	50.0			mg/K	9		09/1	5/23 12:04	09/15/23	17:38	1
		ΜВ	MB											
Surrogate	%Recov	verv	Qualifier	Limits						Pi	repared	Analyz	ed	Dil Fac
1-Chlorooctane		121		70 - 130					-	09/1	5/23 12:04	09/15/23	17:38	1
o-Terphenyl		128		70 - 130						09/1	5/23 12:04	09/15/23	17:38	1
Lab Sample ID: LCS 880-625	583/2-A							Clie	nt	San	nple ID:	Lab Con	trol S	ample
Matrix: Solid											•	Prep Ty	pe: To	tal/NA
Analysis Batch: 62511												Prep B	atch:	62583
•				Spike	LCS	LCS						%Rec		
Analyte				Added	Result	Qual	lifier	Unit		D	%Rec	Limits		
Gasoline Range Organics				1000	1109			mg/Kg			111	70 - 130		
Diesel Range Organics (Over				1000	1003			mg/Kg			100	70 - 130		
0 (0 0 0 0)														
C10-C28)	1.00													
C10-C28)	LCS	LCS	lifiar	Limite										
C10-C28) Surrogate	LCS %Recovery	LCS Qua	lifier	Limits										
C10-C28) Surrogate 1-Chlorooctane o-Terphenyl	LCS %Recovery 96 106	LCS Qua	lifier	Limits 70 - 130 70 - 130										
C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-62	LCS %Recovery 96 106 2583/3-A	LCS Qua	lifier	Limits 70 - 130 70 - 130			C	lient Sa	am	ple	ID: Lab	Control S	Samp	le Dup
C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-62 Matrix: Solid	LCS %Recovery 96 106 2583/3-A	LCS Qua) lifier	Limits 70 - 130 70 - 130			С	lient Sa	am	ple	ID: Lab	Control \$ Prep Tyj	Samp pe: Tc	le Dup tal/NA
C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-62 Matrix: Solid Analysis Batch: 62511	LCS %Recovery 96 106 2583/3-A	LCS Qua) lifier	Limits 70 - 130 70 - 130			С	lient Sa	am	ple	ID: Lab (Control S Prep Tyj Prep B	Samp pe: To satch:	le Dup tal/NA 62583
C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-62 Matrix: Solid Analysis Batch: 62511	LCS %Recovery 96 106 2583/3-A	LCS Qua	; lifier	<i>Limits</i> 70 - 130 70 - 130 Spike	LCSD	LCS	C	lient Sa	am	ple	ID: Lab	Control S Prep Tyj Prep B %Rec	Samp pe: To atch:	le Dup Ital/NA 62583 RPD
C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-62 Matrix: Solid Analysis Batch: 62511 Analyte	LCS %Recovery 96 106 2583/3-A	LCS Qua	; lifier	<i>Limits</i> 70 - 130 70 - 130 Spike Added	LCSD Result	LCSI Qual	C D lifier	lient Sa	am	ple D	ID: Lab %Rec	Control S Prep Tyj Prep B %Rec Limits	Samp pe: Tc atch: RPD	le Dup tal/NA 62583 RPD Limit
C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-62 Matrix: Solid Analysis Batch: 62511 Analyte Gasoline Range Organics (GRO)-C6-C10	LCS %Recovery 96 106 2583/3-A	LCS Qua	; lifier	Limits 70 - 130 70 - 130 Spike Added 1000	LCSD Result 990.9	LCS Qual	C D lifier	Unit mg/Kg	am	ple	ID: Lab <u>%Rec</u> 99	Control S Prep Tyj Prep B %Rec Limits 70 - 130	Samp pe: To Satch: RPD 11	le Dup tal/NA 62583 RPD Limit 20
C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-62 Matrix: Solid Analysis Batch: 62511 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	LCS %Recovery 96 106 2583/3-A	LCS Qua	; lifier	Limits 70 - 130 70 - 130 Spike Added 1000	LCSD Result 990.9 847.5	LCSI Qual	C D lifier	Unit mg/Kg mg/Kg	am	ple D	ID: Lab %Rec 99 85	Control S Prep Tyj Prep B %Rec Limits 70 - 130 70 - 130	Samp pe: Tc atch: RPD 11	le Dup tal/NA 62583 RPD Limit 20 20
C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-62 Matrix: Solid Analysis Batch: 62511 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	LCS %Recovery 96 106 2583/3-A	LCS Qua	S Iifier	Limits 70 - 130 70 - 130 Spike Added 1000	LCSD Result 990.9 847.5	LCSI Qual	C D lifier	Unit mg/Kg mg/Kg	am	ple D	ID: Lab %Rec 99 85	Control S Prep Ty Prep B %Rec Limits 70 - 130 70 - 130	Samp pe: Tc atch: RPD 11 17	le Dup tal/NA 62583 RPD Limit 20 20
C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-62 Matrix: Solid Analysis Batch: 62511 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate	LCS %Recovery 96 106 2583/3-A LCSD %Recovery	LCS Qua	S Ilifier	Limits 70 - 130 70 - 130 Spike Added 1000 1000	LCSD Result 990.9 847.5	LCSI Qual	C D lifier	Unit mg/Kg mg/Kg	am)	ple D	ID: Lab %Rec 99 85	Control S Prep Ty Prep B %Rec Limits 70 - 130 70 - 130	Samp pe: To atch: RPD 11 17	e Dup tal/NA 62583 RPD Limit 20 20
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QC Sample Results

Client: Carmona Resources Project/Site: Sterling 20 St 1H

Analysis Batch: 62511

Matrix: Solid

Surrogate

o-Terphenyl

Job ID: 890-5263-1 SDG: Eddy County New Mexico

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

MS MS %Recovery Qualifier

Client Sample ID: Matrix Spike Prep Type: Total/NA Prep Batch: 62583

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Limits			

1-Chlorooctane	112	70 - 130
o-Terphenyl	110	70 - 130

Lab Sample ID: 880-33291-A-17-E MSD **Matrix: Solid**

Lab Sample ID: 880-33291-A-17-D MS

Analysis Batch: 62511									Prep E	atch:	62583
	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	<50.4	U	993	1252		mg/Kg		122	70 - 130	10	20
Diesel Range Organics (Over C10-C28)	98.9		993	919.4		mg/Kg		83	70 - 130	7	20
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	122		70 - 130								
o-Terphenyl	116		70 - 130								

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QC Association Summary

Client: Carmona Resources Project/Site: Sterling 20 St 1H

GC Semi VOA

Analysis Batch: 62511

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5263-1	<u>S-4 (0-1')</u>	Total/NA	Solid	8015B NM	62583
MB 880-62583/1-A	Method Blank	Total/NA	Solid	8015B NM	62583
LCS 880-62583/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	62583
LCSD 880-62583/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	62583
880-33291-A-17-D MS	Matrix Spike	Total/NA	Solid	8015B NM	62583
880-33291-A-17-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	62583

Prep Batch: 62583

Lab Sample ID 890-5263-1	- Client Sample ID S-4 (0-1')	Total/NA	Matrix Solid	Method Prep Batch 8015NM Prep	
MB 880-62583/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-62583/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-62583/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-33291-A-17-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-33291-A-17-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

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Job ID: 890-5263-1

SDG: Eddy County New Mexico
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Lab Chronicle

Client: Carmona Resources Project/Site: Sterling 20 St 1H

Job ID: 890-5263-1 SDG: Eddy County New Mexico

Lab Sample ID: 890-5263-1 Matrix: Solid

Client Sample ID: S-4 (0-1') Date Collected: 09/13/23 00:00 Date Received: 09/13/23 11:11

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	62583	09/15/23 12:04	ТКС	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62511	09/15/23 23:25	SM	EET MID
l ah anatana Daf										

Laboratory References:

Eurofins Carlsbad

Accreditation/Certification Summary

Client: Carmona Resources Project/Site: Sterling 20 St 1H Job ID: 890-5263-1 SDG: Eddy County New Mexico

Laboratory: Eurofins Midland

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

Authority	Р	rogram	Identification Number	Expiration Date
Texas	N	ELAP	T104704400-23-26	06-30-24
The following analyte the agency does not o	s are included in this rep offer certification.	ort, but the laboratory is r	not certified by the governing authority.	This list may include analytes for which
Analysis Method	Prep Method	Matrix	Analyte	
8015B NM	8015NM Prep	Solid	Diesel Range Organics (Over C10-C28) Gasoline Range Organics (GRO)-C6-C10	
	•			
8015B NM	8015NM Prep	Solid	Gasoline Range Organics (G	GRO)-C6-C10

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 890-5263-1

 New Mexico

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Method Summary

Client: Carmona Resources Project/Site: Sterling 20 St 1H

Job ID: 890-5263-1 SDG: Eddy County New Mexico

				-
Method	Method Description	Protocol	Laboratory	
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID	-
8015NM Prep	Microextraction	SW846	EET MID	

Protocol References:

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

Laboratory References:

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

Eurofins Carlsbad

Sample Summary

Client: Carmona Resources Project/Site: Sterling 20 St 1H Job ID: 890-5263-1 SDG: Eddy County New Mexico



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Motice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco. Its affiliates and subcontractors. It assigns standard terms and conditions of service: Eurofins Xenco will be lable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. Aminimum charge of \$85.00 will be applied to each project and a charge of \$55 for each sample submitted to Eurofins Xenco. but not analyzed. These terms will be enforced unless previously negotiated. Relinquished by: (Signature) Received by: (Signature) Received by: (Signature) Received by: (Signature) 1 Cut. Marcet Cut. Marcet Cut. Marcet Received by: (Signature) Date/Time 3 6 6 6 6 6 6 6 6	Circle Method(s) and Metal(s) to be	analyzed TCLP/Si	PLP 6010 : 8RCRA	Sb As Ba Be Cd C	r co cu Pb Mn Mo Ni S	e Ag TI U Hg: 1631 /	245.1 / 7470 / 7471	
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9/19/2023 (Rev. 1)

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Login Sample Receipt Checklist

Client: Carmona Resources

Login Number: 5263 List Number: 1 Creator: Lopez, Abraham

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
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.	N/A	Refer to Job Narrative for details.
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	

ing <6mm (1/4").

Job Number: 890-5263-1

List Source: Eurofins Carlsbad

SDG Number: Eddy County New Mexico

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Login Sample Receipt Checklist

Client: Carmona Resources

Login Number: 5263 List Number: 2 Creator: Teel, Brianna

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
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	True	

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

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	272745
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	None	10/6/2023

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