

July 1, 2019

#55E26816-BG16

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

SUBJECT: Remediation Closure Report for the Tom Matthews Tank Battery Release (2RP-4995), Malaga, Eddy County, New Mexico

Dear Mr. Hamlet:

On behalf of Matador Resources, Souder, Miller & Associates (SMA) has prepared this Remediation Closure Report that describes the remediation of a release of liquids related to oil and gas production activities at the Tom Matthews Tank Battery site. The site is in Unit L, Section 10, Township 24S, Range 28E, Eddy County, New Mexico, on private land. Figure 1 illustrates the vicinity and site location on an USGS 7.5-minute quadrangle map.

Table 1 summarizes release information and Closure Criteria.

	Table 1: Release Information and Closure Criteria							
Name	Tom Matthews Tank Battery	Company	Matador Resources Company					
API Number	N/A	Location	32.229609° -104.083454°					
Incident Number		2RP-4995						
Estimated Date of Release	9/19/18	Date Reported to NMOCD	9/19/18					
Landowner	VASQUEZ, MIKE M	Reported To	Jim Griswold, Mike Bratcher, Maria Pruett					
Source of Release	Equipment Failure							
Released Volume	920	Released Material	Produced Water					
Recovered Volume	280	Net Release	640					
NMOCD Closure Criteria	<50 feet to groundwater							
SMA Response Dates	9/19/2018, 9/21/2018, 12/20/2018, 6/17/2019							

1.0 Background

On September 19, 2018, a release was discovered at the Tom Matthews Tank Battery site due to equipment failure. Initial response activities were conducted by operator, and included source elimination and site stabilization activities, which recovered approximately 280 barrels of fluid and approximately 40 cubic yards of contaminated soil, which were hauled to and disposed of at an NMOCD approved facility in NM. Figures 1 and 2 illustrate the vicinity and site location, Figure 3 illustrates the release location. The C-141 forms are included in Appendix A.

2.0 Site Information and Closure Criteria

The Tom Matthews Tank Battery is located approximately 0.7 miles west of Malaga, New Mexico on privately-owned land at an elevation of approximately 3,020 feet above mean sea level (amsl).

Based upon the New Mexico Office of the State Engineer (NMOSE) (Appendix B), depth to groundwater in the area is estimated to be 25 feet below grade surface (bgs). There are 4 known water sources within location. ½-mile the according NMOSE online water well database of to the (https://gis.ose.state.nm.us/gisapps/ose_pod_locations/; accessed 1/11/2018). The nearest significant watercourse is Black River, located approximately 0.33 miles north of site. Figure 2 illustrates the site with 200 and 300-foot radii to indicate that it Choose an item. 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 less than 50 feet bgs. The site has been restored to meet the standards of Table I of 19.15.29.12 NMAC. Requesting a deferral per 19.15.29.12.B.(2), to allow the area labeled Deferment in Figure 3 to be deferred due to inaccessibility of soil from the placement of operational equipment. This soil will remain in place until site abonnement which at that point remediation of soils would occur.

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

3.0 Release Characterization Activities and Findings

On September 21, 2018, SMA personnel arrived on site in response to the release associated with backhoe. SMA performed site delineation activities by collecting soil samples around the release site and throughout the visibly stained area.

A total of eight sample locations (L1-L6, BBG1 and BBG2) were investigated using excavated test pits, to depths up to six feet bgs. A total of 15 samples were collected for laboratory analysis for total chloride using EPA Method 300.0. Table 3 itemizes the samples and results as well as identifying any variances from the typical specification of two samples per boring. Locations for all samples are depicted on Figure 3.

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).

As summarized in Table 3, results indicate that an area approximately 2,225 square yards by 1 foot deep and 131 square yards by 2 feet deep had been impacted.

4.0 Soil Remediation Summary

SMA returned to the site to oversee the excavation of contaminated soil. After approval from area utilities via 811, SMA guided the excavation activities by collecting soil samples for field screening chloride, using an electrical conductivity (EC) meter. The walls and base were excavated until the NMOCD Closure Criteria would be met.

On December 20, 2019 SMA conducted confirmation sampling of the walls and base of the excavation. The area around sample locations L1-L5 and B2-B12 was excavated to a depth of 1.5 feet bgs and sample location L6 and BH1 was excavated to a depth of 2.5 feet bgs. The confirmation samples were collected from within the excavation. Confirmation samples were comprised of five-point composites of the base (B1-B12) and walls (SW1, S2-S15).

The area that was originally requested for deferment is shown in Figure 3. This area could not be mechanically excavated due to the proximity of the operational equipment in the area. Sample locations S13 and S14 where taken within the deferment area along the pipelines. On May 6, 2019, NMOCD denied the deferral of these two sample locations due to imminent risk to groundwater. SMA returned to the Tom Matthews Tank Battery location on June 17, 2019 to resample the material between the pipelines and the edge of the original excavation by hand. Sample locations S13 and S14 were then recollected. These two sidwall sample locations can be seen isolated in Figure 4.

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

Contaminated soils were removed and replaced with clean backfill material to return the surface to previous contours. The contaminated soil was transported and disposed of at an NMOCD permitted disposal facility.

5.0 Scope and Limitations

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

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

Submitted by:

Smean Micheleth

SOUDER, MILLER & ASSOCIATES

Reviewed by:

Lucas C. Middleton Staff Scientist Austin Weyant Senior Scientist

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ATTACHMENTS:

Figures:

Figure 1: Vicinity and Well Head Protection Map

Figure 2: Surface Water Radius Map

Figure 3: Site and Sample Location Map

Figure 4: Sidewall Sample Locations (SW13 & SW14)

Tables:

Table 2: NMOCD Closure Criteria Justification

Table 3: Summary of Sample Results

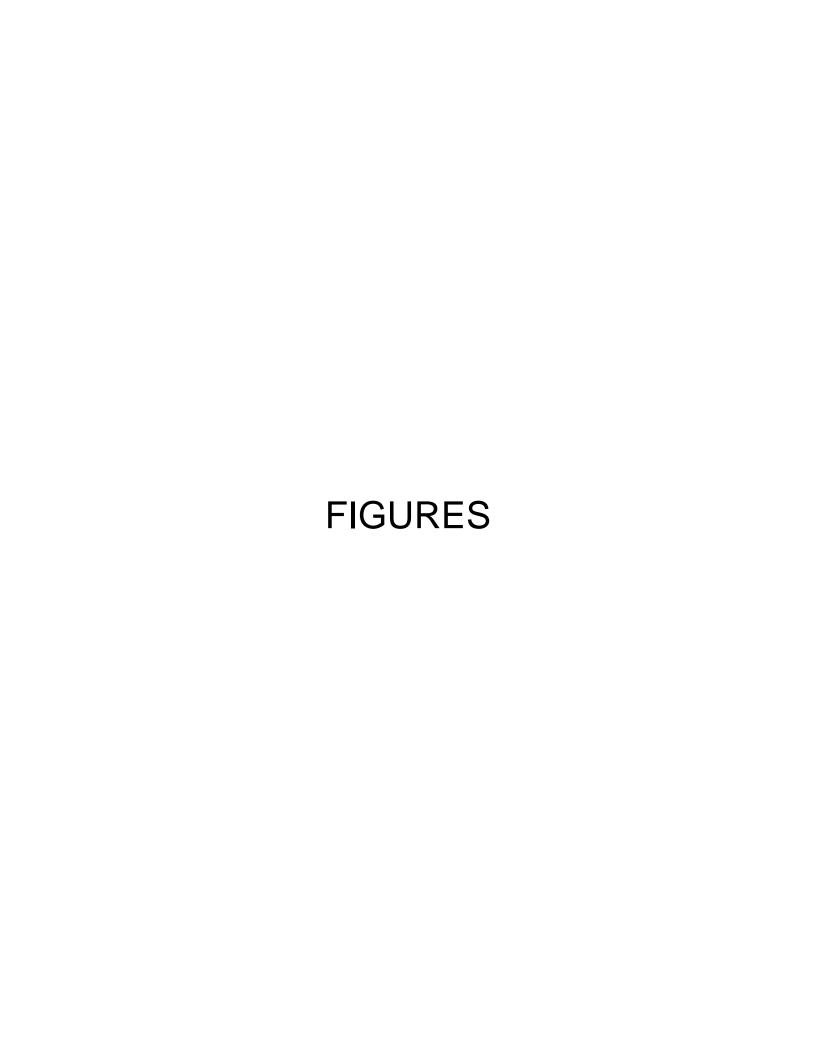
Appendices:

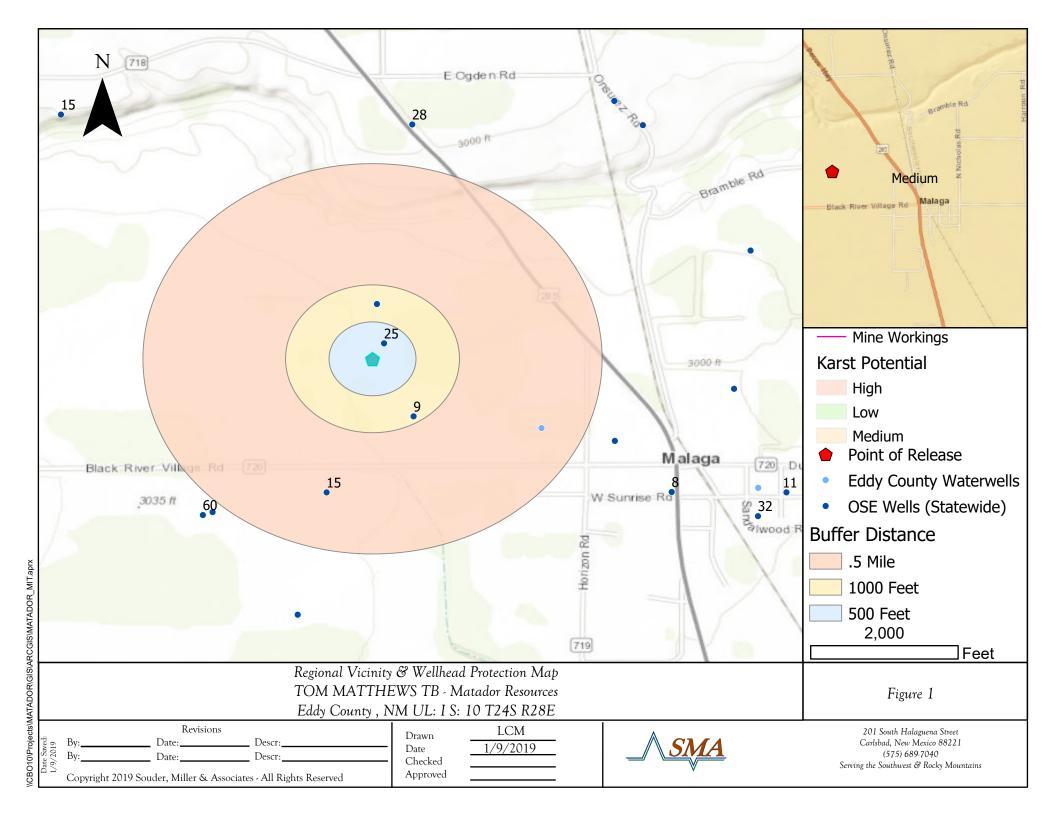
Appendix A: Form C141

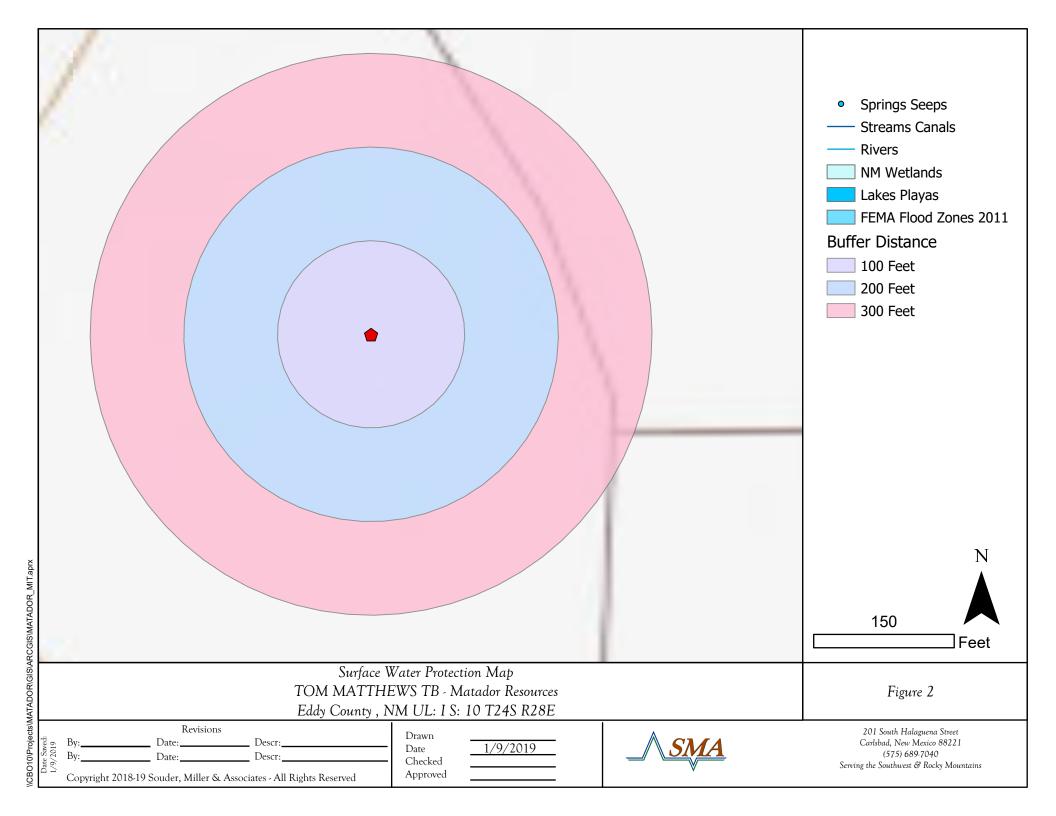
Appendix B: NMOSE Wells Report

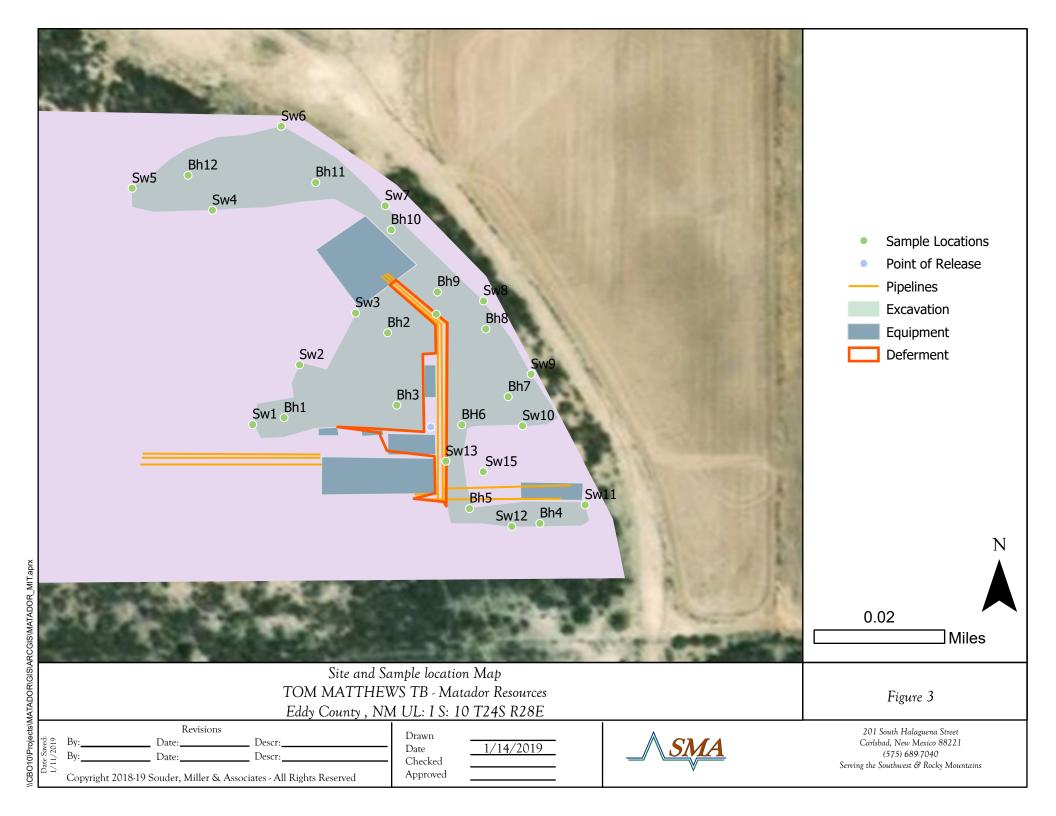
Appendix C: Laboratory Analytical Reports

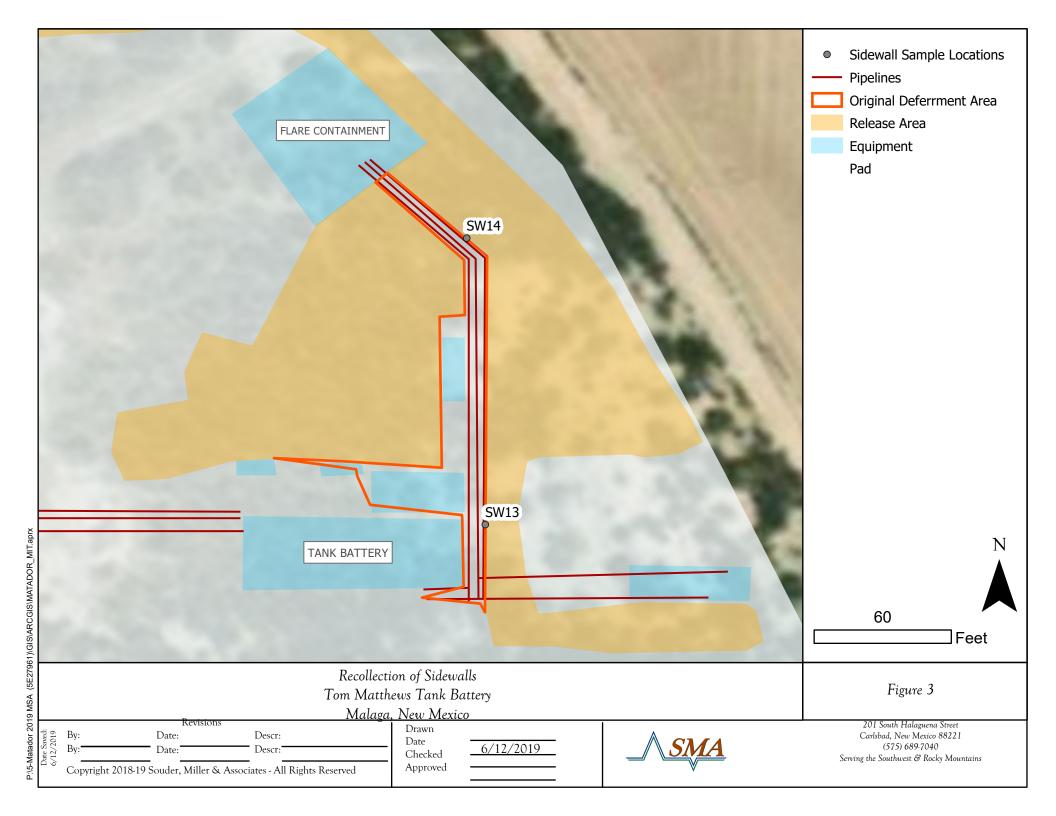
Appendix D: Photo Log

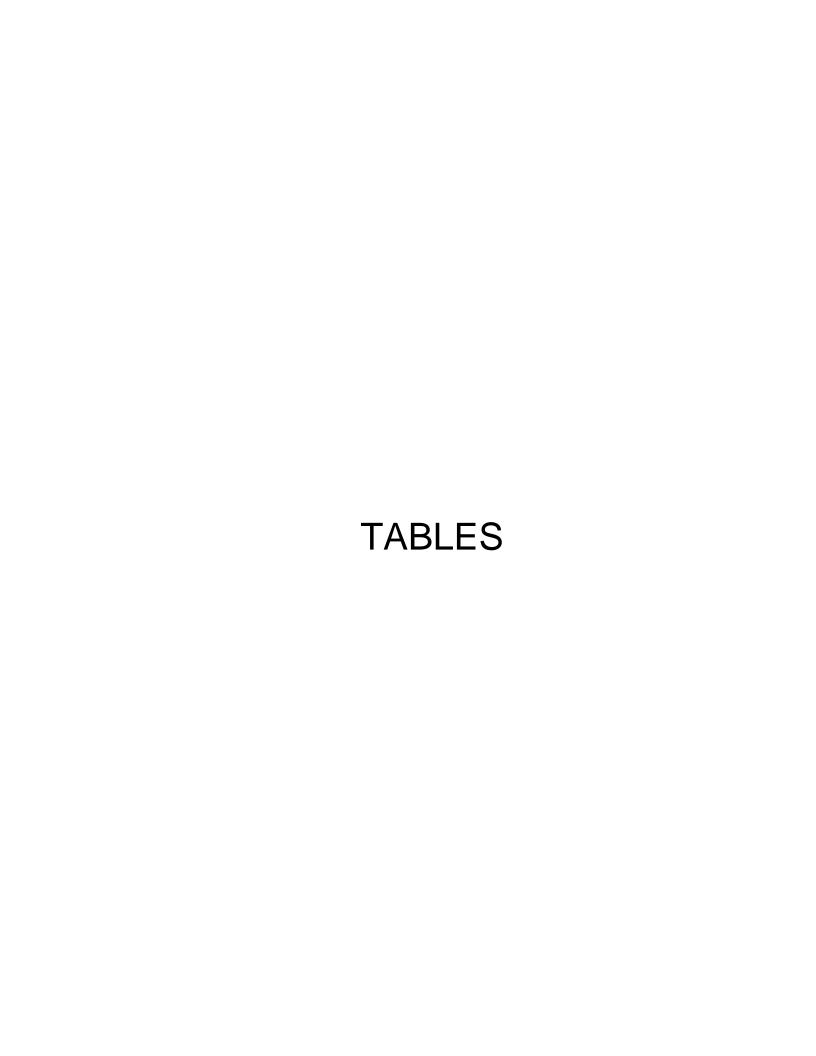












Site Information (19.15.29.11.A(2, 3, and 4) NMAC)	Source/Notes	
Depth to Groundwater (feet bgs)	~20-22	OSE, USGS
Hortizontal Distance From All Water Sources Within 1/2 Mile (ft)	6	OSE, USGS ,USGS7.5 quad Topographic Map
Hortizontal Distance to Nearest Significant Watercourse (ft)	1659	USGS7.5 quad Topographic Map

Closure Criteria (19.15.2	29.12.B(4) an	d Table 1 NMAC)				
	Closure Criteria (units in mg/kg)					
Depth to Groundwater	Chloride *numerical limit or background, whichever is greater	ТРН	GRO + DRO	ВТЕХ	Benzene	
< 50' BGS	Х	600	100		50	10
51' to 100'		10000	2500	1000	50	10
>100'		20000	2500	1000	50	10
Surface Water		if ye	s, then			
<300' from continuously flowing watercourse or other significant						
watercourse?	No					
<200' from lakebed, sinkhole or playa lake?	No					
Water Well or Water Source						
<500 feet from spring or a private, domestic fresh water well used by	VE0					
less than 5 households for domestic or stock watering purposes?	YES					
<1000' from fresh water well or spring?	NO	500	100		50	40
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	140	-				
municipal fresh water well field?	No					
<100' from wetland?	No					
within area overlying a subsurface mine	No	1				
within an unstable area?	No					
within a 100-year floodplain?	No	1				

Table 3: Summary of Sample Results

Sample ID	Sample Date	Depth (feet bgs)	BTEX	Benzene	GRO	DRO	MRO	Total TPH	CI- laboratory
		(leet bgs)	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
NMOCD Closure Criteria			50	10				100	600
SW1	12/20/2018	1'	<0.225	<0.025	<5.0	<10	<50	<65	480
S2	12/20/2018	0.5'	<0.225	<0.025	<5.0	<10	<50	<65	360
S3	12/20/2018	0.5'	<0.225	<0.025	<5.0	<10	<50	<65	230
S4	12/20/2018	0.5'	<0.225	<0.025	<5.0	<10	<50	<65	820
S5	12/20/2018	0.5'	<0.225	<0.025	<5.0	<10	<50	<65	370
S6	12/20/2018	0.5'	<0.225	<0.025	<5.0	<10	<50	<65	99
S7	12/20/2018	0.5'	<0.225	<0.025	<5.0	<10	<50	<65	62
S8	12/20/2018	0.5'	<0.225	<0.025	<5.0	<10	<50	<65	82
S9	12/20/2018	0.5'	<0.225	<0.025	<5.0	<10	<50	<65	41
S10	12/20/2018	0.5'	<0.225	<0.025	<5.0	<10	<50	<65	<30
S11	12/20/2018	0.5'	<0.225	<0.025	<5.0	<10	<50	<65	150
S12	12/20/2018	0.5'	<0.225	<0.025	<5.0	<10	<50	<65	47
S13	12/20/2018	0.5'	<0.025	<0.025	<5.0	63	53	116	12000
513	6/17/2019			-	<5.0	<9.6	<48	<63	75
S14	12/20/2018	0.5'	<0.225	<0.025	<5.0	<10	<50	<65	5700
314	6/17/2019	0.5							92
S15	12/20/2018	0.5'	<0.225	<0.025	<5.0	<10	<50	<65	180
B1	12/20/2018	2.5'	<0.225	<0.025	<5.0	<10	<50	<65	<30
B2	12/20/2018	1.5'	<0.225	<0.025	<5.0	<10	<50	<65	64
B3	12/20/2018	1.5'	<0.225	<0.025	<5.0	<10	<50	<65	93
B4	12/20/2018	1.5'	<0.225	<0.025	<5.0	<10	<50	<65	400
B5	12/20/2018	1.5'	<0.225	<0.025	<5.0	<10	<50	<65	150
В6	12/20/2018	1.5'	<0.225	<0.025	<5.0	<10	<50	<65	72
B7	12/20/2018	1.5'	<0.225	<0.025	<5.0	<10	<50	<65	380
B8	12/20/2018	1.5'	<0.225	<0.025	<5.0	<10	<50	<65	100
B9	12/20/2018	1.5'	<0.225	<0.025	<5.0	<10	<50	<65	62
B10	12/20/2018	1.5'	<0.225	<0.025	<5.0	<10	<50	<65	79
B11	12/20/2018	1.5'	<0.225	<0.025	<5.0	<10	<50	<65	64
B12	12/20/2018	1.5'	<0.225	<0.025	<5.0	<10	<50	<65	57

[&]quot;--" = Not Analyzed

APPENDIX A FORM C141

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

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

Incident ID	NMAP1828226742
District RP	2RP-4995
Facility ID	fMAP1828226389
Application ID	pMAP1828226893

Release Notification

Responsible Party Matador Resources Company				OGRI	OGRID 228937		
Contact Name John Hurt			()		Contact Telephone 972-371-5200		

Contact email <u>Hurt@matadorresources.com</u> Inciden Contact mailing address5400 LBJ Freeway, Suite 1500 Dallas,TX				nt # {5-5000mm as OCONMAP1828226742			
75240	ing address.	0400 LBJ Freewa	y, Suite 1500 Dai	las,TX			
			Location	of Release	Source		
atitude 32.2	29609°		(NATO))	Longitu	de -104.083454°		
Site Name To	OM MATTI	IEWS TB (Tank	Battery)	Site Ty	pe Tank Battery		
Date Release	Discovered	9/19/18 60		†MÄP	1828226389		
Unit Letter	Section	Township	Range		ounty		
Լ	10	24S	28E	Eddy			
			Nature an	a Valume o	. D .		
	Materia	(s) Released (Select a	II that apply and attacl	n calculations or spe			
Crude Oil		Volume Release	d (bbls)	n calculations or spe-	Volume Recovered (bbls)		
Crude Oil		Volume Release	d (bbls) d (bbls) 920		Volume Recovered (bbls) Volume Recovered (bbls)		
Produced	Water	Volume Release Volume Release Is the concentrate	d (bbls) d (bbls) 920 ion of dissolved o		Volume Recovered (bbls)		
	Water	Volume Release	d (bbls) d (bbls) 920 ion of dissolved o > 10.000 mg/l?		Volume Recovered (bbls) Volume Recovered (bbls)		
Produced Condensa Natural G	Water te	Volume Release Volume Release Is the concentral produced water	d (bbls) d (bbls) 920 ion of dissolved of 10.000 mg/l? d (bbls)		Volume Recovered (bbls) Volume Recovered (bbls) Volume Recovered (bbls) 280 Xes No		
Normal Produced	Water te	Volume Release Is the concentral produced water Volume Release Volume Release	d (bbls) d (bbls) 920 ion of dissolved of 10.000 mg/l? d (bbls)	chloride in the	Volume Recovered (bbls) Volume Recovered (bbls) Volume Recovered (bbls) 280 Xes No Volume Recovered (bbls)		

State of New Mexico Oil Conservation Division

Incident ID	NMAP1828226742	Ī
District RP	2RP-4995	
Facility ID	fMAP1828226389	
Application ID	pMAP1828226893	

Was this a major	If YES, for what reason(s) does the responsible party consider this a major release?
release as defined by 19.15.29.7(A) NMAC?	The vacuum truck recovered 280 bbls on 9/19/18
Yes No	
If YES, was immediate no	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?
OCD, Jim Griswold, Miki	e Bratcher and Maria Pruett, from SMA -Lucas Middleton by email @2;48 pm on 9/19/18
	Initial Response
The responsible s	earty must undertake the following ections immediately unless they could create a sufety hazard that would result in injury
The source of the rele	ase has been stopped.
	s been secured to protect human health and the environment.
	ve been contained via the use of berms or dikes, absorbent pads, or other containment devices.
I	coverable materials have been removed and managed appropriately.
	above have not been undertaken, explain why:
11 411 410 80110113 403011000	above have not occur undertaken, explain why.
Per 19.15.29.8 B. (4) NM/	AC the responsible party may commence remediation immediately after discovery of a release. If remediation
within a lined containment	narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
	mation given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and
regulations all operators are n	equired to report and/or file certain release notifications and perform corrective actions for releases which may endanges
public nealth of the environm	ent. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have
addition, OCD acceptance of	te and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In 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 state of the s
	ohn Hurt Title: RES Specialist
Signature:	Date: 10/2/18
email: JHurt@m	atadorresources.com Telephone: 972-371-5200
production ()	reteptible. 972-371-3200
OCD Only	11110
Received by:	Date: 10/09/2018
THE PARTY OF THE P	Date 10/30/2010

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

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

			resp	Olisi	DIC I AI L		
Responsible F	Party Matad	or Resources Com	ipany		OGRID 22	8937	
Contact Name	e John Hurt				Contact Telephone 972-371-5200		
Contact email JHurt@matadorresources.com Incide					Incident #	(assigned by OCD)	
Contact mailing address5400 LBJ Freeway, Suite 1500 Dallas,TX 75240							
			Location	of R	elease So	ource	
1 22 22	20.000					10.1.000.17.10	
Latitude 32,22	29609°		(NAD 83 in dec	cimal de	Longitude - grees to 5 decim	104.083454°	
Site Name TO	M MATTH	IEWS TB (Tank F	Battery)		Site Type T	ank Battery	
Date Release I	Discovered	9/19/1 9 8			API# (if app	licable) n/a	
Unit Letter	Section	Township	Range		Coun	tv	
L	10	24S	28E	Eddy			
			Nature and	l Vol	ume of F	Release justification for the volumes provided below)	
Crude Oil		Volume Release				Volume Recovered (bbls)	
Produced '	Water	Volume Release				Volume Recovered (bbls) 280	
		Is the concentrat produced water	ion of dissolved c >10,000 mg/l?	hloride	in the	⊠ Yes □ No	
☐ Condensat	e	Volume Release	d (bbls)			Volume Recovered (bbls)	
☐ Natural Ga	as	Volume Release	d (Mcf)			Volume Recovered (Mcf)	
Other (des	cribe)	Volume/Weight Released (provide units)				Volume/Weight Recovered (provide units)	
Cause of Rele Equipment Fa		fer Pump failed. R	Releasing fluids or	ı locati	on north, eas	t and south of tank battery. No fluids left the location	

■ Boring or excavation logs

Topographic/Aerial maps

Photographs including date and GIS information

Laboratory data including chain of custody

State of New Mexico Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	$\frac{23}{\text{bgs}}$ (ft
Did this release impact groundwater or surface water? Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☐ No☐ Yes ☐ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ⊠ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ⊠ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	⊠ Yes □ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ 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?	
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 ver contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	tical extents of soil
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 wel ☐ Field data ☐ Data table of soil contaminant concentration data ☐ Depth to water determination 	ls.

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.

Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.							
Printed Name: John Hurt Title:	RES Specialist						
email: JHurt@matadorresources.com	Telephone:972-371-5200						
OCD Only							
Received by:	Date:						

State of New Mexico Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: Each of the following items must be included in the plan.							
 □ Detailed description of proposed remediation technique □ Scaled sitemap with GPS coordinates showing delineation points □ Estimated volume of material to be remediated □ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC □ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required) 							
Deferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation.							
□ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.							
Contamination does not cause an imminent risk to human health, the environment, or groundwater.							
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.							
Printed Name: Title: RES Specialist Date:							
email: JHurt@matadorresources.com Telephone: 972-371-5200							
OCD Only							
Received by: Date:							
Approved Approved Deferral Approved Deferral Approved							
Signature: Date:							

State of New Mexico Oil Conservation Division

Closure Report Attachment Checklist: Each of the following items must be included in the closure report.

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

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

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: Printed Name:
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 NMOSE WELLS REPORT



New Mexico Office of the State Engineer

Water Right Summary

WR File Number: C 00764 Subbasin: - Cross Reference:-

Primary Purpose: IRR IRRIGATION
Primary Status: LIC LICENSED

Total Acres: 39.3 **Subfile:** 24 28 10 A

Total Diversion: 117.9 Cause/Case: -

Owner: MIKE M. VASQUEZ

Documents on File

			Sta	tus		From/			
Trn# D	oc F	ile/Act	1	2	Transaction Desc.	То	Acres	Diversion C	onsumptive
245357 C	COWNP	2002-10-29	PMT	APR	C 00764 A	F	6.8	20.4	
228783 C	COWNF	2002-03-18	CHG	PRC	C 00764	Т	0	0	
156621 L	IC 196	3-11-22	LIC	PRC	C-764	Т	46.1	138.3	
156619 C	CLWPP	1958-08-11	PMT	APR	C-764	Т	0	0	
156619 C	CLWPP	1958-08-11	PMT	APR	C-764	F	0	0	
156446 A	ALTD 1	957-05-09	PMT	PBU	6 & C-764	Т	57	171	

Current Points of Diversion

Q Q Q (NAD83 UTM in meters)

POD Number	Source 6416 4 SecTws Rng	X Y	Other Location Desc
<u>C 00764</u>	Shallow 3 1 3 10 24S 28E	586399 3566292*	
SP 00006	4 1 3 12 21S 26E	570265 3595078	AVALON DAM GATE TO CID MAIN CA
SP 01927	4 12 24S 27E	581032 3566097*	

^{*}An (*) after northing value indicates UTM location was derived from PLSS - see Help

Priority Summary

Priority	Status	Acres	Diversion	Pod Number	Source
03/22/1957	LIC	39.3	117.9	C 00764	Shallow
				SP 00006	
				SP 01927	

Place of Use

Q	Q	Q	Q	l						
256	64	16	4	Sec Tws Rng	Acres	Diversion	CU	Use	Priority	Status Other Location Desc
			3	10 24S 28E	16.4	19.2		IRR	03/22/1957	LIC
	1	1	3	10 24S 28E	2.2	6.6		IRR	03/22/1957	LIC
	1	4	3	10 24S 28E	4.4	13.2		IRR	03/22/1957	LIC
	2	1	3	10 24S 28E	2.6	7.8		IRR	03/22/1957	LIC
	2	4	3	10 24S 28E	6.6	19.8		IRR	03/22/1957	LIC
	3	1	3	10 24S 28E	1.7	5.1		IRR	03/22/1957	LIC
	4	1	3	10 24S 28E	9.8	29.4		IRR	03/22/1957	LIC

Source

Acres Diversion	CU Use Priority	Source Description

24 28 10 A

Source

Acres	Diversion	CU	Use	Priority	Source	Description
46.1	138.3		IRR	03/22/1957	GW	
39.3	117.9		IRR	03/22/1957	GW	

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

APPENDIX C LABORATORY ANALYTICAL REPORTS



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

January 04, 2019

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

FAX

RE: Tom Mathews TB OrderNo.: 1812E91

Dear Austin Weyant:

Hall Environmental Analysis Laboratory received 27 sample(s) on 12/29/2018 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 1/4/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: SW 1

Project: Tom Mathews TB
 Collection Date: 12/20/2018 10:30:00 AM

 Lab ID: 1812E91-001
 Matrix: SOIL
 Received Date: 12/29/2018 11:00:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: smb
Chloride	480	30	mg/Kg	20	1/2/2019 3:19:22 PM	42398
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	:: Irm
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	1/3/2019 5:44:44 PM	42388
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	1/3/2019 5:44:44 PM	42388
Surr: DNOP	112	50.6-138	%Rec	1	1/3/2019 5:44:44 PM	42388
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	1/2/2019 2:41:26 PM	42380
Surr: BFB	99.8	73.8-119	%Rec	1	1/2/2019 2:41:26 PM	42380
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	1/2/2019 2:41:26 PM	42380
Toluene	ND	0.048	mg/Kg	1	1/2/2019 2:41:26 PM	42380
Ethylbenzene	ND	0.048	mg/Kg	1	1/2/2019 2:41:26 PM	42380
Xylenes, Total	ND	0.095	mg/Kg	1	1/2/2019 2:41:26 PM	42380
Surr: 4-Bromofluorobenzene	95.5	80-120	%Rec	1	1/2/2019 2:41:26 PM	42380

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 1 of 35
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL Reporting Detection Limit	
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Date Reported: 1/4/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: S 2

Project: Tom Mathews TB
 Collection Date: 12/20/2018 10:35:00 AM

 Lab ID: 1812E91-002
 Matrix: SOIL
 Received Date: 12/29/2018 11:00:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	: smb
Chloride	360	30	mg/Kg	20	1/2/2019 3:31:46 PM	42398
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analys	t: Irm
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	1/3/2019 6:06:29 PM	42388
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	1/3/2019 6:06:29 PM	42388
Surr: DNOP	134	50.6-138	%Rec	1	1/3/2019 6:06:29 PM	42388
EPA METHOD 8015D: GASOLINE RANGE					Analys	: NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	1/2/2019 3:49:36 PM	42380
Surr: BFB	88.8	73.8-119	%Rec	1	1/2/2019 3:49:36 PM	42380
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.023	mg/Kg	1	1/2/2019 3:49:36 PM	42380
Toluene	ND	0.046	mg/Kg	1	1/2/2019 3:49:36 PM	42380
Ethylbenzene	ND	0.046	mg/Kg	1	1/2/2019 3:49:36 PM	42380
Xylenes, Total	ND	0.092	mg/Kg	1	1/2/2019 3:49:36 PM	42380
Surr: 4-Bromofluorobenzene	91.0	80-120	%Rec	1	1/2/2019 3:49:36 PM	42380

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 2 of 35
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Date Reported: 1/4/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: S 3

Project: Tom Mathews TB
 Collection Date: 12/20/2018 10:40:00 AM

 Lab ID: 1812E91-003
 Matrix: SOIL
 Received Date: 12/29/2018 11:00:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: smb
Chloride	230	30	mg/Kg	20	1/2/2019 3:44:11 PM	42398
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	:: Irm
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	1/3/2019 6:28:19 PM	42388
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	1/3/2019 6:28:19 PM	42388
Surr: DNOP	115	50.6-138	%Rec	1	1/3/2019 6:28:19 PM	42388
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	1/2/2019 4:12:18 PM	42380
Surr: BFB	88.7	73.8-119	%Rec	1	1/2/2019 4:12:18 PM	42380
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	1/2/2019 4:12:18 PM	42380
Toluene	ND	0.049	mg/Kg	1	1/2/2019 4:12:18 PM	42380
Ethylbenzene	ND	0.049	mg/Kg	1	1/2/2019 4:12:18 PM	42380
Xylenes, Total	ND	0.098	mg/Kg	1	1/2/2019 4:12:18 PM	42380
Surr: 4-Bromofluorobenzene	90.1	80-120	%Rec	1	1/2/2019 4:12:18 PM	42380

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 3 of 35
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: S 4

 Project:
 Tom Mathews TB
 Collection Date: 12/20/2018 10:45:00 AM

 Lab ID:
 1812E91-004
 Matrix: SOIL
 Received Date: 12/29/2018 11:00:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: smb
Chloride	820	30	mg/Kg	20	1/2/2019 3:56:35 PM	42398
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: Irm
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	1/3/2019 6:49:58 PM	42388
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	1/3/2019 6:49:58 PM	42388
Surr: DNOP	111	50.6-138	%Rec	1	1/3/2019 6:49:58 PM	42388
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	1/2/2019 6:51:13 PM	42380
Surr: BFB	92.4	73.8-119	%Rec	1	1/2/2019 6:51:13 PM	42380
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.023	mg/Kg	1	1/2/2019 6:51:13 PM	42380
Toluene	ND	0.047	mg/Kg	1	1/2/2019 6:51:13 PM	42380
Ethylbenzene	ND	0.047	mg/Kg	1	1/2/2019 6:51:13 PM	42380
Xylenes, Total	ND	0.093	mg/Kg	1	1/2/2019 6:51:13 PM	42380
Surr: 4-Bromofluorobenzene	96.2	80-120	%Rec	1	1/2/2019 6:51:13 PM	42380

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 4 of 35
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL Reporting Detection Limit	
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: S 5

Project: Tom Mathews TB
 Collection Date: 12/20/2018 10:50:00 AM

 Lab ID: 1812E91-005
 Matrix: SOIL
 Received Date: 12/29/2018 11:00:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	:: smb
Chloride	370	30	mg/Kg	20	1/2/2019 4:09:00 PM	42398
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS				Analyst	:: Irm
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	1/3/2019 7:11:54 PM	42388
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	1/3/2019 7:11:54 PM	42388
Surr: DNOP	117	50.6-138	%Rec	1	1/3/2019 7:11:54 PM	42388
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	1/2/2019 7:13:55 PM	42380
Surr: BFB	90.8	73.8-119	%Rec	1	1/2/2019 7:13:55 PM	42380
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	1/2/2019 7:13:55 PM	42380
Toluene	ND	0.047	mg/Kg	1	1/2/2019 7:13:55 PM	42380
Ethylbenzene	ND	0.047	mg/Kg	1	1/2/2019 7:13:55 PM	42380
Xylenes, Total	ND	0.094	mg/Kg	1	1/2/2019 7:13:55 PM	42380
Surr: 4-Bromofluorobenzene	93.0	80-120	%Rec	1	1/2/2019 7:13:55 PM	42380

-						
Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank		
	D	Sample Diluted Due to Matrix	E	Value above quantitation range		
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 5 of 35		
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range		
	PQL	Practical Quanitative Limit	RL Reporting Detection Limit			
	S	% Recovery outside of range due to dilution or matrix	W	W Sample container temperature is out of limit as specified		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: S 6

Project: Tom Mathews TB
 Collection Date: 12/20/2018 10:55:00 AM

 Lab ID: 1812E91-006
 Matrix: SOIL
 Received Date: 12/29/2018 11:00:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	:: smb
Chloride	99	30	mg/Kg	20	1/2/2019 4:21:25 PM	42398
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS				Analyst	:: Irm
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	1/3/2019 7:33:38 PM	42388
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	1/3/2019 7:33:38 PM	42388
Surr: DNOP	114	50.6-138	%Rec	1	1/3/2019 7:33:38 PM	42388
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	1/2/2019 7:36:32 PM	42380
Surr: BFB	92.0	73.8-119	%Rec	1	1/2/2019 7:36:32 PM	42380
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	1/2/2019 7:36:32 PM	42380
Toluene	ND	0.047	mg/Kg	1	1/2/2019 7:36:32 PM	42380
Ethylbenzene	ND	0.047	mg/Kg	1	1/2/2019 7:36:32 PM	42380
Xylenes, Total	ND	0.094	mg/Kg	1	1/2/2019 7:36:32 PM	42380
Surr: 4-Bromofluorobenzene	94.5	80-120	%Rec	1	1/2/2019 7:36:32 PM	42380

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: S 7

Project: Tom Mathews TB
 Collection Date: 12/20/2018 10:57:00 AM

 Lab ID: 1812E91-007
 Matrix: SOIL
 Received Date: 12/29/2018 11:00:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: smb
Chloride	62	30	mg/Kg	20	1/2/2019 4:58:39 PM	42408
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	:: Irm
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	1/3/2019 7:55:38 PM	42388
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	1/3/2019 7:55:38 PM	42388
Surr: DNOP	103	50.6-138	%Rec	1	1/3/2019 7:55:38 PM	42388
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	1/2/2019 7:59:11 PM	42380
Surr: BFB	93.5	73.8-119	%Rec	1	1/2/2019 7:59:11 PM	42380
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	1/2/2019 7:59:11 PM	42380
Toluene	ND	0.048	mg/Kg	1	1/2/2019 7:59:11 PM	42380
Ethylbenzene	ND	0.048	mg/Kg	1	1/2/2019 7:59:11 PM	42380
Xylenes, Total	ND	0.096	mg/Kg	1	1/2/2019 7:59:11 PM	42380
Surr: 4-Bromofluorobenzene	95.1	80-120	%Rec	1	1/2/2019 7:59:11 PM	42380

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 7 of 35
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Date Reported: 1/4/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: S 8

Project: Tom Mathews TB
 Collection Date: 12/20/2018 11:00:00 AM

 Lab ID: 1812E91-008
 Matrix: SOIL
 Received Date: 12/29/2018 11:00:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	: smb
Chloride	82	30	mg/Kg	20	1/2/2019 6:00:42 PM	42408
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analys	t: Irm
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	1/3/2019 8:17:17 PM	42388
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	1/3/2019 8:17:17 PM	42388
Surr: DNOP	102	50.6-138	%Rec	1	1/3/2019 8:17:17 PM	42388
EPA METHOD 8015D: GASOLINE RANGE					Analys	: NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	1/2/2019 8:21:47 PM	42380
Surr: BFB	91.8	73.8-119	%Rec	1	1/2/2019 8:21:47 PM	42380
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.023	mg/Kg	1	1/2/2019 8:21:47 PM	42380
Toluene	ND	0.046	mg/Kg	1	1/2/2019 8:21:47 PM	42380
Ethylbenzene	ND	0.046	mg/Kg	1	1/2/2019 8:21:47 PM	42380
Xylenes, Total	ND	0.092	mg/Kg	1	1/2/2019 8:21:47 PM	42380
Surr: 4-Bromofluorobenzene	92.8	80-120	%Rec	1	1/2/2019 8:21:47 PM	42380

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 8 of 35
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: S 9

Project: Tom Mathews TB
 Collection Date: 12/20/2018 11:03:00 AM

 Lab ID: 1812E91-009
 Matrix: SOIL
 Received Date: 12/29/2018 11:00:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: smb
Chloride	41	30	mg/Kg	20	1/2/2019 6:13:06 PM	42408
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	:: Irm
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	1/3/2019 8:39:20 PM	42388
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	1/3/2019 8:39:20 PM	42388
Surr: DNOP	83.2	50.6-138	%Rec	1	1/3/2019 8:39:20 PM	42388
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	1/2/2019 8:44:21 PM	42380
Surr: BFB	89.8	73.8-119	%Rec	1	1/2/2019 8:44:21 PM	42380
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.023	mg/Kg	1	1/2/2019 8:44:21 PM	42380
Toluene	ND	0.046	mg/Kg	1	1/2/2019 8:44:21 PM	42380
Ethylbenzene	ND	0.046	mg/Kg	1	1/2/2019 8:44:21 PM	42380
Xylenes, Total	ND	0.092	mg/Kg	1	1/2/2019 8:44:21 PM	42380
Surr: 4-Bromofluorobenzene	90.7	80-120	%Rec	1	1/2/2019 8:44:21 PM	42380

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 9 of 35
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: S 10

Project: Tom Mathews TB
 Collection Date: 12/20/2018 11:06:00 AM

 Lab ID: 1812E91-010
 Matrix: SOIL
 Received Date: 12/29/2018 11:00:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	:: smb
Chloride	ND	30	mg/Kg	20	1/2/2019 6:25:30 PM	42408
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	:: Irm
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	1/3/2019 9:01:01 PM	42388
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	1/3/2019 9:01:01 PM	42388
Surr: DNOP	81.1	50.6-138	%Rec	1	1/3/2019 9:01:01 PM	42388
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	1/2/2019 9:06:58 PM	42380
Surr: BFB	93.3	73.8-119	%Rec	1	1/2/2019 9:06:58 PM	42380
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	1/2/2019 9:06:58 PM	42380
Toluene	ND	0.048	mg/Kg	1	1/2/2019 9:06:58 PM	42380
Ethylbenzene	ND	0.048	mg/Kg	1	1/2/2019 9:06:58 PM	42380
Xylenes, Total	ND	0.097	mg/Kg	1	1/2/2019 9:06:58 PM	42380
Surr: 4-Bromofluorobenzene	94.3	80-120	%Rec	1	1/2/2019 9:06:58 PM	42380

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit Page 10 of 35
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Date Reported: 1/4/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: S 11

Project: Tom Mathews TB
 Collection Date: 12/20/2018 11:10:00 AM

 Lab ID: 1812E91-011
 Matrix: SOIL
 Received Date: 12/29/2018 11:00:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: smb
Chloride	150	30	mg/Kg	20	1/2/2019 6:37:55 PM	42408
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analys	t: Irm
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	1/3/2019 9:22:53 PM	42388
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	1/3/2019 9:22:53 PM	42388
Surr: DNOP	77.0	50.6-138	%Rec	1	1/3/2019 9:22:53 PM	42388
EPA METHOD 8015D: GASOLINE RANGE					Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	1/2/2019 9:29:34 PM	42380
Surr: BFB	91.8	73.8-119	%Rec	1	1/2/2019 9:29:34 PM	42380
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.024	mg/Kg	1	1/2/2019 9:29:34 PM	42380
Toluene	ND	0.047	mg/Kg	1	1/2/2019 9:29:34 PM	42380
Ethylbenzene	ND	0.047	mg/Kg	1	1/2/2019 9:29:34 PM	42380
Xylenes, Total	ND	0.094	mg/Kg	1	1/2/2019 9:29:34 PM	42380
Surr: 4-Bromofluorobenzene	94.2	80-120	%Rec	1	1/2/2019 9:29:34 PM	42380

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 11 of 35
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 1/4/2019

CLIENT: Souder, Miller & Associates Client Sample ID: S 12

Project: Tom Mathews TB
 Collection Date: 12/20/2018 11:15:00 AM

 Lab ID: 1812E91-012
 Matrix: SOIL
 Received Date: 12/29/2018 11:00:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: smb
Chloride	47	30	mg/Kg	20	1/2/2019 6:50:19 PM	42408
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	:: Irm
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	1/3/2019 9:44:36 PM	42388
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	1/3/2019 9:44:36 PM	42388
Surr: DNOP	82.7	50.6-138	%Rec	1	1/3/2019 9:44:36 PM	42388
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	1/2/2019 9:52:14 PM	42380
Surr: BFB	94.1	73.8-119	%Rec	1	1/2/2019 9:52:14 PM	42380
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	1/2/2019 9:52:14 PM	42380
Toluene	ND	0.049	mg/Kg	1	1/2/2019 9:52:14 PM	42380
Ethylbenzene	ND	0.049	mg/Kg	1	1/2/2019 9:52:14 PM	42380
Xylenes, Total	ND	0.098	mg/Kg	1	1/2/2019 9:52:14 PM	42380
Surr: 4-Bromofluorobenzene	95.5	80-120	%Rec	1	1/2/2019 9:52:14 PM	42380

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 12 of 35
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: S 13

Project: Tom Mathews TB
 Collection Date: 12/20/2018 11:20:00 AM

 Lab ID: 1812E91-013
 Matrix: SOIL
 Received Date: 12/29/2018 11:00:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: smb
Chloride	12000	750	mg/Kg	500	0 1/3/2019 4:02:54 PM	42408
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: Irm
Diesel Range Organics (DRO)	63	9.9	mg/Kg	1	1/3/2019 10:06:30 PM	42388
Motor Oil Range Organics (MRO)	53	50	mg/Kg	1	1/3/2019 10:06:30 PM	42388
Surr: DNOP	87.1	50.6-138	%Rec	1	1/3/2019 10:06:30 PM	42388
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	1/2/2019 10:14:48 PM	42380
Surr: BFB	95.0	73.8-119	%Rec	1	1/2/2019 10:14:48 PM	42380
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	1/2/2019 10:14:48 PM	42380
Toluene	ND	0.049	mg/Kg	1	1/2/2019 10:14:48 PM	42380
Ethylbenzene	ND	0.049	mg/Kg	1	1/2/2019 10:14:48 PM	42380
Xylenes, Total	ND	0.098	mg/Kg	1	1/2/2019 10:14:48 PM	42380
Surr: 4-Bromofluorobenzene	95.1	80-120	%Rec	1	1/2/2019 10:14:48 PM	42380

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 13 of 35
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: S 14

Project: Tom Mathews TB
 Collection Date: 12/20/2018 11:25:00 AM

 Lab ID: 1812E91-014
 Matrix: SOIL
 Received Date: 12/29/2018 11:00:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	smb
Chloride	5700	300	mg/Kg	200	1/3/2019 4:15:19 PM	42408
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: Irm
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	1/2/2019 2:26:22 PM	42389
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	1/2/2019 2:26:22 PM	42389
Surr: DNOP	99.4	50.6-138	%Rec	1	1/2/2019 2:26:22 PM	42389
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	1/2/2019 11:45:09 PM	42380
Surr: BFB	92.6	73.8-119	%Rec	1	1/2/2019 11:45:09 PM	42380
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	1/2/2019 11:45:09 PM	42380
Toluene	ND	0.048	mg/Kg	1	1/2/2019 11:45:09 PM	42380
Ethylbenzene	ND	0.048	mg/Kg	1	1/2/2019 11:45:09 PM	42380
Xylenes, Total	ND	0.096	mg/Kg	1	1/2/2019 11:45:09 PM	42380
Surr: 4-Bromofluorobenzene	94.5	80-120	%Rec	1	1/2/2019 11:45:09 PM	42380

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 14 of 35
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Date Reported: 1/4/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: S 15

Project: Tom Mathews TB
 Collection Date: 12/20/2018 11:30:00 AM

 Lab ID: 1812E91-015
 Matrix: SOIL
 Received Date: 12/29/2018 11:00:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: smb
Chloride	180	30	mg/Kg	20	1/2/2019 7:27:32 PM	42408
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: Irm
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	1/2/2019 3:32:25 PM	42389
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	1/2/2019 3:32:25 PM	42389
Surr: DNOP	66.6	50.6-138	%Rec	1	1/2/2019 3:32:25 PM	42389
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	1/3/2019 12:07:54 AM	42380
Surr: BFB	92.3	73.8-119	%Rec	1	1/3/2019 12:07:54 AM	42380
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	1/3/2019 12:07:54 AM	42380
Toluene	ND	0.048	mg/Kg	1	1/3/2019 12:07:54 AM	42380
Ethylbenzene	ND	0.048	mg/Kg	1	1/3/2019 12:07:54 AM	42380
Xylenes, Total	ND	0.097	mg/Kg	1	1/3/2019 12:07:54 AM	42380
Surr: 4-Bromofluorobenzene	94.7	80-120	%Rec	1	1/3/2019 12:07:54 AM	42380

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit Page 15 of 35
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 1/4/2019

CLIENT: Souder, Miller & Associates Client Sample ID: B 1

Project: Tom Mathews TB
 Collection Date: 12/20/2018 11:35:00 AM

 Lab ID: 1812E91-016
 Matrix: SOIL
 Received Date: 12/29/2018 11:00:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	smb
Chloride	ND	30	mg/Kg	20	1/2/2019 8:04:45 PM	42408
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: Irm
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	1/2/2019 3:54:27 PM	42389
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	1/2/2019 3:54:27 PM	42389
Surr: DNOP	71.6	50.6-138	%Rec	1	1/2/2019 3:54:27 PM	42389
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	1/3/2019 12:30:48 AM	42380
Surr: BFB	91.8	73.8-119	%Rec	1	1/3/2019 12:30:48 AM	42380
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	1/3/2019 12:30:48 AM	42380
Toluene	ND	0.048	mg/Kg	1	1/3/2019 12:30:48 AM	42380
Ethylbenzene	ND	0.048	mg/Kg	1	1/3/2019 12:30:48 AM	42380
Xylenes, Total	ND	0.096	mg/Kg	1	1/3/2019 12:30:48 AM	42380
Surr: 4-Bromofluorobenzene	93.6	80-120	%Rec	1	1/3/2019 12:30:48 AM	42380

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 16 of 35
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: B 2

Project: Tom Mathews TB
 Collection Date: 12/20/2018 11:37:00 AM

 Lab ID: 1812E91-017
 Matrix: SOIL
 Received Date: 12/29/2018 11:00:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: smb
Chloride	64	30	mg/Kg	20	1/2/2019 8:17:10 PM	42408
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	: Irm
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	1/2/2019 4:16:30 PM	42389
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	1/2/2019 4:16:30 PM	42389
Surr: DNOP	67.3	50.6-138	%Rec	1	1/2/2019 4:16:30 PM	42389
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	1/3/2019 12:53:49 AM	42380
Surr: BFB	89.1	73.8-119	%Rec	1	1/3/2019 12:53:49 AM	42380
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	1/3/2019 12:53:49 AM	42380
Toluene	ND	0.048	mg/Kg	1	1/3/2019 12:53:49 AM	42380
Ethylbenzene	ND	0.048	mg/Kg	1	1/3/2019 12:53:49 AM	42380
Xylenes, Total	ND	0.096	mg/Kg	1	1/3/2019 12:53:49 AM	42380
Surr: 4-Bromofluorobenzene	91.2	80-120	%Rec	1	1/3/2019 12:53:49 AM	42380

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 17 of 35
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: B 3

Project: Tom Mathews TB
 Collection Date: 12/20/2018 11:40:00 AM

 Lab ID: 1812E91-018
 Matrix: SOIL
 Received Date: 12/29/2018 11:00:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	: smb
Chloride	93	30	mg/Kg	20	1/2/2019 8:54:23 PM	42408
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analys	t: Irm
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	1/2/2019 4:38:31 PM	42389
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	1/2/2019 4:38:31 PM	42389
Surr: DNOP	68.1	50.6-138	%Rec	1	1/2/2019 4:38:31 PM	42389
EPA METHOD 8015D: GASOLINE RANGE					Analys	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	1/3/2019 1:16:52 AM	42380
Surr: BFB	87.9	73.8-119	%Rec	1	1/3/2019 1:16:52 AM	42380
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.024	mg/Kg	1	1/3/2019 1:16:52 AM	42380
Toluene	ND	0.048	mg/Kg	1	1/3/2019 1:16:52 AM	42380
Ethylbenzene	ND	0.048	mg/Kg	1	1/3/2019 1:16:52 AM	42380
Xylenes, Total	ND	0.097	mg/Kg	1	1/3/2019 1:16:52 AM	42380
Surr: 4-Bromofluorobenzene	89.0	80-120	%Rec	1	1/3/2019 1:16:52 AM	42380

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 18 of 35
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: B 4

Project: Tom Mathews TB
 Collection Date: 12/20/2018 11:43:00 AM

 Lab ID: 1812E91-019
 Matrix: SOIL
 Received Date: 12/29/2018 11:00:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	:: smb
Chloride	400	30	mg/Kg	20	1/2/2019 9:06:47 PM	42408
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS				Analyst	:: Irm
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	1/2/2019 5:00:31 PM	42389
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	1/2/2019 5:00:31 PM	42389
Surr: DNOP	52.8	50.6-138	%Rec	1	1/2/2019 5:00:31 PM	42389
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	1/2/2019 7:41:43 PM	42381
Surr: BFB	89.0	73.8-119	%Rec	1	1/2/2019 7:41:43 PM	42381
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	1/2/2019 7:41:43 PM	42381
Toluene	ND	0.047	mg/Kg	1	1/2/2019 7:41:43 PM	42381
Ethylbenzene	ND	0.047	mg/Kg	1	1/2/2019 7:41:43 PM	42381
Xylenes, Total	ND	0.095	mg/Kg	1	1/2/2019 7:41:43 PM	42381
Surr: 4-Bromofluorobenzene	91.2	80-120	%Rec	1	1/2/2019 7:41:43 PM	42381

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 19 of 35
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Date Reported: 1/4/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: B 5

Project: Tom Mathews TB
 Collection Date: 12/20/2018 11:45:00 AM

 Lab ID: 1812E91-020
 Matrix: SOIL
 Received Date: 12/29/2018 11:00:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	:: smb
Chloride	150	30	mg/Kg	20	1/2/2019 9:19:12 PM	42408
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	:: Irm
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	1/2/2019 5:22:28 PM	42389
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	1/2/2019 5:22:28 PM	42389
Surr: DNOP	62.6	50.6-138	%Rec	1	1/2/2019 5:22:28 PM	42389
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	1/2/2019 8:05:36 PM	42381
Surr: BFB	87.4	73.8-119	%Rec	1	1/2/2019 8:05:36 PM	42381
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	1/2/2019 8:05:36 PM	42381
Toluene	ND	0.047	mg/Kg	1	1/2/2019 8:05:36 PM	42381
Ethylbenzene	ND	0.047	mg/Kg	1	1/2/2019 8:05:36 PM	42381
Xylenes, Total	ND	0.095	mg/Kg	1	1/2/2019 8:05:36 PM	42381
Surr: 4-Bromofluorobenzene	90.3	80-120	%Rec	1	1/2/2019 8:05:36 PM	42381

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 20 of 35
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: B 6

 Project:
 Tom Mathews TB
 Collection Date: 12/20/2018 11:50:00 AM

 Lab ID:
 1812E91-021
 Matrix: SOIL
 Received Date: 12/29/2018 11:00:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	:: smb
Chloride	72	30	mg/Kg	20	1/2/2019 9:31:36 PM	42408
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	:: Irm
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	1/2/2019 5:44:11 PM	42389
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	1/2/2019 5:44:11 PM	42389
Surr: DNOP	58.2	50.6-138	%Rec	1	1/2/2019 5:44:11 PM	42389
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	1/2/2019 8:29:28 PM	42381
Surr: BFB	90.1	73.8-119	%Rec	1	1/2/2019 8:29:28 PM	42381
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.025	mg/Kg	1	1/2/2019 8:29:28 PM	42381
Toluene	ND	0.049	mg/Kg	1	1/2/2019 8:29:28 PM	42381
Ethylbenzene	ND	0.049	mg/Kg	1	1/2/2019 8:29:28 PM	42381
Xylenes, Total	ND	0.099	mg/Kg	1	1/2/2019 8:29:28 PM	42381
Surr: 4-Bromofluorobenzene	92.6	80-120	%Rec	1	1/2/2019 8:29:28 PM	42381

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 21 of 35
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 1/4/2019

CLIENT: Souder, Miller & Associates Client Sample ID: B 7

 Project:
 Tom Mathews TB
 Collection Date: 12/20/2018 11:55:00 AM

 Lab ID:
 1812E91-022
 Matrix: SOIL
 Received Date: 12/29/2018 11:00:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: smb
Chloride	380	30	mg/Kg	20	1/2/2019 9:44:00 PM	42408
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	:: Irm
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	1/2/2019 6:06:10 PM	42389
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	1/2/2019 6:06:10 PM	42389
Surr: DNOP	69.2	50.6-138	%Rec	1	1/2/2019 6:06:10 PM	42389
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	1/2/2019 8:53:24 PM	42381
Surr: BFB	85.3	73.8-119	%Rec	1	1/2/2019 8:53:24 PM	42381
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	1/2/2019 8:53:24 PM	42381
Toluene	ND	0.048	mg/Kg	1	1/2/2019 8:53:24 PM	42381
Ethylbenzene	ND	0.048	mg/Kg	1	1/2/2019 8:53:24 PM	42381
Xylenes, Total	ND	0.096	mg/Kg	1	1/2/2019 8:53:24 PM	42381
Surr: 4-Bromofluorobenzene	88.1	80-120	%Rec	1	1/2/2019 8:53:24 PM	42381

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	Е	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 22 of 35
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Date Reported: 1/4/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: B 8

Project: Tom Mathews TB
 Collection Date: 12/20/2018 11:57:00 AM

 Lab ID: 1812E91-023
 Matrix: SOIL
 Received Date: 12/29/2018 11:00:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	:: smb
Chloride	100	30	mg/Kg	20	1/2/2019 9:56:25 PM	42408
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	:: Irm
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	1/2/2019 6:27:55 PM	42389
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	1/2/2019 6:27:55 PM	42389
Surr: DNOP	61.1	50.6-138	%Rec	1	1/2/2019 6:27:55 PM	42389
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	1/2/2019 9:17:12 PM	42381
Surr: BFB	88.1	73.8-119	%Rec	1	1/2/2019 9:17:12 PM	42381
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	1/2/2019 9:17:12 PM	42381
Toluene	ND	0.047	mg/Kg	1	1/2/2019 9:17:12 PM	42381
Ethylbenzene	ND	0.047	mg/Kg	1	1/2/2019 9:17:12 PM	42381
Xylenes, Total	ND	0.094	mg/Kg	1	1/2/2019 9:17:12 PM	42381
Surr: 4-Bromofluorobenzene	90.7	80-120	%Rec	1	1/2/2019 9:17:12 PM	42381

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit Page 23 of 35
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: B 9

Project: Tom Mathews TB
 Collection Date: 12/20/2018 12:01:00 PM

 Lab ID: 1812E91-024
 Matrix: SOIL
 Received Date: 12/29/2018 11:00:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	smb
Chloride	62	30	mg/Kg	20	1/2/2019 10:33:39 PM	42408
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: Irm
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	1/2/2019 6:49:39 PM	42389
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	1/2/2019 6:49:39 PM	42389
Surr: DNOP	66.9	50.6-138	%Rec	1	1/2/2019 6:49:39 PM	42389
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	1/2/2019 9:40:57 PM	42381
Surr: BFB	89.3	73.8-119	%Rec	1	1/2/2019 9:40:57 PM	42381
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	1/2/2019 9:40:57 PM	42381
Toluene	ND	0.048	mg/Kg	1	1/2/2019 9:40:57 PM	42381
Ethylbenzene	ND	0.048	mg/Kg	1	1/2/2019 9:40:57 PM	42381
Xylenes, Total	ND	0.096	mg/Kg	1	1/2/2019 9:40:57 PM	42381
Surr: 4-Bromofluorobenzene	92.1	80-120	%Rec	1	1/2/2019 9:40:57 PM	42381

Oualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
Quantiers.			ь	•
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit Page 24 of 35
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 1/4/2019

CLIENT: Souder, Miller & Associates Client Sample ID: B 10

Project: Tom Mathews TB
 Collection Date: 12/20/2018 12:05:00 PM

 Lab ID: 1812E91-025
 Matrix: SOIL
 Received Date: 12/29/2018 11:00:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: smb
Chloride	79	30	mg/Kg	20	1/2/2019 10:46:03 PM	42408
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: Irm
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	1/2/2019 7:11:36 PM	42389
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	1/2/2019 7:11:36 PM	42389
Surr: DNOP	74.1	50.6-138	%Rec	1	1/2/2019 7:11:36 PM	42389
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	1/2/2019 10:04:36 PM	42381
Surr: BFB	91.3	73.8-119	%Rec	1	1/2/2019 10:04:36 PM	42381
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	1/2/2019 10:04:36 PM	42381
Toluene	ND	0.048	mg/Kg	1	1/2/2019 10:04:36 PM	42381
Ethylbenzene	ND	0.048	mg/Kg	1	1/2/2019 10:04:36 PM	42381
Xylenes, Total	ND	0.096	mg/Kg	1	1/2/2019 10:04:36 PM	42381
Surr: 4-Bromofluorobenzene	93.8	80-120	%Rec	1	1/2/2019 10:04:36 PM	42381

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 25 of 35
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 1/4/2019

CLIENT: Souder, Miller & Associates Client Sample ID: B 11

Project: Tom Mathews TB
 Collection Date: 12/20/2018 12:10:00 PM

 Lab ID: 1812E91-026
 Matrix: SOIL
 Received Date: 12/29/2018 11:00:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	smb
Chloride	64	30	mg/Kg	20	1/2/2019 10:58:28 PM	42408
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: Irm
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	1/2/2019 7:33:26 PM	42389
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	1/2/2019 7:33:26 PM	42389
Surr: DNOP	63.5	50.6-138	%Rec	1	1/2/2019 7:33:26 PM	42389
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	1/2/2019 10:28:09 PM	42381
Surr: BFB	88.8	73.8-119	%Rec	1	1/2/2019 10:28:09 PM	42381
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.025	mg/Kg	1	1/2/2019 10:28:09 PM	42381
Toluene	ND	0.050	mg/Kg	1	1/2/2019 10:28:09 PM	42381
Ethylbenzene	ND	0.050	mg/Kg	1	1/2/2019 10:28:09 PM	42381
Xylenes, Total	ND	0.099	mg/Kg	1	1/2/2019 10:28:09 PM	42381
Surr: 4-Bromofluorobenzene	90.1	80-120	%Rec	1	1/2/2019 10:28:09 PM	42381

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 26 of 35
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: B 12

Project: Tom Mathews TB
 Collection Date: 12/20/2018 12:15:00 PM

 Lab ID: 1812E91-027
 Matrix: SOIL
 Received Date: 12/29/2018 11:00:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	smb
Chloride	57	30	mg/Kg	20	1/3/2019 10:15:27 AM	42421
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: Irm
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	1/2/2019 7:55:17 PM	42389
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	1/2/2019 7:55:17 PM	42389
Surr: DNOP	55.8	50.6-138	%Rec	1	1/2/2019 7:55:17 PM	42389
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	1/2/2019 10:51:40 PM	42381
Surr: BFB	91.7	73.8-119	%Rec	1	1/2/2019 10:51:40 PM	42381
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	1/2/2019 10:51:40 PM	42381
Toluene	ND	0.048	mg/Kg	1	1/2/2019 10:51:40 PM	42381
Ethylbenzene	ND	0.048	mg/Kg	1	1/2/2019 10:51:40 PM	42381
Xylenes, Total	ND	0.097	mg/Kg	1	1/2/2019 10:51:40 PM	42381
Surr: 4-Bromofluorobenzene	94.1	80-120	%Rec	1	1/2/2019 10:51:40 PM	42381

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 27 of 35
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#: 1812E91

04-Jan-19

Client: Souder, Miller & Associates

Project: Tom Mathews TB

Sample ID MB-42398 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: **PBS** Batch ID: 42398 RunNo: 56726

Prep Date: Analysis Date: 1/2/2019 SeqNo: 1898555 1/2/2019 Units: mg/Kg

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual

Chloride ND 1.5

Sample ID LCS-42398 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 42398 RunNo: 56726

Prep Date: 1/2/2019 Analysis Date: 1/2/2019 SeqNo: 1898556 Units: mg/Kg

SPK value SPK Ref Val %REC **RPDLimit** Analyte Result PQL LowLimit HighLimit %RPD Qual

_ Chloride 14 1.5 15.00 0 93.6 110

Sample ID MB-42408 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: **PBS** Batch ID: 42408 RunNo: 56726

Analysis Date: 1/2/2019 Prep Date: 1/2/2019 SeqNo: 1898585 Units: mg/Kg

Result **PQL** SPK value SPK Ref Val %REC LowLimit %RPD **RPDLimit** Qual Analyte HighLimit

Chloride ND 1.5

Sample ID LCS-42408 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: Batch ID: 42408 RunNo: 56726 LCSS

Prep Date: 1/2/2019 Analysis Date: 1/2/2019 SeqNo: 1898586 Units: mg/Kg

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual

Chloride 14 1.5 15.00 95.3 90

Sample ID MB-42421 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 42421 RunNo: 56759

Analysis Date: 1/3/2019 Prep Date: 1/3/2019 SeqNo: 1899399 Units: mq/Kq

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual

Chloride ND 1.5

Sample ID LCS-42421 SampType: LCS TestCode: EPA Method 300.0: Anions

Batch ID: 42421 Client ID: LCSS RunNo: 56759

Prep Date: 1/3/2019 Analysis Date: 1/3/2019 SeqNo: 1899400 Units: mg/Kg

%RPD Result PQL SPK value SPK Ref Val %REC HighLimit **RPDLimit** Analyte LowLimit Qual

95.0 Chloride 14 1.5 15.00 90 110

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Η Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

POL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

В Analyte detected in the associated Method Blank

Е Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

Sample container temperature is out of limit as specified

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Hall Environmental Analysis Laboratory, Inc.

WO#: **1812E91**

04-Jan-19

Client: Souder, Miller & Associates

Project: Tom Mathews TB

Project: Tom Ma	thews TB									
Sample ID LCS-42389	SampTyp	oe: LC	s	Tes	tCode: El	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID: LCSS	Batch I	D: 42	389	RunNo: 56697						
Prep Date: 12/31/2018	Analysis Dat	te: 1 /	/2/2019	SeqNo: 1898357			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	10	50.00	0	97.5	70	130			
Surr: DNOP	4.0		5.000		79.3	50.6	138			
Sample ID MB-42389	SampTyp	oe: Mi	BLK	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: PBS	Batch I	D: 42	389	F	RunNo: 5	6697				
Prep Date: 12/31/2018	Analysis Dat	te: 1/	/2/2019	8	SeqNo: 1	898358	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10		10.00		100	50.6	138			
Sample ID 1812E91-014AM	S SampType: MS TestCode: EPA Method 8015M/D: Diesel Range Organics									
Client ID: S 14	Batch I	D: 42	389	RunNo: 56697						
Prep Date: 12/31/2018	Analysis Dat	te: 1 /	/2/2019	8	SeqNo: 1	898360	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	58	9.7	48.69	0	119	53.5	126			
Surr: DNOP	2.6		4.869		53.3	50.6	138			
Sample ID 1812E91-014AM	SD SampTyp	ре: М \$	SD	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: S 14	Batch I	D: 42	389	F	RunNo: 5	6697				
Prep Date: 12/31/2018	Analysis Dat	te: 1/	/2/2019	8	SeqNo: 1	898361	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	57	9.7	48.64	0	116	53.5	126	2.23	21.7	
Surr: DNOP	3.4		4.864		69.8	50.6	138	0	0	
Comple ID 1 CC 40200	SampTyp	oe: LC	s	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Sample ID LCS-42388		_		RunNo: 56732						
Client ID: LCSS	Batch I	D: 42	388	r	turrivo. J	0.02				
,	Batch I Analysis Dat				SeqNo: 1		Units: mg/k	(g		
Client ID: LCSS Prep Date: 12/31/2018 Analyte			/3/2019		_		Units: mg/k	(g %RPD	RPDLimit	Qual
Client ID: LCSS Prep Date: 12/31/2018	Analysis Dat	te: 1/	/3/2019	S	SeqNo: 1	898879	_		RPDLimit	Qual

Qualifiers:

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: 1812E91

04-Jan-19

Client: Souder, Miller & Associates

Project: Tom Mathews TB

Sample ID MB-42388 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: PBS Batch ID: 42388 RunNo: 56732 Prep Date: 12/31/2018 Analysis Date: 1/3/2019 SeqNo: 1898880 Units: mg/Kg Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) ND 10 ND 50

Motor Oil Range Organics (MRO)

Surr: DNOP 50.6 9.6 10.00 95.6 138

Sample ID 1812E91-013AMS TestCode: EPA Method 8015M/D: Diesel Range Organics SampType: MS

Client ID: \$ 13 Batch ID: 42388 RunNo: 56732

Prep Date: 12/31/2018 Analysis Date: 1/3/2019 SeqNo: 1899393 Units: mg/Kg

Analyte SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 10 99 49.90 63.22 70.9 53.5 126 Surr: DNOP 4.6 4.990 92.9 50.6 138

Sample ID 1812E91-013AMSD SampType: MSD TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: S 13 Batch ID: 42388 RunNo: 56732

Prep Date: 12/31/2018 Analysis Date: 1/3/2019 SeqNo: 1899394 Units: mg/Kg

Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 100 63.22 82.3 53.5 5.34 21.7 9.9 49.55 126 Surr: DNOP 4.8 4.955 97.0 50.6 138 0 0

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Holding times for preparation or analysis exceeded Η

ND Not Detected at the Reporting Limit

POL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

В Analyte detected in the associated Method Blank

Е Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RLReporting Detection Limit

Sample container temperature is out of limit as specified

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Hall Environmental Analysis Laboratory, Inc.

WO#: 1812E91

04-Jan-19

Client: Souder, Miller & Associates

Project: Tom Mathews TB

Sample ID MB-42379 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: **PBS** Batch ID: 42379 RunNo: 56715

Prep Date: Analysis Date: 1/2/2019 SeqNo: 1897980 12/31/2018 Units: %Rec

Analyte Result SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual

Surr: BFB 88.4 880 1000 73.8 119

Sample ID LCS-42379 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 42379 RunNo: 56715

Prep Date: 12/31/2018 Analysis Date: 1/2/2019 SeqNo: 1897988 Units: %Rec

SPK value SPK Ref Val %REC Analyte Result LowLimit HighLimit %RPD **RPDLimit** Qual

Surr: BFB 1000 1000 104 73.8 119

Sample ID MB-42381 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: **PBS** Batch ID: 42381 RunNo: 56715

Analysis Date: 1/2/2019 SeqNo: 1898027 Prep Date: 12/31/2018 Units: mg/Kg

Result **PQL** SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte LowLimit HighLimit Qual

Gasoline Range Organics (GRO) ND 5.0 880 Surr: BFB 1000 88.3 73.8 119

Sample ID LCS-42381 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 42381 RunNo: 56715

Prep Date: 12/31/2018 Analysis Date: 1/2/2019 SeqNo: 1898028 Units: mg/Kg

%REC %RPD **RPDLimit** Result **PQL** SPK value SPK Ref Val LowLimit HighLimit Qual

Gasoline Range Organics (GRO) 26 5.0 25.00 0 104 80.1 123 Surr: BFB 980 1000 98.3 73.8 119

Sample ID 1812E91-019AMS SampType: MS TestCode: EPA Method 8015D: Gasoline Range

Client ID: Batch ID: 42381 RunNo: 56715

Prep Date: 12/31/2018 Analysis Date: 1/2/2019 SeqNo: 1898030 Units: mg/Kg

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 25 0 105 77.8 4.7 128

Gasoline Range Organics (GRO) 23.41 Surr: BFB 960 936.3 103 73.8 119

Sample ID 1812E91-019AMSD SampType: MSD TestCode: EPA Method 8015D: Gasoline Range

Client ID: B 4 Batch ID: 42381 RunNo: 56715

Prep Date: 12/31/2018 Analysis Date: 1/2/2019 SeqNo: 1898031 Units: mg/Kg Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 26 4.8 23.76 0 108 77.8 128 3.92 20 970 950.6 102 73.8 0 119 0 Surr: BFB

Value exceeds Maximum Contaminant Level. В Analyte detected in the associated Method Blank

D Sample Diluted Due to Matrix Е Value above quantitation range

J Holding times for preparation or analysis exceeded Analyte detected below quantitation limits

> P Sample pH Not In Range

RL Reporting Detection Limit

Sample container temperature is out of limit as specified

Page 31 of 35

Qualifiers:

Η

ND Not Detected at the Reporting Limit

POL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

Hall Environmental Analysis Laboratory, Inc.

WO#: **1812E91**

04-Jan-19

Client: Souder, Miller & Associates

Project: Tom Mathews TB

Sample ID MB-42380 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 42380 RunNo: 56716

Prep Date: 12/31/2018 Analysis Date: 1/2/2019 SeqNo: 1898095 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 870 1000 87.2 73.8 119

Sample ID LCS-42380 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 42380 RunNo: 56716

Prep Date: 12/31/2018 Analysis Date: 1/2/2019 SeqNo: 1898096 Units: mg/Kg

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 24 5.0 25.00 95.5 80.1 123 990 98.5 73.8 Surr: BFB 1000 119

Qualifiers:

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

Page 32 of 35

Hall Environmental Analysis Laboratory, Inc.

WO#: **1812E91**

04-Jan-19

Client: Souder, Miller & Associates

Project: Tom Mathews TB

Sample ID MB-42379 SampType: MBLK TestCode: EPA Method 8021B: Volatiles Client ID: **PBS** Batch ID: 42379 RunNo: 56715 Analysis Date: 1/2/2019 SeqNo: 1898052 Prep Date: 12/31/2018 Units: %Rec Analyte Result SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Surr: 4-Bromofluorobenzene 1.000 91.1 80 0.91 120

Sample ID LCS-42379 SampType: LCS TestCode: EPA Method 8021B: Volatiles Client ID: LCSS Batch ID: 42379 RunNo: 56715 Prep Date: 12/31/2018 Analysis Date: 1/2/2019 SeqNo: 1898053 Units: %Rec SPK value SPK Ref Val %REC Analyte Result LowLimit HighLimit %RPD **RPDLimit** Qual Surr: 4-Bromofluorobenzene 0.97 1.000 97.4 120

Sample ID MB-42381 SampType: MBLK TestCode: EPA Method 8021B: Volatiles Client ID: Batch ID: 42381 RunNo: 56715 Analysis Date: 1/2/2019 Prep Date: 12/31/2018 SeqNo: 1898065 Units: mg/Kg **PQL** SPK value SPK Ref Val %REC LowLimit %RPD **RPDLimit** Analyte Result HighLimit Qual 0.025 Benzene ND Toluene ND 0.050 Ethylbenzene ND 0.050 Xylenes, Total ND 0.10 Surr: 4-Bromofluorobenzene 0.90 1.000 89.9 80 120

SampType: LCS TestCode: EPA Method 8021B: Volatiles Sample ID LCS-42381 Client ID: **LCSS** Batch ID: 42381 RunNo: 56715 Prep Date: 12/31/2018 Analysis Date: 1/2/2019 SeqNo: 1898066 Units: mg/Kg SPK value SPK Ref Val LowLimit %RPD **RPDLimit** Analyte Result PQL %REC HighLimit Qual Benzene 0.95 0.025 1.000 0 94.6 80 120 0.99 0.050 1.000 0 98.9 80 120 Toluene 0.97 0.050 0 97.3 80 Ethylbenzene 1.000 120 Xylenes, Total 0.10 3.000 0 99.3 80 3.0 120 Surr: 4-Bromofluorobenzene 0.95 1.000 94.5 80 120

Sample ID 1812E91-020AMS SampType: MS TestCode: EPA Method 8021B: Volatiles Client ID: B 5 Batch ID: 42381 RunNo: 56715 Prep Date: Analysis Date: 1/2/2019 12/31/2018 SeqNo: 1898069 Units: mg/Kg Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Analyte 0.83 0.025 0.9843 84.5 63.9 127 Benzene 0.91 0.009280 91.6 69.9 0.049 0.9843 131 Toluene Ethylbenzene 0.92 0.049 0.9843 93.9 71 132 2.8 0.098 2.953 0.02633 94.3 71.8 131 Xylenes, Total

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Page 33 of 35

Hall Environmental Analysis Laboratory, Inc.

WO#: **1812E91**

04-Jan-19

Client: Souder, Miller & Associates

Project: Tom Mathews TB

Sample ID 1812E91-020AMS SampType: MS TestCode: EPA Method 8021B: Volatiles

Client ID: **B** 5 Batch ID: **42381** RunNo: **56715**

Prep Date: 12/31/2018 Analysis Date: 1/2/2019 SeqNo: 1898069 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Surr: 4-Bromofluorobenzene 0.89 0.9843 90.6 80 120

Sample ID 1812E91-020AMSD SampType: MSD TestCode: EPA Method 8021B: Volatiles

Client ID: **B** 5 Batch ID: **42381** RunNo: **56715**

Prep Date: 12/31/2018 Analysis Date: 1/2/2019 SeqNo: 1898070 Units: mq/Kq

Frep Date. 12/31/2016	Allalysis L	Jale. II	2/2019		eqivo. I	090070	Office. Hig/r	y		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.81	0.023	0.9251	0	87.9	63.9	127	2.23	20	
Toluene	0.85	0.046	0.9251	0.009280	91.1	69.9	131	6.75	20	
Ethylbenzene	0.85	0.046	0.9251	0	92.2	71	132	7.98	20	
Xylenes, Total	2.6	0.093	2.775	0.02633	92.5	71.8	131	8.04	20	
Surr: 4-Bromofluorobenzene	0.83		0.9251		89.3	80	120	0	0	

Sample ID MB-42380 SampType: MBLK TestCode: EPA Method 8021B: Volatiles

Client ID: PBS Batch ID: 42380 RunNo: 56716

Prep Date: 12/31/2018 Analysis Date: 1/2/2019 SeqNo: 1898133 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Benzene ND 0.025

 Toluene
 ND
 0.050

 Ethylbenzene
 ND
 0.050

 Xylenes, Total
 ND
 0.10

Surr: 4-Bromofluorobenzene 0.91 1.000 91.2 80 120

Sample ID LCS-42380 SampType: LCS TestCode: EPA Method 8021B: Volatiles

Client ID: LCSS Batch ID: 42380 RunNo: 56716

Prep Date: 12/31/2018	Analysis Date: 1/2/2019			S	SeqNo: 1	898134	Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.81	0.025	1.000	0	81.3	80	120			
Toluene	0.86	0.050	1.000	0	85.8	80	120			
Ethylbenzene	0.90	0.050	1.000	0	90.1	80	120			
Xylenes, Total	2.8	0.10	3.000	0	91.9	80	120			
Surr: 4-Bromofluorobenzene	0.92		1 000		92.3	80	120			

Sample ID 1812E91-001AMS SampType: MS TestCode: EPA Method 8021B: Volatiles

Client ID: SW 1 Batch ID: 42380 RunNo: 56716

Prep Date: 12/31/2018 Analysis Date: 1/2/2019 SeqNo: 1898137 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Page 34 of 35

Hall Environmental Analysis Laboratory, Inc.

WO#: **1812E91**

04-Jan-19

Client: Souder, Miller & Associates

Project: Tom Mathews TB

Sample ID 1812E91-001AMS SampType: MS TestCode: EPA Method 8021B: Volatiles Client ID: SW 1 Batch ID: 42380 RunNo: 56716 SeqNo: 1898137 Prep Date: 12/31/2018 Analysis Date: 1/2/2019 Units: mg/Kg Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Benzene 0.025 0.9862 0.009895 81.0 63.9 0.81 127 0.008321 85.4 69.9 Toluene 0.85 0.049 0.9862 131 0.049 0.008073 90.2 71 Ethylbenzene 0.90 0.9862 132 Xylenes, Total 2.7 0.099 2.959 0.01650 90.9 71.8 131 Surr: 4-Bromofluorobenzene 0.91 0.9862 92.4 80 120

Sample ID 1812E91-001AM	TestCode: EPA Method 8021B: Volatiles									
Client ID: SW 1	R	RunNo: 56716								
Prep Date: 12/31/2018	Analysis D	ate: 1/	2/2019	S	SeqNo: 1	898139	Units: mg/K	ίg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.80	0.023	0.9363	0.009895	83.9	63.9	127	1.60	20	
Toluene	0.88	0.047	0.9363	0.008321	93.3	69.9	131	3.62	20	
Ethylbenzene	0.91	0.047	0.9363	0.008073	96.8	71	132	1.87	20	
Xylenes, Total	2.7	0.094	2.809	0.01650	94.6	71.8	131	1.15	20	
Surr: 4-Bromofluorobenzene	0.90		0.9363		96.6	80	120	0	0	

Qualifiers:

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

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: SMA-CARLSBAD Work Order Number: 1812E91 RcptNo: 1 Received By: **Andy Freeman** 12/29/2018 11:00:00 AM Completed By: Erin Melendrez 12/31/2018 8:43:32 AM Reviewed By: DAD 12/31/18 Chain of Custody 1. Is Chain of Custody complete? Yes 🗹 No 🗌 Not Present 2. How was the sample delivered? Courier Log In 3. Was an attempt made to cool the samples? No 🗌 Yes 🔽 NA 🗌 4. Were all samples received at a temperature of >0° C to 6.0°C No 🗀 Yes 🔽 NA 🗌 5. Sample(s) in proper container(s)? No 🗔 Yes 🗸 6. Sufficient sample volume for indicated test(s)? Yes 🗹 No 🗔 7. Are samples (except VOA and ONG) properly preserved? No 🗌 Yes 🔽 8. Was preservative added to bottles? Yes No 🔽 NA 🗌 9. VOA vials have zero headspace? Yes 🗌 No 🗌 No VOA Vials 10. Were any sample containers received broken? Yes No 🗹 # of preserved bottles checked 11. Does paperwork match bottle labels? Yes 🔽 No 🗌 for pH: (Note discrepancies on chain of custody) (<2 or >12 unless not 12. Are matrices correctly identified on Chain of Custody? Adjusted Yes 🗹 No 🗌 13. Is it clear what analyses were requested? ~ No 14. Were all holding times able to be met? Yes 🗸 No 🗌 Checked by (If no, notify customer for authorization.) Special Handling (if applicable) 15. Was client notified of all discrepancies with this order? Yes 🗌 No 🗔 NA 🗹 Person Notified: Date: By Whom: Via: eMail Phone Fax In Person Regarding: Client Instructions: 16. Additional remarks: 17. Cooler Information Cooler No Temp ℃ Condition Seal Intact Seal No Seal Date 1.7 Good Yes

Chain-of-Custody Record	Turn-Around Time: / / Turn-Around	
Client: SMA - CBAO	□ Standard □ Rush	ANALYSTS LABORATORY
	Project Name:	www.hallenvironmental.com
Mailing Address:	Ton Mathens 16	4901 Hawkins NE - Albuquerque, NM 87109
	Project #:	
Phone #:		Analysis
email or Fax#:	Project Manager:	†O
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Chain-of-Custody Record	Turn-Around Time:	A Die Lorn			•					
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If necessary, semples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.	contracted to other accredited laboratories.	This serves as notice of this	oossibility. Any s	ub-contracte	d data will b	clearly not	ated on the a	nalytical repo	i.



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

July 01, 2019

Melodie Sanjari Souder, Miller & Associates 201 S Halagueno Carlsbad, NM 88221 TEL: FAX

RE: Tom Matthews OrderNo.: 1906928

Dear Melodie Sanjari:

Hall Environmental Analysis Laboratory received 2 sample(s) on 6/18/2019 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued June 25, 2019.

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. 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. All samples are reported as received unless otherwise indicated.

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

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 1906928

Hall Environmental Analysis Laboratory, Inc. Date Reported: 7/1/2019

CLIENT: Souder, Miller & Associates Client Sample ID: SW 13

Collection Date: 6/17/2019 2:00:00 PM **Project:** Tom Matthews 1906928-001 Matrix: SOIL Received Date: 6/18/2019 9:15:00 AM Lab ID:

Analyses	Result	RL Q	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: CJS
Chloride	75	60	mg/Kg	20	6/24/2019 6:15:40 PM	45776
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: JME
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	6/27/2019 1:15:26 PM	45842
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	6/27/2019 1:15:26 PM	45842
Surr: DNOP	95.9	70-130	%Rec	1	6/27/2019 1:15:26 PM	45842
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	6/28/2019 2:42:47 AM	45839
Surr: BFB	90.2	73.8-119	%Rec	1	6/28/2019 2:42:47 AM	45839

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

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

Analytical Report

Lab Order **1906928**

Date Reported: 7/1/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: SW 14

Project: Tom Matthews
 Collection Date: 6/17/2019 1:40:00 PM

 Lab ID: 1906928-002
 Matrix: SOIL
 Received Date: 6/18/2019 9:15:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: CJS
Chloride	92	60	mg/Kg	20	6/24/2019 6:28:04 PM	45776

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

Hall Environmental Analysis Laboratory, Inc.

WO#: **1906928**

01-Jul-19

Client: Souder, Miller & Associates

Project: Tom Matthews

Sample ID: MB-45776 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 45776 RunNo: 60890

Prep Date: 6/24/2019 Analysis Date: 6/24/2019 SeqNo: 2061472 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-45776 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 45776 RunNo: 60890

Prep Date: 6/24/2019 Analysis Date: 6/24/2019 SeqNo: 2061473 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 95.4 90 110

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

APPENDIX D PHOTO LOG





Photo 1: Looking West

Photo 2: Looking North





Photo 3: Looking East

Photo 4: Looking South

Hall Environmental Analysis Laboratory, Inc.

WO#: **1906928**

01-Jul-19

Client: Souder, Miller & Associates

Project: Tom Matthews

Sample ID: MB-45842 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: PBS Batch ID: 45842 RunNo: 60970 Units: mg/Kg Prep Date: 6/26/2019 Analysis Date: 6/27/2019 SeqNo: 2064828 Analyte PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Result Diesel Range Organics (DRO) ND 10 Motor Oil Range Organics (MRO) ND 50 Surr: DNOP 9.7 10.00 97.3 70 130

Sample ID: LCS-45842 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: LCSS Batch ID: 45842 RunNo: 60970

Prep Date: 6/26/2019 Analysis Date: 6/27/2019 SeqNo: 2064829 Units: mg/Kg

SPK value SPK Ref Val %REC Analyte Result PQL LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 51 10 50.00 101 63.9 124 Surr: DNOP 4.9 5.000 98.2 70 130

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

1000

WO#: **1906928**

01-Jul-19

Client: Souder, Miller & Associates

Project: Tom Matthews

Surr: BFB

Sample ID: MB-45834 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range Client ID: PBS Batch ID: 45834 RunNo: 60991 Prep Date: Analysis Date: 6/27/2019 SeqNo: 2065169 Units: %Rec 6/26/2019 SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result LowLimit HighLimit Qual 88.9 119 Surr: BFB 890 1000 73.8

Sample ID: LCS-45834 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range Client ID: LCSS Batch ID: 45834 RunNo: 60991 Prep Date: 6/26/2019 Analysis Date: 6/27/2019 SeqNo: 2065170 Units: %Rec SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result PQL LowLimit HighLimit Qual

102

73.8

119

1000

Sample ID: MB-45839 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range Client ID: PBS Batch ID: 45839 RunNo: 60991 Prep Date: 6/26/2019 Analysis Date: 6/28/2019 SeqNo: 2065185 Units: mg/Kg Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Analyte

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Gasoline Range Organics (GRO) ND 5.0
Surr: BFB 910 1000 90.8 73.8 119

TestCode: EPA Method 8015D: Gasoline Range Sample ID: LCS-45839 SampType: LCS Client ID: LCSS Batch ID: 45839 RunNo: 60991 Prep Date: 6/26/2019 Analysis Date: 6/28/2019 SeqNo: 2065186 Units: mg/Kg PQL SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte Result LowLimit Qual Gasoline Range Organics (GRO) 23 5.0 25.00 0 91.2 80.1 123 Surr: BFB 1000 1000 104 73.8 119

Sample ID: 1906928-001AMS SampType: MS TestCode: EPA Method 8015D: Gasoline Range Client ID: SW 13 Batch ID: 45839 RunNo: 60991 Prep Date: 6/26/2019 Analysis Date: 6/28/2019 SeqNo: 2065188 Units: mg/Kg PQL SPK Ref Val %REC HighLimit %RPD **RPDLimit** Result SPK value LowLimit Qual Gasoline Range Organics (GRO) 5.0 n 96.6 69.1 24 24.90 142 Surr: BFB 1000 996.0 104 73.8 119

Sample ID: 1906928-001AMSD TestCode: EPA Method 8015D: Gasoline Range SampType: MSD Client ID: SW 13 Batch ID: 45839 RunNo: 60991 Prep Date: 6/26/2019 Analysis Date: 6/28/2019 SeqNo: 2065189 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 20 24 5.0 24.95 0 94.3 69.1 142 2.19 Surr: BFB 1000 998.0 105 73.8 119 0 0

Qualifiers:

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

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

Page 5 of 6

Hall Environmental Analysis Laboratory, Inc.

WO#: **1906928**

01-Jul-19

Client: Souder, Miller & Associates

Project: Tom Matthews

Sample ID: LCS-45847 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 45847 RunNo: 61030

Prep Date: 6/26/2019 Analysis Date: 6/28/2019 SeqNo: 2066672 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Surr: BFB 1000 1000 104 73.8 119

Sample ID: MB-45847 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 45847 RunNo: 61030

Prep Date: 6/26/2019 Analysis Date: 6/28/2019 SeqNo: 2066673 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Surr: BFB 910 1000 91.4 73.8 119

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: SMA-CA	RLSBAD	Work Order Num	ber: 1906928		RcptNo:	1
Received By: Jevon C	Campisi	6/18/2019 9:15:00	АМ	Juan Campisi		
Completed By: Leah Ba	ica	6/18/2019 11:41:23	3 AM	Jun Campisi Last Bren		
Reviewed By: Y 6 (118/17			Loab Janear		
Chain of Custody						
Is Chain of Custody com	nplete?		Yes 🗸	No 🗌	Not Present	
2. How was the sample de	livered?		Client			
Log In						
3. Was an attempt made to	cool the samples?		Yes 🗸	No 🗌	NA 🗆	
4. Were all samples receive	ed at a temperature	of >0° C to 6.0°C	Yes 🗸	No 🗌	NA 🗆	
5. Sample(s) in proper conf	tainer(s)?		Yes 🗸	No 🗌		
6. Sufficient sample volume	for indicated test(s)?	Yes 🗸	No 🗌		
7. Are samples (except VO)	A and ONG) properl	y preserved?	Yes 🗸	No 🗌		
8. Was preservative added	to bottles?		Yes	No 🗸	NA 🗌	
9. VOA vials have zero head	dspace?		Yes	No 🗌	No VOA Vials ✔	
10. Were any sample contain	ners received broke	n?	Yes	No 🗸		
					# of preserved bottles checked	
11. Does paperwork match b			Yes 🗸	No 🗌	for pH:	
(Note discrepancies on ci 2. Are matrices correctly ide	15.00	Custody2	Yes 🗸	No 🗆	(<2 or >	12 unless noted)
3. Is it clear what analyses v		Sustody?	Yes 🗸	No 🗆	/ lajuotou.	
14. Were all holding times ab			Yes 🗸	No 🗆	Checked by: F	JM 6/18/19
(If no, notify customer for			100 🖭			0110/10/1
Special Handling (if ap	plicable)					
15. Was client notified of all		his order?	Yes	No 🗌	NA 🗸	
Person Notified:	T	Date		The state of the s		
By Whom:		Via:		hone Fax	In Person	
Regarding:						
Client Instructions:						
16. Additional remarks:						
 Cooler Information Cooler No Temp °C 	Condition Se	al Intact Seal No	Soal Data	Cianod D.		
1 0.0	Good Ves	ai iiitaot Seai IVO	Seal Date	Signed By		

Chain	Chain-of-Custody Record	Turn-Around Time:	950		1				
Client:	(2015/20) XI	□ Standard □ Rush			HALL	LL ENVI	¥ -	ENVIRONMENTAL	
		3				MAKE ISTS LAD		ADOKALOKT	
Mailing Address:	· in	Ow Wather	53	4901 H	Hawkins NF	3 '		Albuquerdue NM 87109	
		Project #:		Tel. 50	505-345-3975	10	x 505-3	Fax 505-345-4107	
Phone #:						Anal	Analysis Request	est	
email or Fax#:		Project Manager:				†O		(1)(
QA/QC Package:	: □ Level 4 (Full Validation)	M. Sanjag	. '	NAM / C	SWIS	S ԠOd		192dA\1	
Accreditation:	☐ Az Con☐ Other	Sampler: WQ S	No No	O / DB(Presen	
□ EDD (Type)	1 1	olers: ((GE		10 ³ '	ΟΛ-) w.	
		Cooler Temp(including CF): 032	-03°E 0.0°C	12D(/ '1	-imə	nojilo	
Date Time	Matrix Sample Name	Container Preservative Type and # Type	HEAL NO. 1966 928	\ X∃T8 `08:H9T 39	EDB (M	RCRA 8	V) 0928 S) 0728	oO lstoT	
09.6 H.H.9	Si Sw 13	2017	100			_	-		
5 1:40	SW 14	~\ ~\	2007			X			
			v -		1 1 1		9 8		
			1						
									i
			TO A						i
									1
Date: Time: 6.17.9	that boutson	Received by: Wasi	Frame (12)/(2//9 /500)	Remarks: Matado	dor	7			
Date: Time:	Relinquisheld by:	Received by: Via: Control	Date Time (-18-19 9:15						
If If necessary	If necessary, samples submitted to Hall Environmental may be subconfracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.	ontracted to other accredited laboratories.	This serves as notice of this p	ossibility. Any su	o-contracted	data will be cle	early notated	d on the analytical report.	