

September 13, 2019

#5E27499-BG4A

NMOCD District 2 Mr. Robert Hamlet 811 S. First St. Artesia, New Mexico 88210

### SUBJECT: REMEDIATION CLOSURE REPORT FOR THE STERLING 20 STATE 1H RELEASE (2RP-5091), CARLSBAD, NEW MEXICO

Dear Mr. Hamlet:

On behalf of Marathon Oil Permian LLC (Marathon), Souder, Miller & Associates (SMA) has prepared this Remediation Closure 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	Location	32.29810545° -104.20840165°			
Incident Number	2RP-5091					
Estimated Date of Release	November 11, 2018	Date Reported to NMOCD	November 11, 2018			
Land Owner	State	Reported To	NMOCD District 2, NMLSO			
Source of Release	Gun barrel tank					
Released Volume	80 bbls	Released Material	Crude Oil			
Recovered Volume	72 bbls	Net Release	8 bbls			
NMOCD Closure Criteria	<50 feet to groundwater					

Table 1 summarizes release information and Closure Criteria.

## 1.0 Background

On November 11, 2018, an enardo valve on the gun barrel tank failed which caused a release of approximately 80 bbls of crude oil. Approximately 72 bbls remained within the lined tank containment and 8 bbls were released outside of the containment area affecting the immediate area around the containment. Approximately 72 bbls were recovered from the lined tank containment. The liner integrity was inspected and found to be compromised where plastic welding failed along the liner seam.

## 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 1/4/2019). The nearest significant watercourse is an irrigation canal located approximately 1,500 feet to the east of Sterling 20 State 1H.

The site is located within a 100-year floodplain; therefore, the applicable NMOCD Closure Criteria for this site is for a groundwater depth of less than 50 feet bgs.

Per the approved Remediation Plan (February 12, 2019), NMOCD approved a deferral per 19.15.29.12.B.(2), which allows the area between the north and east sides of the battery and adjacent pipelines and the area beneath the battery to remain in place.

Table 2 demonstrates the Closure Criteria applicable to this location. Pertinent well data is attached in Appendix B.

# 3.0 Release Characterization Activities and Findings

On December 12, 2018, SMA personnel arrived on site in response to the release associated with the 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 and for hydrocarbon impacts using a calibrated MiniRAE 2000 photoionization detector (PID).

A total of five (5) sample locations (L1-L5) were investigated using a hand-auger, to depths up to six (6) inches bgs. A total of five (5) 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 sampling results.

On January 22, 2019, SMA personnel returned to the location with a drill rig to further delineate the location. One borehole location (BH1) was drilled to nine feet bgs. A total of four (4) samples were collected for laboratory analysis using the methods listed above.

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).

In the workplan dated February 12, 2019, SMA proposed excavating and removing contaminated soil in the impacted area at L1 and L2 to approximately 9 feet bgs, to excavate by hand the areas around L3, L4, and L5 to the extent safe and practicable, and to defer impacted areas beneath the battery. On February 15, 2019, NMOCD approved the workplan.

## 4.0 Soil Remediation Summary

In accordance with the approved workplan, from dates February 28, 2019 to March 4, 2019, SMA returned to the site to guide the excavation of contaminated soil. After approval from area utilities via 811, SMA guided the excavation activities by collecting soil samples for field screening. Samples were

#### Sterling 20 State 1H Remediation Closure Report (2RP-5091) September 13, 2019

screened for hydrocarbon impacts using a calibrated MiniRAE 3000 photoionization detector (PID) equipped with a 10.6 eV lamp. The walls and base were excavated until field screening results indicated that the NMOCD Closure Criteria would be met. NMOCD was notified on February 26, 2019 that closure samples were expected to be collected in two (2) business days. NMOCD was notified again on February 28, 2019 that closure sampling would continue.

SMA conducted confirmation sampling of the walls and base of the excavation. The area around sample locations CS1 and CS1b were excavated to a depth of 17 feet bgs, sample location CS2 was excavated to a depth of 5 feet bgs, and sample locations CS3 and CS4 were excavated to a depth of 3 feet bgs The confirmation samples were collected from within the excavation in accordance with the sampling protocol included in Appendix C. Confirmation samples were comprised of five-point composites of the base (CS1-CS4) and walls (SW1-SW4).

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

All samples meet the Closure Criteria with the exception of CS4 and SW4, both of which were excavated to the extent possible, and were pre-approved by NMOCD to defer. 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 575-689-8801 or Shawna Chubbuck at 505-325-7535.

Submitted by: SOUDER, MILLER & ASSOCIATES Reviewed by:

Heather Patterson Project Scientist

hauna (hubbuck

Shawna Chubbuck Senior Scientist

### **ATTACHMENTS:**

### Figures:

Figure 1: Vicinity and Well Head Protection Map Figure 2: Surface Water Radius Map Figure 3: Site and Sample Location Map

### Tables:

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

### Appendices:

Appendix A: Form C141 Appendix B: NMOSE Wells Report Appendix C: Photo Documentation Appendix D: Laboratory Analytical Reports

# FIGURES







# TABLES

## Table 2: NMOCD Closure Criteria Justification

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, USGS Map
Hortizontal Distance to Nearest Significant Watercourse (ft)	1500	Figure 1, USGS Map

Closure Criteria (19.15.2	29.12.B(4) and	d Table 1 NMAC)				
		Clos	ure Criteria	ı (units in n	ng/kg)	
Depth to Groundwater		Chloride *numerical limit or background, whichever is greater	ТРН	GRO + DRO	BTEX	Benzene
< 50' BGS	Х	600	100		50	10
51' to 100'		10000	2500	1000	50	10
>100'		20000	2500	1000	50	10
Surface Water	yes or no		if yes	s, then		
<300' from continuously flowing watercourse or other significant						
watercourse?	No	_				
<200' from lakebed, sinkhole or playa lake?	No					
Water Well or Water Source		-				
<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?	No					
within incorporated municipal boundaries or within a defined municipal fresh water well field?	No					
<100' from wetland?	No					
within area overlying a subsurface mine	No					
within an unstable area?	No					
within a 100-year floodplain?	yes					
	<u>SMA</u>					

## Table 3: Summary of Sample Results

Initial Samples

Sample	le Sample Depth	pth Proposed	BTEX	Benzene	GRO	DRO	MRO	Total TPH	CI-	
ID	Date	(feet bgs)	Action	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
	NMOCD C	losure Criteria		50	10				100	600
	12/12/2018	0.5	excavate	196	2	2,700	18,000	8,200	28,900	<30
	1/22/2019	4	excavate	<0.23	<0.024	8.1	780	320	1108.1	
L1/BH1	1/22/2019	6	excavate	<0.23	<0.024	<4.8	540	240	780	
	1/22/2019	8	excavate	<0.23	<0.025	<4.9	62	<48	62	
	1/22/2019	9	excavate	<0.23	<0.025	<4.9	150	79	229	<30
L2	12/12/2018	0.5	excavate	348	4	3,400	15,000	5,800	24,200	<30
L3	12/12/2018	0.5	excavate	150.8	3.1	2,400	18,000	6,600	27,000	<30
L4	12/12/2018	0.5	excavate	145.8	2.2	2,500	17,000	6,300	25,800	<30
L5	12/12/2018	0.5	excavate	155.7	1.6	2,200	14,000	4,300	20,500	<30

"--" = Not Analyzed

### **Closure Samples**

Sample	Sample	Depth	Action	BTEX	Benzene	GRO	DRO	MRO	Total TPH	CI-
ID	Date	(leet bgs)	Такеп	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
	NMOCD C	losure Criteria		50	10				100	600
	3/4/2019	12	excavated	4.34	<0.023	100	1,400	480	1,980	<60
CS1	4/3/2019	16.5	excavated	<0.23	<0.025	<20.0	392	171	563	<20
	4/10/2019	17	in-situ	<0.23	<0.025	<4.9	<9.9	<49	<64	73
0016	4/3/2019	16	excavated	<0.23	<0.025	<20.0	33.5	<50.0	33.5	<20
CSID	4/10/2019	17	in-situ	<0.23	<0.025	<5.0	<9.7	<49	<64	<60
C 6 2	3/4/2019	1	excavated	6.16	<0.024	110	2,200	770	3080	<60
0.52	4/5/2019	5	in-situ	<0.23	<0.023	<4.7	<9.8	<49	<64	74
C 5 3	3/4/2019	1	excavated	52.58	0.18	900	17000	6300	23300	<60
033	4/9/2019	3	in-situ	<0.23	<0.024	<4.7	35	60	95	<60
094	3/4/2019	0.5	excavated	5.02	<0.024	92	12,000	4,900	16,992	<60
0.04	4/9/2019	3	defer	<0.23	<0.025	<5.0	240	180	420	<60
SW1	2/28/2019	0-17	in-situ	<0.23	<0.024	<4.9	<10	<50	<65	<60
SW2	2/28/2019	0-17	in-situ	<0.23	<0.023	<4.7	<9.8	<49	<64	<60
SW3	2/28/2019	0-17	in-situ	<0.23	<0.024	<4.7	<9.6	<48	<63	<60
S\//4	2/28/2019	0-12	excavated	17.2	<0.025	630	4800	1600	7030	<60
3774	4/3/2019	0-16	defer	<0.23	<0.025	<20.0	76.8	63.5	140.3	<20



# APPENDIX A FORM C141

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

)

Incident ID	
District RP	
Facility ID	
Application ID	

# **Release Notification**

## **Responsible Party**

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

## **Location of Release Source**

Latitude	

(NAD 83 in decimal degrees to 5 decimal places)

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

Unit Letter	Section	Township	Range	County

Surface Owner: State Federal Tribal Private (Name: \_

## Nature and Volume of Release

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

Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of total dissolved solids (TDS) 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		

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## State of New Mexico Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

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

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:	Title:
Signature:	Date:
email:	Telephone:
OCD Only Received by: Anala Batamante	Date:

State of New Mexico Oil Conservation Division

Incident ID	nAB1833955064
District RP	2RP-5091
Facility ID	
Application ID	pAB1833954671

# 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?	🗌 Yes 🛛 No
Are the lateral extents of the release within a 100-year floodplain?	🛛 Yes 🗌 No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	🗌 Yes 🖂 No

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
- $\square$  Depth to water determination
- Determination of water sources and significant watercourses within <sup>1</sup>/<sub>2</sub>-mile of the lateral extents of the release
- $\boxtimes$  Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

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

Form $C_{141}$	State of New Mexico		1				
101111 C-141		Incident ID	nAB1833955064				
Page 4	Oil Conservation Division	District RP	2RP-5091				
		Facility ID					
		Application ID	pAB1833954671				
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 endan 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 had 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 law and/or regulations.							
Printed Name:Callie Karrigan Title:HES Professional							
Signature:         Callie Karrigan         Date:         2/12/2019							
email:cnkarrigan@marathonoil.com Telephone:575-297-0956							
OCD Only Received by: Rober	t Hamlet Da	te:					

Form C-141 Page 5 State of New Mexico Oil Conservation Division

Incident ID	nAB1833955064
District RP	2RP-5091
Facility ID	
Application ID	pAB1833954671

# **Remediation Plan**

Remediation Plan Checklist: Each of the following items must be included in the plan.

Detailed description of proposed remediation technique

Scaled sitemap with GPS coordinates showing delineation points

 $\boxtimes$  Estimated volume of material to be remediated

Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC

Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

<b>Deferral Requests Only:</b> Each of the following items must be confirmed as part of any request for deferral of remediation.							
Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.							
Extents of contamination must be fully delineated.							
Contamination does not cause an imminent risk to human health, the environment, or groundwater.							
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:         Callie Karrigan         Date:         2/12/2019							
email: cnkarrigan@marathonoil.com Telephone:575-297-0956							
OCD Only							
Received by: <u>Robert Hamlet</u> Date: <u>2/15/2019</u>							
X Approved       Approved with Attached Conditions of Approval       Denied       Deferral Approved         Signature:       Approved       Date: 2/15/2019       2/15/2019							

# APPENDIX B NMOSE WELLS REPORT



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

(R=POD has (A CLW##### in the POD suffix indicates the been replaced, POD has been replaced O=orphaned, & no longer serves a C=the file is (quarters are 1=NW 2=NE 3=SW 4=SE) water right file.) closed) (quarters are smallest to largest) (NAD83 UTM in meters) (In feet) POD QQQ Sub-**Depth Depth Water POD Number** Code basin County 64 16 4 Sec Tws Rng Х Υ Distance Well Water Column C 01261 CUB ED 21 23S 27E 575780 3572889\* 1521 250 С ED 180 100 80 C 01195 2 19 23S 27E 572958 3573260\* 1646 C 01781 С ED 2 19 23S 27E 573161 3572659\* 1752 4 C 01781 POD2 С ED 2 4 19 23S 27E 573161 3572659\* 1752 210 С C 01781 POD3 19 23S ED 2 4 27E 573161 3572659\* 1752 210 С C 01618 ED 4 4 07 23S 27E 573252 3575384\* 2070 250 4 С 29 C 02377 ED 2 23S 27E 574575 3571666\* 2088 232 170 62 С ED 3 4 07 23S 27E 573052 2199 140 100 40 C 03005 4 3575384\* C 04044 POD1 CUB ED 3 2 3 09 23S 27E 575504 3575907 2363 290 150 140 С C 02453 ED 4 4 2 29 23S 27E 574876 3571372\* 2407 210 175 35 С C 03301 ED 3 07 23S 27E 572597 3575268 2454 375 3 4 С C 01632 ED 3 2 4 07 23S 27E 573050 3575789\* 2515 162 100 62 C 01632 CLW197648 С 23S 0 27E 100 ED 3 2 4 07 573050 3575789\* 2515 162 62 С 100 C 01632 POD2 ED 2 07 23S 27E 573050 3575789\* 2515 173 73 3 4 С 13 21S C 02112 ED 24E 573831 3571337 2515 182 119 63 1 3 4 C 00195 CUB ED 09 23S 27E 576069 3575827\* 2582 128 4 1 4 83 45 С C 01071 ED 1 08 23S 27E 573751 3576499\* 2852 279 95 184 С C 02191 ED 1 08 23S 27E 573751 3576499\* 2852 252 75 177 C 00187 С ED 1 15 23S 27E 577380 3574509 🧲 2949 210 125 85 1 4 С C 00623 ED 2 1 15 23S 27E 577189 3575142\* 🧲 3000 200 С C 03736 POD1 2 2 4 3574793 🧲 ED 13 23S 26E 571677 3035 CUB C 02300 ED 3 07 23S 27E 572160 3575676\* 3050 402 С C 03892 POD1 ED 1 2 1 08 23S 573846 3576764 🧧 3086 148 54 94 27E C 02510 С ED 2 1 08 23S 27F 573848 3576806\* 3126 350 350 0 1 CUB C 00508 CLW225089 0 ED 4 13 10 23S 27E 576877 3575839\* 3140 234 28 206 С C 02326 ED 2 07 23S 27E 572948 3576491\* 3160 140 99 41

\*UTM location was derived from PLSS - see Help

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)	(R=POD has been replaced, O=orphaned, C=the file is closed)	(quarters are 1=I (quarters are sm	NW 2=NE 3=SW 4 allest to largest)	l=SE) (NAD83 UTM in met	ers) (I	n feet)
POD Number	POD Sub- Code basin Co	Q Q Q ounty 64 16 4 Sec T	ws Rng	X Y	Depth Distance Well	Depth Water Water Column
C 00420	C CUB	ED 4 2 09 2	23S 27E 576	370 3576337* 🌍	3171 2151	
				Average	e Depth to Water:	119 feet
					Minimum Depth:	28 feet
					Maximum Depth:	350 feet
Record Count: 27						
UTMNAD83 Radius	Search (in meters	s):				
Easting (X): 574	528.79	Northing (Y):	3573754.32	Radius:	3200	

#### \*UTM location was derived from PLSS - see Help

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

# APPENDIX C PHOTO DOCUMENTATION

Photo Log Photo Taken April 3, 2019 Facing south



# APPENDIX D LABORATORY ANALYTICAL REPORTS



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

December 26, 2018

Austin Weyant Souder, Miller & Associates 201 S Halagueno Carlsbad, NM 88221 TEL: (575) 689-7040 FAX

OrderNo.: 1812912

RE: Sterling

Dear Austin Weyant:

Hall Environmental Analysis Laboratory received 5 sample(s) on 12/15/2018 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 www.hallenvironmental.com 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 Laboratory, Inc.

Date Reported: 12/26/2018

CLIENT: Souder, Miller & Associates	S         Client Sample ID: L1-0.5           Collection Date: 12/12/2018 10:05:00 AM           Matrix: SOIL         Received Date: 12/15/2018 9:40:00 AM						r
Lab ID: 1812912-001							
Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	MRA
Chloride	ND	30		mg/Kg	20	12/20/2018 12:33:20 PI	VI 42231
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS					Analyst	том
Diesel Range Organics (DRO)	18000	940		mg/Kg	100	12/18/2018 5:01:28 PM	42154
Motor Oil Range Organics (MRO)	8200	4700		mg/Kg	100	12/18/2018 5:01:28 PM	42154
Surr: DNOP	0	50.6-138	S	%Rec	100	12/18/2018 5:01:28 PM	42154
EPA METHOD 8015D: GASOLINE RANGE	E					Analyst	NSB
Gasoline Range Organics (GRO)	2700	96		mg/Kg	20	12/18/2018 11:49:50 Al	M 42148
Surr: BFB	498	73.8-119	S	%Rec	20	12/18/2018 11:49:50 A	M 42148
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	2.0	0.48		mg/Kg	20	12/18/2018 11:49:50 Al	vi 42148
Toluene	43	0.96		mg/Kg	20	12/18/2018 11:49:50 A	M 42148
Ethylbenzene	11	0.96		mg/Kg	20	12/18/2018 11:49:50 A	M 42148
Xylenes, Total	140	1.9		mg/Kg	20	12/18/2018 11:49:50 A	M 42148
Surr: 4-Bromofluorobenzene	123	80-120	S	%Rec	20	12/18/2018 11:49:50 A	M 42148

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

Qualifiers:	ifiers: * Value exceeds Maximum Contaminant Level.		В	Analyte detected in th	
	D	Sample Diluted Due to Matrix	Ε	Value above quantitat	

- 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
- ne associated Method Blank
- tion range
- Analyte detected below quantitation limits Page 1 of 9 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.

Date Reported: 12/26/2018

CLIENT: Project:	Souder, Miller & Associates Sterling	Client Sample ID: L2-0.5 Collection Date: 12/12/2018 10:20:00 AM						
Lab ID:	1812912-002	Matrix: SOIL		Receiv	ved Date	e: 12/	15/2018 9:40:00 AM	
Analyses		Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA MET	HOD 300.0: ANIONS						Analyst:	MRA
Chloride		ND	30		mg/Kg	20	12/20/2018 1:10:33 PM	42231
EPA MET	HOD 8015M/D: DIESEL RANGE	ORGANICS					Analyst:	том
Diesel Range Organics (DRO)		15000	940		mg/Kg	100	12/18/2018 5:25:50 PM	42154
Motor Oil Range Organics (MRO)		5800	4700		mg/Kg	100	12/18/2018 5:25:50 PM	42154
Surr: DNOP		0	50.6-138	S	%Rec	100	12/18/2018 5:25:50 PM	42154
EPA MET	HOD 8015D: GASOLINE RANGE	E					Analyst:	NSB
Gasoline	Range Organics (GRO)	3400	99		mg/Kg	20	12/18/2018 12:12:37 PM	l 42148
Surr: B	3FB	586	73.8-119	S	%Rec	20	12/18/2018 12:12:37 PM	l 42148
EPA MET	HOD 8021B: VOLATILES						Analyst:	NSB
Benzene		4.0	0.50		mg/Kg	20	12/18/2018 12:12:37 PM	l 42148
Toluene		54	0.99		mg/Kg	20	12/18/2018 12:12:37 PM	l 42148
Ethylbenz	zene	13	0.99		mg/Kg	20	12/18/2018 12:12:37 PM	l 42148
Xylenes,	Total	150	2.0		mg/Kg	20	12/18/2018 12:12:37 PM	l 42148
Surr: 4	-Bromofluorobenzene	127	80-120	S	%Rec	20	12/18/2018 12:12:37 PM	l 42148

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte det
	D	Sample Diluted Due to Matrix	Е	Value abov
	H Holding times for preparation or analysis exceeded		J	Analyte det
	ND	Not Detected at the Reporting Limit	Р	Sample pH
	DOI		DI	D T

- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- tected in the associated Method Blank
- e quantitation range
- tected below quantitation limits Page 2 of 9
- Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified W

# Hall Environmental Analysis Laboratory, Inc.

Date Reported: 12/26/2018

CLIENT: Project:	Souder, Miller & Associates	Client Sample ID: L3-0.5 Collection Date: 12/12/2018 10:30:00 AM									
Lab ID:	1812912-003	Matrix: SOIL		Receiv	ved Date	e: 12/	15/2018 9:40:00 AM				
Analyses		Result	PQL	Qual	Units	DF	Date Analyzed	Batch			
EPA MET	HOD 300.0: ANIONS						Analyst:	MRA			
Chloride		ND	30		mg/Kg	20	12/20/2018 1:47:47 PM	42231			
EPA MET	HOD 8015M/D: DIESEL RANGE	ORGANICS					Analyst	том			
Diesel Ra	ange Organics (DRO)	18000	990		mg/Kg	100	12/18/2018 5:50:05 PM	42154			
Motor Oil	Range Organics (MRO)	6600	4900		mg/Kg	100	12/18/2018 5:50:05 PM	42154			
Surr: D	DNOP	0	50.6-138	S	%Rec	100	12/18/2018 5:50:05 PM	42154			
EPA MET	HOD 8015D: GASOLINE RANGE	E					Analyst	NSB			
Gasoline	Range Organics (GRO)	2400	93		mg/Kg	20	12/18/2018 12:35:25 PM	1 42148			
Surr: E	3FB	463	73.8-119	S	%Rec	20	12/18/2018 12:35:25 PM	1 42148			
EPA MET	HOD 8021B: VOLATILES						Analyst	NSB			
Benzene		3.1	0.46		mg/Kg	20	12/18/2018 12:35:25 PM	1 42148			
Toluene		39	0.93		mg/Kg	20	12/18/2018 12:35:25 PM	1 42148			
Ethylben	zene	8.7	0.93		mg/Kg	20	12/18/2018 12:35:25 PM	1 42148			
Xylenes,	Total	100	1.9		mg/Kg	20	12/18/2018 12:35:25 PM	1 42148			
Surr: 4	l-Bromofluorobenzene	124	80-120	S	%Rec	20	12/18/2018 12:35:25 PN	1 42148			

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method I	Blank
	D	Sample Diluted Due to Matrix	Е	Value above quantitation range	
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	Pag
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range	1 ag
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit	

S % Recovery outside of range due to dilution or matrix

- etected below quantitation limits Page 3 of 9 H Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 12/26/2018

CLIENT:	Souder, Miller & Associates		Cl	ient Sa	ample II	<b>):</b> L4-	-0.5				
Project:	Sterling		(	Collection Date: 12/12/2018 10:48:00 AM							
Lab ID:	1812912-004	Matrix: SOIL		Receiv	ved Date	e: 12/	15/2018 9:40:00 AM				
Analyses		Result	PQL	Qual	Units	DF	Date Analyzed Ba	ıtch			
EPA MET	HOD 300.0: ANIONS						Analyst: MI	RA			
Chloride		ND	30		mg/Kg	20	12/20/2018 2:00:11 PM 42	231			
EPA MET	HOD 8015M/D: DIESEL RANGE	ORGANICS					Analyst: Irn	n			
Diesel Ra	ange Organics (DRO)	17000	920		mg/Kg	100	12/20/2018 11:18:14 AM 42	154			
Motor Oil	Range Organics (MRO)	6300	4600		mg/Kg	100	12/20/2018 11:18:14 AM 42	154			
Surr: D	NOP	0	50.6-138	S	%Rec	100	12/20/2018 11:18:14 AM 42	154			
EPA MET	HOD 8015D: GASOLINE RANGE	E					Analyst: NS	SB			
Gasoline	Range Organics (GRO)	2500	99		mg/Kg	20	12/18/2018 12:58:07 PM 42	148			
Surr: B	3FB	466	73.8-119	S	%Rec	20	12/18/2018 12:58:07 PM 42	148			
EPA MET	HOD 8021B: VOLATILES						Analyst: NS	SB			
Benzene		2.2	0.50		mg/Kg	20	12/18/2018 12:58:07 PM 42	148			
Toluene		35	0.99		mg/Kg	20	12/18/2018 12:58:07 PM 42	148			
Ethylbenz	zene	8.6	0.99		mg/Kg	20	12/18/2018 12:58:07 PM 42	148			
Xylenes,	Total	100	2.0		mg/Kg	20	12/18/2018 12:58:07 PM 42	148			
Surr: 4	-Bromofluorobenzene	128	80-120	S	%Rec	20	12/18/2018 12:58:07 PM 42	148			

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

	- <b>(</b> -	 -) - · r	 	-r	8	 	 	. <b>.</b> .	 	r	 

- \* Value exceeds Maximum Contaminant Level.
  - D Sample Diluted Due to Matrix

**Qualifiers:** 

- 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 9
- 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.

Date Reported: 12/26/2018

CLIENT: Souder, Miller & Associates		Cli	ient Sa	ample II	<b>):</b> L5	-0.5	
Project: Sterling		(	Collect	ion Dat	e: 12/	/12/2018 10:50:00 AN	1
Lab ID: 1812912-005	Matrix: SOIL		Receiv	ved Dat	e: 12/	/15/2018 9:40:00 AM	
Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analys	t: MRA
Chloride	ND	30		mg/Kg	20	12/20/2018 2:12:36 PM	/ 42231
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS					Analys	t: Irm
Diesel Range Organics (DRO)	14000	480		mg/Kg	50	12/19/2018 11:14:52 F	M 42154
Motor Oil Range Organics (MRO)	4300	2400		mg/Kg	50	12/19/2018 11:14:52 F	M 42154
Surr: DNOP	0	50.6-138	S	%Rec	50	12/19/2018 11:14:52 F	M 42154
EPA METHOD 8015D: GASOLINE RANG	E					Analys	t: NSB
Gasoline Range Organics (GRO)	2200	97		mg/Kg	20	12/18/2018 11:12:00 F	M 42148
Surr: BFB	440	73.8-119	S	%Rec	20	12/18/2018 11:12:00 F	M 42148
EPA METHOD 8021B: VOLATILES						Analys	t: NSB
Benzene	1.6	0.49		mg/Kg	20	12/18/2018 11:12:00 F	M 42148
Toluene	35	0.97		mg/Kg	20	12/18/2018 11:12:00 F	M 42148
Ethylbenzene	9.1	0.97		mg/Kg	20	12/18/2018 11:12:00 F	M 42148
Xylenes, Total	110	1.9		mg/Kg	20	12/18/2018 11:12:00 F	M 42148
Surr: 4-Bromofluorobenzene	124	80-120	S	%Rec	20	12/18/2018 11:12:00 F	M 42148

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Met

- 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
- % Recovery outside of range due to dilution or matrix S
- Analyte detected in the associated Method Blank
- E Value above quantitation range
- Analyte detected below quantitation limits Page 5 of 9 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified W

# QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client: Project:	Souder, N Sterling	Ailler & Assoc	ciates						
Sample ID Client ID:	MB-42231 PBS	SampType: Batch ID:	: mblk 42231	Test	Code: EPA Method unNo: 56495	300.0: Anions	5		
Prep Date:	12/20/2018	Analysis Date:	12/20/2018	S	eqNo: <b>1890343</b>	Units: <b>mg/K</b>	g		
Analyte		Result Po	QL SPK value	SPK Ref Val	%REC LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND	1.5						
Sample ID	LCS-42231	SampType	lcs	Test	Code: EPA Method	300.0: Anion	S		
Client ID:	LCSS	Batch ID:	42231	R	unNo: <b>56495</b>				
Prep Date:	12/20/2018	Analysis Date:	12/20/2018	S	eqNo: <b>1890344</b>	Units: <b>mg/K</b>	g		
Analyte		Result P	QL SPK value	SPK Ref Val	%REC LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		14	1.5 15.00	0	96.3 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
- 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

1812912 26-Dec-18

WO#:

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# QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client: Project:	Souder, N Sterling	/liller & Ass	ociat	es								
Sample ID	LCS-42154	SampTyp	e: LO	cs	Tes	tCode: E	PA Method	8015M/D: Die	esel Range	e Organics		
Client ID:	LCSS	Batch II	D: 42	2154	R	unNo: 5	6409					
Prep Date:	12/17/2018	Analysis Dat	e: 1	2/18/2018	S	eqNo: 1	886087	Units: <b>mg/K</b>	íg			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range C	Organics (DRO)	43	10	50.00	0	85.5	70	130				
Surr: DNOP		4.1		5.000		81.7	50.6	138				
Sample ID	MB-42154	SampTyp	e: M	BLK	Tes	tCode: E	PA Method	8015M/D: Die	esel Range	e Organics		
Client ID:	PBS	Batch II	D: 42	2154	R	unNo: 5	6409					
Prep Date:	12/17/2018	Analysis Dat	e: 1	2/18/2018	S	eqNo: 1	886088	Units: <b>mg/K</b>	g			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range C	Organics (DRO)	ND	10									
Motor Oil Rang	e Organics (MRO)	ND	50									
Surr: DNOP		8.8		10.00		88.1	50.6	138				
Sample ID	LCS-42188	SampTyp	e: LC	cs	Tes	tCode: E	PA Method	8015M/D: Die	esel Range	e Organics		
Client ID:	LCSS	Batch II	D: 42	2188	R	unNo: 5	6437					
Prep Date:	12/18/2018	Analysis Dat	e: 1	2/19/2018	S	eqNo: 1	887450	Units: %Re	C			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Surr: DNOP		4.0		5.000		80.3	50.6	138				
Sample ID	MB-42188	SampTyp	e: M	BLK	Tes	tCode: E	PA Method	8015M/D: Die	esel Range	e Organics		
Client ID:	PBS	Batch II	D: 42	2188	R	unNo: 5	6437					
Prep Date:	12/18/2018	Analysis Dat	e: 1	2/19/2018	S	eqNo: 1	887451	Units: %Re	6			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	

10.00

8.6

Surr: DNOP

#### 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

85.5

50.6

138

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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

W	O#: <b>1812912</b>
	26-Dec-18

Client: Project:	Souder, N Sterling	Ailler & A	ssociate	es							
Sample ID M	IB-42148	Samp	Type: ME	BLK	Tes	tCode: EF	PA Method	8015D: Gasc	oline Rang	e	
Client ID: P	BS	Batc	h ID: 42	148	RunNo: <b>56430</b>						
Prep Date:	12/17/2018	Analysis E	Date: 12	2/18/2018	S	eqNo: 18	386658	Units: <b>mg/k</b>	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range (	Organics (GRO)	ND	5.0								
Surr: BFB		880		1000		87.8	73.8	119			
Sample ID L	CS-42148	Samp	Type: LC	S	Tes	tCode: EF	PA Method	8015D: Gasc	oline Rang	e	
Client ID: L	CSS	Batc	h ID: 42	148	R	unNo: <b>56</b>	6430				
Prep Date:	12/17/2018	Analysis E	Date: 12	2/18/2018	S	eqNo: 18	386659	Units: <b>mg/k</b>	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range (	Organics (GRO)	23	5.0	25.00	0	91.2	80.1	123			
Surr: BFB		1000		1000		102	73.8	119			

#### 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
- Page 8 of 9

# QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

WO#:	1812	912
		-

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26-Dec-18

Client:	Souder, N	Ailler & A	ssociate	es									
Project:	Sterling												
Sample ID MB-4	42148	Samp	Type: ME	BLK	Tes	tCode: El	PA Method	8021B: Vola	tiles				
Client ID: PBS		Batc	h ID: 42	148	F	anNo: 5	6430						
Prep Date: 12/	17/2018	Analysis [	Date: 12	2/18/2018	S	SeqNo: 1	886689	Units: mg/k	ίg				
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-Bromofluoro	obenzene	0.98		1.000		98.1	80	120					
Sample ID LCS-	-42148	Samp	Гуре: <b>LC</b>	S	Tes	tCode: El	PA Method	8021B: Vola	tiles				
Client ID: LCS	S	Batc	h ID: 42	148	F	unNo: 5	6430						
Prep Date: 12/	17/2018	Analysis [	Date: 12	2/18/2018	S	SeqNo: 1	886690	Units: <b>mg/k</b>	(g				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene		0.80	0.025	1.000	0	80.5	80	120					
Toluene		0.90	0.050	1.000	0	90.5	80	120					
Ethylbenzene		0.94	0.050	1.000	0	93.7	80	120					
Xylenes, Total		2.9	0.10	3.000	0	97.9	80	120					
Surr: 4-Bromofluoro	obenzene	1.0		1.000		101	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

HALL ENVIRONMENTAL ANALYSIS LABORATORY	Hall Environmental Albi TEL: 505-345-3975 Website: www.ha	Analysis Lab 4901 Haw uquerque, NN FAX: 505-34 Ilenvironmer	oratory kins NE 4 87109 Sarr 45-4107 ttal.com	nple Log-In Check List
Client Name: SMA-CARLSBAD V	Vork Order Number:	1812912	*	RcptNo: 1
Received By: Erin Melendrez 12/	15/2018 9:40:00 AM	Λ	int	7
Completed By: Erin Melendrez 12/	15/2018 10:56:44 A	M	int	2
Reviewed By: SU [2-17,]]				
LB: DAD 12/17/18				
Chain of Custody				
1. Is Chain of Custody complete?		Yes 🗹	No 🗌	Not Present
2. How was the sample delivered?		Courier		
logIn				
3. Was an attempt made to cool the samples?		Yes 🗸	No 🗌	
<ol> <li>Were all samples received at a temperature of &gt;0</li> </ol>	0° C to 6.0°C	Yes 🖌	No 🗌	
. Sample(s) in proper container(s)?		Vec 🗸	No 🗌	
Sufficient sample volume for indicated test(s)?		Yes 🗹	No 🗌	
7. Are samples (except VOA and ONG) properly pres	served?	Yes 🗸	No 🗌	
3. Was preservative added to bottles?		Yes 🗌	No 🗸	NA 🗌
VOA vials have zero headspace?		Vec 🗌	No 🗌	
) Were any sample containers received broken?		Yes	No 🗹	
		100		# of preserved
1. Does paperwork match bottle labels?		Yes 🗹	No 🗌	for pH:
(Note discrepancies on chain of custody)	1.0		Ni- 🗖	(<2 or >12 únless noted) Adjusted?
Are matrices correctly identified on Chain of Custo Is it clear what analyses were requested?	ody?	Yes 🗹		Adjusted
4. Were all holding times able to be met?		Yes 🗸		Checked by: DAD 12/17/18
(If no, notify customer for authorization.)				
pecial Handling (if applicable)				
5. Was client notified of all discrepancies with this of	rder?	Yes	No 🗌	NA 🔽
Person Notified	Date:			
By Whom:	Via: [	eMail [	Phone 🗌 Fax	
Regarding:				
Client Instructions:				Andre and Anna Anna Anna Anna Anna Anna Anna
6 Additional remarks:				
Cooler Information     Cooler No   Temp °C   Condition   Seal Inf	tact   Seal No.   S	eal Data	Signed By	
1 1.6 Good Yes			Signed by	
2 2.7 Good Yes				

Billett St. M.     Cistration     Rest       Billett St. M.     Cistration     Cistration       Billett St. M.     Polyacit #:       Billett St. M. <th>Chaii</th> <th>n-of-C</th> <th>ustody Record</th> <th>Turn-Around</th> <th>Time: S</th> <th>day hun</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>C</th> <th></th> <th></th>	Chaii	n-of-C	ustody Record	Turn-Around	Time: S	day hun						C		
Initial Address:     Project Name:       Initial Address:     Sterti-is       Initial Address:     Project Name:       Initial Name:     Project Name:       Initian:     Name:       Initian:	lient: SN	the		☐ □ Standard	□ Rush						N N N		BOBATOBY	
Billing Address:     Start-1:-S       Billing Address:     Start-1:-S       Project II:     Project II:       Bill of Fait:     Project II:       Correlation:     Project II:       Bill of Fait:     Project II:       Project II:     Project II:       Correlation:     Project II:       Correlation:     Project II:       Correlation:     Project II:       Sampler:     Project II:       Addition:				Project Name	ä			410	ζ				DURAIUR	
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Bit         Coolert Termponence:	EDD (Type	(i		# of Coolers:	s Kr	2	ев / 38 Т	səpi		tals.		0/		
ater       Time       Matrix       Sample Name       Container       Preservative       HEALNO.       Unit No.       No				Cooler Temp	(including CF):   . (	x,7.7%	TM ( 015D(	oitee	oy 83	8 Me	(AOV	-im92		
Intell         Lot S         YO2         -MI         XX         XX         XX         X	ate Time	Matrix	Sample Name	Container Type and #	Preservative Type	1217 G17	X TPH:8	1 1808 1 1808	n) daa I eHAq	RCRA С) F,	) 0928	3 10101		
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1030       123-0.5       123-0.5       123-0.5         1045       124-0.5       1005       ××       ××         1050       V       1550       V       1005       ××       ××         1050       V       1550       V       1005       ××       ××       ×         1050       V       125-0.5       V       1005       ××       ×       ×       ×       ×       ×         1050       V       125-0.5       V       1005       ×<	1020		12-0.5	-		-007	X			X				
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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: <u>www.hallenvironmental.com</u>

January 29, 2019

Heather Patterson Souder, Miller & Associates 201 S Halagueno Carlsbad, NM 88221 TEL: (575) 689-7040 FAX

OrderNo.: 1901885

**RE:** Sterling

Dear Heather Patterson:

Hall Environmental Analysis Laboratory received 4 sample(s) on 1/23/2019 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 Laboratory, Inc.

Date Reported: 1/29/2019

CLIENT: Project:	Souder, Miller & Associates	Client Sample ID: 4' Collection Date: 1/22/2019 12:45:00 PM											
Lab ID:	1901885-001	Matrix: SOIL	Matrix: SOIL         Received Date: 1/23/2019 8:50:0										
Analyses		Result	PQL	Qual	Units	DF	Date Analyzed	Batch					
EPA MET	HOD 8015M/D: DIESEL RANGE	EORGANICS					Analyst	Irm					
Diesel R	ange Organics (DRO)	780	9.4		mg/Kg	1	1/25/2019 4:40:53 PM	42786					
Motor Oi	I Range Organics (MRO)	320	47		mg/Kg	1	1/25/2019 4:40:53 PM	42786					
Surr: [	ONOP	109	50.6-138		%Rec	1	1/25/2019 4:40:53 PM	42786					
EPA MET	HOD 8015D: GASOLINE RANG	E					Analyst	NSB					
Gasoline	Range Organics (GRO)	8.1	4.7		mg/Kg	1	1/25/2019 3:32:24 AM	42770					
Surr: E	3FB	166	73.8-119	S	%Rec	1	1/25/2019 3:32:24 AM	42770					
EPA MET	HOD 8021B: VOLATILES						Analyst	NSB					
Benzene		ND	0.024		mg/Kg	1	1/25/2019 3:32:24 AM	42770					
Toluene		ND	0.047		mg/Kg	1	1/25/2019 3:32:24 AM	42770					
Ethylben	zene	ND	0.047		mg/Kg	1	1/25/2019 3:32:24 AM	42770					
Xylenes,	Total	ND	0.094		mg/Kg	1	1/25/2019 3:32:24 AM	42770					
Surr: 4	4-Bromofluorobenzene	92.1	80-120		%Rec	1	1/25/2019 3:32:24 AM	42770					

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

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 1/29/2019

CLIENT: Project:	Souder, Miller & Associates Sterling	Client Sample ID: 6' Collection Date: 1/22/2019 12:50:00 PM Matrix: SOIL Beceived Date: 1/23/2019 8:50:00 AM										
	1901885-002	Matrix: SUIL	DOI	Received Date: 1/23/2019 8:50:00 AM								
Analyses		Kesun	PQL	Quai	Units	DF	Date Analyzed	Batch				
EPA MET	HOD 8015M/D: DIESEL RANGE	EORGANICS					Analyst	Irm				
Diesel R	ange Organics (DRO)	540	9.4		mg/Kg	1	1/25/2019 5:05:04 PM	42786				
Motor Oi	I Range Organics (MRO)	240	47		mg/Kg	1	1/25/2019 5:05:04 PM	42786				
Surr: [	ONOP	106	50.6-138		%Rec	1	1/25/2019 5:05:04 PM	42786				
EPA MET	HOD 8015D: GASOLINE RANG	E					Analyst	NSB				
Gasoline	Range Organics (GRO)	ND	4.8		mg/Kg	1	1/25/2019 3:55:40 AM	42770				
Surr: E	3FB	138	73.8-119	S	%Rec	1	1/25/2019 3:55:40 AM	42770				
EPA MET	HOD 8021B: VOLATILES						Analyst	NSB				
Benzene		ND	0.024		mg/Kg	1	1/25/2019 3:55:40 AM	42770				
Toluene		ND	0.048		mg/Kg	1	1/25/2019 3:55:40 AM	42770				
Ethylben	zene	ND	0.048		mg/Kg	1	1/25/2019 3:55:40 AM	42770				
Xylenes,	Total	ND	0.097		mg/Kg	1	1/25/2019 3:55:40 AM	42770				
Surr: 4	4-Bromofluorobenzene	95.1	80-120		%Rec	1	1/25/2019 3:55:40 AM	42770				

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

Qualifiers:	
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- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 2 of 9
- 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.

Date Reported: 1/29/2019

CLIENT: Project:	Souder, Miller & Associates	Client Sample ID: 8' Collection Date: 1/22/2019 12:55:00 PM									
Lab ID:	1901885-003	Matrix: SOIL	23/2019 8:50:00 AM								
Analyses		Result	PQL	Qual Units	DF	Date Analyzed	Batch				
EPA MET	HOD 8015M/D: DIESEL RANGE	EORGANICS				Analyst	: Irm				
Diesel R	ange Organics (DRO)	62	9.6	mg/Kg	1	1/25/2019 5:29:14 PM	42786				
Motor Oi	I Range Organics (MRO)	ND	48	mg/Kg	1	1/25/2019 5:29:14 PM	42786				
Surr: [	ONOP	86.9	50.6-138	%Rec	1	1/25/2019 5:29:14 PM	42786				
EPA MET	HOD 8015D: GASOLINE RANG	E				Analyst	NSB				
Gasoline	Range Organics (GRO)	ND	4.9	mg/Kg	1	1/25/2019 4:18:54 AM	42770				
Surr: E	3FB	111	73.8-119	%Rec	1	1/25/2019 4:18:54 AM	42770				
EPA MET	HOD 8021B: VOLATILES					Analyst	NSB				
Benzene		ND	0.025	mg/Kg	1	1/25/2019 4:18:54 AM	42770				
Toluene		ND	0.049	mg/Kg	1	1/25/2019 4:18:54 AM	42770				
Ethylben	zene	ND	0.049	mg/Kg	1	1/25/2019 4:18:54 AM	42770				
Xylenes,	Total	ND	0.099	mg/Kg	1	1/25/2019 4:18:54 AM	42770				
Surr: 4	4-Bromofluorobenzene	93.4	80-120	%Rec	1	1/25/2019 4:18:54 AM	42770				

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

- \* Value exceeds Maximum Contaminant Level.D Sample Diluted Due to Matrix
- D Sample Diluted Due to 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 9
- 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.

Date Reported: 1/29/2019

CLIENT:	Souder, Miller & Associates		Cl	ient Sample II	<b>):</b> 9'			
Project:	Sterling		(	Collection Dat	<b>e:</b> 1/2	22/2019 1:00:00 PM		
Lab ID:	1901885-004	Matrix: SOIL         Received Date: 1/23/2019 8:50:00 AM						
Analyses		Result	PQL	Qual Units	DF	Date Analyzed	Batch	
EPA MET	HOD 300.0: ANIONS					Analyst	MRA	
Chloride		ND	30	mg/Kg	20	1/28/2019 4:57:30 PM	42842	
EPA MET	HOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	Irm	
Diesel Ra	ange Organics (DRO)	150	9.7	mg/Kg	1	1/25/2019 5:53:17 PM	42786	
Motor Oil	Range Organics (MRO)	79	48	mg/Kg	1	1/25/2019 5:53:17 PM	42786	
Surr: D	NOP	86.1	50.6-138	%Rec	1	1/25/2019 5:53:17 PM	42786	
EPA MET	HOD 8015D: GASOLINE RANGE	E				Analyst	NSB	
Gasoline	Range Organics (GRO)	ND	4.9	mg/Kg	1	1/25/2019 4:42:07 AM	42770	
Surr: E	3FB	98.8	73.8-119	%Rec	1	1/25/2019 4:42:07 AM	42770	
EPA MET	HOD 8021B: VOLATILES					Analyst	NSB	
Benzene		ND	0.025	mg/Kg	1	1/25/2019 4:42:07 AM	42770	
Toluene		ND	0.049	mg/Kg	1	1/25/2019 4:42:07 AM	42770	
Ethylbenz	zene	ND	0.049	mg/Kg	1	1/25/2019 4:42:07 AM	42770	
Xylenes,	Total	ND	0.098	mg/Kg	1	1/25/2019 4:42:07 AM	42770	
Surr: 4	-Bromofluorobenzene	92.7	80-120	%Rec	1	1/25/2019 4:42:07 AM	42770	

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

**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 4 of 9 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Client: Project:	Souder, N Sterling	Miller & Assoc	viates					
Sample ID	MB-42842	SampType:	MBLK	Test	tCode: EPA Method	300.0: Anions		
Client ID:	Client ID: PBS Batch ID: 42842			R	RunNo: <b>57302</b>			
Prep Date:	1/28/2019	Analysis Date:	1/28/2019	S	GeqNo: 1917392	Units: mg/Kg		
Analyte		Result PC	QL SPK value	SPK Ref Val	%REC LowLimit	HighLimit %R	PD RPDLimit	Qual
Chloride		ND	1.5					
Sample ID	LCS-42842	SampType:	LCS	Test	tCode: EPA Method	300.0: Anions		
Client ID:	LCSS	Batch ID:	42842	R	RunNo: <b>57302</b>			
Prep Date:	1/28/2019	Analysis Date:	1/28/2019	S	GeqNo: 1917393	Units: mg/Kg		
Analyte		Result PC	QL SPK value	SPK Ref Val	%REC LowLimit	HighLimit %R	PD RPDLimit	Qual
Chloride		14	1.5 15.00	0	93.5 90	110		

#### Qualifiers:

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

Page 5 of 9

Client: Project:	Souder, N Sterling	Miller & Ass	ociate	es							
Sample ID	LCS-42786	SampTu		<u>```</u>	Too	tCodo: E	PA Mothod	8015M/D- Di	osol Pana	Organics	
	1055	Batch I		796	res		7250	0015W/D. DI	eser Kang	e Organics	
Pren Date	1/24/2019	Analysis Da	10. <b>42</b>	/25/2019	,	SeaNo: 1	915186	Units: ma/k	(a		
Analista	1/2-1/2013	Desult					L avul insit		<b>צי</b>		Qual
Diesel Range	Organics (DRO)	43	PQL 10	50.00	OFR Rei Val	%REC 85.3	63.9	nign∟imit 124	%RPD	RPDLIMI	Quai
Surr: DNOP	ergamoo (Brro)	4.7		5.000	Ũ	93.9	50.6	138			
Sample ID	MB-42786	SampTy	be: M	BLK	Tes	tCode: E	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID:	PBS	Batch I	D: 42	786	F	RunNo: 5	7250				
Prep Date:	1/24/2019	Analysis Da	te: 1	/25/2019	S	SeqNo: 1	915187	Units: mg/H	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range	Organics (DRO)	ND	10								
Motor Oil Rang	ge Organics (MRO)	ND 10	50	10.00		104	50.6	138			
Sull: DNOI		10		10.00		104	00.0	100			
Sample ID	1901885-004AMS	SampTy	be: M	S	Tes	tCode: E	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID:	9'	Batch I	D: 42	786	F	RunNo: 5	7250				
Prep Date:	1/24/2019	Analysis Da	te: 1	/25/2019	S	SeqNo: 1	916312	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range	Organics (DRO)	180	9.5	47.30	152.7	60.7	53.5	126			
Sull: DNOP		3.9		4.730		02.7	50.6	136			
Sample ID	1901885-004AMSI	D SampTy	be: M	SD	Tes	tCode: E	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID:	9'	Batch I	D: 42	786	F	RunNo: 5	7250				
Prep Date:	1/24/2019	Analysis Da	te: 1	/25/2019	5	SeqNo: 1	916313	Units: <b>mg/k</b>	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range	Organics (DRO)	200	9.5	47.57	152.7	98.0	53.5	126	9.41	21.7	
Sull: DNOP		4.3		4.757		90.2	50.6	138	0	0	
Sample ID	LCS-42818	SampTy	be: LC	S	Tes	tCode: E	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID:	LCSS	Batch I	D: 42	818	F	RunNo: 5	7295				
Prep Date:	1/25/2019	Analysis Da	te: 1	/28/2019	S	SeqNo: 1	917277	Units: %Re	C		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	1	4.7		5.000		93.3	50.6	138			
Sample ID	MB-42818	SampTy	be: M	BLK	Tes	tCode: E	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID:	PBS	Batch I	D: 42	818	F	RunNo: 5	7295				
Prep Date:	1/25/2019	Analysis Da	te: 1	/28/2019	S	SeqNo: 1	917278	Units: %Re	с		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

#### Qualifiers:

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

Page 6 of 9

Client: Project:	Souder, M Sterling	filler & Asso	ociat	es							
Sample ID	MB-42818	SampTyp	e: M	BLK	Tes	tCode: El	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID:	PBS	Batch II	): 42	818	F	RunNo: 5	7295				
Prep Date:	1/25/2019	Analysis Date	e: 1	/28/2019	S	SeqNo: 1	917278	Units: %Red	0		
Analyte		Result I	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		9.1		10.00		90.6	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

Page 7 of 9

Client:	Souder, N	Ailler & Asso	ociate	es							
Project:	Sterling										
Sample ID	MB-42770	SampType	e: MB	BLK	Tes	tCode: E	PA Method	8015D: Gaso	line Rang	e	
Client ID:	PBS	Batch ID	): <b>42</b>	770	F	anNo: 5	7224				
Prep Date:	1/23/2019	Analysis Date	e: 1/	24/2019	S	SeqNo: 1	914524	Units: mg/K	g		
Analyte		Result F	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	e Organics (GRO)	ND	5.0								
Surr: BFB		970		1000		96.5	73.8	119			
Sample ID	LCS-42770	SampType	e: LC	s	Tes	tCode: E	PA Method	8015D: Gaso	line Rang	e	
Client ID:	LCSS	Batch ID	): <b>42</b>	770	F	lunNo: 5	7224				
Prep Date:	1/23/2019	Analysis Date	e: 1/	24/2019	S	SeqNo: 1	914525	Units: mg/K	g		
Analyte		Result F	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	e Organics (GRO)	28	5.0	25.00	0	113	80.1	123			
Surr: BFB		1100		1000		110	73.8	119			
Sample ID	MB-42805	SampType	e: MB	BLK	Tes	tCode: E	PA Method	8015D: Gaso	line Rang	e	
Client ID:	PBS	Batch ID	): <b>42</b>	805	F	lunNo: 5	7264				
Prep Date:	1/24/2019	Analysis Date	e: 1/	25/2019	5	SeqNo: 1	915632	Units: %Rec	;		
Analyte		Result F	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB		960		1000		96.4	73.8	119			
Sample ID	LCS-42805	SampType	e: LC	s	Tes	tCode: E	PA Method	8015D: Gaso	line Rang	e	
Client ID:	LCSS	Batch ID	): <b>42</b>	805	F	anNo: 5	7264				
Prep Date:	1/24/2019	Analysis Date	e: 1/	25/2019	S	SeqNo: 1	915633	Units: %Rec	;		
Analyte		Result F	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB		1100		1000		108	73.8	119			

#### **Qualifiers:**

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

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Client: Project:	Souder, N Sterling	Miller & A	ssociate	es							
	Sterning										
Sample ID	MB-42770	SampT	ype: MI	BLK	Tes	tCode: E	PA Method	8021B: Volat	iles		
Client ID:	PBS	Batch	n ID: 42	770	F	RunNo: 5	7224				
Prep Date:	1/23/2019	Analysis D	ate: 1	/24/2019	\$	SeqNo: 1	914566	Units: mg/K	g		
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	nofluorobenzene	0.96		1.000		95.6	80	120			
Sample ID	LCS-42770	SampT	ype: LC	s	Tes	tCode: E	PA Method	8021B: Volat	iles		
Client ID:	LCSS	Batch	n ID: 42	770	F	RunNo: 5	7224				
Prep Date:	1/23/2019	Analysis D	ate: 1	/24/2019	5	SeqNo: 1	914567	Units: <b>mg/K</b>	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.94	0.025	1.000	0	93.8	80	120			
Toluene		0.97	0.050	1.000	0	96.8	80	120			
Ethylbenzene		0.98	0.050	1.000	0	98.3	80	120			
Xylenes, Total		3.0	0.10	3.000	0	99.1	80	120			
Surr: 4-Brom	nofluorobenzene	0.99		1.000		98.9	80	120			
Sample ID	MB-42805	SampT	ype: MI	BLK	Tes	tCode: E	PA Method	8021B: Volat	iles		
Client ID:	PBS	Batch	n ID: 42	805	F	RunNo: 5	7264				
Prep Date:	1/24/2019	Analysis D	ate: 1	/25/2019	5	SeqNo: 1	915665	Units: %Red	;		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Brom	nofluorobenzene	0.96		1.000		95.8	80	120			
Sample ID	LCS-42805	SampT	ype: LC	s	Tes	tCode: E	PA Method	8021B: Volat	iles		
Client ID:	LCSS	Batch	n ID: 42	805	F	RunNo: 5	7264				
Prep Date:	1/24/2019	Analysis D	ate: 1	/25/2019	\$	SeqNo: 1	915666	Units: %Red	•		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Brom	nofluorobenzene	0.99		1.000		99.1	80	120			

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

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HALL H ENVIRONMENTAL ANALYSIS LABORATORY 7	all Environmental Albu EL: 505-345-3975 Webstte: www.hau	Analysis Labo 4901 Hawki querque, NM FAX: \$05-345 Renvironmente	ratory ias NE 87109 <b>Sar</b> 14107 al.com	Sample Log-In Check List			
Client Name: SMA-CARLSBAD Wor	k Order Number:	1901885		RcptNo: 1			
Received By: Desiree Dominguez 1/23/2	019 8:50:00 AM		Dr.				
Completed By: Thom Maybee 1/23/2	019 11:48:36 AM	1					
Reviewed By: ENH 1/23 LB: DAD 1/23/19	3/19						
Chain of Custody							
1. Is Chain of Custody complete?		Yes 🗹	No 🗔	Not Present			
2. How was the sample delivered?		Courier					
<u>Log in</u>							
<ol><li>Was an attempt made to cool the samples?</li></ol>		Yes 🗹	No 🗌	NA 🗌			
				Science of Spring			
<ol><li>Were all samples received at a temperature of &gt;0° C</li></ol>	C to 6.0°C	Yes 🗹	Na 🗌				
5. Sample(s) in proper container(s)?		Yes 🔽	No 🗆				
<ol><li>Sufficient sample volume for indicated test(s)?</li></ol>		Yes 🗹	No 🗌				
7. Are samples (except VOA and ONG) properly presen	ved?	Yes 🗹	No 🗔				
3. Was preservative added to bottles?		Yes 🗌	No 🔽	NA 🗌			
9. VOA vials have zero headspace?		Yes 🗌	No 🗌	No VOA Vials			
0. Were any sample containers received broken?		Yes 🗆	Na 🔽	13 38 2			
				# of preserved bottles checked			
1. Does paperwork match bottle labels?		Yes 🗹	No 🗌	for pH:			
(Note discrepancies on chain of custody) 2. Are matrices correctly identified on Chain of Custody	2	Ver 🖌	No 🗖	(<2 cr >12 unless noted) Adjusted?			
<ol> <li>Is it clear what analyses were requested?</li> </ol>	6	Yes 🗹					
4. Were all holding times able to be met?		Yes 🗸	No 🗆	Checked by:			
(If no, notify customer for authorization.)				1			
pecial Handling (if applicable)							
15. Was client notified of all discrepancies with this orde	r?	Yes 🗌	No 🗌	NA 🔽			
Person Notified:	Date						
By Whom:	Via:	eMail [7]	Phone 🗔 Eav	In Person			
Regarding:							
Client Instructions:							
16 Additional remarks:							
- Audicular emaility,							

1	Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
	1	4.4	Good	Not Present			



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: <u>www.hallenvironmental.com</u>

March 11, 2019

Heather Patterson Souder, Miller & Associates 201 S Halagueno Carlsbad, NM 88221 TEL: (575) 689-7040 FAX:

RE: Sterling

OrderNo.: 1903070

Dear Heather Patterson:

Hall Environmental Analysis Laboratory received 4 sample(s) on 3/2/2019 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 Laboratory, Inc.

Lab Order 1903070 Date Reported: 3/11/2019

CLIENT: Souder, Miller & Associates Project: Sterling Lab ID: 1903070-001	Client Sample ID: SW1           Collection Date: 2/28/2019 3:18:00 PM           Matrix: SOIL         Received Date: 3/2/2019 9:00:00 AM								
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch			
EPA METHOD 300.0: ANIONS					Analyst	: smb			
Chloride	ND	60	mg/Kg	20	3/9/2019 12:46:20 AM	43578			
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	: Irm			
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	3/5/2019 6:13:16 PM	43440			
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	3/5/2019 6:13:16 PM	43440			
Surr: DNOP	85.8	70-130	%Rec	1	3/5/2019 6:13:16 PM	43440			
EPA METHOD 8015D: GASOLINE RANG	E				Analyst	: NSB			
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	3/6/2019 12:20:51 AM	43474			
Surr: BFB	90.2	73.8-119	%Rec	1	3/6/2019 12:20:51 AM	43474			
EPA METHOD 8021B: VOLATILES					Analyst	: NSB			
Benzene	ND	0.024	mg/Kg	1	3/6/2019 12:20:51 AM	43474			
Toluene	ND	0.049	mg/Kg	1	3/6/2019 12:20:51 AM	43474			
Ethylbenzene	ND	0.049	mg/Kg	1	3/6/2019 12:20:51 AM	43474			
Xylenes, Total	ND	0.097	mg/Kg	1	3/6/2019 12:20:51 AM	43474			
Surr: 4-Bromofluorobenzene	94.5	80-120	%Rec	1	3/6/2019 12:20:51 AM	43474			

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

- \* Value exceeds Maximum Contaminant Level.D Sample Diluted Due to Matrix
- D Sample Diluted Due to 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 8
- 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.

Date Reported: 3/11/2019

CLIENT: Souder, Miller & Associates		Cl	ient Sample II	D:SV	V2		
Project: Sterling		(	Collection Date	e: 2/2	28/2019 3:24:00 PM		
Lab ID: 1903070-002	Matrix: SOIL         Received Date: 3/2/2019 9:00:00 AM						
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch	
EPA METHOD 300.0: ANIONS					Analyst	: smb	
Chloride	ND	60	mg/Kg	20	3/9/2019 1:23:33 AM	43578	
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	: Irm	
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	3/5/2019 6:35:29 PM	43440	
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	3/5/2019 6:35:29 PM	43440	
Surr: DNOP	82.5	70-130	%Rec	1	3/5/2019 6:35:29 PM	43440	
EPA METHOD 8015D: GASOLINE RANG	E				Analyst	: NSB	
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	3/6/2019 1:53:52 AM	43474	
Surr: BFB	85.6	73.8-119	%Rec	1	3/6/2019 1:53:52 AM	43474	
EPA METHOD 8021B: VOLATILES					Analyst	: NSB	
Benzene	ND	0.023	mg/Kg	1	3/6/2019 1:53:52 AM	43474	
Toluene	ND	0.047	mg/Kg	1	3/6/2019 1:53:52 AM	43474	
Ethylbenzene	ND	0.047	mg/Kg	1	3/6/2019 1:53:52 AM	43474	
Xylenes, Total	ND	0.094	mg/Kg	1	3/6/2019 1:53:52 AM	43474	
Surr: 4-Bromofluorobenzene	93.4	80-120	%Rec	1	3/6/2019 1:53:52 AM	43474	

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

- \* Value exceeds Maximum Contaminant Level.D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 2 of 8
- 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.

Date Reported: 3/11/2019

CLIENT: Souder, Miller & Associates Project: Sterling	Client Sample ID: SW3 Collection Date: 2/28/2019 3:35:00 PM								
Lab ID: 1903070-003	Matrix: SOILReceived Date: 3/2/2019 9:00:00 AM								
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch			
EPA METHOD 300.0: ANIONS					Analysi	t: smb			
Chloride	ND	60	mg/Kg	20	3/9/2019 1:35:58 AM	43578			
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	t: Irm			
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	3/5/2019 6:57:31 PM	43440			
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	3/5/2019 6:57:31 PM	43440			
Surr: DNOP	86.9	70-130	%Rec	1	3/5/2019 6:57:31 PM	43440			
EPA METHOD 8015D: GASOLINE RANG	E				Analyst	t: NSB			
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	3/6/2019 2:17:07 AM	43474			
Surr: BFB	88.6	73.8-119	%Rec	1	3/6/2019 2:17:07 AM	43474			
EPA METHOD 8021B: VOLATILES					Analyst	t: NSB			
Benzene	ND	0.024	mg/Kg	1	3/6/2019 2:17:07 AM	43474			
Toluene	ND	0.047	mg/Kg	1	3/6/2019 2:17:07 AM	43474			
Ethylbenzene	ND	0.047	mg/Kg	1	3/6/2019 2:17:07 AM	43474			
Xylenes, Total	ND	0.094	mg/Kg	1	3/6/2019 2:17:07 AM	43474			
Surr: 4-Bromofluorobenzene	95.6	80-120	%Rec	1	3/6/2019 2:17:07 AM	43474			

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

- \* Value exceeds Maximum Contaminant Level.D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 3 of 8
- 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.

Date Reported: 3/11/2019

CLIENT:	Souder, Miller & Associates	tes Client Sample ID: SW4						
Project:	Sterling		(	Collect	ion Dat	<b>e:</b> 2/2	28/2019 3:48:00 PM	
Lab ID:	1903070-004	Matrix: SOIL	2/2019 9:00:00 AM					
Analyses		Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA MET	HOD 300.0: ANIONS						Analyst	: smb
Chloride		ND	60		mg/Kg	20	3/9/2019 1:48:23 AM	43578
EPA MET	HOD 8015M/D: DIESEL RANGI	E ORGANICS					Analyst	: Irm
Diesel R	ange Organics (DRO)	4800	99		mg/Kg	10	3/6/2019 11:36:54 AM	43440
Motor Oi	I Range Organics (MRO)	1600	500		mg/Kg	10	3/6/2019 11:36:54 AM	43440
Surr: [	DNOP	0	70-130	S	%Rec	10	3/6/2019 11:36:54 AM	43440
EPA MET	HOD 8015D: GASOLINE RANG	θE					Analyst	NSB
Gasoline	Range Organics (GRO)	630	49		mg/Kg	10	3/6/2019 1:05:46 PM	43474
Surr: E	3FB	401	73.8-119	S	%Rec	10	3/6/2019 1:05:46 PM	43474
EPA MET	HOD 8021B: VOLATILES						Analyst	: NSB
Benzene		ND	0.025		mg/Kg	1	3/6/2019 2:40:19 AM	43474
Toluene		1.2	0.049		mg/Kg	1	3/6/2019 2:40:19 AM	43474
Ethylben	zene	ND	0.049		mg/Kg	1	3/6/2019 2:40:19 AM	43474
Xylenes,	Total	16	0.99		mg/Kg	10	3/6/2019 1:05:46 PM	43474
Surr: 4	4-Bromofluorobenzene	303	80-120	S	%Rec	1	3/6/2019 2:40:19 AM	43474

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
- Value above quantitation range Е
- Analyte detected below quantitation limits Page 4 of 8 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Client:	Soud	er, Miller & A	ssociate	es							
Project:	Sterli	ng									
Sample ID:	MB-43578	SampT	ype: ME	BLK	Tes	tCode: EF	PA Method	300.0: Anion	s		
Client ID:	PBS	Batch	n ID: 43	578	F	RunNo: <b>58</b>	3228				
Prep Date:	3/8/2019	Analysis D	ate: 3/	8/2019	S	SeqNo: 19	953611	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND	1.5								
Sample ID:	LCS-43578	SampT	ype: LC	S	Tes	tCode: EF	PA Method	300.0: Anion	s		
Client ID:	LCSS	Batch	n ID: 43	578	F	RunNo: <b>58</b>	3228				
Prep Date:	3/8/2019	Analysis D	ate: 3/	8/2019	S	SeqNo: 19	953612	Units: <b>mg/K</b>	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		14	1.5	15.00	0	94.8	90	110			

#### **Qualifiers:**

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

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WO#:	1903070

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Client: Sou Project: Ster	der, Miller & Ass ling	ociate	es							
Sample ID: LCS-43440	SampTyp	be: LC	s	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: LCSS	Batch I	Batch ID: 43440 Run				lo: <b>58110</b>				
Prep Date: 3/1/2019	Analysis Dat	te: 3/	5/2019	S	SeqNo: 1	949927	Units: <b>mg/</b>	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	51	10	50.00	0	102	63.9	124			
Surr: DNOP	4.3		5.000		85.7	70	130			
Sample ID: MB-43440	SampTyp	De: ME	BLK	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: PBS	Batch I	D: <b>43</b>	440	F	RunNo: 5	8110				
Prep Date: 3/1/2019	Analysis Dat	te: 3/	5/2019	S	SeqNo: 1	949928	Units: mg/k	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MR	0) ND	50								
Surr: DNOP	9.8		10.00		98.1	70	130			

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

Client:	Souder, N	filler & A	ssociate	s							
Project:	Sterling										
Sample ID: ME	3-43474	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015D: Gasc	line Rang	e	
Client ID: PB	S	Batcl	h ID: <b>43</b>	474	F	RunNo: 5	8117				
Prep Date: 3/	/4/2019	Analysis D	Date: 3/	5/2019	5	SeqNo: 1	949360	Units: <b>mg/k</b>	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Or	ganics (GRO)	ND	5.0								
Surr: BFB		910		1000		90.7	73.8	119			
Sample ID: LC	S-43474	SampT	ype: LC	S	Tes	tCode: El	PA Method	8015D: Gasc	line Rang	e	
Client ID: LC	SS	Batcl	h ID: 43	474	F	RunNo: 5	8117				
Prep Date: 3/	/4/2019	Analysis D	Date: 3/	5/2019	5	SeqNo: 1	949361	Units: <b>mg/H</b>	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Or	ganics (GRO)	27	5.0	25.00	0	106	80.1	123			
Surr: BFB		1000		1000		104	73.8	119			

#### **Qualifiers:**

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

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Client: Soude Project: Sterli	er, Miller & A ng	ssociate	es							
	8									
Sample ID: MB-43474	Samp <sup>-</sup>	Гуре: МЕ	BLK	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID: PBS	Batc	Batch ID: 43474			RunNo: 5	8117				
Prep Date: 3/4/2019	Analysis [	Date: 3/	5/2019	S	SeqNo: 1	949390	Units: <b>mg/</b> #	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.99		1.000		99.0	80	120			
Sample ID: LCS-43474	Samp	Гуре: LC	S	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID: LCSS	Batc	h ID: 43	474	F	RunNo: 5	8117				
Prep Date: 3/4/2019	Analysis [	Date: 3/	5/2019	5	SeqNo: 1	949391	Units: <b>mg/</b> #	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	103	80	120			
Toluene	1.1	0.050	1.000	0	107	80	120			
Ethylbenzene	1.1	0.050	1.000	0	108	80	120			
Xylenes, Total	3.3	0.10	3.000	0	109	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		102	80	120			

#### **Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
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- 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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HALL ENVIRONMENTAL ANALYSIS LABORATORY	Hall Environment A TEL: 505-345-39 Website: www.	al Analysis Laboratory 4901 Hawkins NE Ibuquergue, NM 87109 75 FAX: 505-345-4107 hallenvironmental.com	San	nple Log-In Check List
Client Name: SMA-CARLSBA	D Work Order Number	er: 1903070		RcptNo: 1
Received By: Desiree Domir Completed By: Isaiah Ortiz Reviewed By: DAD 3/4/	iguez 3/2/2019 9:00:00 AN 3/4/2019 7:51:41 AN / <sup>8</sup> ป	1 <u>1</u>		4
CB: YG 3141	14			
Chain of Custody		_		_
1. Is Chain of Custody complete?		Yes 🗹	No	Not Present
2. How was the sample delivered	?	<u>Courier</u>		
Log In 3. Was an attempt made to cool the	ne samples?	Yes 🔽	No 🗍	
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 inc	licated test(s)?	Yes 🗹	No 🗌	
7. Are samples (except VOA and C	ONG) properly preserved?	Yes 🖌	No 🗌	
8. Was preservative added to bottl	es?	Yes 🗌	No 🗹	NA 🗌
9. VOA vials have zero headspace	?	Yes	No 🗌	No VOA Vials 🗹
10. Were any sample containers re	ceived broken?	Yes 📙	No 🗹	# of preserved YG
11. Does paperwork match bottle la (Note discrepancies on chain of	bels? custody)	Yes 🗹	No 🗆	for pH:
12 Are matrices correctly identified	on Chain of Custody?	Yes 🖌	No 🗌	Adjusted?
13 Is it clear what analyses were re	quested?	Yes 🔽	No 🗆	
14. Were all holding times able to b (If no, notify customer for author	e met? ization.)	Yes 🗹	No 🗀	Checked by:
Special Handling (if applica	<u>ble)</u>			/
15. Was client notified of all discrep	pancies with this order?	Yes 🗌	No 🗌	NA 🗹
Person Notified:	Date:		laisinteen an	
By Whom:	Via:	eMail Phone	e 🗌 Fax	In Person
Regarding:	· · · · · · · · · · · · · · · · · · ·			The second s
Client Instructions:		·····		
16. Additional remarks:				
17. <u>Cooler Information</u> Cooler No Temp % L.C.	Indition Seal Infact Seal No	Seal Date	ied By	
1 0.3 God	d Yes			

NTAL				- Lebort.
<ul> <li>HALL ENVIRONMEN</li> <li>HALL ENVIRONMEN</li> <li>ANALYSIS LABORA</li> <li>ANALYSIS LABORA</li> <li>ANALYSIS LABORA</li> <li>4001 Hawkins NE - Albuquerque, NM 87109</li> <li>Tel. 505-345-3975 Fax 505-345-4107</li> <li>Tel. 505-345-3975 Fax 505-345-4107</li> </ul>	PH:8015D(GRO / DRO / MRO) 081 Pesticides/8082 PCB's DB (Method 504.1) 260 (VOA) 250 (VOA) 270 (Semi-VOA) 270 (Semi-VOA) 270 (Semi-VOA) 270 (Semi-VOA) 270 (Semi-VOA)			rks: N. Any sub-contracted data will be clearly notated on the analytical n
Time: 5 das hun	PeF: Marting CF: 0.7 - 0.3 C (8021) Preservative C HEAL No T-co			Via: Date Time Rema Via: Date Time Coma Courter 3/2/19 9:00 credited laboratories. This serves as notice of this possibili
Turn-Around Standard Project Name Project #:	Project, Mana, tition) Project, Mana, Sampler: fr On Ice: fr Cooler Temp, Cooler Temp,			Received V: Received V: y be subcontracted to other ac
of-Custody Record	□ Level 4 (Full Valide □ Az Compliance □ Other	Soil Salipie Indile		Relinquished by: Relinquished by: Relinquished by: Samples submitted to Hall Environmental ma
Client: SM/ Mailing Address:	email or Fax#: QA/QC Package: Candard Accreditation: Candard Accre	2/18/14/3.18	3:4X	Date: Time: Bate: Time: Bate: Time: 3 1  11 fueessary.



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: <u>www.hallenvironmental.com</u>

March 13, 2019

Heather Patterson Souder, Miller & Associates 201 S Halagueno Carlsbad, NM 88221 TEL: (575) 689-7040 FAX

OrderNo.: 1903207

RE: Sterling

Dear Heather Patterson:

Hall Environmental Analysis Laboratory received 4 sample(s) on 3/6/2019 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 Laboratory, Inc.

Date Reported: 3/13/2019

CLIENT: Souder, Miller & Associates		Cl	ient Sa	ample II	D:CS	51			
<b>Project:</b> Sterling	<b>Collection Date:</b> 3/4/2019 1:00:00 PM								
Lab ID: 1903207-001	Matrix: SOIL	Matrix: SOIL         Received Date: 3/6/2019 9:10:00							
Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch		
EPA METHOD 300.0: ANIONS						Analyst	smb		
Chloride	ND	60		mg/Kg	20	3/11/2019 4:04:36 PM	43603		
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS					Analyst	Irm		
Diesel Range Organics (DRO)	1400	50		mg/Kg	5	3/12/2019 1:35:46 PM	43561		
Motor Oil Range Organics (MRO)	480	250		mg/Kg	5	3/12/2019 1:35:46 PM	43561		
Surr: DNOP	155	70-130	S	%Rec	5	3/12/2019 1:35:46 PM	43561		
EPA METHOD 8015D: GASOLINE RANG	E					Analyst	RAA		
Gasoline Range Organics (GRO)	100	4.7		mg/Kg	1	3/7/2019 9:52:39 AM	43530		
Surr: BFB	780	73.8-119	S	%Rec	1	3/7/2019 9:52:39 AM	43530		
EPA METHOD 8021B: VOLATILES						Analyst	RAA		
Benzene	ND	0.023		mg/Kg	1	3/7/2019 9:52:39 AM	43530		
Toluene	0.35	0.047		mg/Kg	1	3/7/2019 9:52:39 AM	43530		
Ethylbenzene	0.29	0.047		mg/Kg	1	3/7/2019 9:52:39 AM	43530		
Xylenes, Total	3.7	0.093		mg/Kg	1	3/7/2019 9:52:39 AM	43530		
Surr: 4-Bromofluorobenzene	124	80-120	S	%Rec	1	3/7/2019 9:52:39 AM	43530		

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

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 1 of 8
- 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.

Date Reported: 3/13/2019

CLIENT: Souder, Miller & Associates Project: Sterling	Client Sample ID: CS2 Collection Date: 3/4/2019 1:15:00								
Lab ID: 1903207-002	Matrix: SOIL	Matrix: SOIL         Received Date: 3/6/2019 9:10:00 AM							
Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch		
EPA METHOD 300.0: ANIONS						Analyst	smb		
Chloride	ND	60		mg/Kg	20	3/11/2019 5:06:38 PM	43603		
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS					Analyst	: Irm		
Diesel Range Organics (DRO)	2200	97		mg/Kg	10	3/11/2019 5:30:36 PM	43561		
Motor Oil Range Organics (MRO)	770	490		mg/Kg	10	3/11/2019 5:30:36 PM	43561		
Surr: DNOP	0	70-130	S	%Rec	10	3/11/2019 5:30:36 PM	43561		
EPA METHOD 8015D: GASOLINE RANG	E					Analyst	RAA		
Gasoline Range Organics (GRO)	110	4.8		mg/Kg	1	3/7/2019 11:03:03 AM	43530		
Surr: BFB	814	73.8-119	S	%Rec	1	3/7/2019 11:03:03 AM	43530		
EPA METHOD 8021B: VOLATILES						Analyst	RAA		
Benzene	ND	0.024		mg/Kg	1	3/7/2019 11:03:03 AM	43530		
Toluene	0.26	0.048		mg/Kg	1	3/7/2019 11:03:03 AM	43530		
Ethylbenzene	0.40	0.048		mg/Kg	1	3/7/2019 11:03:03 AM	43530		
Xylenes, Total	5.5	0.096		mg/Kg	1	3/7/2019 11:03:03 AM	43530		
Surr: 4-Bromofluorobenzene	126	80-120	S	%Rec	1	3/7/2019 11:03:03 AM	43530		

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

- \* Value exceeds Maximum Contaminant Level.D Sample Diluted Due to Matrix
- D Sample Difuted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 2 of 8
- 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.

Date Reported: 3/13/2019

CLIENT: Souder, Miller & AssociatesClient Sample ID: CS3Project: SterlingCollection Date: 3/4/2019 1							3 /2019 1:30:00 PM			
Lab ID:	1903207-003	Matrix: SOIL         Received Date: 3/6/2019 9:10:00 AM								
Analyses		Result	RL	Qual	Units	DF	Date Analyzed	Batch		
EPA MET	HOD 300.0: ANIONS						Analyst	smb		
Chloride		ND	60		mg/Kg	20	3/11/2019 5:19:03 PM	43603		
EPA MET	HOD 8015M/D: DIESEL RANGE	ORGANICS					Analyst	Irm		
Diesel Ra	ange Organics (DRO)	17000	960		mg/Kg	100	3/11/2019 5:54:52 PM	43561		
Motor Oil	Range Organics (MRO)	6300	4800		mg/Kg	100	3/11/2019 5:54:52 PM	43561		
Surr: E	DNOP	0	70-130	S	%Rec	100	3/11/2019 5:54:52 PM	43561		
EPA MET	HOD 8015D: GASOLINE RANG	E					Analyst	RAA		
Gasoline	Range Organics (GRO)	900	240		mg/Kg	50	3/8/2019 2:10:15 PM	43530		
Surr: E	3FB	194	73.8-119	S	%Rec	50	3/8/2019 2:10:15 PM	43530		
EPA MET	HOD 8021B: VOLATILES						Analyst	RAA		
Benzene		0.18	0.024		mg/Kg	1	3/7/2019 12:13:06 PM	43530		
Toluene		4.7	0.048		mg/Kg	1	3/7/2019 12:13:06 PM	43530		
Ethylben	zene	1.7	0.048		mg/Kg	1	3/7/2019 12:13:06 PM	43530		
Xylenes,	Total	46	4.8		mg/Kg	50	3/8/2019 2:10:15 PM	43530		
Surr: 4	I-Bromofluorobenzene	395	80-120	S	%Rec	1	3/7/2019 12:13:06 PM	43530		

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

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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 3 of 8
- 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.

Date Reported: 3/13/2019

CLIENT: Souder, Miller & Associates Project: Sterling	Client Sample ID: CS4 Collection Date: 3/4/2019 1:45:00 PM								
Lab ID: 1903207-004	Matrix: SOIL	Matrix: SOIL         Received Date: 3/6/2019 9:10:00 //							
Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch		
EPA METHOD 300.0: ANIONS						Analyst	smb		
Chloride	ND	60		mg/Kg	20	3/11/2019 5:31:27 PM	43603		
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS					Analyst	: Irm		
Diesel Range Organics (DRO)	12000	200		mg/Kg	20	3/11/2019 6:19:23 PM	43561		
Motor Oil Range Organics (MRO)	4900	1000		mg/Kg	20	3/11/2019 6:19:23 PM	43561		
Surr: DNOP	0	70-130	S	%Rec	20	3/11/2019 6:19:23 PM	43561		
EPA METHOD 8015D: GASOLINE RANGE	E					Analyst	RAA		
Gasoline Range Organics (GRO)	92	4.7		mg/Kg	1	3/7/2019 1:00:12 PM	43530		
Surr: BFB	681	73.8-119	S	%Rec	1	3/7/2019 1:00:12 PM	43530		
EPA METHOD 8021B: VOLATILES						Analyst	RAA		
Benzene	ND	0.024		mg/Kg	1	3/7/2019 1:00:12 PM	43530		
Toluene	0.34	0.047		mg/Kg	1	3/7/2019 1:00:12 PM	43530		
Ethylbenzene	0.28	0.047		mg/Kg	1	3/7/2019 1:00:12 PM	43530		
Xylenes, Total	4.4	0.094		mg/Kg	1	3/7/2019 1:00:12 PM	43530		
Surr: 4-Bromofluorobenzene	121	80-120	S	%Rec	1	3/7/2019 1:00:12 PM	43530		

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

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

Client: Project:	So Ste	uder, Miller & A rling	ssociate	es							
Sample ID:	MB-43603	SampT	ype: ME	BLK	Tes	tCode: EP	A Method	300.0: Anion	s		
Client ID:	PBS	Batcl	h ID: 43	603	F	RunNo: <b>58</b>	3259				
Prep Date:	3/11/2019	Analysis E	Date: 3/	11/2019	S	SeqNo: 19	54599	Units: <b>mg/K</b>	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND	1.5								
Sample ID:	LCS-43603	SampT	Type: LC	S	Tes	tCode: EP	A Method	300.0: Anion	s		
Client ID:	LCSS	Batcl	h ID: 43	603	F	RunNo: <b>58</b>	3259				
Prep Date:	3/11/2019	Analysis E	Date: 3/	11/2019	5	SeqNo: 19	54600	Units: <b>mg/K</b>	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		14	1.5	15.00	0	95.3	90	110			

#### **Qualifiers:**

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- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
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- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

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Client:	Souder, N	Ailler & As	sociate	es							
Project:	Sterling										
Sample ID: M	B-43561	SampTy	pe: <b>M</b>	BLK	Tes	tCode: El	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: P	BS	Batch	ID: 43	561	F	RunNo: 5	8215		-	-	
Prep Date:	3/7/2019	Analysis Da	ate: 3/	/8/2019	5	SeqNo: 1	952829	Units: <b>mg/K</b>	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Org	anics (DRO)	ND	10								
Motor Oil Range (	Organics (MRO)	ND	50	40.00		440	70	400			
SUIT: DNOP		12		10.00		118	70	130			
Sample ID: L	CS-43561	SampTy	rpe: LC	s	Tes	tCode: El	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: L	CSS	Batch	ID: <b>43</b>	561	F	RunNo: 5	8215				
Prep Date:	3/7/2019	Analysis Da	ate: 3/	/8/2019	S	SeqNo: 1	952877	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Org	anics (DRO)	53	10	50.00	0	107	63.9	124			
Surr: DNOP		5.5		5.000		110	70	130			
Sample ID: L	CS-43624	SampTy	pe: LC	s	Tes	tCode: El	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: L	css	Batch	ID: 43	624	F	RunNo: 5	8283				
Prep Date:	3/12/2019	Analysis Da	ate: 3/	/12/2019	S	SeqNo: 1	955221	Units: %Red	•		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		4.7		5.000		94.7	70	130			
Sample ID: M	B-43624	SampTy	pe: MB	BLK	Tes	tCode: El	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: P	BS	Batch	ID: 43	624	F	RunNo: 5	8283		-	-	
Prep Date:	3/12/2019	Analysis Da	ate: 3/	/12/2019	S	SeqNo: 1	955222	Units: %Red	•		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		10		10.00		104	70	130			
Sample ID: L	CS-43617	SampTy	pe: LC	S	Tes	tCode: El	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: L	CSS	Batch	ID: 43	617	F	RunNo: 5	8283		J	<b>J</b>	
Prep Date:	3/11/2019	Analysis Da	ate: 3/	/12/2019	S	SeqNo: 1	955417	Units: %Red	•		
Analvte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		5.2		5.000		103	70	130			
Sample ID: M	B-43617	SampTv	De: MF	BLK	Tes	tCode: FI	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: P	BS	Batch	ID: 43	617	F	RunNo: 5	8283				
Prep Date:	3/11/2019	Analysis Da	ate: 3/	/12/2019	5	SeqNo: 1	955418	Units: %Red	•		
Analyte		Result	POI	SPK value	SPK Ref Val	%RFC	l owl imit	Highl imit	%RPD	RPDI imit	Qual
Surr: DNOP		11		10.00	e. ititioi vui	109	70	130			200

#### **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
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- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
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Page 6 of 8

WO#: 1903207 13-Mar-19

Client: Project:	Souder, M Sterling	iller & Ass	ociate	es							
Sample ID: LC	S-43530	SampTyp	e: LC	s	Tes	tCode: El	PA Method	8015D: Gasol	ine Rang	e	
Client ID: LC	SS	Batch I	D: <b>43</b>	530	F	RunNo: 5	8169				
Prep Date: 3/	6/2019	Analysis Dat	e: <b>3/</b>	7/2019	S	SeqNo: 1	950867	Units: mg/Kg	J		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Org Surr: BFB	ganics (GRO)	26 1100	5.0	25.00 1000	0	105 107	80.1 73.8	123 119			
Sample ID: MB	-43530	SampTyp	e: Me	BLK	Tes	tCode: El	PA Method	8015D: Gasol	ine Rang	e	
Client ID: PB	s	Batch I	D: <b>43</b>	530	F	RunNo: 5	8169				
Prep Date: 3/	6/2019	Analysis Dat	e: <b>3/</b>	7/2019	S	SeqNo: 1	950899	Units: mg/Kg	J		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Org Surr: BFB	ganics (GRO)	ND 960	5.0	1000		95.6	73.8	119			
Sample ID: LC	S-43554	SampTyp	e: LC	S	Tes	tCode: El	PA Method	8015D: Gasol	ine Rang	e	
Client ID: LC	SS	Batch I	D: <b>43</b>	554	F	RunNo: 5	8206				
Prep Date: 3/	7/2019	Analysis Dat	e: 3/	8/2019	S	SeqNo: 1	952124	Units: %Rec			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB		1100		1000		106	73.8	119			
Sample ID: 190	)3207-001AMS	SampTyp	e: MS	6	Tes	tCode: El	PA Method	8015D: Gasol	ine Rang	e	
Client ID: CS	1	Batch I	D: <b>43</b>	530	F	RunNo: 5	8169				
Prep Date: 3/	6/2019	Analysis Dat	e: <b>3/</b>	7/2019	S	SeqNo: 1	952199	Units: mg/Kg	)		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Or	ganics (GRO)	130	4.9	24.30	103.2	127	69.1	142			_
Surr: BFB		7700		971.8		790	73.8	119			S
Sample ID: 190	)3207-001AMSD	SampTyp	e: MS	SD	Tes	tCode: El	PA Method	8015D: Gasol	ine Rang	e	
Client ID: CS	1	Batch I	D: <b>43</b>	530	F	RunNo: 5	8169				
Prep Date: 3/	6/2019	Analysis Dat	e: <b>3/</b>	7/2019	S	SeqNo: 1	952201	Units: mg/Kg	)		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Or	ganics (GRO)	150	5.0	24.80	103.2	193	69.1	142	12.0	20	S
Surr: BFB		8400		992.1		849	73.8	119	0	0	5
Sample ID: MB	-43554	SampTyp	e: ME	BLK	Tes	tCode: El	PA Method	8015D: Gasol	ine Rang	e	
Client ID: PB	S	Batch I	D: <b>43</b>	554	F	RunNo: 5	8206				
Prep Date: 3/	7/2019	Analysis Dat	e: <b>3/</b>	8/2019	S	SeqNo: 1	952417	Units: %Rec			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB		960		1000		95.8	73.8	119			

#### **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

Page 7 of 8

Souder, Miller & Associates

SampType: LCS

Sterling

Client ID:	LCSS	Batcl	h ID: 43	530	F	RunNo: 5	8169				
Prep Date:	3/6/2019	Analysis D	Date: 3/	7/2019	5	SeqNo: 1	950868	Units: <b>mg/K</b>	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.94	0.025	1.000	0	94.0	80	120			
Toluene		0.98	0.050	1.000	0	98.3	80	120			
Ethylbenzene		0.99	0.050	1.000	0	98.9	80	120			
Xylenes, Total		3.0	0.10	3.000	0	101	80	120			
Surr: 4-Brom	nofluorobenzene	1.0		1.000		99.6	80	120			
Sample ID:	MB-43530	SampT	Гуре: <b>МЕ</b>	BLK	Tes	tCode: El	PA Method	8021B: Volat	tiles		
Client ID:	PBS	Batcl	h ID: 43	530	F	RunNo: 5	8169				
Prep Date:	3/6/2019	Analysis D	Date: 3/	7/2019	S	SeqNo: 1	950900	Units: <b>mg/K</b>	(g		
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	nofluorobenzene	1.0		1.000		102	80	120			
Sample ID:	1903207-002AMS	SampT	Гуре: М	6	Tes	tCode: El	PA Method	8021B: Volat	tiles		
Client ID:	CS2	Batcl	h ID: 43	530	F	RunNo: 5	8169				
Prep Date:	3/6/2019	Analysis D	Date: 3/	7/2019	S	SeqNo: 1	952219	Units: <b>mg/K</b>	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.93	0.023	0.9191	0.01096	99.9	63.9	127			
Toluene		1.3	0.046	0.9191	0.2596	112	69.9	131			
Ethylbenzene		1.4	0.046	0.9191	0.4035	114	71	132			
Xylenes, Total		9.0	0.092	2.757	5.513	127	71.8	131			
Surr: 4-Brom	nofluorobenzene	1.1		0.9191		125	80	120			S
Sample ID:	1903207-002AMSE	<b>)</b> SampT	Гуре: МS	SD	Tes	tCode: El	PA Method	8021B: Volat	tiles		
Client ID:	CS2	Batcl	h ID: <b>43</b>	530	F	RunNo: 5	8169				
Prep Date:	3/6/2019	Analysis D	Date: 3/	7/2019	S	SeqNo: 1	952220	Units: mg/K	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.99	0.024	0.9625	0.01096	101	63.9	127	5.82	20	
Toluene		1.2	0.048	0.9625	0.2596	103	69.9	131	3.34	20	
Ethylbenzene		1.4	0.048	0.9625	0.4035	106	71	132	1.63	20	
Xylenes, Total		7.8	0.096	2.887	5.513	78.7	71.8	131	14.6	20	
Surr: 4-Brom	ofluorobonzono	1 2		0 0625		101	80	120	0	0	6

TestCode: EPA Method 8021B: Volatiles

### **Qualifiers:**

**Client:** 

**Project:** 

Sample ID: LCS-43530

- 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
- Practical Quanitative Limit PQL
- 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
- W Sample container temperature is out of limit as specified

Page 8 of 8



13-Mar-19

HALL ENVIRONMENTAL ANALYSIS LABORATORY	Hall Environmental Albi TEL: 505-345-3975 Website: www.ka	Analysis Labo 4901 Hawki iquerque, NM FAX: 505-345 llenvironmenta	ratory ins NE 87109 <b>Sarr</b> 1-4107 al.com	ple Log-In Check List
Client Name: SMA-CARLSBAD	Work Order Number	1903207		RcptNo: 1
Received By: Isaiah Ortiz	3/6/2019 9:10:00 AM		ILO	$\prec$
Completed By: Victoria Zellar	3/6/2019 9:52:54 AM		Victoria Rel	lar , , , , , , ,
Reviewed By: DAD 3/6/19				Tabella by
Chain of Custody				10 314119
1. Is Chain of Custody complete?		Yes 🗹	No 🗌	Not Present
2. How was the sample delivered?		Courier		
Log In 3. Was an attempt made to cool the samples	,	Yes 🗹	No 🗌	NA 🗆
<ol> <li>Were all samples received at a temperature</li> </ol>	of >0° C to 6.0°C	Yes 🗹	No 🗆	NA 🗆
5. Sample(s) in proper container(s)?		Yes 🗹	No 🗔	
6. Sufficient sample volume for indicated test(	5)?	Yes 🗹	No 🗌	
7. Are samples (except VOA and ONG) prope	rly preserved?	Yes 🔽	No 🗔	
8. Was preservative added to bottles?		Yes 🗌	No 🔽	NA 🗆
9. VOA vials have zero headspace?		Yes 🗆	No 🗌	No VOA Vials 🗹 🗸 🖓
0. Were any sample containers received brok	en?	Yes	No 🔽	# of preserved
1. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes 🗹	No 🗌	for pH: (<2 or >12 yhless noted)
2. Are matrices correctly identified on Chain of	Custody?	Yes 🗹	No 🗆	Adjusted?
3. Is it clear what analyses were requested?		Yes 🗹	No 🗆	
<ol> <li>Were all holding times able to be met? (If no, notify customer for authorization.)</li> </ol>		Yes 🔽	No 🗆	Checked by:
Special Handling (if applicable)				
15. 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:				
16. Additional remarks:				
17. <u>Cooler Information</u> Cooler No Temp °C Condition S	eal Intact   Seal No   S	eal Date	Signed By	
1 1.7 Good Ye	15			

HALL ENVIRONMENTAL ANALYSIS LABORATORY www.hallenvironmental.com 01 Hawkins NE - Albuquerque, NM 87109 el. 505-345-3975 Fax 505-345-4107 Analysis Request	Route       8081 Pesticides/8082 PCB's         EDB (Method 504.1)         EDB (Method 504.1)         ROUTE         ROUTE <t< th=""><th>s: a.r.a.theory</th></t<>	s: a.r.a.theory
	X X X     X ELEX MLBE ( 100 ( 000 )	Remark
Turn-Around Time: Sday Standard Rush Project Name: St-cr lince Project #:	Project Manager: H. Ratherson Sampler: HP Sampler: HP On Ice:  Preservative HEAL No. Type and # Type and # Type (0033007) -003 -004 -004	Received by: Viet Date Time Received by: Viet Date Time Received by: Via: Date Time Contracted to other accredited laboratories. This serves as notice of this
Client: SMA Client: SMA Mailing Address:	mail or Fax#:         email or Fax#:         OA/CC Package:         OA/CC Package:         I Standard       I Level 4 (Full Validation)         Accreditation:       Az Compliance         I NELAC       Other         I EDD (Type)       CS1         Y 110       Soil         Y 111       CS3         Y 112       CS4         Y 113       CS4         Y 113       CS4         Y 114       CS4	Date: Time: Relinquished by: 34.19 3:00 SamonHadWatsen Date: Time: Relinquished by: 51(9 (9 2) 2) 2) 1000000000000000000000000000000000000



## **Analytical Report**

### **Report Summary**

Client: Souder Miller & Associates

Samples Received: 4/5/2019 Job Number: 03117-0014 Work Order: P904017 Project Name/Location: Sterling 1H

Walter Hinkown

Date: 4/8/19

Report Reviewed By:

Walter Hinchman, Laboratory Director



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5796 Highway 64, Farmington, NM 87401

24 Hour Emergency Response Phone (800) 362-1879

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Labadmin@envirotech-inc.com



Souder Miller & Associates	Project Name:	Sterling 1H	
401 W. Broadway	Project Number:	03117-0014	Reported:
Farmington NM, 87401	Project Manager:	Heather Patterson	04/08/19 14:26

### **Analyical Report for Samples**

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
CS1-16.5	P904017-01A	Solid	04/03/19	04/05/19	Glass Jar, 4 oz.
SW4	P904017-02A	Solid	04/03/19	04/05/19	Glass Jar, 4 oz.
CS 1.5-16	P904017-03A	Solid	04/03/19	04/05/19	Glass Jar, 4 oz.

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Souder Miller & Associates	Project Name: Project Number:		Sterl	ing 1H					
401 W. Broadway			03117-0014 Heather Patterson					<b>Reported:</b> 04/08/19 14:26	
Farmington NM, 87401	Projec								
		C	CS1-16.5						
		P9040	17-01 (Se	olid)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by 8260									
Benzene	ND	0.0250	mg/kg	1	1914025	04/05/19	04/07/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	1914025	04/05/19	04/07/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	1914025	04/05/19	04/07/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	1914025	04/05/19	04/07/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	1914025	04/05/19	04/07/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	1914025	04/05/19	04/07/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130		1914025	04/05/19	04/07/19	EPA 8260B	
Surrogate: Toluene-d8		97.7 %	70-130		1914025	04/05/19	04/07/19	EPA 8260B	
Surrogate: Bromofluorobenzene		99.1 %	70-130		1914025	04/05/19	04/07/19	EPA 8260B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1914025	04/05/19	04/07/19	EPA 8015D	
Diesel Range Organics (C10-C28)	392	25.0	mg/kg	1	1914026	04/05/19	04/05/19	EPA 8015D	
Oil Range Organics (C28-C40)	171	50.0	mg/kg	1	1914026	04/05/19	04/05/19	EPA 8015D	
Surrogate: n-Nonane		102 %	50	-200	1914026	04/05/19	04/05/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		101 %	70	-130	1914025	04/05/19	04/07/19	EPA 8015D	
Surrogate: Toluene-d8		97.7 %	70	-130	1914025	04/05/19	04/07/19	EPA 8015D	
Surrogate: Bromofluorobenzene		99.1 %	70	-130	1914025	04/05/19	04/07/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	1914028	04/05/19	04/05/19	EPA 300.0/9056A	

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Souder Miller & Associates	Projec	t Name:	Sterl	ing 1H					
401 W. Broadway	Projec	t Number:	0311	7-0014				Reported:	
Farmington NM, 87401	Projec	t Manager:	Heat	her Pattersor	ı			04/08/19 14:	26
			SW4						
		P9040	17-02 (Se	olid)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by 8260									
Benzene	ND	0.0250	mg/kg	1	1914025	04/05/19	04/07/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	1914025	04/05/19	04/07/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	1914025	04/05/19	04/07/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	1914025	04/05/19	04/07/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	1914025	04/05/19	04/07/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	1914025	04/05/19	04/07/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		95.0 %	70	-130	1914025	04/05/19	04/07/19	EPA 8260B	
Surrogate: Toluene-d8		101 %	70	-130	1914025	04/05/19	04/07/19	EPA 8260B	
Surrogate: Bromofluorobenzene		97.3 %	70	-130	1914025	04/05/19	04/07/19	EPA 8260B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1914025	04/05/19	04/07/19	EPA 8015D	
Diesel Range Organics (C10-C28)	76.8	25.0	mg/kg	1	1914026	04/05/19	04/05/19	EPA 8015D	
Oil Range Organics (C28-C40)	63.5	50.0	mg/kg	1	1914026	04/05/19	04/05/19	EPA 8015D	
Surrogate: n-Nonane		<i>93</i> .7 %	50	-200	1914026	04/05/19	04/05/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		95.0 %	70	-130	1914025	04/05/19	04/07/19	EPA 8015D	
Surrogate: Toluene-d8		101 %	70	-130	1914025	04/05/19	04/07/19	EPA 8015D	
Surrogate: Bromofluorobenzene		97.3 %	70	-130	1914025	04/05/19	04/07/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	1914028	04/05/19	04/05/19	EPA 300.0/9056A	

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Souder Miller & Associates	Projec	t Name:	Sterl	ing 1H								
401 W. Broadway	Projec	t Number:	0311	7-0014				<b>Reported:</b>				
Farmington NM, 87401	Projec	t Manager:	Heat	Heather Patterson				04/08/19 14:26				
	CS 1.5-16											
		P9040	17-03 (Se	olid)								
		Reporting										
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes			
Volatile Organic Compounds by 8260												
Benzene	ND	0.0250	mg/kg	1	1914025	04/05/19	04/07/19	EPA 8260B				
Toluene	ND	0.0250	mg/kg	1	1914025	04/05/19	04/07/19	EPA 8260B				
Ethylbenzene	ND	0.0250	mg/kg	1	1914025	04/05/19	04/07/19	EPA 8260B				
p,m-Xylene	ND	0.0500	mg/kg	1	1914025	04/05/19	04/07/19	EPA 8260B				
o-Xylene	ND	0.0250	mg/kg	1	1914025	04/05/19	04/07/19	EPA 8260B				
Total Xylenes	ND	0.0250	mg/kg	1	1914025	04/05/19	04/07/19	EPA 8260B				
Surrogate: 1,2-Dichloroethane-d4		97.5 %	70	-130	1914025	04/05/19	04/07/19	EPA 8260B				
Surrogate: Toluene-d8		99.3 %	70	-130	1914025	04/05/19	04/07/19	EPA 8260B				
Surrogate: Bromofluorobenzene		97.1 %	70	-130	1914025	04/05/19	04/07/19	EPA 8260B				
Nonhalogenated Organics by 8015												
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1914025	04/05/19	04/07/19	EPA 8015D				
Diesel Range Organics (C10-C28)	33.5	25.0	mg/kg	1	1914026	04/05/19	04/05/19	EPA 8015D				
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1914026	04/05/19	04/05/19	EPA 8015D				
Surrogate: n-Nonane		88.5 %	50	-200	1914026	04/05/19	04/05/19	EPA 8015D				
Surrogate: 1,2-Dichloroethane-d4		97.5 %	70	-130	1914025	04/05/19	04/07/19	EPA 8015D				
Surrogate: Toluene-d8		99.3 %	70	-130	1914025	04/05/19	04/07/19	EPA 8015D				
Surrogate: Bromofluorobenzene		97.1 %	70	-130	1914025	04/05/19	04/07/19	EPA 8015D				
Anions by 300.0/9056A												
Chloride	ND	20.0	mg/kg	1	1914028	04/05/19	04/05/19	EPA 300.0/9056A				

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Souder Miller & Associates	Project Name:	Sterling 1H	
401 W. Broadway	Project Number:	03117-0014	Reported:
Farmington NM, 87401	Project Manager:	Heather Patterson	04/08/19 14:26

### Volatile Organic Compounds by 8260 - Quality Control

### Envirotech Analytical Laboratory

		Reporting		Snike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1914025 - Purge and Tran FPA 5030A										
Datti 1714025 - Luigt and Hap El A 5050A				Droparad: (	04/05/10 1 4	naluzadi ()	4/07/10 1			
Benzene	ND	0.0250	mg/kg	riepaieu. (	<b>J4</b> /0 <i>3</i> /191 <i>P</i>	maryzeu. 0	4/07/191			
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250								
n.m-Xvlene	ND	0.0500								
o-Xvlene	ND	0.0250	"							
Total Xylenes	ND	0.0250	"							
Surrogate: 1.2-Dichloroethane-d4	0.484		"	0.500		96.7	70-130			
Surrogate: Toluene-d8	0.496		"	0.500		99.1	70-130			
Surrogate: Bromofluorobenzene	0.480		"	0.500		96.0	70-130			
LCS (1914025-BS1)				Prepared: (	04/05/19 1 A	analyzed: 0	4/07/19 1			
Benzene	2.43	0.0250	mg/kg	2.50		97.2	70-130			
Toluene	2.41	0.0250	"	2.50		96.4	70-130			
Ethylbenzene	2.38	0.0250	"	2.50		95.2	70-130			
p,m-Xylene	4.67	0.0500	"	5.00		93.3	70-130			
o-Xylene	2.30	0.0250	"	2.50		92.2	70-130			
Total Xylenes	6.97	0.0250	"	7.50		92.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.484		"	0.500		96.8	70-130			
Surrogate: Toluene-d8	0.503		"	0.500		101	70-130			
Surrogate: Bromofluorobenzene	0.494		"	0.500		98.8	70-130			
Matrix Spike (1914025-MS1)	Sou	ırce: P904017-	·01	Prepared: 04/05/19 1 Analyzed: 04/07/19 1						
Benzene	2.41	0.0250	mg/kg	2.50	ND	96.3	48-131			
Toluene	2.32	0.0250	"	2.50	ND	92.7	48-130			
Ethylbenzene	2.30	0.0250	"	2.50	ND	92.0	45-135			
p,m-Xylene	4.50	0.0500	"	5.00	ND	90.0	43-135			
o-Xylene	2.24	0.0250	"	2.50	ND	89.5	43-135			
Total Xylenes	6.74	0.0250	"	7.50	ND	89.9	43-135			
Surrogate: 1,2-Dichloroethane-d4	0.487		"	0.500		97.4	70-130			
Surrogate: Toluene-d8	0.489		"	0.500		97.8	70-130			
Surrogate: Bromofluorobenzene	0.488		"	0.500		97.5	70-130			
Matrix Spike Dup (1914025-MSD1)	Sou	ırce: P904017-	-01	Prepared: (	04/05/19 1 A	analyzed: 0	4/07/19 1			
Benzene	2.51	0.0250	mg/kg	2.50	ND	100	48-131	4.01	23	
Toluene	2.46	0.0250	"	2.50	ND	98.3	48-130	5.93	24	
Ethylbenzene	2.45	0.0250	"	2.50	ND	98.1	45-135	6.33	27	
p,m-Xylene	4.78	0.0500	"	5.00	ND	95.6	43-135	5.96	27	
o-Xylene	2.39	0.0250	"	2.50	ND	95.7	43-135	6.72	27	
Total Xylenes	7.17	0.0250	"	7.50	ND	95.6	43-135	6.21	27	
Surrogate: 1,2-Dichloroethane-d4	0.507		"	0.500		101	70-130			
Surrogate: Toluene-d8	0.504		"	0.500		101	70-130			

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5796 Highway 64, Farmington, NM 87401

Ph (505) 632-0615 Fx (505) 632-1865



Souder Miller & Associates	Project Name:	Sterling 1H	
401 W. Broadway	Project Number:	03117-0014	Reported:
Farmington NM, 87401	Project Manager:	Heather Patterson	04/08/19 14:26

#### Volatile Organic Compounds by 8260 - Quality Control

### **Envirotech Analytical Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1914025 - Purge and Trap EPA 5030A										
Matrix Spike Dup (1914025-MSD1)	Sou	rce: P904017-01	l	Prepared: (	04/05/19 1 A	Analyzed: 0	4/07/19 1			
Surrogate: Bromofluorobenzene	0.511		mg/kg	0.500		102	70-130			

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Souder Miller & Associates	Project Name:	Sterling 1H	
401 W. Broadway	Project Number:	03117-0014	Reported:
Farmington NM, 87401	Project Manager:	Heather Patterson	04/08/19 14:26

#### Nonhalogenated Organics by 8015 - Quality Control

#### **Envirotech Analytical Laboratory** Reporting Spike %REC RPD Source Analyte Result Limit Units Level Result %REC Limits RPD Limit Notes Batch 1914025 - Purge and Trap EPA 5030A Blank (1914025-BLK1) Prepared: 04/05/19 1 Analyzed: 04/07/19 1 Gasoline Range Organics (C6-C10) ND 20.0 mg/kg Surrogate: 1,2-Dichloroethane-d4 0.484 " 0.500 96.7 70-130 ,, 0.496 0.500 99.1 70-130 Surrogate: Toluene-d8 Surrogate: Bromofluorobenzene 0.480 0.500 96.0 70-130 LCS (1914025-BS2) Prepared: 04/05/19 1 Analyzed: 04/07/19 1 Gasoline Range Organics (C6-C10) 47.1 20.0 50.0 94.2 70-130 mg/kg Surrogate: 1,2-Dichloroethane-d4 0.486 " 0.500 97.1 70-130 Surrogate: Toluene-d8 0.501 0.500 100 70-130 Surrogate: Bromofluorobenzene 0.496 0.500 99.1 70-130 Matrix Spike (1914025-MS2) Source: P904017-01 Prepared: 04/05/19 1 Analyzed: 04/07/19 1 Gasoline Range Organics (C6-C10) 52.7 20.0 mg/kg 50.0 ND 105 70-130 Surrogate: 1,2-Dichloroethane-d4 0.484 " 0.500 96.8 70-130 0.495 " 0.500 99.0 70-130 Surrogate: Toluene-d8 0.500 ,, Surrogate: Bromofluorobenzene 0.500 99.9 70-130 Matrix Spike Dup (1914025-MSD2) Source: P904017-01 Prepared: 04/05/19 1 Analyzed: 04/07/19 1 Gasoline Range Organics (C6-C10) 50.5 20.0 50.0 ND 101 70-130 4.39 20 mg/kg " Surrogate: 1,2-Dichloroethane-d4 0.475 0.500 94.9 70-130 0.498 0.500 99.5 70-130 Surrogate: Toluene-d8 Surrogate: Bromofluorobenzene 0.496 0.500 99.1 70-130

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Souder Miller & Associates	Project Name:	Sterling 1H	
401 W. Broadway	Project Number:	03117-0014	Reported:
Farmington NM, 87401	Project Manager:	Heather Patterson	04/08/19 14:26

### Nonhalogenated Organics by 8015 - Quality Control

### **Envirotech Analytical Laboratory**

Analyte	Decult	Reporting	Unita	Spike	Source	% DEC	%REC	DDD	RPD Limit	Notos
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Inotes
Batch 1914026 - DRO Extraction EPA 3570										
Blank (1914026-BLK1)				Prepared &	Analyzed:	04/05/19 1				
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0								
Surrogate: n-Nonane	55.5		"	50.0		111	50-200			
LCS (1914026-BS1)				Prepared &	z Analyzed:	04/05/19 1				
Diesel Range Organics (C10-C28)	505	25.0	mg/kg	500		101	38-132			
Surrogate: n-Nonane	47.7		"	50.0		95.5	50-200			
Matrix Spike (1914026-MS1)	Sou	rce: P904017-(	01	Prepared: (	04/05/19 1 A	Analyzed: 0	4/05/19 2			
Diesel Range Organics (C10-C28)	882	25.0	mg/kg	500	392	98.0	38-132			
Surrogate: n-Nonane	49.0		"	50.0		97.9	50-200			
Matrix Spike Dup (1914026-MSD1)	Sou	rce: P904017-	01	Prepared: (	04/05/19_1_	Analyzed: 0	4/05/19 2			
Diesel Range Organics (C10-C28)	899	25.0	mg/kg	500	392	101	38-132	1.93	20	
Surrogate: n-Nonane	48.9		"	50.0		97.9	50-200			

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5796 Highway 64, Farmington, NM 87401



Souder Miller & Associates	Project Name:	Sterling 1H	
401 W. Broadway	Project Number:	03117-0014	Reported:
Farmington NM, 87401	Project Manager:	Heather Patterson	04/08/19 14:26

### Anions by 300.0/9056A - Quality Control

### **Envirotech Analytical Laboratory**

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1914028 - Anion Extraction EPA 30	)0.0/9056A									
Blank (1914028-BLK1)					Prepared & Analyzed: 04/05/19 1					
Chloride	ND	20.0	mg/kg							
LCS (1914028-BS1)				Prepared &	Analyzed:	04/05/19 1				
Chloride	254	20.0	mg/kg	250		102	90-110			
Matrix Spike (1914028-MS1)	Sour	ce: P904017-	02	Prepared: (	04/05/19 1	Analyzed: 0	4/05/19 2			
Chloride	261	20.0	mg/kg	250	ND	104	80-120			
Matrix Spike Dup (1914028-MSD1)	Sour	ce: P904017-	02	Prepared: (	04/05/19 1	Analyzed: 0	04/05/19 2			
Chloride	267	20.0	mg/kg	250	ND	107	80-120	2.42	20	

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Souder Miller & Associates	Project Name:	Sterling 1H	
401 W. Broadway	Project Number:	03117-0014	Reported:
Farmington NM, 87401	Project Manager:	Heather Patterson	04/08/19 14:26

#### **Notes and Definitions**

DET Analyte I	DETECTED
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- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- \*\* Methods marked with \*\* are non-accredited methods.

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envirotech-inc.com

Labadmin@envirotech-inc.com

24 Hour Emergency Response Phone (800) 362-1879

Project	Informat	tion					Ch	ain of Cu	stody				_			_		6	elle.	Pa	ge	of
Client:	SW.	A	. 17				Report Atte	ention		1.2		La	b Us	e On	ly			TA	T	E	A Progra	am
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Addition	nal Instru	ctions:	Note:	. Maro	the,	n																
(field sample	er), attest to t	he validity an	d authenticity	of this sample. I ar	n aware that	tampering w	ith or intentionally m	nislabelling the	sample location	, date (	or	1	,	Samples received	i requiri I packed	ing thern d in ice a	nal prese t an avg	ervation temp at	must be bave 0 b	received on lout less than 6	e the day they a C on subsequen	are sam it days.
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ample Mat	rix: S - Soil,	Sd - Solid, S	g - Sludge, A	- Aqueous, O - C	ther	TKI	mur oral	0	Containe	r Typ	e: g -	glass	5, p -	poly/	plas	tic, ag	g - am	nber	- glass	, v - VOA		
Note: Sampl	les are disca	rded 30 day	/s after resul	ts are reported u	nless other	r arrangeme	ents are made. Ha	zardod sam	ples will be re	turne	d to cli	ient or	dispo	sed of	at the	e client	exper	nse. T	he rep	oort for the	analysis of t	the al
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-	sen	VII	rot	ech			5796 US Highway 64,	Farmington, NM 8	7401				Ph (50	(5) 632-0	615 Fx	x (505) 63	2-1865					envitote
		Analyt	ical La	boratory			Three Springs - 65 Me	rcado Street Sulte	115. Duranco. CO 8	1301			Ph (97	01 259-0	615 Fr	(800) 36	2-1879				laboratory	nvioid



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

April 16, 2019

Heather Patterson Souder, Miller & Associates 201 S Halagueno Carlsbad, NM 88221 TEL: (575) 689-7040 FAX

RE: Sterling 1H

OrderNo.: 1904566

Dear Heather Patterson:

Hall Environmental Analysis Laboratory received 5 sample(s) on 4/10/2019 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 www.hallenvironmental.com 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 Laboratory, Inc.

Date Reported: 4/16/2019

CLIENT: Souder, Miller & Associates	Client Sample ID: C2-5											
<b>Project:</b> Sterling 1H		(	Collection Dat	e: 4/5	5/2019 1:38:00 PM							
Lab ID: 1904566-001	Matrix: SOIL	Matrix: SOIL Received Date: 4/10/2019 10:07:00 AM										
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch						
EPA METHOD 300.0: ANIONS					Analyst	smb						
Chloride	74	60	mg/Kg	20	4/15/2019 2:13:22 PM	44331						
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS				Analyst	: Irm						
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	4/15/2019 12:11:02 PM	44321						
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	4/15/2019 12:11:02 PM	44321						
Surr: DNOP	94.9	70-130	%Rec	1	4/15/2019 12:11:02 PM	44321						
EPA METHOD 8015D: GASOLINE RANG	E				Analyst	: NSB						
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	4/14/2019 9:02:35 PM	44274						
Surr: BFB	90.4	73.8-119	%Rec	1	4/14/2019 9:02:35 PM	44274						
EPA METHOD 8021B: VOLATILES					Analyst	: NSB						
Benzene	ND	0.023	mg/Kg	1	4/14/2019 9:02:35 PM	44274						
Toluene	ND	0.047	mg/Kg	1	4/14/2019 9:02:35 PM	44274						
Ethylbenzene	ND	0.047	mg/Kg	1	4/14/2019 9:02:35 PM	44274						
Xylenes, Total	ND	0.093	mg/Kg	1	4/14/2019 9:02:35 PM	44274						
Surr: 4-Bromofluorobenzene	90.0	80-120	%Rec	1	4/14/2019 9:02:35 PM	44274						

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

\* Qualifiers: Value exceeds Maximum Contaminant Level.

- H Holding times for preparation or analysis exceeded
- PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix Е Value above quantitation range

- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit W

Reporting Detection Limit Sample container temperature is out of limit as specified at testcode Page 1 of 9

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 4/16/2019

CLIENT: Souder, Miller & Associates		Cl	ient Sample II	<b>):</b> C3	3-3				
Project: Sterling 1H		(	Collection Dat	e: 4/9	0/2019 4:30:00 PM				
Lab ID: 1904566-002	Matrix: SOIL Received Date: 4/10/2019 10:07:00 AM								
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch			
EPA METHOD 300.0: ANIONS					Analyst	: smb			
Chloride	ND	60	mg/Kg	20	4/15/2019 2:50:35 PM	44331			
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	: Irm			
Diesel Range Organics (DRO)	35	9.4	mg/Kg	1	4/15/2019 1:17:45 PM	44321			
Motor Oil Range Organics (MRO)	60	47	mg/Kg	1	4/15/2019 1:17:45 PM	44321			
Surr: DNOP	103	70-130	%Rec	1	4/15/2019 1:17:45 PM	44321			
EPA METHOD 8015D: GASOLINE RANGI	E				Analyst	: NSB			
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	4/14/2019 9:26:04 PM	44274			
Surr: BFB	91.6	73.8-119	%Rec	1	4/14/2019 9:26:04 PM	44274			
EPA METHOD 8021B: VOLATILES					Analyst	: NSB			
Benzene	ND	0.024	mg/Kg	1	4/14/2019 9:26:04 PM	44274			
Toluene	ND	0.047	mg/Kg	1	4/14/2019 9:26:04 PM	44274			
Ethylbenzene	ND	0.047	mg/Kg	1	4/14/2019 9:26:04 PM	44274			
Xylenes, Total	ND	0.095	mg/Kg	1	4/14/2019 9:26:04 PM	44274			
Surr: 4-Bromofluorobenzene	91.2	80-120	%Rec	1	4/14/2019 9:26:04 PM	44274			

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

\* Qualifiers: Value exceeds Maximum Contaminant Level.

- H Holding times for preparation or analysis exceeded
- PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix Е Value above quantitation range

- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit W

Reporting Detection Limit Sample container temperature is out of limit as specified at testcode Page 2 of 9

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 4/16/2019

CLIENT:	Souder, Miller & Associates		Cl	ient Sample II	<b>):</b> C4	I-3	
Project:	Sterling 1H		(	Collection Dat	e: 4/9	9/2019 4:45:00 PM	
Lab ID:	1904566-003	Matrix: SOIL		<b>Received Dat</b>	e: 4/1	10/2019 10:07:00 AM	
Analyses		Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA MET	HOD 300.0: ANIONS					Analyst	: smb
Chloride		ND	60	mg/Kg	20	4/15/2019 3:27:49 PM	44331
EPA MET	HOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	: Irm
Diesel Ra	ange Organics (DRO)	240	9.9	mg/Kg	1	4/15/2019 1:39:48 PM	44321
Motor Oil	Range Organics (MRO)	180	49	mg/Kg	1	4/15/2019 1:39:48 PM	44321
Surr: D	DNOP	104	70-130	%Rec	1	4/15/2019 1:39:48 PM	44321
EPA MET	HOD 8015D: GASOLINE RANG	E				Analyst	: NSB
Gasoline	Range Organics (GRO)	ND	5.0	mg/Kg	1	4/14/2019 9:49:33 PM	44274
Surr: E	3FB	90.8	73.8-119	%Rec	1	4/14/2019 9:49:33 PM	44274
EPA MET	HOD 8021B: VOLATILES					Analyst	: NSB
Benzene		ND	0.025	mg/Kg	1	4/14/2019 9:49:33 PM	44274
Toluene		ND	0.050	mg/Kg	1	4/14/2019 9:49:33 PM	44274
Ethylbenz	zene	ND	0.050	mg/Kg	1	4/14/2019 9:49:33 PM	44274
Xylenes,	Total	ND	0.10	mg/Kg	1	4/14/2019 9:49:33 PM	44274
Surr: 4	I-Bromofluorobenzene	90.4	80-120	%Rec	1	4/14/2019 9:49:33 PM	44274

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

\* Qualifiers: Value exceeds Maximum Contaminant Level.

- H Holding times for preparation or analysis exceeded
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- Е Value above quantitation range
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit
- Reporting Detection Limit Sample container temperature is out of limit as specified at testcode Page 3 of 9 W

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 4/16/2019

CLIENT: Souder, Miller & Associates		Cl	ient Sample II	<b>D:</b> C1	-17	
Project: Sterling IH		(	Collection Dat	e: 4/1	10/2019 8:31:00 AM	
Lab ID: 1904566-004	Matrix: SOIL		<b>Received Dat</b>	<b>e:</b> 4/1	10/2019 10:07:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: smb
Chloride	73	60	mg/Kg	20	4/15/2019 3:40:13 PM	44331
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analys	t: Irm
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	4/15/2019 2:02:15 PM	44321
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	4/15/2019 2:02:15 PM	44321
Surr: DNOP	85.6	70-130	%Rec	1	4/15/2019 2:02:15 PM	44321
EPA METHOD 8015D: GASOLINE RANG	E				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	4/14/2019 10:13:02 PM	1 44274
Surr: BFB	89.8	73.8-119	%Rec	1	4/14/2019 10:13:02 PM	44274
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.025	mg/Kg	1	4/14/2019 10:13:02 PM	1 44274
Toluene	ND	0.049	mg/Kg	1	4/14/2019 10:13:02 PM	44274
Ethylbenzene	ND	0.049	mg/Kg	1	4/14/2019 10:13:02 PM	44274
Xylenes, Total	ND	0.099	mg/Kg	1	4/14/2019 10:13:02 PM	1 44274
Surr: 4-Bromofluorobenzene	89.2	80-120	%Rec	1	4/14/2019 10:13:02 PM	1 44274

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

\* Qualifiers: Value exceeds Maximum Contaminant Level.

- H Holding times for preparation or analysis exceeded
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- Е Value above quantitation range
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit W
  - Reporting Detection Limit Sample container temperature is out of limit as specified at testcode Page 4 of 9

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 4/16/2019

CLIENT: Souder, Miller & Associates Project: Sterling 1H Leb ID: 1004566 005	Client Sample ID: C1B-17 Collection Date: 4/10/2019 8:43:00 AM Matrix: SOIL Beceived Date: 4/10/2019 10:07:00 AM										
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch					
EPA METHOD 300.0: ANIONS					Analyst	smb					
Chloride	ND	60	mg/Kg	20	4/15/2019 3:52:38 PM	44331					
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	: Irm					
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	4/15/2019 2:24:18 PM	44321					
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	4/15/2019 2:24:18 PM	44321					
Surr: DNOP	71.0	70-130	%Rec	1	4/15/2019 2:24:18 PM	44321					
EPA METHOD 8015D: GASOLINE RANG	E				Analyst	NSB					
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	4/14/2019 10:36:27 PM	44274					
Surr: BFB	92.4	73.8-119	%Rec	1	4/14/2019 10:36:27 PM	44274					
EPA METHOD 8021B: VOLATILES					Analyst	NSB					
Benzene	ND	0.025	mg/Kg	1	4/14/2019 10:36:27 PM	44274					
Toluene	ND	0.050	mg/Kg	1	4/14/2019 10:36:27 PM	44274					
Ethylbenzene	ND	0.050	mg/Kg	1	4/14/2019 10:36:27 PM	44274					
Xylenes, Total	ND	0.10	mg/Kg	1	4/14/2019 10:36:27 PM	44274					
Surr: 4-Bromofluorobenzene	92.5	80-120	%Rec	1	4/14/2019 10:36:27 PM	44274					

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

\* Qualifiers: Value exceeds Maximum Contaminant Level.

- H Holding times for preparation or analysis exceeded
- PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

- Е Value above quantitation range
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit W

Reporting Detection Limit Sample container temperature is out of limit as specified at testcode Page 5 of 9

# QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client: Project:	Souder, N Sterling 1	/liller & A H											
Sample ID: MB-	nple ID: MB-44331 SampType: MBLK					TestCode: EPA Method 300.0: Anions							
Client ID: PBS	D: <b>PBS</b> Batch ID: <b>44331</b>					RunNo: <b>59168</b>							
Prep Date: 4/1	5/2019	Analysis D	ate: 4	/15/2019	S	SeqNo: 1	992101	Units: <b>mg/Kg</b>					
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Chloride		ND	1.5										
Sample ID: LCS	6-44331	SampT	ype: LC	s	Tes	tCode: EF	PA Method	300.0: Anion	S				
Client ID: LCS	S	Batch	n ID: 44	331	F	RunNo: 59	9168						
Prep Date: 4/1	5/2019	Analysis D	ate: 4/	/15/2019	5	SeqNo: 19	992102	Units: <b>mg/#</b>	٢g				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Chloride		14	1.5	15.00	0	91.7	90	110					

#### **Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- H Holding times for preparation or analysis exceeded
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- E Value above quantitation range
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified at testcode

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WO#: **1904566** *16-Apr-19* 

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

Result

ND

ND

9.2

PQL

10

50

10.00

Souder Sterlin	r, Miller & As g 1H	sociate	es								
321	SampTy	/pe: <b>LC</b>	S	Tes	tCode: El	PA Method	8015M/D: Die	esel Range	e Organics		
	Batch	ID: 44	321	F							
019	Analysis Da	Analysis Date: 4/15/2019			SeqNo: 1	991064	Units: <b>mg/Kg</b>				
	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
RO)	49	10	50.00	0	98.4	63.9	124				
	4.3		5.000		85.4	70	130				
21	SampTy	/pe: <b>ME</b>	BLK	K TestCode: EPA Method 8015M/D: Diesel Range Organics							
	Batch	ID: 44	321	RunNo: <b>59146</b>							
19	Analysis Date: 4/15/2019			SeqNo: 1991065			Units: <b>mg/K</b>	٤g			

HighLimit

130

70

%RPD

RPDLimit

Sample ID: 1904566-001AMS	Samp	SampType: <b>MS</b>			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: C2-5	Batc	Batch ID: 44321			RunNo: 5						
Prep Date: 4/12/2019	Analysis [	Date: 4/	15/2019	S	SeqNo: 1	991201	Units: <b>mg/ł</b>	٢g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	49	9.7	48.50	8.023	85.2	53.5	126				
Surr: DNOP	4.5		4.850		92.8	70	130				
Sample ID: 1904566-001AMSE	Samp	Гуре: М	SD	Tes	tCode: El	PA Method	8015M/D: Di	esel Range	e Organics		
Client ID: C2-5	Batc	h ID: 44	321	F	RunNo: 5	9146					
Prep Date: 4/12/2019	Analysis [	Date: 4/	15/2019	S	SeqNo: 1	991202	Units: <b>mg/ł</b>	٢g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	53	9.8	49.02	8.023	92.4	53.5	126	7.74	21.7		
	11		4 002		99 0	70	130	0	0		

SPK value SPK Ref Val %REC LowLimit

92.1

#### Qualifiers:

**Client:** 

**Project:** 

Analyte

Analyte

Surr: DNOP

Surr: DNOP

Sample ID: LCS-44321 Client ID: LCSS Prep Date: 4/12/2019

Diesel Range Organics (DRO)

Sample ID: MB-44321 Client ID: PBS Prep Date: 4/12/2019

Diesel Range Organics (DRO)

Motor Oil Range Organics (MRO)

- Value exceeds Maximum Contaminant Level. \*
- Н Holding times for preparation or analysis exceeded
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

- Е Value above quantitation range
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified at testcode

Qual

WO#: 1904566

Client:SouProject:Ste	ıder, Miller & Asso rling 1H	ciates										
Sample ID: MB-44274 SampType: MBLK				Tes	TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	BS Batch ID: 44274			RunNo: <b>59134</b>								
Prep Date: 4/10/2019	Analysis Date	: 4/14/2	2019	S	eqNo: 1	990660	Units: mg/K	g				
Analyte	Result F	PQL SF	PK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Gasoline Range Organics (GR	.0) ND	5.0										
Surr: BFB	940		1000		93.7	73.8	119					
Sample ID: LCS-44274	SampType	E: LCS		Test	tCode: El	PA Method	8015D: Gaso	line Rang	e			
Client ID: LCSS	Batch ID	: 44274		R	unNo: 5	9134						
Prep Date: 4/10/2019	Analysis Date	: 4/14/2	2019	S	eqNo: 1	990661	Units: mg/K	g				
Analyte	Result F	PQL SF	PK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Gasoline Range Organics (GR	.0) 26	5.0	25.00	0	103	80.1	123					
Surr: BFB	1100		1000		107	73.8	119					

Qualifiers:

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- H Holding times for preparation or analysis exceeded
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- E Value above quantitation range
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified at testcode

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# QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

WO#:	1904566

16-Apr-19

Client: Souder	nt: Souder, Miller & Associates													
roject: Sterling 1H														
Sample ID: MB-44274	TestCode: EPA Method 8021B: Volatiles													
Client ID: PBS	274	RunNo: <b>59134</b>												
Prep Date: 4/10/2019	Analysis E	Date: 4/	14/2019	5	SeqNo: 1	990691	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual				
Benzene	ND	0.025												
Toluene	ND	0.050												
Ethylbenzene	ND	0.050												
Xylenes, Total	ND	0.10												
Surr: 4-Bromofluorobenzene	0.93		1.000		92.6	80	120							
Sample ID: LCS-44274	SampT	Type: LC	S	Tes	tCode: El									
Client ID: LCSS	Batc	h ID: 44	274	F	RunNo: 5	9134								
Prep Date: 4/10/2019	Analysis E	Date: 4/	14/2019	5	SeqNo: 1	990692	Units: mg/k	٤g						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual				
Benzene	0.90	0.025	1.000	0	89.7	80	120							
Toluene	0.94	0.050	1.000	0	94.3	80	120							
Ethylbenzene	0.94	1.000	0	94.1	80	120								
Xylenes, Total	nes, Total 2.9 0.10 3.000						120							
Surr: 4-Bromofluorobenzene	0.93		1.000		92.5	80	120							

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- H Holding times for preparation or analysis exceeded
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- E Value above quantitation range
- ND Not Detected at the Reporting Limit
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- W Sample container temperature is out of limit as specified at testcode

HALL ENVIRONMENTAL ANALYSIS LABORATORY	Hall Environmen TEL: 505-345-3 Website: www	ntal Analysis Labor 4901 Hawkin Albuquerque, NM 8 975 FAX: 505-345- v.hallenvironmenta	atory 18 NE 17109 <b>San</b> 1.com	Sample Log-In Check List								
Client Name: SMA-CARLSBAD	Work Order Num	ber: 1904566		RcptNo:	1							
Received By: Erin Melendrez	4/10/2019 10:07:00	AM	int	7								
Completed By: Yazmine Garduno	4/10/2019 11:33:40	AM	Alequine liftedante									
Reviewed By: YG 4110111												
1B. JC 4-19-1	9											
Chain of Custody												
1. Is Chain of Custody complete?		Yes 🗹	No 🗌	Not Present								
2. How was the sample delivered?		Courier										
3. Was an attempt made to cool the sample:	s?	Yes 🗸	No 🗌									
4. Were all samples received at a temperatu	re of >0° C to 6.0°C	Yes 🖌	No 🗌									
5 Sample(s) in proper container(s)?		Ver d	Ne 🗖									
o. Sample(s) in proper container(s)?		Yes 💌	NO									
6. Sufficient sample volume for indicated test	t(s)?	Yes 🗹	No 🗌									
7. Are samples (except VOA and ONG) prop	erly preserved?	Yes 🗹	No 🗌									
8. Was preservative added to bottles?		Yes 🗌	No 🔽	NA 🗌								
OA viais nave zero neadspace?	h	Yes 🗌		No VOA Vials								
TO, were any sample containers received bro	ken?	Yes 🗆	NO 💌	# of preserved								
11. Does paperwork match bottle labels?		Yes 🔽	No 🗌	bottles checked for pH:								
(Note discrepancies on chain of custody)				(<2 or	>12 unless noted)							
12. Are matrices correctly identified on Chain of	of Custody?	Yes 🗹	No 🗌	Adjusted?	<u></u>							
13. Is it clear what analyses were requested?		Yes 🗹	No 🗌	Cheeked buy	NY 4-10-19							
(If no, notify customer for authorization.)		Yes 🗹	No	Checked by:								
Special Handling (if applicable)												
15. Was client notified of all discrepancies wit	h this order?	Yes	No 🗌	NA 🔽								
Person Notified:	Date	P										
By Whom:	Via:	I DeMail DE	Phone 🗌 Fax	In Person								
Regarding:												
Client Instructions:												
16. Additional remarks:												
17 Cooler Information												
Cooler No Temp °C Condition	Seal Intact Seal No	Seal Date	Signed By									
1 4.9 Good Y	'es											

Ustody Record Turn-Around Time: うんい hundless and the standard Destination	Project Name:	Sterky IH 4901 Hawkins NE - Albuquerque, NM 87109	Project #: 0 Tel. 505-345-3975 Fax 505-345-4107	Analysis Request	Project Manager:	□ Level 4 (Full Validation)	Sampler: D H N   ionpliance Sampler: D H N <th># of Coolers:</th> <th>Cooler Temp(including cr);(-) OC MT M MT M MT M MT M MT M MT M MT M MT</th> <th>Container Preservative A HEAL No. Container Preservative A HEAL PREservati</th> <th>1 C2-5- 402 -001 XX 1 X</th> <th><math>\overline{C3-3}</math></th> <th>U-3 \ -003 \ \                                  </th> <th></th> <th>(18-17 ) - DOS XX   X    </th> <th></th> <th></th> <th></th> <th>shed by Received by Ata: Date Time Remarks:</th> <th>hed by Received by Via Via Via Time</th> <th>I THE WINDY I TOUMAN</th>	# of Coolers:	Cooler Temp(including cr);(-) OC MT M MT M MT M MT M MT M MT M MT M MT	Container Preservative A HEAL No. Container Preservative A HEAL PREservati	1 C2-5- 402 -001 XX 1 X	$\overline{C3-3}$	U-3 \ -003 \ \		(18-17 ) - DOS XX   X				shed by Received by Ata: Date Time Remarks:	hed by Received by Via Via Via Time	I THE WINDY I TOUMAN
Client: Swf		Mailing Address:		Phone #:	email or Fax#:	QA/QC Package:	Accreditation:	EDD (Type)		Date Time Matrix Sample Name	4/5/14 1:28 Su:1 (2 -5	Maka 4-30 " C3-3	Walla 4:45 " Led - 3	Marks 8:31 4 CI-17	460/69 82-63 4 CAB-17				Dave: Time: Relinquished by.	Date: Time: Relinquished by:	419/19 1910 APA