

June 7, 2019

#5E27950-BG12

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

SUBJECT: Remediation Closure Report for the Sterling State TB 4H Releases (2RP-5327, 2RP-4724), Carlsbad, Eddy County, New Mexico

Dear Mr. Bratcher:

On behalf of Marathon Oil Permian LLC (Marathon), Souder, Miller & Associates (SMA) has prepared this Remediation Closure Report that describes the assessment of a release of liquids related to oil and gas production activities at the Sterling State TB 4H site. The site is in Unit O, Section 20, 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 State TB 4H	Company	Marathon Oil Permian LLC			
API Number	30-015-44619	Location	32.28465704° -104.20827171°			
Incident Number	2RF	P-5327, 2RP-472	24			
Estimated Date of Release	March 14, 2019 April 23, 2018	Date Reported to NMOCD	March 14, 2019 April 24, 2018			
Land Owner	State	Reported To	NMOCD, NMSLO			
Source of Release	2RP-5327—Tank 2RP-4724—Valve					
Released Volume	2RP-5327—601 bbl 2RP-4724—1.45 bbl	Released Material	Produced Water			
Recovered Volume	2RP-5327—600 bbl Net Release 2RP-5327—1 bbl 2RP-4724—0 bbl Net Release 2RP-4724—1.45 bb					
NMOCD Closure Criteria	>100 feet to groundwater (Refer to Section 2.0)					
SMA Response Dates	April 2, 2019, May 16, 2019					

Table 1 summarizes release information and Closure Criteria.

1.0 Background

On March 14, 2019 the piping from the gun barrel and produced water tanks lost connection when the brackets attached to the side of the tank failed. Due to high winds at the time, fluids within the lined containment were blown onto the production pad. Crews were called to the location to scrape the affected soil, which is predominately caliche. On April 23, 2018, due to improper valve alignment and not properly flushing lines, a release of 1.45 bbl of produced water was released offsite at the southeast side of location. Crews were called to the location to scrape the affected soils. Figure 1 illustrates the vicinity and site location; Figure 2 illustrates the release locations. The C-141 forms are included in Appendix A.

2.0 Site Information and Closure Criteria

The Sterling State TB 4H is located approximately 7.5 mile south of Carlsbad, New Mexico on State land at an elevation of approximately 3,175 feet above mean sea level (amsl).

Based upon water well data (Appendix B), depth to groundwater in the area is estimated to be 103 feet below grade surface (bgs). There are several 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 4/3/2019). The nearest significant watercourse is Cass Draw, located approximately 1000 feet to the northwest. Figure 2 illustrates the site with 200 and 300-foot radii to indicate that it does not lie within a sensitive area as described in 19.15.29.12.C(4) NMAC.

Based on the information presented herein, the applicable NMOCD Closure Criteria for this site is for a groundwater depth of greater than 100 feet bgs. The site has been restored to meet the standards of Table I of 19.15.29.12 NMAC.

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

3.0 Release Characterization and Remediation Activities

On April 2, 2019, SMA conducted sampling of the area impacted by the release to confirm the initial actions had remediated the release. The affected area had been scraped to approximately four inches, and no visible staining was observed. The area that had been scraped measured approximately 115 feet by 180 feet. A total of four (4) surficial soil samples (L1-L4) 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. 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).

On May 16, 2019 SMA returned to the location to further excavate the area around sample location L2 and to sample the impacted area for the 2018 release (2RP-4724.) An additional area that measured 45 feet wide by 25 feet long and six inches deep (for a total of 1 foot) was excavated and removed. Two bottom hole confirmation samples (CS6 and CS7) and four sidewall samples (SW1-SW4) were collected.

On the same day, SMA evaluated the 2018 release on the east side of the pad. This was a low volume release that had been previously scraped. SMA collected five confirmation samples (CS1-CS5) to ensure initial actions adequately remediated the release. Samples were collected and processed for the laboratory methods as described above.

Sterling State TB 4H Remediation Closure Report (2RP-5327, 2RP-4724) June 7, 2019

Figure 3 shows the extent of the visually impacted area and sample locations. Laboratory results are summarized in Table 3. Laboratory reports are included in Appendix D. All samples resulted in non-detectable concentrations. SMA recommends no further action for 2RP-5327 and 2RP-4724.

5.0 Scope and Limitations

The scope of our services included: assessment sampling; regulatory liaison; and preparing this closure report. All work has been performed in accordance with generally accepted professional environmental consulting practices for oil and gas releases in the Permian Basin in New Mexico.

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

Submitted by: SOUDER, MILLER & ASSOCIATES Reviewed by:

Heather Patterson Project Scientist

hound 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 Justification Table 3: Summary of Sample Results

Appendices:

Appendix A: Form C141 Appendix B: Water Well Data Appendix C: Field Notes and Photo Documentation Appendix D: Laboratory Analytical Reports

FIGURES







TABLES

Table 2: NMOCD Closure Criteria

Site Information (19.15.29.11.A(2, 3, and 4) NMAC)		Source/Notes
Depth to Groundwater (feet bgs)	103	3 NMOSE and USGS
Hortizontal Distance From All Water Sources Within 1/2 Mile (ft)	<1/2 mile	NMOSE and USGS
Hortizontal Distance to Nearest Significant Watercourse (ft)	1000	0 USGS Topo Map

Closure Criteria (19.15.29.12.B(4) and Table 1 NMAC)						
	Closure Criteria (units in mg/kg)					
Depth to Groundwater	Chloride *numerical limit or background, whichever is greater	ТРН	GRO + DRO	BTEX	Benzene	
< 50' BGS		600	100		50	10
51' to 100'		10000	2500	1000	50	10
>100'	Х	20000	2500	1000	50	10
Surface Water		if ye	s, then			
<300' from continuously flowing watercourse or other significant watercourse? <200' from lakebed, sinkhole or playa lake?	no no	-				
water well of 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?	no					
<1000' from fresh water well or spring?	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?	no					

Table 3: Summary of Sample Results Marathon Oil Permian LLC

Sterling State TB 4H (2RP-4724, 2RP-5327)

Sample	Sample	Depth	Action	BTEX	Benzene	GRO	DRO	MRO	Total TPH	CI-
ID	Date	(feet bgs)	Taken	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
	NMOCD C	losure Criteria	a	50	10	10	00		2500	20,000
				Initial Sa	mpling Ev	ent				
L1	4/2/2019	0.5	excavated	<0.23	<0.023	<4.6	670	360	1030	8700
L2	4/2/2019	0.5	in-situ	<0.23	<0.025	<5.0	67	84	151	320
L3	4/2/2019	0.5	in-situ	<0.23	<0.023	<4.7	78	120	198	200
L4	4/2/2019	0.5	in-situ	<0.23	<0.023	<4.7	<9.9	<49	<64	550
	Closue Sampling Event (2RP-4724)									
CS1	5/16/2019	0.5	in-situ	<0.23	<0.025	<5.0	<9.7	<48	<63	<61
CS2	5/16/2019	0.5	in-situ	<0.23	<0.025	<5.0	<9.6	<48	<63	<60
CS3	5/16/2019	0.5	in-situ	<0.23	<0.025	<4.9	<9.8	<49	<64	<60
CS4	5/16/2019	0.5	in-situ	<0.23	<0.025	<5.0	<9.8	<49	<64	<60
CS5	5/16/2019	0.5	in-situ	<0.23	<0.025	<4.9	<9.7	<49	<64	71
			Closu	re Sampli	ng Event (2RP-5327)				
CS6	5/16/2019	1	in-situ	<0.23	<0.024	<4.9	<9.4	<47	<62	180
CS7	5/16/2019	1	in-situ	<0.23	<0.024	<4.9	<9.5	<47	<62	240
SW1	5/16/2019	0-1	in-situ	<0.23	<0.025	<5.0	140	140	280	160
SW2	5/16/2019	0-1	in-situ	<0.23	<0.025	<5.0	53	53	106	190
SW3	5/16/2019	0-1	in-situ	<0.23	<0.025	<5.0	<9.9	<49	<64	180
SW4	5/16/2019	0-1	in-situ	<.023	<0.025	<5.0	120	110	230	140



APPENDIX A FORM C141

District I 1625 N. French Dr., Hobbs, NM 88240 State of New Mexico Form C-141 **Energy Minerals and Natural Resources** District II Revised April 3, 2017 MAY 01 2018 811 S. First St., Artesia, NM 88210 District III Submit 1 Copy to appropriate District Office in **Oil Conservation Division** DISTRICT II-ARTESIA O.C.D. 1000 Rio Brazos Road, Aztec, NM 87410 1220 South St. Francis Dr. **District IV** 1220 S. St. Francis Dr., Santa Fe, NM 87505 Santa Fe, NM 87505 **Release Notification and Corrective Action** <u>NAB1812234317</u> Name of Company Marathon Oil Permian LLC **OPERATOR** Initial Report **Final Report** 312098 Contact Callie Karrigan Address 5555 San Felipe Street, Houston, Texas 77056 Telephone No. 405-202-1028 (cell) 575-297-0956 (office)

Facility Name: Sterling State 23 27 20 TB 004H 💥 Facility Type Oil and gas production facilities Surface: Owner: state Mineral: Owner: state API No.: 30-015-42731 * 30-015-44 (019 LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
0	20	235	27E	603	South	1462	east	Eddy
							·	

Latitude 32.28465704.Longitude -104.20827171

NATURE OF RELEASE

Volume of Release: 1.45 bbls	Volume Recovered: none				
Date and Hour of Occurrence	Date and Hour of Discovery				
unknown	04/23/2017 7:30 am				
If YES, To Whom?					
Eddy County – Mike Bratcher and	Crystal Weaver				
Date and Hour 04/24/2018 7:11 am					
If YES, Volume Impacting the Wat	ercourse.				
aturated soil from produced water just of	off the SE side of location. Approximately				
e cause of release was due to improper	valve alignment and not properly flushing				
The offsite release affected a 3 ft x 130 ft area. The area was scraped to remove saturated soils. Confirmation samples will be taken for laboratory analysis.					
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the best of my knowledge and understa	nd that pursuant to NMOCD rules and				
the best of my knowledge and understand notifications and perform corrective actions NMOCD marked as "Final Report"	nd that pursuant to NMOCD rules and tions for releases which may endanger does not relieve the operator of liability				
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the best of my knowledge and understand notifications and perform corrective action in NMOCD marked as "Final Report" te contamination that pose a threat to g does not relieve the operator of response OIL CONSERV Approved by Environment Special Approval Date: 5 118 Conditions of Approval:	Ind that pursuant to NMOCD rules and tions for releases which may endanger does not relieve the operator of liability round water, surface water, human health sibility for compliance with any other <u>ATION DIVISION</u> <u>ATION DIVISION</u> Expiration Date: NIA Attached <u>ATION ATION</u>				
	Volume of Release: 1.45 bbls Date and Hour of Occurrence unknown If YES, To Whom? Eddy County – Mike Bratcher and 0 Date and Hour 04/24/2018 7:11 am If YES, Volume Impacting the Wat If YES, Volume Impacting the Wat enturated soil from produced water just of the cause of release was due to improper emove saturated soils. Confirmation saturated soils				

* Attach Additional Sheets If Necessary

RECEIVED

State of New Mexico Oil Conservation Division

Incident ID	nAB1812234317
District RP	2RP-4724
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>103</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 not on an exploration, development, production, or storage site?	🗌 Yes 🛛 No

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

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

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Field data
- Data table of soil contaminant concentration data
- Depth to water determination
- Determination of water sources and significant watercourses within ¹/₂-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

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

Form $C_{-1}/1$	State of New Mexico		
101111 C-141		Incident ID	nAB1812234317
Page 4	Oil Conservation Division	District RP	2RP-4724
		Facility ID	
		Application ID	
I hereby cert regulations a public health failed to adea addition, OC and/or regula Printed Nar Signature: email:C	tify that the information given above is true and complete to the best of my knowledg all operators are required to report and/or file certain release notifications and perform h or the environment. The acceptance of a C-141 report by the OCD does not relieve equately investigate and remediate contamination that pose a threat to groundwater, su CD acceptance of a C-141 report does not relieve the operator of responsibility for cor ations. me:Callie Karrigan Title:HES Pr <i>Callie Karrigan</i> Telephone:	e and understand that purs a corrective actions for rele the operator of liability sh rface water, human health npliance with any other fe ofessional	Puant to OCD rules and eases which may endanger ould their operations have to or the environment. In deral, state, or local laws
OCD Only Received by	2 by: Date:		

State of New Mexico Oil Conservation Division

Incident ID	nAB1812234317
District RP	2RP-4724
Facility ID	
Application ID	

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: Each of the following items must be included in the closure report. A scaled site and sampling diagram as described in 19.15.29.11 NMAC Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection) Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling) Description of remediation activities I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete. Printed Name: ____Callie Karrigan_____ Title: ____HES Professional_____ Signature: *Callie Karrigan_____* Date: __6/7/2019_____ Telephone: _____575-297-0956_____ email: cnkarrigan@marathonoil.com **OCD Only** Received by: Date: Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations. Closure Approved by: Date: Printed Name: Title:

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

(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		

Page 2

State of New Mexico Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

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

Initial Response

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

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: <u>Callia Kannigan</u>	Date:
email:	Telephone:
OCD Only Received by:	Date:

State of New Mexico Oil Conservation Division

Incident ID	nAB1909140764
District RP	2RP-5327
Facility ID	
Application ID	pAB1909140499

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>103</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 not on an exploration, development, production, or storage site?	🗌 Yes 🖂 No

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

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

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Field data
- Data table of soil contaminant concentration data
- \square Depth to water determination
- Determination of water sources and significant watercourses within ¹/₂-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

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

Form C-141	State of New Mexico	Incident ID	mAD1000140764	
Page 4	Oil Conservation Division	District DD	11AB1909140704	
I ugo +	on conservation presion	Equility ID	2KP-5327	
		Application ID	pAB1909140499	
I hereby certify that the inforegulations all operators are public health or the enviror failed to adequately investigaddition, OCD acceptance of and/or regulations. Printed Name:Callie Signature:Callie mail:Callie Signature:Callie	ormation given above is true and complete to the best of my e required to report and/or file certain release notifications a iment. The acceptance of a C-141 report by the OCD does gate and remediate contamination that pose a threat to grou of a C-141 report does not relieve the operator of responsib Karrigan	 / knowledge and understand that purs ind perform corrective actions for rele not relieve the operator of liability sh ndwater, surface water, human health ility for compliance with any other fe 	suant to OCD rules and eases which may endanger nould their operations have n or the environment. In ederal, state, or local laws	
OCD Only				
Received by:	·	Date:		

State of New Mexico Oil Conservation Division

Incident ID	nAB1909140764					
District RP	2RP-5327					
Facility ID						
Application ID	pAB1909140499					

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: Each of the following items must be included in the closure report. A scaled site and sampling diagram as described in 19.15.29.11 NMAC Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection) Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling) Description of remediation activities I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete. Printed Name: ____Callie Karrigan_____ Title: ____HES Professional_____ Signature: *Callie Karrigan_____* Date: __6/7/2019_____ Telephone: _____575-297-0956_____ email: cnkarrigan@marathonoil.com **OCD Only** Received by: Date: Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations. Closure Approved by: Date: Printed Name: Title:

APPENDIX B WATER WELL DATA



POD has been replaced & no longer serves a water right file.)	O=orphaned, C=the file is closed)	, (0 (0	(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest) (NAD83 UTM in meters)					(In feet)					
POD Number	POD Sub- Code basin C	ounty	QQ0 64164	2 4 Se	c Tws	Rng		x	Y	Distance	Depth Well	Depth Water	Water Column
<u>C 02377</u>	С	ED	:	2 29) 23S	27E	5745	575	3571666* 🥌 Avera	581 ge Depth to	232 Water:	170 170	62 feet
										Minimum Maximum	Depth: Depth:	170 170	feet feet

Record Count: 1

UTMNAD83 Radius Search (in meters):

Easting (X): 574547.97

Northing (Y): 3572246.98

Radius: 805

*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.



USGS Home Contact USGS Search USGS

National Water Information System: Web Interface

USGS Water Resources

Data Category:		Geographic Area:		
Groundwater	•	United States	•	GO

Click to hideNews Bulletins

• Introducing The Next Generation of USGS Water Data for the Nation

• Full News 🔊

Groundwater levels for the Nation

Search Results -- 1 sites found

Agency code = usgs site_no list =

321707104125701

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 321707104125701 23S.27E.20.33414

Eddy County, New Mexico Latitude 32°17'07", Longitude 104°12'57" NAD27 Land-surface elevation 3,178 feet above NAVD88 This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer. **Output formats**

Table of data	
Tab-separated data	
Graph of data	

Reselect period

Date	Time	? Water- level date- time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Water- level accuracy	? Status	? Method of measurement	? Measuring agency	? Source o measure
1948-12-22		D	103.00			2	2	U		

		Explanation
Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level accuracy	2	Water level accuracy to nearest hundredth of a foot
Status		The reported water-level measurement represents a static level
Method of measurement	U	Unknown method.
Measuring agency		Not determined
Source of measurement	U	Source is unknown.
Water-level approval status	А	Approved for publication Processing and review completed.

Questions about sites/data? Feedback on this web site Automated retrievals Help Data Tips Explanation of terms Subscribe for system changes News Accessibility Plug-Ins FOIA Privacy Policies and Notices

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

Page Contact Information: <u>USGS Water Data Support Team</u> Page Last Modified: 2019-04-03 10:48:44 EDT 0.48 0.43 nadww01



APPENDIX C FIELD NOTES & PHOTO DOCUMENTATION

	Lo	cation	Name:			Dat	:e:		
Ster	by 4H	Π	3			5/14/1	9		
Sample Name:	Soil Type:	Depth (BGS)	Collection Time:	EC (ppm)	Temp (°C)	PID Reading	PF		
<u>C81</u>	Sud , Com	0.5	10:34	0.13	21.7"	P			
<u>C82</u>	(0.5	10:38	0-18	20.2	- Erhy	<u> </u>		
<u>cs3</u>		0.5	10:41	0.17	21.0"				
<u>Cs4</u>		0.5	10:53	0.13	75.00				
<u>C\$5</u>		0.5	11:04	0.18	27.40				
Shv [Calida	5/	12:04	0.28	27.90				
JWX	<u> </u>	0-1	12:10	6.39	21.8.				
563		0-1	12:16	0.34	21.50				
CSC_{o}	+ / _		[2:2]	0.38	21.50				
Suy	_(2-1	12:45	- 0.29	ZG.Y.				
		/	12:48	0.37	23.20				
	┦──┤								
	┥──┤								
	┥───┤								
	┼───┼								
	<u>├</u>								
	┝───┤								

Photo Log Photo Taken May 16, 2019 Facing south



Photo Taken May 16, 2019

Facing west

32.28456, -104.20831



Photo Taken May 16, 2019 Facing northwest 32.28462, -104.20874



APPENDIX D LABORATORY ANALYTICAL REPORTS



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

April 11, 2019

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

RE: Sterling State

OrderNo.: 1904279

Dear Heather Patterson:

Hall Environmental Analysis Laboratory received 4 sample(s) on 4/4/2019 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: 4/11/2019

CLIENT: Souder, Miller & Associates Project: Sterling State		Cli (ient Sample II Collection Date): L-1 e: 4/2	l /2019 1:52:00 PM	
Lab ID: 1904279-001	Matrix: SOIL		Received Date	e: 4/4	/2019 8:55:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	8700	300	mg/Kg	100) 4/10/2019 12:29:28 PM	44223
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	Irm
Diesel Range Organics (DRO)	670	10	mg/Kg	1	4/9/2019 12:04:33 PM	44145
Motor Oil Range Organics (MRO)	360	50	mg/Kg	1	4/9/2019 12:04:33 PM	44145
Surr: DNOP	111	70-130	%Rec	1	4/9/2019 12:04:33 PM	44145
EPA METHOD 8015D: GASOLINE RANGE	E				Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	4/9/2019 7:06:07 PM	44122
Surr: BFB	91.8	73.8-119	%Rec	1	4/9/2019 7:06:07 PM	44122
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.023	mg/Kg	1	4/9/2019 7:06:07 PM	44122
Toluene	ND	0.046	mg/Kg	1	4/9/2019 7:06:07 PM	44122
Ethylbenzene	ND	0.046	mg/Kg	1	4/9/2019 7:06:07 PM	44122
Xylenes, Total	ND	0.093	mg/Kg	1	4/9/2019 7:06:07 PM	44122
Surr: 4-Bromofluorobenzene	88.8	80-120	%Rec	1	4/9/2019 7:06:07 PM	44122

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

Qualifiers:

S

 H
 Holding times for preparation or analysis exceeded

 PQL
 Practical Quanitative Limit

ND Not Detected at the Reporting Limit

Practical Quantative Limit RL % Recovery outside of range due to dilution or matrix W

RL Reporting Detection Limit

Sample container temperature is out of limit as specified at testcode

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 4/11/2019

CLIENT: Souder, Miller & Associates Project: Sterling State Lab ID: 1904279-002	Matrix: SOIL	CI (ient Sample II Collection Dat Received Dat	D: L-2 e: 4/2 e: 4/4	2 2/2019 2:10:00 PM 4/2019 8:55:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	320	60	mg/Kg	20	4/9/2019 2:08:01 PM	44223
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	: Irm
Diesel Range Organics (DRO)	67	9.9	mg/Kg	1	4/9/2019 1:17:57 PM	44145
Motor Oil Range Organics (MRO)	84	49	mg/Kg	1	4/9/2019 1:17:57 PM	44145
Surr: DNOP	85.7	70-130	%Rec	1	4/9/2019 1:17:57 PM	44145
EPA METHOD 8015D: GASOLINE RANGI	E				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	4/9/2019 7:29:25 PM	44122
Surr: BFB	91.1	73.8-119	%Rec	1	4/9/2019 7:29:25 PM	44122
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.025	mg/Kg	1	4/9/2019 7:29:25 PM	44122
Toluene	ND	0.050	mg/Kg	1	4/9/2019 7:29:25 PM	44122

ND

ND

89.9

0.050

0.099

80-120

mg/Kg

mg/Kg

%Rec

1

1

1

4/9/2019 7:29:25 PM

4/9/2019 7:29:25 PM

4/9/2019 7:29:25 PM

44122

44122

44122

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

Qualifiers:

н

S

Ethylbenzene

Xylenes, Total

Surr: 4-Bromofluorobenzene

Holding times for preparation or analysis exceeded PQL Practical Quanitative Limit

ND Not Detected at the Reporting Limit

% Recovery outside of range due to dilution or matrix

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified at testcode

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 4/11/2019

TD т ~ .

CLIENT: Souder, Miller & Associates		Cl	ient Sample II): L-:	3	
Project: Sterling State		(Collection Dat	e: 4/2	2/2019 2:22:00 PM	
Lab ID: 1904279-003	Matrix: SOIL		Received Date	e: 4/4	/2019 8:55:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analysi	t: MRA
Chloride	200	60	mg/Kg	20	4/9/2019 2:20:26 PM	44223
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	t: Irm
Diesel Range Organics (DRO)	78	9.1	mg/Kg	1	4/9/2019 1:42:16 PM	44145
Motor Oil Range Organics (MRO)	120	46	mg/Kg	1	4/9/2019 1:42:16 PM	44145
Surr: DNOP	94.9	70-130	%Rec	1	4/9/2019 1:42:16 PM	44145
EPA METHOD 8015D: GASOLINE RANGE	I				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	4/9/2019 8:39:55 PM	44122
Surr: BFB	88.3	73.8-119	%Rec	1	4/9/2019 8:39:55 PM	44122
EPA METHOD 8021B: VOLATILES					Analyst	t: NSB
Benzene	ND	0.023	mg/Kg	1	4/9/2019 8:39:55 PM	44122
Toluene	ND	0.047	mg/Kg	1	4/9/2019 8:39:55 PM	44122
Ethylbenzene	ND	0.047	mg/Kg	1	4/9/2019 8:39:55 PM	44122
Xylenes, Total	ND	0.093	mg/Kg	1	4/9/2019 8:39:55 PM	44122
Surr: 4-Bromofluorobenzene	88.5	80-120	%Rec	1	4/9/2019 8:39:55 PM	44122

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

Qualifiers:

S

Н Holding times for preparation or analysis exceeded PQL Practical Quanitative Limit

ND Not Detected at the Reporting Limit

% Recovery outside of range due to dilution or matrix

RL Reporting Detection Limit

Sample container temperature is out of limit as specified at testcode W

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 4/11/2019

CLIENT:	Souder, Miller & Associa	tes	Cl	ient Sample II): L-	4	
Project:	Sterling State		(Collection Dat	e: 4/2	2/2019 2:32:00 PM	
Lab ID:	1904279-004	Matrix: SOIL		Received Dat	e: 4/4	4/2019 8:55:00 AM	
Analyses		Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA MET	HOD 300.0: ANIONS					Analyst	MRA
Chloride		550	60	mg/Kg	20	4/9/2019 2:32:51 PM	44223
EPA MET	HOD 8015D MOD: GASO	LINE RANGE				Analyst	RAA
Gasoline	Range Organics (GRO)	ND	4.7	mg/Kg	1	4/8/2019 12:01:04 PM	44148
Surr: I	BFB	102	70-130	%Rec	1	4/8/2019 12:01:04 PM	44148
EPA MET	HOD 8015M/D: DIESEL R	ANGE ORGANICS				Analyst	Irm
Diesel R	ange Organics (DRO)	ND	9.9	mg/Kg	1	4/8/2019 12:16:52 PM	44152
Motor Oi	I Range Organics (MRO)	ND	49	mg/Kg	1	4/8/2019 12:16:52 PM	44152
Surr: I	DNOP	104	70-130	%Rec	1	4/8/2019 12:16:52 PM	44152
EPA MET	HOD 8260B: VOLATILES	SHORT LIST				Analyst	RAA
Benzene	9	ND	0.023	mg/Kg	1	4/8/2019 12:01:04 PM	44148
Toluene		ND	0.047	mg/Kg	1	4/8/2019 12:01:04 PM	44148
Ethylben	zene	ND	0.047	mg/Kg	1	4/8/2019 12:01:04 PM	44148
Xylenes,	Total	ND	0.094	mg/Kg	1	4/8/2019 12:01:04 PM	44148
Surr: 2	1,2-Dichloroethane-d4	84.5	70-130	%Rec	1	4/8/2019 12:01:04 PM	44148
Surr: 4	4-Bromofluorobenzene	101	70-130	%Rec	1	4/8/2019 12:01:04 PM	44148
Surr: I	Dibromofluoromethane	91.6	70-130	%Rec	1	4/8/2019 12:01:04 PM	44148
Surr:	Foluene-d8	95.3	70-130	%Rec	1	4/8/2019 12:01:04 PM	44148

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

Qualifiers:

S

Н Holding times for preparation or analysis exceeded PQL Practical Quanitative Limit

ND Not Detected at the Reporting Limit

% Recovery outside of range due to dilution or matrix

RL Reporting Detection Limit

Sample container temperature is out of limit as specified at testcode W

Page 4 of 11

Client: Project:	Soude Sterlir	er, Miller & As ng State	ssociate	es							
Sample ID: I	MB-44223	SampT	ype: m t	olk	Tes	tCode: El	PA Method	300.0: Anion	S		
Client ID:	PBS	Batch	n ID: 44	223	F	RunNo: 5	9031				
Prep Date:	4/9/2019	Analysis D	ate: 4/	9/2019	S	SeqNo: 1	986954	Units: mg/k	٤g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND	1.5								
Sample ID: I	_CS-44223	SampT	ype: Ics	5	Tes	tCode: El	PA Method	300.0: Anion	s		
Client ID:	LCSS	Batch	n ID: 44	223	F	RunNo: 5	9031				
Prep Date:	4/9/2019	Analysis D	ate: 4/	9/2019	S	SeqNo: 1	986955	Units: mg/#	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		14	1.5	15.00	0	93.9	90	110			

Qualifiers:

H Holding times for preparation or analysis exceeded

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

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

Page 5 of 11

WO#: 1904279

11-Apr-19

1904279	WO#:
11-Apr-19	

Client: Project:	Souder, N Sterling S	Ailler & A State	ssociat	es								
Sample ID: I	_CS-44189	SampT	ype: L(cs	Tes	tCode: Ef	PA Method	8015M/D: Die	esel Rang	e Organics		
Client ID:	LCSS	Batch	ו ID: 4 4	189	F	RunNo: 5	8966					
Prep Date:	4/8/2019	Analysis D	ate: 4	/8/2019	S	SeqNo: 1	983691	Units: %Red	C			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Surr: DNOP		4.3		5.000		86.0	70	130				
Sample ID:	MB-44189	SampT	ype: M	BLK	Tes	tCode: El	PA Method	8015M/D: Die	esel Range	e Organics		
Client ID:	PBS	Batch	ו ID: 4 4	189	F	RunNo: 58	8966					
Prep Date:	4/8/2019	Analysis D	ate: 4	/8/2019	5	SeqNo: 1	983692	Units: %Red	C			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Surr: DNOP		9.6		10.00		95.6	70	130				
Sample ID:	MB-44152	SampT	ype: M	BLK	Tes	tCode: El	PA Method	8015M/D: Die	esel Rang	e Organics		
Client ID:	PBS	Batch	ו ID: 44	152	F	RunNo: 5	8967					
Prep Date:	4/5/2019	Analysis D	ate: 4	/8/2019	5	SeqNo: 19	983700	Units: mg/K	g			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Or	rganics (DRO)	ND	10									
Motor Oil Range	Organics (MRO)	ND 10	50	10.00		101	70	130				
		10		10.00	_	101	10	100				
Sample ID: L	LCS-44145	SampT	ype: LC	CS	Tes	tCode: EF	PA Method	ا Method 8015M/D: Diesei Kange Organics				
Client ID: L		Batch	1 ID: 44	145	۲ د							
Prep Date:	4/5/2019	Analysis L	ate: 4	/8/2019	2	seqino: 1	984035	Units: mg/K	g			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Surr: DNOP	ganics (DRO)	49 4.5	10	50.00	0	98.8 90.4	63.9 70	124				
Comple ID:		Comp			Tee			0045M/D Di		. O		
	VIB-44145	Sampi	ype: 101		res			8015M/D: Die	esel Range	e Organics		
Pren Date	-BS 4/5/2019	Analysis D)ate 4	/8/2019	r ç	SeaNo: 1	0900	Units: ma/K	a			
Arekte	4/3/2019	Desult							9/ DDD		Qual	
Diesel Range Or	ganics (DRO)	ND	PQL 10	SPK value	SPK Ref val	%REC	LOWLIMIT	HighLimit	%RPD	RPDLIMIt	Quai	
Motor Oil Range	Organics (MRO)	ND	50									
Surr: DNOP		9.7		10.00		97.0	70	130				
Sample ID: I	_CS-44152	SampT	ype: L(cs	Tes	tCode: El	PA Method	8015M/D: Die	esel Range	e Organics		
Client ID: L	LCSS	Batch	ו ID: 4 4	152	F	RunNo: 5	8967					
Prep Date:	4/5/2019	Analysis D	ate: 4	/8/2019	S	SeqNo: 19	984046	Units: mg/K	g			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	

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
 RL
 Reporting Detection Limit

 W
 Sample container temperature is out of limit as specified at testcode

Page 6 of 11

WO#:	1904	4279

11-Apr	-19
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Client: Project:	Souder, M Sterling S	Miller & A State	ssociate	Ś							
Sample ID: LCS-44	4152	SampT	ype: LC	S	Tes	Code: EF	PA Method	8015M/D: Di	esel Range	e Organics	
Client ID: LCSS		Batch	n ID: 44	152	R	unNo: 58	3967				
Prep Date: 4/5/20	019	Analysis D	ate: 4/	8/2019	S	eqNo: 19	984046	Units: mg/ #	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics	(DRO)	44	10	50.00	0	87.1	63.9	124			
Surr: DNOP		4.7		5.000		94.2	70	130			

Qualifiers:

H Holding times for preparation or analysis exceeded

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

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

Client: Project:	Souder, M Sterling S	filler & As tate	ssociate	S							
Sample ID: MB-44	4122	SampT	ype: ME	JLK	Test	tCode: EF	PA Method	8015D: Gaso	line Rang	e	
Client ID: PBS		Batch	1 ID: 44'	122	R	unNo: 5 8	3972				
Prep Date: 4/4/2	2019	Analysis D	ate: 4/	9/2019	S	eqNo: 19	984160	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organ	ics (GRO)	ND	5.0								
Surr: BFB		870		1000		87.0	73.8	119			
Sample ID: LCS-4	14122	SampT	ype: LC	S	Test	Code: EF	PA Method	8015D: Gaso	line Rang	e	
Client ID: LCSS	1	Batch	1 ID: 44'	122	R	unNo: 5 9	9017				
Prep Date: 4/4/2	2019	Analysis D	ate: 4/	9/2019	S	eqNo: 19	985565	Units: mg/K	g		

Pre SPK value SPK Ref Val RPDLimit Analyte Result PQL %REC LowLimit HighLimit %RPD Qual Gasoline Range Organics (GRO) 23 5.0 25.00 0 90.2 80.1 123 Surr: BFB 1000 1000 100 73.8 119

Qualifiers:

Н Holding times for preparation or analysis exceeded

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

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

Page 8 of 11

Client: Soud Project: Sterl	ler, Miller & A ing State	Associate	es							
Sample ID: MB-44122	Samp	Type: ME	BLK	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: PBS	Batc	h ID: 44	122	F	RunNo: 5	8972				
Prep Date: 4/4/2019	Analysis [Date: 4/	9/2019	S	SeqNo: 1	984207	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-Bromofluorobenzene	0.88		1.000		87.7	80	120			
Sample ID: LCS-44122	Samp	Type: LC	s	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: LCSS	Batc	h ID: 44	122	F	RunNo: 5	8972				
Pren Date: 4/4/2019	Analysis [Date: 4/	0/2010	ç	SeaNo: 1	984209	Units: ma/k	'n		

Prep Date: 4/4/2019	Analysis E	Date: 4/	9/2019	S	SeqNo: 1	984209	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	90.0	80	120			
Toluene	0.94	0.050	1.000	0	93.7	80	120			
Ethylbenzene	0.92	0.050	1.000	0	92.0	80	120			
Xylenes, Total	2.8	0.10	3.000	0	93.6	80	120			
Surr: 4-Bromofluorobenzene	0.89		1.000		89.5	80	120			

Qualifiers:

H Holding times for preparation or analysis exceeded

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

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

Client:	Souder, Miller & Associates
Project:	Sterling State

Sample ID: Ics-44148	SampT	Type: LC	S	Tes	tCode: El	PA Method	8260B: Volat	tiles Short	List	
Client ID: LCSS	Batc	h ID: 44	148	F	RunNo: 5	8990				
Prep Date: 4/5/2019	Analysis E	Date: 4/	8/2019	S	SeqNo: 1	984861	Units: mg/K	ζg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.82	0.025	1.000	0	81.6	70	130			
Toluene	0.98	0.050	1.000	0	98.4	70	130			
Ethylbenzene	0.99	0.050	1.000	0	99.0	70	130			
Xylenes, Total	3.0	0.10	3.000	0	99.9	70	130			
Surr: 1,2-Dichloroethane-d4	0.44		0.5000		87.6	70	130			
Surr: 4-Bromofluorobenzene	0.52		0.5000		104	70	130			
Surr: Dibromofluoromethane	0.45		0.5000		90.1	70	130			
Surr: Toluene-d8	0.48		0.5000		95.5	70	130			
Sample ID: mb-44148	SampT	Гуре: МЕ	BLK	Tes	tCode: El	PA Method	8260B: Volat	tiles Short	List	
Sample ID: mb-44148 Client ID: PBS	Samp1 Batcl	「ype: ME h ID: 44 ′	3LK 148	Tes F	tCode: El	PA Method 8990	8260B: Volat	tiles Short	List	
Sample ID: mb-44148 Client ID: PBS Prep Date: 4/5/2019	Samp1 Batcl Analysis [√ype: ME h ID: 44 Date: 4/	BLK 148 8/2019	Tes F S	tCode: El RunNo: 5 SeqNo: 19	PA Method 8990 984862	8260B: Volat Units: mg/K	tiles Short	List	
Sample ID: mb-44148 Client ID: PBS Prep Date: 4/5/2019 Analyte	SampT Batcl Analysis E Result	Type: ME h ID: 44 Date: 4/ PQL	BLK 148 8/2019 SPK value	Tes F S SPK Ref Val	tCode: El RunNo: 58 SeqNo: 19 %REC	PA Method 8990 984862 LowLimit	8260B: Volat Units: mg/K HighLimit	tiles Short Kg %RPD	List RPDLimit	Qual
Sample ID: mb-44148 Client ID: PBS Prep Date: 4/5/2019 Analyte Benzene	SampT Batcl Analysis I Result ND	Fype: ME h ID: 44 Date: 4/ PQL 0.025	BLK 148 8/2019 SPK value	Tes F S SPK Ref Val	tCode: El RunNo: 5 SeqNo: 1 %REC	PA Method 8990 984862 LowLimit	8260B: Volat Units: mg/K HighLimit	tiles Short Kg %RPD	List RPDLimit	Qual
Sample ID: mb-44148 Client ID: PBS Prep Date: 4/5/2019 Analyte Benzene Toluene	SampT Batcl Analysis I Result ND ND	Type: ME h ID: 44 Date: 4/ PQL 0.025 0.050	BLK 148 8/2019 SPK value	Tes F S SPK Ref Val	tCode: El RunNo: 5 SeqNo: 1 %REC	PA Method 8990 984862 LowLimit	8260B: Volat Units: mg/K HighLimit	tiles Short (g %RPD	List RPDLimit	Qual
Sample ID: mb-44148 Client ID: PBS Prep Date: 4/5/2019 Analyte Benzene Toluene Ethylbenzene	Samp1 Batcl Analysis E Result ND ND ND	Type: ME h ID: 44 Date: 4/ PQL 0.025 0.050 0.050	BLK 148 8/2019 SPK value	Tes F SPK Ref Val	tCode: El RunNo: 5 SeqNo: 1 %REC	PA Method 8990 984862 LowLimit	8260B: Volat Units: mg/K HighLimit	tiles Short (g %RPD	List RPDLimit	Qual
Sample ID: mb-44148 Client ID: PBS Prep Date: 4/5/2019 Analyte Benzene Toluene Ethylbenzene Xylenes, Total	Samp Batcl Analysis E Result ND ND ND ND	Type: ME h ID: 44 Date: 4 PQL 0.025 0.050 0.050 0.10	BLK 148 8/2019 SPK value	Tes F SPK Ref Val	tCode: El RunNo: 5 SeqNo: 19 %REC	PA Method 8990 984862 LowLimit	8260B: Volat Units: mg/K HighLimit	tiles Short Sg %RPD	List RPDLimit	Qual
Sample ID: mb-44148 Client ID: PBS Prep Date: 4/5/2019 Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 1,2-Dichloroethane-d4	Samp Batcl Analysis E Result ND ND ND ND 0.43	Fype: ME h ID: 44 Date: 4/ PQL 0.025 0.050 0.050 0.10	BLK 148 8/2019 SPK value 0.5000	Tes F SPK Ref Val	tCode: El RunNo: 5 SeqNo: 1 %REC 86.8	PA Method 3990 984862 LowLimit 70	8260B: Volat Units: mg/K HighLimit 130	tiles Short Sg %RPD	List RPDLimit	Qual
Sample ID: mb-44148 Client ID: PBS Prep Date: 4/5/2019 Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 1,2-Dichloroethane-d4 Surr: 4-Bromofluorobenzene	Samp Batcl Analysis I Result ND ND ND ND 0.43 0.51	Fype: ME h ID: 44 Date: 4 / PQL 0.025 0.050 0.050 0.10	BLK 148 8/2019 SPK value 0.5000 0.5000	Tes F SPK Ref Val	tCode: El RunNo: 5 SeqNo: 19 %REC 86.8 102	PA Method 8990 984862 LowLimit 70 70	8260B: Volat Units: mg/K HighLimit 130 130	tiles Short Kg %RPD	List RPDLimit	Qual
Sample ID: mb-44148 Client ID: PBS Prep Date: 4/5/2019 Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 1,2-Dichloroethane-d4 Surr: 4-Bromofluorobenzene Surr: Dibromofluoromethane	Samp Batcl Analysis I Result ND ND ND 0.43 0.51 0.45	Fype: ME h ID: 44 Date: 4 / 0.025 0.050 0.050 0.10	BLK 148 8/2019 SPK value 0.5000 0.5000 0.5000	Tes F SPK Ref Val	tCode: El RunNo: 5 SeqNo: 1 %REC 86.8 102 90.1	PA Method 8990 984862 LowLimit 70 70 70 70	8260B: Volat Units: mg/K HighLimit 130 130 130	tiles Short Kg %RPD	List	Qual

Qualifiers:

H Holding times for preparation or analysis exceeded

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified at testcode

Page 10 of 11

Client:	Souder, N	Ailler & As	sociate	es							
Project:	Sterling S	State									
Sample ID:	1904279-004ams	SampT	ype: M \$	3	Tes	tCode: El	PA Method	8015D Mod:	Gasoline	Range	
Client ID:	L-4	Batch	ID: 44	148	F	RunNo: 5	8990				
Prep Date:	4/5/2019	Analysis D	ate: 4/	8/2019	S	SeqNo: 1	984889	Units: mg/k	ζg		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	e Organics (GRO)	23	4.9	24.51	0	92.6	68.2	135			
Surr: BFB		500		490.2		101	70	130			
Sample ID:	1904279-004amsd	I SampT	ype: M \$	SD	Tes	tCode: El	PA Method	8015D Mod:	Gasoline	Range	
Client ID:	L-4	Batch	ID: 44	148	F	RunNo: 5	8990				
Prep Date:	4/5/2019	Analysis Da	ate: 4/	8/2019	S	SeqNo: 1	984890	Units: mg/k	٤g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	e Organics (GRO)	22	5.0	24.88	0	90.2	68.2	135	1.14	20	
Surr: BFB		510		497.5		104	70	130	0	0	
Sample ID:	lcs-44148	SampT	ype: LC	S	Tes	tCode: El	PA Method	8015D Mod:	Gasoline	Range	
Client ID:	LCSS	Batch	ID: 44	148	F	RunNo: 5	8990				
Prep Date:	4/5/2019	Analysis Da	ate: 4/	8/2019	S	SeqNo: 1	984917	Units: mg/k	ζg		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	e Organics (GRO)	24	5.0	25.00	0	97.2	70	130			
Surr: BFB		500		500.0		100	70	130			
Sample ID:	mb-44148	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015D Mod:	Gasoline	Range	
Client ID:	PBS	Batch	ID: 44	148	F	RunNo: 5	8990				
Prep Date:	4/5/2019	Analysis D	ate: 4/	8/2019	S	SeqNo: 1	984918	Units: mg/k	ζg		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	e Organics (GRO)	ND	5.0								
Surr: BFB		510		500.0		102	70	130			

Qualifiers:

H Holding times for preparation or analysis exceeded

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

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

W Sample container temperature is out of limit as specified at testcode

HALL ENVIR ANALY LABOR	ONMENT SIS ATORY	AL	Ha TE	ll Environme. L: 505-345-3 Website: www	ntai Analy 490 Albuquerq 975 FAX: v.hailenvu	sis Labo I Hawki ue, NM 505-345 conmenta	ratory ins NE 87109 -4107 il.com	Sample Log-In Check List					
Client Name:	SMA-CARI	LSBAD	Work	Order Num	ber: 190	279			ReptNo	1			
Received By:	Yazmine	Garduno	4/4/201	9 8:55:00 A	м		oppu	uliphones					
Completed By:	Anne Tho	rne	4/4/201	9 11:56:09	AM		am	1	_				
Reviewed By: Labeled k	DAD Yi II	4/4/1 2	9 4/4	19			0.07						
Chain of Cust	ody		1	1									
1. Is Chain of Cu	stody comp	lete?			Yes	~	No		Not Present				
2. How was the s	ample deliv	ered?			Cou	ier							
Log In													
3. Was an attemp	ot made to o	cool the samp	oles?		Yes	V	No		NA 🗌				
4. Were all samp	es received	l at a tempera	ature of >0° C i	to 6.0°C	Yes	V	No		NA \Box				
5. Sample(s) in p	roper conta	iner(s)?			Yes	¥	No						
6. Sufficient samp	ole volume f	or indicated t	est(s)?		Yes	~	No						
7. Are samples (e	xcept VOA	and ONG) pr	operly preserve	ed?	Yes	~	No						
8. Was preservati	ve added to	bottles?			Yes		No	1	NA 🗆				
9. VOA vials have	zero heads	space?			Yes		No		No VOA Vials 🗹				
 Were any sam 	ple containe	ars received b	proken?		Yes		No		# of preserved bottles checked	4/4/19			
1. Does paperwor (Note discrepar	k match bol ncies on cha	ttle labels? ain of custody	n		Yes	~	No		for pH:	>12 unless noted)			
2. Are matrices co	prrectly iden	tified on Chai	in of Custody?		Yes	~	No		Adjusted?				
3. Is it clear what	analyses we	ere requested	17		Yes	~	No						
4. Were all holdin (If no, notify cu	g times able stomer for a	to be met? uthorization.)			Yes	~	No		Checked by:				
pecial Handli	ng (if app	licable)											
15. Was client noti	fied of all di	screpancies	with this order?	<u>6</u>	Yes		No		NA 🗹				
Person N	lotified:			Date	ſ								
By Whor	n:			Via:	🗌 eMa	ii 🗌 l	Phone	Fax	In Person				
Regardin	g:												
Client Ins	structions:					_							
16. Additional rem	arks:												
17. Cooler Inform	nation												
Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Da	ite	Signed	By					
1	1.7	Good	Yes										
2	4.4	Good	Yes										



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

May 28, 2019

Heather Patterson Souder, Miller & Associates 201 S Halagueno Carlsbad, NM 88221 TEL: FAX

OrderNo.: 1905899

RE: Sterling 4H TB

Dear Heather Patterson:

Hall Environmental Analysis Laboratory received 11 sample(s) on 5/17/2019 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

Date Reported: 5/28/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT:	Souder, Miller & Associates	Client Sample ID: SW1										
Project:	Sterling 4H TB	Collection Date: 5/16/2019 12:04:00 PM										
Lab ID:	1905899-001	Matrix: SOIL Received Date: 5/17/2019 9:00:00 AM										
Analyses		Result	RL	Qual Units	DF	Date Analyzed	Batch					
EPA MET	HOD 300.0: ANIONS					Analyst	CJS					
Chloride		160	60	mg/Kg	20	5/22/2019 2:34:15 AM	45090					
EPA MET	HOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	JME					
Diesel Ra	ange Organics (DRO)	140	9.6	mg/Kg	1	5/24/2019 10:05:37 AM	45162					
Motor Oi	I Range Organics (MRO)	140	48	mg/Kg	1	5/24/2019 10:05:37 AM	45162					
Surr: E	DNOP	101	70-130	%Rec	1	5/24/2019 10:05:37 AM	45162					
EPA MET	HOD 8015D: GASOLINE RANGI	E				Analyst	NSB					
Gasoline	Range Organics (GRO)	ND	5.0	mg/Kg	1	5/20/2019 12:25:55 PM	44998					
Surr: E	3FB	105	73.8-119	%Rec	1	5/20/2019 12:25:55 PM	44998					
EPA MET	HOD 8021B: VOLATILES					Analyst	NSB					
Benzene		ND	0.025	mg/Kg	1	5/20/2019 12:25:55 PM	44998					
Toluene		ND	0.050	mg/Kg	1	5/20/2019 12:25:55 PM	44998					
Ethylben	zene	ND	0.050	mg/Kg	1	5/20/2019 12:25:55 PM	44998					
Xylenes,	Total	ND	0.10	mg/Kg	1	5/20/2019 12:25:55 PM	44998					
Surr: 4	1-Bromofluorobenzene	96.4	80-120	%Rec	1	5/20/2019 12:25:55 PM	44998					

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

Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 1 of 16

Date Reported: 5/28/2019

-							
CLIENT: Project:	Souder, Miller & Associates Sterling 4H TB	M 4 CON	CI	ient Sample II Collection Dat	D: SV e: 5/1	V2 16/2019 12:10:00 PM	
Lab ID:	1905899-002	Matrix: SOIL		Received Date	e: 5/1	17/2019 9:00:00 AM	
Analyses		Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA MET	HOD 300.0: ANIONS					Analyst	: CJS
Chloride		190	60	mg/Kg	20	5/22/2019 3:11:29 AM	45090
EPA MET	HOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	: JME
Diesel Ra	ange Organics (DRO)	53	9.9	mg/Kg	1	5/24/2019 10:29:53 AM	45162
Motor Oil	Range Organics (MRO)	53	49	mg/Kg	1	5/24/2019 10:29:53 AM	45162
Surr: E	DNOP	107	70-130	%Rec	1	5/24/2019 10:29:53 AM	45162
EPA MET	HOD 8015D: GASOLINE RANG	E				Analyst	: NSB
Gasoline	Range Organics (GRO)	ND	5.0	mg/Kg	1	5/20/2019 1:34:02 PM	44998
Surr: E	3FB	109	73.8-119	%Rec	1	5/20/2019 1:34:02 PM	44998
EPA MET	HOD 8021B: VOLATILES					Analyst	: NSB
Benzene		ND	0.025	mg/Kg	1	5/20/2019 1:34:02 PM	44998
Toluene		ND	0.050	mg/Kg	1	5/20/2019 1:34:02 PM	44998
Ethylben	zene	ND	0.050	mg/Kg	1	5/20/2019 1:34:02 PM	44998
Xylenes,	Total	ND	0.099	mg/Kg	1	5/20/2019 1:34:02 PM	44998
Surr: 4	I-Bromofluorobenzene	101	80-120	%Rec	1	5/20/2019 1:34:02 PM	44998

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

Qualifiers: * Value exceeds Maximum Contaminant Level.

- D Sample Diluted Due to MatrixH Holding times for preparation or analysis exceed
- 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

Hall Environmental Analysis Laboratory, Inc.

- 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 Limit

Page 2 of 16

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 5/28/2019

CLIENT: Project:	Souder, Miller & Associates Sterling 4H TB		Cl	ient Sample II Collection Dat	D: SV e: 5/1	V3 16/2019 12:16:00 PM	
Lab ID:	1905899-003	Matrix: SOIL		Received Date	e: 5/1	17/2019 9:00:00 AM	
Analyses		Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA MET	HOD 300.0: ANIONS					Analyst	: CJS
Chloride		180	60	mg/Kg	20	5/22/2019 3:23:54 AM	45090
EPA MET	HOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	: ТОМ
Diesel Ra	ange Organics (DRO)	ND	9.9	mg/Kg	1	5/21/2019 3:23:36 PM	45011
Motor Oil	Range Organics (MRO)	ND	49	mg/Kg	1	5/21/2019 3:23:36 PM	45011
Surr: D	DNOP	103	70-130	%Rec	1	5/21/2019 3:23:36 PM	45011
EPA MET	HOD 8015D: GASOLINE RANG	E				Analyst	: NSB
Gasoline	Range Organics (GRO)	ND	5.0	mg/Kg	1	5/20/2019 2:41:43 PM	44998
Surr: E	3FB	110	73.8-119	%Rec	1	5/20/2019 2:41:43 PM	44998
EPA MET	HOD 8021B: VOLATILES					Analyst	: NSB
Benzene		ND	0.025	mg/Kg	1	5/20/2019 2:41:43 PM	44998
Toluene		ND	0.050	mg/Kg	1	5/20/2019 2:41:43 PM	44998
Ethylben	zene	ND	0.050	mg/Kg	1	5/20/2019 2:41:43 PM	44998
Xylenes,	Total	ND	0.10	mg/Kg	1	5/20/2019 2:41:43 PM	44998
Surr: 4	-Bromofluorobenzene	98.5	80-120	%Rec	1	5/20/2019 2:41:43 PM	44998

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level.D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- 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 Limit

Page 3 of 16

S % Recovery outside of range due to dilution or matrix

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 5/28/2019

CLIENT: Souder, Miller & Associates Project: Sterling 4H TB		CI (ient Sample II Collection Dat): SV e: 5/1	V4 16/2019 12:45:00 PM	
Lab ID: 1905899-004	Matrix: SOIL		Received Date	e: 5/1	17/2019 9:00:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: CJS
Chloride	140	60	mg/Kg	20	5/22/2019 3:36:18 AM	45090
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	: JME
Diesel Range Organics (DRO)	120	9.7	mg/Kg	1	5/24/2019 10:54:16 AM	45162
Motor Oil Range Organics (MRO)	110	49	mg/Kg	1	5/24/2019 10:54:16 AM	45162
Surr: DNOP	116	70-130	%Rec	1	5/24/2019 10:54:16 AM	45162
EPA METHOD 8015D: GASOLINE RANGE	1				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	5/20/2019 3:04:19 PM	44998
Surr: BFB	107	73.8-119	%Rec	1	5/20/2019 3:04:19 PM	44998
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.025	mg/Kg	1	5/20/2019 3:04:19 PM	44998
Toluene	ND	0.050	mg/Kg	1	5/20/2019 3:04:19 PM	44998
Ethylbenzene	ND	0.050	mg/Kg	1	5/20/2019 3:04:19 PM	44998
Xylenes, Total	ND	0.10	mg/Kg	1	5/20/2019 3:04:19 PM	44998
Surr: 4-Bromofluorobenzene	96.2	80-120	%Rec	1	5/20/2019 3:04:19 PM	44998

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

Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 4 of 16

Date Reported: 5/28/2019

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	-	-								
CLIENT: Souder, Miller & Associates Client Sample ID: CS1 Client Sample ID: CS1						51 5/2010 10:24:00 AM				
r roject:	Sterning 4H TB		Conection Date: 5/10/2019 10:34:00 AM							
Lab ID:	1905899-005	Matrix: SOIL	Matrix: SOIL Received Date: 5/17/2019 9:00:0							
Analyses	3	Result	RL	Qual Units	DF	Date Analyzed	Batch			
EPA ME	THOD 300.0: ANIONS					Analyst	CJS			
Chloride)	ND	61	mg/Kg	20	5/22/2019 3:48:43 AM	45090			
EPA ME	THOD 8015M/D: DIESEL RAN	GE ORGANICS				Analyst	: том			
Diesel R	ange Organics (DRO)	ND	9.7	mg/Kg	1	5/21/2019 4:07:20 PM	45011			
Motor O	il Range Organics (MRO)	ND	48	mg/Kg	1	5/21/2019 4:07:20 PM	45011			
Surr:	DNOP	100	70-130	%Rec	1	5/21/2019 4:07:20 PM	45011			
EPA ME	THOD 8015D: GASOLINE RAI	NGE				Analyst	: NSB			
Gasoline	e Range Organics (GRO)	ND	5.0	mg/Kg	1	5/20/2019 3:26:51 PM	44998			
Surr:	BFB	107	73.8-119	%Rec	1	5/20/2019 3:26:51 PM	44998			

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Surr: BFB	107	73.8-119	%Rec	1	5/20/2019 3:26:51 PM	44998
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
Benzene	ND	0.025	mg/Kg	1	5/20/2019 3:26:51 PM	44998
Toluene	ND	0.050	mg/Kg	1	5/20/2019 3:26:51 PM	44998
Ethylbenzene	ND	0.050	mg/Kg	1	5/20/2019 3:26:51 PM	44998
Xylenes, Total	ND	0.10	mg/Kg	1	5/20/2019 3:26:51 PM	44998
Surr: 4-Bromofluorobenzene	96.0	80-120	%Rec	1	5/20/2019 3:26:51 PM	44998

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- 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
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 5 of 16

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 5/28/2019

CLIENT: Souder, Miller & Associates Project: Sterling 4H TB	Client Sample ID: CS2 Collection Date: 5/16/2019 10:38:00 AM					
Lab ID: 1905899-006	Matrix: SOIL		Received Dat	e: 5/1	17/2019 9:00:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analysi	: CJS
Chloride	ND	60	mg/Kg	20	5/22/2019 4:01:07 AM	45090
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	t: TOM
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	5/21/2019 4:29:13 PM	45011
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	5/21/2019 4:29:13 PM	45011
Surr: DNOP	78.5	70-130	%Rec	1	5/21/2019 4:29:13 PM	45011
EPA METHOD 8015D: GASOLINE RANG	E				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	5/20/2019 3:49:31 PM	44998
Surr: BFB	104	73.8-119	%Rec	1	5/20/2019 3:49:31 PM	44998
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.025	mg/Kg	1	5/20/2019 3:49:31 PM	44998
Toluene	ND	0.050	mg/Kg	1	5/20/2019 3:49:31 PM	44998
Ethylbenzene	ND	0.050	mg/Kg	1	5/20/2019 3:49:31 PM	44998
Xylenes, Total	ND	0.099	mg/Kg	1	5/20/2019 3:49:31 PM	44998
Surr: 4-Bromofluorobenzene	93.0	80-120	%Rec	1	5/20/2019 3:49:31 PM	44998

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

Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 6 of 16

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 5/28/2019

CLIENT: Souder, Miller & Associates Project: Sterling 4H TB		Client Sample ID: CS3 Collection Date: 5/16/2019 10:41:00 AM					
Lab ID: 1905899-007	Matrix: SOIL	17/2019 9:00:00 AM					
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch	
EPA METHOD 300.0: ANIONS					Analysi	t: CJS	
Chloride	ND	60	mg/Kg	20	5/22/2019 4:13:32 AM	45090	
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	t: TOM	
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	5/21/2019 4:51:10 PM	45011	
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	5/21/2019 4:51:10 PM	45011	
Surr: DNOP	95.7	70-130	%Rec	1	5/21/2019 4:51:10 PM	45011	
EPA METHOD 8015D: GASOLINE RANGE	E				Analyst	t: NSB	
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/20/2019 4:12:13 PM	44998	
Surr: BFB	107	73.8-119	%Rec	1	5/20/2019 4:12:13 PM	44998	
EPA METHOD 8021B: VOLATILES					Analyst	t: NSB	
Benzene	ND	0.025	mg/Kg	1	5/20/2019 4:12:13 PM	44998	
Toluene	ND	0.049	mg/Kg	1	5/20/2019 4:12:13 PM	44998	
Ethylbenzene	ND	0.049	mg/Kg	1	5/20/2019 4:12:13 PM	44998	
Xylenes, Total	ND	0.099	mg/Kg	1	5/20/2019 4:12:13 PM	44998	
Surr: 4-Bromofluorobenzene	93.2	80-120	%Rec	1	5/20/2019 4:12:13 PM	44998	

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

Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 7 of 16

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Date Reported: 5/28/2019

CLIENT: Souder, Miller & AssociatesProject: Sterling 4H TBLab ID: 1905899-008	Client Sample ID: CS4 Collection Date: 5/16/2019 10:53:00 AM Matrix: SOIL Received Date: 5/17/2019 9:00:00 AM					
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CJS
Chloride	ND	60	mg/Kg	20	5/22/2019 4:25:57 AM	45090
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	: ТОМ
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	5/21/2019 5:13:08 PM	45011
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	5/21/2019 5:13:08 PM	45011
Surr: DNOP	92.4	70-130	%Rec	1	5/21/2019 5:13:08 PM	45011
EPA METHOD 8015D: GASOLINE RANG	E				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	5/20/2019 4:34:52 PM	44998
Surr: BFB	109	73.8-119	%Rec	1	5/20/2019 4:34:52 PM	44998
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.025	mg/Kg	1	5/20/2019 4:34:52 PM	44998
Toluene	ND	0.050	mg/Kg	1	5/20/2019 4:34:52 PM	44998
Ethylbenzene	ND	0.050	mg/Kg	1	5/20/2019 4:34:52 PM	44998
Xylenes, Total	ND	0.099	mg/Kg	1	5/20/2019 4:34:52 PM	44998
Surr: 4-Bromofluorobenzene	96.5	80-120	%Rec	1	5/20/2019 4:34:52 PM	44998

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level.D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- 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 Limit

Page 8 of 16

S % Recovery outside of range due to dilution or matrix

Date Reported: 5/28/2019

CLIENT:	Souder, Miller & Associates		Cl	ient Sample II): CS	\$5		
Project:	Sterling 4H TB	Collection Date: 5/16/2019 11:04:00 AM						
Lab ID:	1905899-009	Matrix: SOIL		Received Date	e: 5/1	17/2019 9:00:00 AM		
Analyses		Result	RL	Qual Units	DF	Date Analyzed	Batch	
EPA MET	HOD 300.0: ANIONS					Analyst	CJS	
Chloride		71	60	mg/Kg	20	5/22/2019 7:08:39 PM	45118	
EPA MET	HOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	: ТОМ	
Diesel Ra	ange Organics (DRO)	ND	9.7	mg/Kg	1	5/21/2019 5:35:21 PM	45011	
Motor Oi	I Range Organics (MRO)	ND	49	mg/Kg	1	5/21/2019 5:35:21 PM	45011	
Surr: D	DNOP	118	70-130	%Rec	1	5/21/2019 5:35:21 PM	45011	
EPA MET	HOD 8015D: GASOLINE RANG	E				Analyst	: NSB	
Gasoline	Range Organics (GRO)	ND	4.9	mg/Kg	1	5/20/2019 4:57:29 PM	44998	
Surr: E	3FB	108	73.8-119	%Rec	1	5/20/2019 4:57:29 PM	44998	
EPA MET	HOD 8021B: VOLATILES					Analyst	: NSB	
Benzene		ND	0.025	mg/Kg	1	5/20/2019 4:57:29 PM	44998	
Toluene		ND	0.049	mg/Kg	1	5/20/2019 4:57:29 PM	44998	
Ethylben	zene	ND	0.049	mg/Kg	1	5/20/2019 4:57:29 PM	44998	
Xylenes,	Total	ND	0.098	mg/Kg	1	5/20/2019 4:57:29 PM	44998	
Surr: 4	1-Bromofluorobenzene	94.7	80-120	%Rec	1	5/20/2019 4:57:29 PM	44998	

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

Qualifiers: * Value exceeds Maximum Contaminant Level.

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

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- NDNot Detected at the Reporting LimitPQLPractical 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 Limit

Page 9 of 16

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 5/28/2019

CLIENT: Souder, Miller & Associates Project: Sterling 4H TB	Client Sample ID: CS6 Collection Date: 5/16/2019 12:21:00 PM						
Lab ID: 1905899-010	Matrix: SOIL		Received Dat	e: 5/1	T/2019 9:00:00 AM		
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch	
EPA METHOD 300.0: ANIONS					Analys	: CJS	
Chloride	180	60	mg/Kg	20	5/22/2019 7:21:04 PM	45118	
EPA METHOD 8015M/D: DIESEL RANGE	E ORGANICS				Analys	: TOM	
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	5/23/2019 8:29:55 PM	45011	
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	5/23/2019 8:29:55 PM	45011	
Surr: DNOP	98.4	70-130	%Rec	1	5/23/2019 8:29:55 PM	45011	
EPA METHOD 8015D: GASOLINE RANG	E				Analys	: NSB	
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/20/2019 6:05:23 PM	44998	
Surr: BFB	111	73.8-119	%Rec	1	5/20/2019 6:05:23 PM	44998	
EPA METHOD 8021B: VOLATILES					Analys	: NSB	
Benzene	ND	0.024	mg/Kg	1	5/20/2019 6:05:23 PM	44998	
Toluene	ND	0.049	mg/Kg	1	5/20/2019 6:05:23 PM	44998	
Ethylbenzene	ND	0.049	mg/Kg	1	5/20/2019 6:05:23 PM	44998	
Xylenes, Total	ND	0.098	mg/Kg	1	5/20/2019 6:05:23 PM	44998	
Surr: 4-Bromofluorobenzene	96.9	80-120	%Rec	1	5/20/2019 6:05:23 PM	44998	

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

Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 10 of 16

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 5/28/2019

CLIENT: Souder, Miller & Associates Project: Sterling 4H TB	Client Sample ID: CS7 Collection Date: 5/16/2019 12:48:00 PM					
Lab ID: 1905899-011	Matrix: SOIL		Received Dat	e: 5/1	17/2019 9:00:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: CJS
Chloride	240	60	mg/Kg	20	5/22/2019 4:38:21 AM	45090
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analys	t: TOM
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	5/21/2019 6:19:42 PM	45011
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	5/21/2019 6:19:42 PM	45011
Surr: DNOP	87.0	70-130	%Rec	1	5/21/2019 6:19:42 PM	45011
EPA METHOD 8015D: GASOLINE RANG	E				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/20/2019 6:27:59 PM	44998
Surr: BFB	108	73.8-119	%Rec	1	5/20/2019 6:27:59 PM	44998
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.024	mg/Kg	1	5/20/2019 6:27:59 PM	44998
Toluene	ND	0.049	mg/Kg	1	5/20/2019 6:27:59 PM	44998
Ethylbenzene	ND	0.049	mg/Kg	1	5/20/2019 6:27:59 PM	44998
Xylenes, Total	ND	0.097	mg/Kg	1	5/20/2019 6:27:59 PM	44998
Surr: 4-Bromofluorobenzene	94.6	80-120	%Rec	1	5/20/2019 6:27:59 PM	44998

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

Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 11 of 16

WO#:	1905899
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28-May-19

Client:	Souder,	Miller & Associates							
Project:	Sterling	4H TB							
Sample ID:	MB-45090	SampType: mblk		TestCode: E	PA Method	300.0: Anions	;		
Client ID:	PBS	Batch ID: 45090		RunNo: 6	0060				
Prep Date:	5/21/2019	Analysis Date: 5/21/2	2019	SeqNo: 2	028103	Units: mg/Kg	9		
Analyte		Result PQL SF	PK value SPK	Ref Val %REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND 1.5							
Sample ID:	LCS-45090	SampType: Ics		TestCode: E	PA Method	300.0: Anions	;		
Client ID:	LCSS	Batch ID: 45090		RunNo: 6	0060				
Prep Date:	5/21/2019	Analysis Date: 5/21/2	2019	SeqNo: 2	028104	Units: mg/Kg	9		
Analyte		Result PQL SF	PK value SPK	Ref Val %REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		15 1.5	15.00	0 96.9	90	110			
Chloride Sample ID:	MB-45118	15 1.5 SampType: mblk	15.00	0 96.9 TestCode: E	90 PA Method	110 300.0: Anions	;		
Chloride Sample ID: Client ID:	MB-45118 PBS	15 1.5 SampType: mblk Batch ID: 45118	15.00	0 96.9 TestCode: E RunNo: 6	90 PA Method 0098	110 300.0: Anions	;		
Chloride Sample ID: Client ID: Prep Date:	MB-45118 PBS 5/22/2019	15 1.5 SampType: mblk Batch ID: 45118 Analysis Date: 5/22/2	15.00 2019	0 96.9 TestCode: E RunNo: 6 SeqNo: 2	90 PA Method 0098 029813	110 300.0: Anions Units: mg/Kg	; ;		
Chloride Sample ID: Client ID: Prep Date: Analyte	MB-45118 PBS 5/22/2019	15 1.5 SampType: mblk Batch ID: 45118 Analysis Date: 5/22/2 Result PQL SF	15.00 2019 PK value SPK	0 96.9 TestCode: E RunNo: 6 SeqNo: 2 Ref Val %REC	90 PA Method 0098 029813 LowLimit	110 300.0: Anions Units: mg/Kg HighLimit	s 3 %RPD	RPDLimit	Qual
Chloride Sample ID: Client ID: Prep Date: Analyte Chloride	MB-45118 PBS 5/22/2019	151.5SampType:mblkBatch ID:45118Analysis Date:5/22/2ResultPQLSFND1.5	15.00 2019 PK value SPK	0 96.9 TestCode: E RunNo: 6 SeqNo: 2 Ref Val %REC	90 PA Method 0098 029813 LowLimit	110 300.0: Anions Units: mg/Kg HighLimit	g %RPD	RPDLimit	Qual
Chloride Sample ID: Client ID: Prep Date: Analyte Chloride Sample ID:	MB-45118 PBS 5/22/2019 LCS-45118	15 1.5 SampType: mblk Batch ID: 45118 Analysis Date: 5/22/2 Result PQL SF ND 1.5 SampType: Ics	15.00 2019 PK value SPK	0 96.9 TestCode: E RunNo: 6 SeqNo: 2 Ref Val %REC TestCode: E	90 PA Method 0098 029813 LowLimit PA Method	110 300.0: Anions Units: mg/Kg HighLimit 300.0: Anions	g %RPD	RPDLimit	Qual
Chloride Sample ID: Client ID: Prep Date: Analyte Chloride Sample ID: Client ID:	MB-45118 PBS 5/22/2019 LCS-45118 LCSS	151.5SampType:mblkBatch ID:45118Analysis Date:5/22/2ResultPQLSFND1.5SampType:IcsBatch ID:45118	15.00 2019 PK value SPK	0 96.9 TestCode: E RunNo: 6 SeqNo: 2 Ref Val %REC TestCode: E RunNo: 6	90 PA Method 0098 029813 LowLimit PA Method 0098	110 300.0: Anions Units: mg/Kg HighLimit 300.0: Anions	g %RPD	RPDLimit	Qual
Chloride Sample ID: Client ID: Prep Date: Analyte Chloride Sample ID: Client ID: Prep Date:	MB-45118 PBS 5/22/2019 LCS-45118 LCSS 5/22/2019	151.5SampType:mblkBatch ID:45118Analysis Date:5/22/2ResultPQLSFND1.5SampType:IcsBatch ID:45118Analysis Date:5/22/2	15.00 2019 PK value SPK	0 96.9 TestCode: E RunNo: 6 SeqNo: 2 Ref Val %REC TestCode: E RunNo: 6 SeqNo: 2	90 PA Method 0098 029813 LowLimit PA Method 0098 029814	110 300.0: Anions Units: mg/Kg HighLimit 300.0: Anions Units: mg/Kg	9 %RPD	RPDLimit	Qual
Chloride Sample ID: Client ID: Prep Date: Analyte Chloride Sample ID: Client ID: Prep Date: Analyte	MB-45118 PBS 5/22/2019 LCS-45118 LCSS 5/22/2019	151.5SampType:mblkBatch ID:45118Analysis Date:5/22/2ResultPQLSFND1.5SampType:IcsBatch ID:45118Analysis Date:5/22/2ResultPQLSF	15.00 2019 PK value SPK 2019 PK value SPK	0 96.9 TestCode: E RunNo: 6 SeqNo: 2 Ref Val %REC TestCode: E RunNo: 6 SeqNo: 2 Ref Val %REC	90 PA Method 0098 029813 LowLimit PA Method 0098 029814 LowLimit	110 300.0: Anions Units: mg/Kg HighLimit 300.0: Anions Units: mg/Kg HighLimit	3 %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 Limit

Page 12 of 16

Client: Project:	Souder, N Sterling 4	/liller & Asso H TB	ciate	es										
Sample ID:	MB-45011	SampType	: ME	BLK	Tes	tCode: E	PA Method	8015M/D: Die	sel Range	e Organics				
Client ID:	PBS	Batch ID	: 45	011	RunNo: 60017									
Prep Date:	5/17/2019	Analysis Date	: 5/	21/2019	S	eqNo: 2	026814	Units: mg/Kg	g					
Analyte		Result F	QL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Diesel Range O	organics (DRO)	ND	10											
Motor Oil Range	e Organics (MRO)	ND	50											
Surr: DNOP		12		10.00		119	70	130						
Sample ID:	LCS-45011	SampType	: LC	S	Tes	tCode: E	PA Method	8015M/D: Die	sel Range	e Organics				
Client ID:	LCSS	Batch ID	: 45	011	R	lunNo: 6	0017							
Prep Date:	5/17/2019	Analysis Date	: 5/	22/2019	S	eqNo: 2	027290	Units: mg/K	g					
Analyte		Result F	QL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Diesel Range O	Organics (DRO)	71	10	50.00	0	141	63.9	124			S			
Surr: DNOP		5.1		5.000		103	70	130						
Sample ID:	LCS-45021	SampType	: LC	S	Test	tCode: E	PA Method	8015M/D: Die	sel Range	e Organics				
Client ID:	LCSS	Batch ID	: 45	021	RunNo: 60017									
Prep Date:	5/20/2019	Analysis Date	: 5/	21/2019	S	eqNo: 2	027291	Units: %Rec						
Analyte		Result F	'QL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Surr: DNOP		4.3		5.000		86.1	70	130						
Sample ID:	MB-45021	SampType	: ME	BLK	Test	tCode: E	PA Method	8015M/D: Die	sel Range	e Organics				
Client ID:	PBS	Batch ID	: 45	021	R	unNo: 6	0017							
Prep Date:	5/20/2019	Analysis Date	: 5/	21/2019	S	eqNo: 2	027292	Units: %Rec						
Analyte		Result F	'QL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Surr: DNOP		9.8		10.00		97.8	70	130						
Sample ID:	LCS-45063	SampType	: LC	S	Tes	tCode: E	PA Method	8015M/D: Die	sel Range	e Organics				
Client ID:	LCSS	Batch ID	: 45	063	R	lunNo: 6	0057							
Prep Date:	5/21/2019	Analysis Date	: 5/	22/2019	S	eqNo: 2	028025	Units: %Rec						

Analyte	Result PQL SPK value			SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Surr: DNOP	4.4		5.000		88.8	70	130				
Sample ID: MB-45063	SampT	ype: MI	BLK	Tes	tCode: El	PA Method	8015M/D: Die	esel Rang	e Organics		
Client ID: PBS	Batch	n ID: 45	063	F	RunNo: 6	0057					
Prep Date: 5/21/2019	Analysis D	ate: 5/	22/2019	8	SeqNo: 2	028027	Units: %Re	C			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Surr: DNOP	9.4		10.00		93.6	70	130				

Qualifiers:

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- 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
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

28-May-19

Client:	Souder,	Miller & A	ssociate	es									
Project:	Sterling	4H TB											
Sample ID: MB-	45162	SampT	ype: ME	BLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	6	Batcl	n ID: 45	162	F	RunNo: 60130							
Prep Date: 5/2	23/2019	Analysis E)ate: 5/	24/2019	S	SeqNo: 2	031736	Units: mg/ #	٢g				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Diesel Range Organi	ics (DRO)	ND	10										
Motor Oil Range Org	anics (MRO)	ND	50										
Surr: DNOP		10		10.00		101	70	130					
Sample ID: LCS	6-45162	SampT	ype: LC	S	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics			
Client ID: LCS	s	Batcl	n ID: 45	162	F	RunNo: 6	0130						
Prep Date: 5/2	23/2019	Analysis D	0ate: 5/	24/2019	S	SeqNo: 2	031737	Units: mg/k	٢g				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Diesel Range Organ	ics (DRO)	47	10	50.00	0	93.0	63.9	124					
Surr: DNOP		4.6		5.000		91.8	70	130					

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Page 14 of 16

5899

28-May-19

Client: Project:	Souder, N Sterling 4	/Iiller & A	ssociat	es										
	Sterning 4													
Sample ID:	MB-44998	SampT	Гуре: М	BLK	Tes	tCode: El	PA Method	8015D: Gaso	oline Rang	е				
Client ID:	PBS	Batc	h ID: 44	998	F	RunNo: 60008								
Prep Date:	5/17/2019	Analysis E	Date: 5	/20/2019	S	SeqNo: 2	025459	Units: mg/H	s: mg/Kg					
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Gasoline Rang	ge Organics (GRO)	ND	5.0											
Surr: BFB		1000		1000		102	73.8	119						
Sample ID:	LCS-44998	SampT	Гуре: L(cs	Tes	tCode: El	PA Method	8015D: Gaso	oline Rang	e				
Client ID:	LCSS	Batc	h ID: 44	998	F									
Prep Date:	5/17/2019	Analysis E	Date: 5	/20/2019	S	SeqNo: 2	025460	Units: mg/k	٢g					
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Gasoline Rang	ge Organics (GRO)	26	5.0	25.00	0	104	80.1	123						
Surr: BFB		1100		1000		112	73.8	119						
Sample ID:	1905899-001AMS	SampT	Гуре: М	S	Tes	tCode: El	oline Rang	e						
Client ID:	SW1	Batc	h ID: 44	998	F	RunNo: 6	0008							
Prep Date:	5/17/2019	Analysis E	Date: 5	/20/2019	S	SeqNo: 2	025462	Units: mg/Kg						
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Gasoline Rang	ge Organics (GRO)	25	5.0	24.93	0	101	69.1	142						
Surr: BFB		1200		997.0		121	73.8	119			S			
Sample ID:	1905899-001AMS) Samp1	Гуре: М	SD	Tes	tCode: El	PA Method	8015D: Gaso	oline Rang	e				
Client ID:	SW1	Batc	h ID: 44	998	F	RunNo: 6	0008							
Prep Date:	5/17/2019	Analysis E	Date: 5	/20/2019	S	BeqNo: 2	025463	Units: mg/Kg						
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Gasoline Rang	ge Organics (GRO)	26	4.9	24.37	0	108	69.1	142	4.77	20				
Surr: BFB		1200		974.7		122	73.8	119	0	0	S			

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QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

28-May-19

Client:	Souder, N	/liller & A	ssociate	es										
Project:	Sterling 4	H TB												
Sample ID:	MB-44998	SampT	ype: MI	BLK	TestCode: EPA Method 8021B: Volatiles									
Client ID:	PBS	Batcl	n ID: 44	998	RunNo: 60008									
Prep Date:	5/17/2019	Analysis D	Date: 5/	20/2019	5	SeqNo: 2	025494	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-Bron	nofluorobenzene	0.94		1.000		94.0	80	120						
Sample ID:	LCS-44998	SampT	ype: LC	S	Tes	tCode: El	PA Method	8021B: Volat	tiles					
Client ID:	LCSS	Batcl	n ID: 44	998	F	RunNo: 6	8000							
Prep Date:	5/17/2019	Analysis D	Date: 5/	20/2019	S	SeqNo: 2	025495	Units: mg/k	٢g					
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Benzene		1.1	0.025	1.000	0	107	80	120						
Toluene		1.1	0.050	1.000	0	106	80	120						
Ethylbenzene		1.1	0.050	1.000	0	106	80	120						
Xylenes, Total		3.1	0.10	3.000	0	102	80	120						
Surr: 4-Bron	nofluorobenzene	1.0		1.000		100	80	120						
Sample ID:	1905899-002AMS	SampT	ype: MS	6	TestCode: EPA Method 8021B: Volatiles									
Client ID:	SW2	Batcl	h ID: 44	998	RunNo: 60008									
Prep Date:	5/17/2019	Analysis D	Date: 5/	20/2019	S	SeqNo: 2	025498	Units: mg/k	٢g					
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Benzene		0.98	0.025	0.9881	0	98.7	63.9	127						
Toluene		1.0	0.049	0.9881	0.004286	103	69.9	131						
Ethylbenzene		1.0	0.049	0.9881	0	103	71	132						
Xylenes, Total		3.0	0.099	2.964	0	99.6	71.8	131						
Surr: 4-Bron	nofluorobenzene	1.1		0.9881		107	80	120						
Sample ID:	1905899-002AMSE	SampT	ype: MS	SD	Tes	tCode: El	PA Method	8021B: Vola	tiles					
Client ID:	SW2	Batcl	n ID: 44	998	F	RunNo: 6	8000							
Prep Date:	5/17/2019	Analysis D	Date: 5/	20/2019	S	SeqNo: 2	025499	Units: mg/k	٢g					
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Benzene		1.0	0.024	0.9671	0	105	63.9	127	4.21	20				
Toluene		1.0	0.048	0.9671	0.004286	105	69.9	131	0.232	20				
Ethylbenzene		1.0	0.048	0.9671	0	104	71	132	0.898	20				
Xylenes, Total		2.9	0.097	2.901	0	101	71.8	131	1.05	20				
Surr: 4-Bron	nofluorobenzene	1.0		0.9671		104	80	120	0	0				

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	HALL ENVIR ANAL LABO	ONMEN Ysis Ratory	TAL	Ha TE	ll Environme L: 505-345- Website: ww	ental Analys 490 Albuquerqu 3975 FAX: 2 w.hallenvire	is Laborator Hawkins N 1e, NM 8710 505-345-410 pommental.com	y E 9 Sar 7	nple Log-In (Check List
Clie	nt Name:	SMA-CA	RLSBAD	Work	Order Num	nber: 1905	899		RcptNo	: 1
Rece	eived By:	Jevon C	ampisi	5/17/20	19 9:00:00	АМ	(Juan Campisi		
Com Revi	ewed By:	Isaiah C ENM	ortiz	5/17/20 5/17	19 10:16:3 /19	7 AM		ILC	2×	
01	CBI	DAD S,	17/19							
<u>Chai</u>	Chain of Cus	<u>tody</u>								
1. IS		ustody com	ipiete?			Yes	V	No 🗀	Not Present	
2. н	ow was the	sample de	livered?			Couri	er			
<u>Log</u> 3. w	<u>n In</u> 'as an atterr	ipt made to	cool the sam	nples?		Yes	\checkmark	No 🗌		
4. W	ere all samp	oles receive	ed at a tempe	rature of >0° C	to 6.0°C	Yes		No 🗌		
5. Sa	ample(s) in p	proper cont	ainer(s)?			Yes	>	No 🗌		
6. Su	fficient sam	ple volume	for indicated	test(s)?		Yes		No 🗌		
7. Are	e samples (except VO	A and ONG) p	properly preserve	ed?	Yes	\checkmark	No 🗌		
8. Wa	as preserva	tive added	to bottles?			Yes		No 🔽	NA 🗌	
9. VC	0A vials hav	e zero hea	dspace?			Yes		No 🗌	No VOA Vials 🗹	/
10. W	ere any san	nple contai	ners received	broken?		Yes		No 🗹	# of preserved	
11. Do (No	es paperwo ote discrepa	rk match b Incies on c	ottle labels? hain of custoo	iy)		Yes		No 🗌	bottles checked for pH: (<2 or	⇒12 unless noted)
12. Are	e matrices c	orrectly ide	entified on Cha	ain of Custody?		Yes		No 🗌	Adjusted?	
13. ls i	t clear what	analyses	were requeste	ed?		Yes		No 🗌		
14. We (If i	ere all holdir no, notify cu	ng times ab Istomer for	le to be met? authorization	.)		Yes		No 🗌	Checked by:]	DAD 5/17/19
Speci	ial Handli	ing (if ap	plicable)							
15. W	as client no	tified of all	discrepancies	with this order?		Yes		No 🗌	NA 🗹	
	Person	Notified:	Γ		Date					
*	By Who	m:			Via:	🗌 eMa	I 🗌 Phor	ne 🗌 Fax	In Person	· · · ·
	Regardi Client In	ng: istructions:								
16 A	dditional rer	narke	,							
17 0	ooler Infor	nation								
. <u>.</u>	Cooler No	Temp °(C Condition	Seal Intact	Seal No	Seal Da	e Sid	ned Bv	* environment	
	1	0.6	Good	Yes	CONTRACTOR IN			- 40 Y 20 A 27 Y 20 A 2		
2	2	1.3	Good	Yes						

	ANALYSTS LARODATODY	www.hallenvironmental.com	4901 Hawkins NE - Albuquerque, NM 87109	Tel. 505-345-3975 Fax 505-345-4107	Analysis Request	(1) (1) (1)	2802 умс 28's 28's 28's 28's 28's 28's 28's 28's) s's (05) P()))))))))))))))))))	.626 3085 1, 1) 1, DF	05 202 202 202 202 202 202 202 202 202 2	TBE D)(GI b) D) D) D) D) D D D D D D D D D D D D	M M M 9151 0151 0116 20116 20116	2270 (% 2015) 2015) 2015) 2014 2016) 2014 2016) 2014 2014 2014 2014 2014 2014 2014 2014				× ×		X X			X X	X X			Remarks:	A chile maximell	* please cc Asmiller. Com w/ results *	s possibility. Any sub-contracted data will be clearly notated on the analytical report.
Turn-Around Time:	K Standard	Project Name:	Sterling 44 15	Project #:		Project Manager:	L D'He (Soo	11. 101101 0011	Sampler: H.M.P	On Ice: DYes DNo	# of Coolers: Z	Cooler Lemp(including CF): 0.1 C / 1.4 C · 0.1 CF	Container Preservative HEAL No.	Hot Joe 100-	/ 200-	- 003	-004	-002	-CD6	600-	200-	-009	-010	- DII	0	Received by: Via: Date Time	Received by: Via:	hos g71-2 g.ad	ohigacted to other accredited laboratories. This serves as notice of this
Chain-of-Custody Record	Client: SMN &	Carlibad	Mailing Address:		Phone #:	email or Fax#:	QA/QC Package:	Standard Level 4 (Full Validation)	Accreditation:	NELAC Other	EDD (Type)		Data Timo Matrix Samula Nama	Silorg 12:04 Soil SWI	1 13:10 / SW2	(13:16 (SW3	12:45 SWY	/ IN:34) CSI	(No:36 / CS3	1 10:41 C53	1 10:53 CSH	IN: CH CS S	112.21 1 CS C	1 13:48 V CS7		Date: Time: Relinquished by:	Date: / Time: Relinquighed by:	SILUAN 99 WM	If necessary, samples submitted to Hall Environmental may be subco