

May 14, 2019

#5E27960 - BG6

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

SUBJECT: Remediation Closure Report for the Janie Conner Tank Battery Release (2RP-5289), Eddy County New Mexico

To Whom it May Concern:

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 Janie Conner Tank Battery. The site is in Unit A, Section 14, 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	Janie Conner Tank Battery	Company	Matador Resources		
API Number	N/A	Location	32.2219634, -104.0504256		
Incident Number		2RP-5289			
Estimated Date of Release	2/19/2019	Date Reported to NMOCD	2/20/2019		
Land Owner	Private	Reported To	NMOCD District II		
Source of Release	Equipment Failure at the Heater Treater				
Released Volume	24 bbls	Released Material	Crude Oil w/ traces of Produced Water		
Recovered Volume	6 bbls	Net Release	18 bbls		
NMOCD Closure Criteria	<50 feet to groundwater				
SMA Response Dates	2/19/2019 4/2/2019 4/25/2019 4/26/2019				

1.0 Background

On February 19, 2019, a release was discovered at the Janie Conner Tank Battery due to equipment failure at the heater treater. The release traveled down surface lines to the west and eventually to the buried production pipeline to the buried pipeline right-of-way (ROW) directly south of location. Initial response activities were conducted by the operator, and included source elimination, site security and stabilization activities which led to the recovery six barrels of standing fluid that was disposed of at an NMOCD approved facility. Figures 1 and 2 illustrate the vicinity and site location, Figure 3 illustrates the release location. The C-141 form is included in Appendix A.

2.0 Site Information and Closure Criteria

The Janie Conner Tank Battery is located in Malaga, New Mexico on privately-owned land at an elevation of approximately 2981 feet above mean sea level (amsl).

Based upon New Mexico Office of the State Engineer (NMOSE) data (Appendix B), depth to groundwater in the area is estimated to be 35-40 feet below grade surface (bgs). There are five known water sources within ½-mile of the location, according to NMOSE online water well database (https://gis.ose.state.nm.us/gisapps/ose pod locations/; accessed 2/22/2019) and the USGS online water well database. The nearest significant watercourse is an unnamed canal, located approximately 230 feet to the north. Figure 2 illustrates the site with 200 and 300-foot radii to indicate that it lies within a sensitive area as described in 19.15.29.12.C(4) NMAC; however, this does not change the NMOCD Closure Criteria Stands for this site.

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 and NMOCD District II approved background chloride concentrations.

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

3.0 Release Characterization and Remediation Activities

On February 19, 2019, SMA personnel arrived on site in response to the release associated with Janie Conner Tank Battery. SMA performed site delineation activities by collecting soil samples around the release site and throughout the visibly stained area. A total of three sample locations (L1-L3) were investigated using a hand-auger, to depths up to 2 feet bgs. A minimum of two samples were collected at each sampling location. A total of eight samples were collected for laboratory analysis of total chloride using EPA Method 300.0; benzene, toluene, ethylbenzene and total xylenes (BTEX) using EPA Method 8021B; and motor, diesel and gasoline range organics (MRO, DRO, and GRO) by EPA Method 8015D. Table 3 itemizes the samples and field-screening results as well as identifying any variances from the typical specification of two samples per boring. Locations for initial samples are depicted on Figure 4A.

Because the site is located in an irrigated river valley which has been characterized by naturally high chloride concentrations in the past, SMA returned to the location to establish several background locations to document this trend. On April 2nd, SMA conducted a background sampling event, establishing four background sample locations up- and down-gradient of the site, to depths up to 10 and 12 feet bgs (JC, JC2, JC3 and JC4). Thirteen of the collected samples were submitted for laboratory analysis for total chloride using EPA Method 300.0. Resulting chloride concentrations varied from 130 mg/kg to 9900 mg/kg (Table 3 & Figure 3).

Janie Conner Tanker Battery Remediation Closure Report (2RP-5289) May 14, 2019

Prior to the construction of the Janie Conner Tank Battery, SMA conducted a baseline sampling event for Matador Resources in late 2016. Three sample locations were established on undisturbed land during this sampling event (P1-P3; Figure 3) and returned the chloride concentrations of 170 mg/kg, 1600 mg/kg and 1800 mg/kg, respectively (Table 3). The data was a portion of a collective report on the Background Soil Data around Malaga/Loving, Eddy County, New Mexico that has been previously submitted to NMOCD in conjunction with other projects (Appendix F).

The data collected from the background and baseline sampling events was discussed in a meeting with NMOCD District II in Artesia, NM on April 15th, 2019. During the meeting, it was discussed that several soil types and soil type mixtures in the Loving and Malaga area will return high sodium chloride levels in the absence of oil and gas production activities. This is not only naturally occurring in several saline soil types in the area, but also a result of poor agricultural and irrigation practices in the area over the past century. This also explains why samples at different depths and different sample locations can range from such a low level to drastically higher. At the conclusion of the meeting, it was understood by SMA that NMOCD would accept an adjusted closure criteria of 1800 mg/kg for chloride reflective of the baseline samples collected prior to oil and gas activity at the location of the Janie Conner Tank Battery.

On April 25 and 26, 2019, SMA returned to the site to oversee the excavation and hydro excavation of contaminated soil. Any part of the release area what was within 2 feet of buried or surface pipelines was removed using hydro-excavation, as per Matador's safety policy. SMA guided the excavation activities by collecting confirmation soil samples for field screening. The walls and base were excavated until field screening results indicated that the NMOCD Closure Criteria specific to the location would be met. The area around sample location L1 was excavated to 3 feet bgs, while the remainder of the release area (represented by L2 and L3) was excavated to a depth of 2 feet bgs. NMOCD was notified on April 23, 2019 that closure samples were expected to be collected in two (2) business days.

The confirmation samples were collected from within the excavation in accordance with a systematic sampling approach detailed in Appendix C. This systematic method meets the EPAs data quality assessment standards (DQA) for composite sampling as defined by (Myers 1997). Confirmation samples were comprised of five-point composites of the base (BH1-BH4) and walls (SW1 – SW5).

Laboratory results indicated that the sample area represented by location BH2 exceeded the site-specific standard for chloride. On May 5, 2019, SMA returned to the location to collect another composite sample from the bottom of the excavation. No further excavation was required.

A total of nine samples were collected for laboratory analysis for total chloride using EPA Method 300.0; benzene, toluene, ethylbenzene and total xylenes (BTEX) using EPA Method 8021B; and motor, diesel and gasoline range organics (MRO, DRO, and GRO) by EPA Method 8015D. Laboratory samples were collected in accordance with the sampling protocol included in Appendix C. Samples were placed into laboratory supplied glassware, labeled, and maintained on ice until delivery to Hall Environmental Analysis Laboratory in Albuquerque, New Mexico (Appendix D).

Figure 4B shows the extent of the excavation and confirmation sample locations. 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.

4.0 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 Melodie R. Sanjari at 574-370-9782 or Shawna Chubbuck at 505-325-7535.

Submitted by: SOUDER, MILLER & ASSOCIATES Reviewed by:

M. Janyan

Melodie Sanjari Staff Scientist

hauna Chubbuck

Shawna Chubbuck Senior Scientist

ATTACHMENTS:

Figures:

Figure 1: Vicinity and Well Head Protection Map Figure 2: Surface Water Radius Map Figure 3: Background Sample Locations Figure 4A: Initial Site and Sample Location Map Figure 4B: Excavation and Confirmation Closure Sample Map

Tables:

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

Appendices:

Appendix A: C141: Initial & Final Appendix B: NMOSE Wells Report Appendix C: VSP Sampling Protocol Appendix D: Laboratory Analytical Reports Appendix E: Excavation Photo Appendix F: Background Soil Data Report in the Loving/Malaga Area of Eddy County, NM

FIGURES











P:\5-Matador 2019 MSA (5E27961)\GIS\ARCGIS\MATADOR_MIT.aprx

TABLES

Table 2: NMOCD Closure Criteria

Site Information (19.15.29.11.A(2, 3, and 4) NMAC)	Source/Notes	
Depth to Groundwater (feet bgs)	35-40	OSE
Hortizontal Distance From All Water Sources Within 1/2 Mile (ft)		810; 2160; 2490; 2550 OSE & USGS
Hortizontal Distance to Nearest Significant Watercourse (ft)	230	Canal to the North

Closure Criteria (19.15.29.12.B(4) and Table 1 NMAC)							
		Clos	Closure Criteria (units in mg/kg)				
Depth to Groundwater	Chloride *numerical limit or background, whichever is greater	ТРН	GRO + DRO	BTEX	Benzene		
< 50' BGS		1800	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? <200' from lakebed, sinkhole or playa lake? Water Well or Water Source	yes no						
<500 feet from spring or a private, domestic fresh water well used by less than 5 households for domestic or stock watering purposes? <1000' from fresh water well or spring?	no yes	-					
Human and Other Areas	<u> </u>	600	100		50	10	
<300' from an occupied permanent residence, school, hospital, institution or church? n within incorporated municipal boundaries or within a defined municipal							
fresh water well field?	no	_					
<100' from wetland? no		4					
within area overlying a subsurface mine no		4					
within an unstable area?	no						
within a 100-year floodplain?	no						

Sample	Sample	Depth	Action	BTEX	Benzene	GRO	DRO	MRO	Total TPH	CI-
ID	Date	(feet bgs)	, totion	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
	NMOCD C	losure Criteria	à	50	10	10	1000		100	1800
			INI	TIAL SAN	/IPLE AN/	ALYSIS				
		0.5	excavated	0.801	<0.023	23	310	99	432	900
L1		1	excavated			<4.8	54	<49	54	1100
		2	excavated			<4.9	120	<50	120	1500
	2/10/2010	0.5	excavated	94.2	1.4	2600	7300	1800	11700	620
L2	2/19/2019	1	excavated			31	420	150	601	510
		2	excavated			5.4	<9.9	<49	5.2	1300
1.2		1	excavated	608	29	12000	27,000	8,300	47300	98
LS		2	excavated			5000	13,000	4,000	22000	<60
	E	BASELINE S	AMPLE AN	ALYSIS F	ROM BA	CKGROU	ND SOIL	REPORT		
P1		0.5								170
P2	7/22/2016	0.5								1600
P3		0.5								1800
		F	RECENT B	ACKGRO	UND SAM	PLE ANA	LYSIS			
		2								990
10		6								290
JC		10								160
		12								130
		2								170
JC2		4								190
	1/2/2010	10								100
	4/2/2019	2								4900
103		4								2200
103		6								1400
		10				-		1	-	750
		2								9900
JC4		6						-		4900
		10								3600
		C(ONFIRMAT	ION CLO	SURE SA	MPLE AN	ALYSIS			
BH1	4/25/2019	3	sample	<0.22	<0.024	<4.9	<8.8	<44	<57.7	470
BH2	4/25/2019	2	sample	<0.222	<0.025	<4.9	<10	<50	<64.9	2300
	5/5/2019	2	sample							1100
BH3	4/25/2019	2	sample	<0.217	<0.024	<4.8	<9.2	<46	<60.0	1100
BH4	4/26/2019	2	sample	<0.225	<0.025	<5.0	31	<47	31	1400
SW1		surface - 3	sample	<0.225	<0.025	<5.0	<9.7	<48	<62.7	150
SW2	4/25/2019	surface - 3	sample	<0.215	<0.024	<4.8	<9.4	<47	<61.2	530
SW3		surface - 2	sample	<0.217	<0.024	<4.8	<8.7	<44	<57.5	370
SW4		surface -2	sample	<0.225	<0.025	<5.0	<9.8	<49	<63.8	550
SW5	4/26/2019	surface - 2	sample	<0.224	<0.025	<5.0	<9.1	<45	<59.1	1200

"---" = Not Analyzed

* = per Reclamation Standard (19.15.29.13.D(1) NMAC)

APPENDIX A C141: INITIAL & FINAL

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

State of New Mexico Energy Minerals and Natural Resources Department

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

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: Matador Resources	OGRID: 228937			
Contact Name: John Hurt	Contact Telephone: 972-371-5200			
Contact email: JHurt@matadorresources.com	Incident # (assigned by OCD)			
Contact mailing address 5400 LBJ Freeway, Suite 1500 Dallas, TX 75240				
Contact mailing address 5400 LBJ Freeway, Suite 1500 Dallas, TX 75240				

Location of Release Source

Latitude 32.2219634

Longitude -104.0504256

(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Janie Conner Tank Battery	Site Type: Tank Battery
Date Release Discovered 2/19/2019	API# (if applicable)

Unit Letter	Section	Township	Range	County
Α	14	24S	28E	EDDY

Surface Owner: State Federal Tribal Private (Name: McDonald)

Nature and Volume of Release

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

Crude Oil	Volume Released (bbls) 24	Volume Recovered (bbls) 6			
Produced Water	Volume Released (bbls)	Volume Recovered (bbls)			
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	Yes No			
Condensate	Volume Released (bbls)	Volume Recovered (bbls)			
🗌 Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)			
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)			
Cause of Release: Equipment Failure – Fire Tube on Heater Treater ** 24 bbls of a crude oil and water mixture					

Page 2

State of New Mexico Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major	If YES, for what reason(s) does the responsible party consider this a major release?
release as defined by	<25 bbls
19.15.29.7(A) NMAC?	
🗌 Yes 🖾 No	
If YES, was immediate ne	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?
Yes, by SMA on 2/20/20	19 to NMOCD District II via email

Initial Response

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

 \square The source of the release has been stopped.

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

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

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

If all the actions described above have <u>not</u> been undertaken, explain why:

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

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

Printed Name: John Hurt	Title:	RES Specialis	st
Signature:	16	_ Date: 3/4	119
email:JHurt@matadorres	ources.com	Telephone:	_972-371-5200
OCD Only			
Received by:		Date:	

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	2RP-5289
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: Matador Resources	OGRID: 228937
Contact Name: John Hurt	Contact Telephone: 972-371-5200
Contact email: JHurt@matadorresources.com	Incident # (assigned by OCD)
Contact mailing address 5400 LBJ Freeway, Suite 1500 Dallas, TX 75240	

Location of Release Source

Latitude 32.2219634

Longitude -104.0504256 (NAD 83 in decimal degrees to 5 decimal places)

Site Name: Janie Conner Tank Battery	Site Type: Tank Battery
Date Release Discovered 2/19/2019	API# (if applicable)

Unit Letter	Section	Township	Range	County
А	14	24S	28E	EDDY

Surface Owner: State Federal Tribal Private (Name: McDonald)

Nature and Volume of Release

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

Crude Oil	Volume Released (bbls) 24	Volume Recovered (bbls) 6
Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	Yes No
Condensate	Volume Released (bbls)	Volume Recovered (bbls)
Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
Cause of Release: Equip	ment Failure – Fire Tube on Heater Treater	
** 24 bbls of a crude oil	and water mixture	

orm C-141	State of New Mexico	Insident ID	
Page 2	Oil Conservation Division	District RD	2PD 5280
		Encility ID	2KP-3289
		Application ID	
		Application ID	
Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the responsible part	y consider this a major release?	?
The responsible	Initial Response	e v could create a safety hazard that wou	ld result in injury
The source of the rele	ease has been stopped.		
The impacted area ha	is been secured to protect human health and the enviro	onment.	
Released materials ha	ave been contained via the use of berms or dikes, abso	orbent pads, or other containme	nt devices
\square All free liquids and r	ecoverable materials have been removed and manager	d appropriately	
	i i i i i i i i i i i i i i i i i i i	a appropriatery.	
If all the actions describe	d above have <u>not</u> been undertaken, explain why:		

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

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

Printed Name: John Hurt	Title:RES Specialist	
email: JHurt@matadorresources.com	Date: 772-371-5200	
OCD Only		
Received by:	Date:	

Form C-141 Page 3

State of New Mexico Oil Conservation Division

Incident ID	
District RP	2RP-5289
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>35-40</u> (ft bgs)	
Did this release impact groundwater or surface water?		
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	🛛 Yes 🗌 No	
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	🗌 Yes 🛛 No	
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	🗌 Yes 🛛 No	
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	🗌 Yes 🛛 No	
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	Yes 🗌 No	
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	🗌 Yes 🛛 No	
Are the lateral extents of the release within 300 feet of a wetland?	🗌 Yes 🛛 No	
Are the lateral extents of the release overlying a subsurface mine?	🗌 Yes 🛛 No	
Are the lateral extents of the release overlying an unstable area such as karst geology?	🗌 Yes 🛛 No	
Are the lateral extents of the release within a 100-year floodplain?	🗌 Yes 🛛 No	
Did the release impact areas not on an exploration, development, production, or storage site?	🗌 Yes 🛛 No	

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

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

Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.

Field data

Data table of soil contaminant concentration data

Depth to water determination

Determination of water sources and significant watercourses within ¹/₂-mile of the lateral extents of the release

Boring or excavation logs

Photographs including date and GIS information

Topographic/Aerial maps

Laboratory data including chain of custody

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

orm C-141 age 4	State of New Mexico Oil Conservation Divisi	on	Incident ID District RP Facility ID Application ID	2RP-5289
I hereby certify that the infor regulations all operators are public health or the environm failed to adequately investiga addition, OCD acceptance of and/or regulations. Printed Name:	mation given above is true and complete to required to report and/or file certain release nent. The acceptance of a C-141 report by ate and remediate contamination that pose a f a C-141 report does not relieve the operator John Hurt Title: Total terms of the second second second second second second matadorresources.com	o the best of my knowled e notifications and perfor the OCD does not reliev a threat to groundwater, or of responsibility for c 	lge and understand that purs rm corrective actions for relevance re the operator of liability sh surface water, human health ompliance with any other fe falist	suant to OCD rules and eases which may endanger ould their operations have or the environment. In deral, state, or local laws
OCD Only		Dire		

Form C-141 Page 5

State of New Mexico Oil Conservation Division

Incident ID	
District RP	2RP-5289
Facility ID	
Application ID	

Closure

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

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

A scaled site and sampling diagram as described in 19.15.29.11 NMAC

Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: John Hurt Title:	RES Specialist			
Signature: Data Da	te: 5/14/19			
email:JHurt@matadorresources.com Telep	hone:972-371-5200			
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 Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)	(R=POD has been replaced O=orphaned, C=the file is closed)	d,	(qua (qua	artei artei	rs a rs a	are 1: are si	=NW malles	2=NE 3 st to lar	3=SW 4=SE gest) (N/) AD83 UTM in m	eters)	(1	in feet)	
POD Number	POD Sub- Code basin (Count	Q :y 64	Q 16	Q 4	Sec	Tws	Rng	x	Y	Distance	Depth Well	Depth Water	Water Column
<u>C 00738</u>	CUB	ED	3	1	1	13	24S	28E	589673	3565472* 🌍	237	125	12	113
<u>C 00574</u>	CUB	ED	2	4	4	11	24S	28E	589452	3566081* 🌍	439	200	20	180
<u>C 00903</u>	С	ED		2	1	13	24S	28E	590178	3565575* 🌍	670	57	30	27
<u>C 00464</u>	CUB	ED	2	2	1	13	24S	28E	590277	3565674* 🌍	765	111	28	83
										Avera	ige Depth to	Water:	22	feet
											Minimum	Depth:	12	feet
											Maximum	Depth:	30	feet
Record Count: 4	earch (in mete	ers):												

Easting (X): 589511.6

Northing (Y): 3565645.69

Radius: 804

*UTM location was derived from PLSS - see Help

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

APPENDIX C VSP SAMPLING PROTOCOL

VSP Sample Design Report for Using Stratified Sampling to Estimate the Population Proportion

Summary

This report summarizes the stratified sampling design used, associated statistical assumptions, as well as general guidelines for conducting post-sampling data analysis. Sampling plan components presented here include how many sampling locations to choose and where within the sampling area to collect those samples. The type of medium to sample (i.e., soil, groundwater, etc.) and how to analyze the samples (in-situ, fixed laboratory, etc.) are addressed in other sections of the sampling plan. It is important to note that the decision for sample size calculation is determined for the combined strata, rather than any individual strata.

The following table summarizes the proportion stratified sampling design developed. A figure that shows sampling locations in the field and a table that lists sampling location coordinates are also provided below.

SUMMARY	OF SAMPLING DESIGN
Primary Objective of Design	Estimate the population proportion of all strata combined
Criteria for Determining Total Number of Samples	Achieve pre-specified precision of the estimated proportion for specified stratum costs, but no restriction on total costs
Sample Placement (Location) in the Field	Random sampling within grids within each stratum
Formula for calculating number of sampling locations	From Gilbert (1987, page 51)
Method for calculating number of sampling locations in each stratum	Optimal Allocation
Calculated total number of samples	4
Stratum 1	3
Stratum 2	1
Total area of all strata	2418.42 ft ²

^a Including measurement analyses and fixed overhead costs. See the Cost of Sampling section for an explanation of the costs presented here.



Area: Area 1												
X Coord	Y Coord	Label	Value	Туре	Historical	Sample Area						
628585.1635	444589.1800			Random in Grid								
628594.4880	444597.6741			Random in Grid								
628624.2165	444614.3863			Random in Grid								

Area: Area 2										
X Coord	ord Y Coord Label Val		Value	Туре	Historical	Sample Area				
628548.6948	444546.4220			Random in Grid						

Primary Sampling Objective

The primary purpose of sampling at this site is to estimate the proportion for the entire site, i.e., for all strata combined, such that the estimated proportion has the minimum possible standard deviation under the condition that the sampling and measurement costs cannot exceed a specified amount. Preexisting information was used to divide the site into 2 non-overlapping strata that were expected to be more homogeneous internally than for the entire site (all strata combined). The expected variability of values within each stratum was estimated or approximated, and the stratum weights, W_h , were determined so that the total number of samples could be allocated appropriately among the strata.

Number of Total Samples: Calculation Equation and Inputs

The total number of samples is computed to achieve the pre-specified precision of the estimated population proportion for specified stratum costs, but no restriction on total costs. *Note that the calculation is for the total number of samples, i.e., for combined strata, rather than individual strata.*

The formula used to calculate the total number of samples is:

$$n = \frac{\left(\sum_{h=1}^{L} W_h \sqrt{P_h(1-P_h)} \sqrt{C_h}\right) \sum_{h=1}^{L} \frac{W_h \sqrt{P_h(1-P_h)}}{\sqrt{C_h}}}{V + \frac{1}{N} \sum_{h=1}^{L} W_h P_h(1-P_h)}$$

where

L is the number of strata, h=1,2,...,L,

 P_h is the estimated proportion of measurements in stratum h,

 $W_h = N_h / N$ is the weight associated with stratum *h*,

 N_h' is the total number of possible sampling locations (units) in stratum *h*, *N* is the total number of possible units in all strata combined, \underline{L}

$$N = \sum_{h=1}^{L} N_h$$

V is the pre-specified variance or precision, and

 c_h is the cost of collecting and measuring a sample in stratum *h*.

The values of these inputs that result in the calculated number of sampling locations are:

Parameter	Stratum					
	1	2				
P _h	0.2	0.2				
W _h	1778.03	640.391				

Parameter	Input Value
V	1

Allocation of Samples to Strata

The total number of samples is allocated to the individual strata on an optimal basis using the formula:

$$n_{h} = n \frac{N_{h} \sqrt{P_{h} (1 - P_{h})} / \sqrt{c_{h}}}{\sum_{h=1}^{L} N_{h} \sqrt{P_{h} (1 - P_{h})} / \sqrt{c_{h}}}$$

where

 n_h is the number of samples allocated to stratum h,

L is the number of strata,

 N_h is the total number of units in stratum h,

 P_h'' is the proportion in stratum *h*,

 $c_h^{''}$ is the cost per population unit in stratum *h*.

n is the total number of units sampled in all strata,

$$n = \sum_{h=1}^{L} n_h$$

Using this formula, the number of samples allocated to each stratum is:

Stratum	Number of Samples
1	3
2	1
Total Samples	4

Method for Determining Sampling Locations

Five methods for determining sample locations are provided in VSP: 1) simple random sampling, 2) random sampling within grids, 3) systematic sampling with a random start, 4) systematic sampling with a fixed start and 5) adaptive grid sampling. One may use a different method for each stratum, based on the conceptual site model and decision to be made for a given stratum. For this site, sample locations were chosen using random sampling within grids in each stratum.

Locating the sample points using a random sampling within grids method combines appealing aspects of both the random and the systematic grid methods. It provides data that are separated by many distances, providing information about the spatial structure of the potential contamination. It also ensures good coverage of the entire site, although not as completely as if systematic grid sampling were performed.

Statistical Assumptions

The assumptions associated with the formulas for computing the number of samples are:

- 1. The estimated stratum proportions, P_h , are reasonable and representative of the stratum populations being sampled.
- 2. The sampling locations are selected using simple random sampling.
- 3. The stratum costs, C_h , and the fixed cost C_0 , are accurate.

The first and third assumptions will be assessed in a post data collection analysis. The second assumption, although not strictly valid for strata where systematic grid sampling was used rather than simple random sampling, is not expected to significantly affect conclusions of the study because (1) the gridded sample locations were selected based on a random start and (2) any patterns of contamination in the field that may exist are not expected to coincide with the regularity of the grid sampling pattern.

Recommended Data Analysis Activities

Post data collection activities generally follow those outlined in EPA's Guidance for Data Quality Assessment (EPA, 2000). The data analysts will become familiar with the context of the problem and goals for data collection and assessment. The data will be verified and validated before being subjected to statistical or other analyses. Graphical and analytical tools will be used to verify to the extent possible the assumptions of any statistical analyses that are performed as well as to achieve a general understanding of the data. The data will be assessed to determine whether they are adequate in both quality and quantity to support the primary objective of sampling.

Estimates for the proportion of the population values will be calculated using the formulas appropriate for stratified sampling; these formulas are found in EPA QA/G-5S (EPA, 2001). Results of the exploratory and quantitative assessments of the data will be reported, along with conclusions that may be supported by them.

This report was automatically produced* by Visual Sample Plan (VSP) software version 7.11b.

This design was last modified 4/15/2019 4:54:01 PM.

Software and documentation available at http://vsp.pnnl.gov

Software copyright (c) 2019 Battelle Memorial Institute. All rights reserved.

* - The report contents may have been modified or reformatted by end-user of software.

APPENDIX D LABORATORY ANALYTICAL REPORTS



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

February 28, 2019

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

OrderNo.: 1902896

Dear Austin Weyant:

RE: Janie Conner TB

Hall Environmental Analysis Laboratory received 8 sample(s) on 2/21/2019 for the analyses presented in the following report.

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

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

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

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 2/28/2019

CLIENT: Souder, Miller & Associates	Client Sample ID: L1-0.5								
Project: Janie Conner TB	Collection Date: 2/19/2019 10:00:00 AM								
Lab ID: 1902896-001	Matrix: SOIL		Recei	ved Dat	e: 2/2	21/2019 8:40:00 AM			
Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch		
EPA METHOD 300.0: ANIONS						Analyst:	smb		
Chloride	900	60		mg/Kg	20	2/22/2019 7:13:43 PM	43302		
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS					Analyst:	Irm		
Diesel Range Organics (DRO)	310	9.7		mg/Kg	1	2/22/2019 10:13:03 AM	43278		
Motor Oil Range Organics (MRO)	99	49		mg/Kg	1	2/22/2019 10:13:03 AM	43278		
Surr: DNOP	116	70-130		%Rec	1	2/22/2019 10:13:03 AM	43278		
EPA METHOD 8015D: GASOLINE RANG	E					Analyst:	NSB		
Gasoline Range Organics (GRO)	23	4.7		mg/Kg	1	2/22/2019 3:05:51 PM	43274		
Surr: BFB	236	73.8-119	S	%Rec	1	2/22/2019 3:05:51 PM	43274		
EPA METHOD 8021B: VOLATILES						Analyst:	NSB		
Benzene	ND	0.023		mg/Kg	1	2/22/2019 3:05:51 PM	43274		
Toluene	0.081	0.047		mg/Kg	1	2/22/2019 3:05:51 PM	43274		
Ethylbenzene	0.060	0.047		mg/Kg	1	2/22/2019 3:05:51 PM	43274		
Xylenes, Total	0.66	0.093		mg/Kg	1	2/22/2019 3:05:51 PM	43274		
Surr: 4-Bromofluorobenzene	99.1	80-120		%Rec	1	2/22/2019 3:05:51 PM	43274		

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix D
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S
- В Analyte detected in the associated Method Blank
- Value above quantitation range Е
- Analyte detected below quantitation limits Page 1 of 14 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 2/28/2019

CLIENT: Project: Lab ID:	IENT: Souder, Miller & AssociatesClient Sample ID: L1-1oject: Janie Conner TBCollection Date: 2/19/2o ID: 1902896-002Matrix: SOILReceived Date: 2/21/2						
Analyses		Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA MET	HOD 300.0: ANIONS					Analyst:	CJS
Chloride		1100	60	mg/Kg	20	2/25/2019 12:47:09 PM	43327
EPA MET	HOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst:	Irm
Diesel Ra	ange Organics (DRO)	54	9.9	mg/Kg	1	2/25/2019 4:03:18 PM	43303
Motor Oil	Range Organics (MRO)	ND	49	mg/Kg	1	2/25/2019 4:03:18 PM	43303
Surr: D	NOP	83.6	70-130	%Rec	1	2/25/2019 4:03:18 PM	43303
EPA MET	HOD 8015D: GASOLINE RANG	E				Analyst:	NSB
Gasoline	Range Organics (GRO)	ND	4.8	mg/Kg	1	2/23/2019 3:24:24 PM	43294
Surr: B	FB	97.2	73.8-119	%Rec	1	2/23/2019 3:24:24 PM	43294

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

Qualifiers:

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

Date Reported: 2/28/2019

CLIENT: Project:	Souder, Miller & Associates Janie Conner TB	Client Sample ID: L1-2 Collection Date: 2/19/2019 10:10:00 AM									
Lab ID:	1902896-003	Matrix: SOIL		21/2019 8:40:00 AM							
Analyses		Result	RL	Qual Units	DF	Date Analyzed	Batch				
EPA MET	HOD 300.0: ANIONS					Analyst:	CJS				
Chloride		1500	60	mg/Kg	20	2/25/2019 12:59:33 PM	43327				
EPA MET	HOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	Irm				
Diesel Ra	ange Organics (DRO)	120	9.9	mg/Kg	1	2/25/2019 1:06:37 PM	43303				
Motor Oil	Range Organics (MRO)	ND	50	mg/Kg	1	2/25/2019 1:06:37 PM	43303				
Surr: D	DNOP	91.4	70-130	%Rec	1	2/25/2019 1:06:37 PM	43303				
EPA MET	HOD 8015D: GASOLINE RANG	E				Analyst	NSB				
Gasoline	Range Organics (GRO)	ND	4.9	mg/Kg	1	2/23/2019 4:32:25 PM	43294				
Surr: E	3FB	106	73.8-119	%Rec	1	2/23/2019 4:32:25 PM	43294				

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

* Value exceeds Maximum Contaminant Level.

Hall Environmental Analysis Laboratory, Inc.

- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 3 of 14
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 2/28/2019

CLIENT: Souder, Miller & Associates	Client Sample ID: L2-0.5								
Project: Janie Conner TB	Collection Date: 2/19/2019 10:15:00 AM								
Lab ID: 1902896-004	Matrix: SOIL		Recei	ved Dat	e: 2/2	21/2019 8:40:00 AM			
Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch		
EPA METHOD 300.0: ANIONS						Analyst	: smb		
Chloride	620	60		mg/Kg	20	2/22/2019 7:26:08 PM	43302		
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS					Analyst	: Irm		
Diesel Range Organics (DRO)	7300	100		mg/Kg	10	2/22/2019 1:26:38 PM	43278		
Motor Oil Range Organics (MRO)	1800	500		mg/Kg	10	2/22/2019 1:26:38 PM	43278		
Surr: DNOP	0	70-130	S	%Rec	10	2/22/2019 1:26:38 PM	43278		
EPA METHOD 8015D: GASOLINE RANGE						Analyst	: NSB		
Gasoline Range Organics (GRO)	2600	240		mg/Kg	50	2/22/2019 12:34:36 PM	43274		
Surr: BFB	239	73.8-119	S	%Rec	50	2/22/2019 12:34:36 PM	43274		
EPA METHOD 8021B: VOLATILES						Analyst	: NSB		
Benzene	1.4	1.2		mg/Kg	50	2/22/2019 12:34:36 PM	43274		
Toluene	20	2.4		mg/Kg	50	2/22/2019 12:34:36 PM	43274		
Ethylbenzene	5.8	2.4		mg/Kg	50	2/22/2019 12:34:36 PM	43274		
Xylenes, Total	67	4.8		mg/Kg	50	2/22/2019 12:34:36 PM	43274		
Surr: 4-Bromofluorobenzene	116	80-120		%Rec	50	2/22/2019 12:34:36 PM	43274		

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

Qualifiers:

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

Date Reported: 2/28/2019

CLIENT: Project:	Souder, Miller & Associates	Client Sample ID: L2-1 Collection Date: 2/19/2019 10:20:00 AM						
Lab ID:	1902896-005	Matrix: SOIL		Received Date: 2/1/2019 8:40:00 AM				
Analyses		Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst	CJS
Chloride		510	60		mg/Kg	20	2/25/2019 1:36:46 PM	43327
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst	Irm
Diesel Range Organics (DRO)		420	9.9		mg/Kg	1	2/25/2019 1:28:38 PM	43303
Motor Oil Range Organics (MRO)		150	49		mg/Kg	1	2/25/2019 1:28:38 PM	43303
Surr: DNOP		99.2	70-130		%Rec	1	2/25/2019 1:28:38 PM	43303
EPA METHOD 8015D: GASOLINE RANGI		E					Analyst	NSB
Gasoline Range Organics (GRO)		31	4.7		mg/Kg	1	2/23/2019 4:55:03 PM	43294
Surr: BFB		269	73.8-119	S	%Rec	1	2/23/2019 4:55:03 PM	43294

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

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

Hall Environmental Analysis Laboratory, Inc.
Analytical Report Lab Order 1902896

Date Reported: 2/28/2019

2/23/2019 5:17:42 PM 43294

CLIENT: Project: Lab ID:	Souder, Miller & Associates Janie Conner TB 1902896-006	Matrix: SOIL	CI (ient Sample I Collection Dat Received Dat	D:L2 e:2/1 e:2/2	-2 9/2019 10:25:00 AM 21/2019 8:40:00 AM	
Analyses		Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA MET	HOD 300.0: ANIONS					Analyst:	CJS
Chloride		1300	60	mg/Kg	20	2/25/2019 1:49:11 PM	43327
EPA MET	HOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst:	Irm
Diesel Ra	ange Organics (DRO)	ND	9.9	mg/Kg	1	2/25/2019 1:50:41 PM	43303
Motor Oil	I Range Organics (MRO)	ND	49	mg/Kg	1	2/25/2019 1:50:41 PM	43303
Surr: D	DNOP	74.5	70-130	%Rec	1	2/25/2019 1:50:41 PM	43303
EPA MET	HOD 8015D: GASOLINE RANG	E				Analyst:	NSB
Gasoline	Range Organics (GRO)	5.4	4.9	mg/Kg	1	2/23/2019 5:17:42 PM	43294

112

73.8-119

%Rec

1

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

Qualifiers:

Surr: BFB

* Value exceeds Maximum Contaminant Level.

Hall Environmental Analysis Laboratory, Inc.

- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 6 of 14
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Analytical Report Lab Order 1902896

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 2/28/2019

CLIENT: Souder, Miller & Associates Project: Janie Conner TB		Cli (ient Sa Collect	ample II ion Dat	D: L3 e: 2/1	-1 9/2019 10:30:00 AM	
Lab ID: 1902896-007	Matrix: SOIL		Receiv	ved Dat	e: 2/2	1/2019 8:40:00 AM	
Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	smb
Chloride	98	60		mg/Kg	20	2/22/2019 8:03:21 PM	43302
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS					Analyst	Irm
Diesel Range Organics (DRO)	27000	960		mg/Kg	100	2/22/2019 1:50:52 PM	43278
Motor Oil Range Organics (MRO)	8300	4800		mg/Kg	100	2/22/2019 1:50:52 PM	43278
Surr: DNOP	0	70-130	S	%Rec	100	2/22/2019 1:50:52 PM	43278
EPA METHOD 8015D: GASOLINE RANGE	E					Analyst	NSB
Gasoline Range Organics (GRO)	12000	490		mg/Kg	100	2/22/2019 12:57:31 PM	43274
Surr: BFB	255	73.8-119	S	%Rec	100	2/22/2019 12:57:31 PM	43274
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	29	2.4		mg/Kg	100) 2/22/2019 12:57:31 PM	43274
Toluene	190	4.9		mg/Kg	100	2/22/2019 12:57:31 PM	43274
Ethylbenzene	29	4.9		mg/Kg	100	2/22/2019 12:57:31 PM	43274
Xylenes, Total	360	9.8		mg/Kg	100) 2/22/2019 12:57:31 PM	43274
Surr: 4-Bromofluorobenzene	118	80-120		%Rec	100	2/22/2019 12:57:31 PM	43274

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
- D Sample Difficed Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 7 of 14
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Analytical Report Lab Order 1902896

Hall Environmental Analysis Laboratory, Inc. Date Reported: 2/28/2019

Refer to the C	C Summar	v report and	l sample login	checklist for	flagged O	C data and	preservation information.

Qualifiers:

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

CLIENT: Soud	er, Miller & Associates		Cli	ient S	ample II	D: L3	-2	
Project: Janie	Conner TB		(Collec	tion Dat	e: 2/1	9/2019 10:35:00 AM	
Lab ID: 1902	896-008	Matrix: SOIL		Recei	ved Dat	e: 2/2	21/2019 8:40:00 AM	
Analyses		Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD	300.0: ANIONS						Analyst:	CJS
Chloride		ND	60		mg/Kg	20	2/25/2019 2:01:36 PM	43327
EPA METHOD	8015M/D: DIESEL RANG	E ORGANICS					Analyst	Irm
Diesel Range O	rganics (DRO)	13000	190		mg/Kg	20	2/25/2019 3:19:04 PM	43303
Motor Oil Range	e Organics (MRO)	4000	970		mg/Kg	20	2/25/2019 3:19:04 PM	43303
Surr: DNOP		0	70-130	S	%Rec	20	2/25/2019 3:19:04 PM	43303
EPA METHOD	8015D: GASOLINE RAN	GE					Analyst	NSB
Gasoline Range	e Organics (GRO)	5000	240		mg/Kg	50	2/23/2019 5:40:19 PM	43294
Surr: BFB		247	73.8-119	S	%Rec	50	2/23/2019 5:40:19 PM	43294

PQL

1.5

Result

14

SPK value SPK Ref Val

0

15.00

Client: Project:	Sou Jan	ider, Miller & Associ ie Conner TB	iates							
Sample ID:	MB-43302	SampType:	MBLK	Tes	tCode: EP	'A Method	300.0: Anion	s		
Client ID:	PBS	Batch ID:	43302	F	≀unNo: 57	'905				
Prep Date:	2/22/2019	Analysis Date:	2/22/2019	S	eqNo: 19	39513	Units: mg/K	g		
Analyte		Result PC	L SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND	1.5							
Sample ID:	LCS-43302	SampType:	LCS	Tes	tCode: EP	A Method	300.0: Anion	s		
Client ID:	LCSS	Batch ID:	43302	F	≀unNo: 57	′905				
Prep Date:	2/22/2019	Analysis Date:	2/22/2019	S	3eqNo: 19	39514	Units: mg/K	g		
Analyte		Result PC	L SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		14	1.5 15.00	0	94.7	90	110			
Sample ID:	MB-43327	SampType:	MBLK	Tes	tCode: EP	A Method	300.0: Anion	s		
Client ID:	PBS	Batch ID:	43327	F	≀unNo: 57	′937				
Prep Date:	2/25/2019	Analysis Date:	2/25/2019	S	3eqNo: 19	40123	Units: mg/K	g		
Analyte		Result PC	L SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND	1.5							
Sample ID:	LCS-43327	SampType:	LCS	Tes	tCode: EP	A Method	300.0: Anion	s		
Client ID:	LCSS	Batch ID:	43327	F	≀unNo: 57	′937				
Prep Date:	2/25/2019	Analysis Date:	2/25/2019	S	SeqNo: 19	40124	Units: mg/K	g		

Qualifiers:

Analyte

Chloride

I

Value exceeds Maximum Contaminant Level. *

Sample Diluted Due to Matrix D

- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- Practical Quanitative Limit PQL
- S % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank В
- Е Value above quantitation range

%REC

94.4

LowLimit

90

HighLimit

110

%RPD

RPDLimit

Page 9 of 14

Qual

- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- Reporting Detection Limit RL
- W Sample container temperature is out of limit as specified

WO#: 1902896 28-Feb-19

Client: Project:	Souder, N Janie Con	liller & As ner TB	ssociate	s							
Sample ID: I	LCS-43278	SampT	ype: LC	S	Tes	tCode: EF	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID:	LCSS	Batch	n ID: 432	278	F	RunNo: 57	7896				
Prep Date:	2/21/2019	Analysis D	ate: 2/ 2	22/2019	S	SeqNo: 19	938482	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range O	rganics (DRO)	51	10	50.00	0	103	63.9	124			
Surr: DNOP		5.2		5.000		104	70	130			
Sample ID: I	MB-43278	SampT	ype: ME	BLK	Tes	tCode: EF	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID:	PBS	Batch	n ID: 432	278	F	RunNo: 57	7896				
Prep Date:	2/21/2019	Analysis D	ate: 2/ 2	22/2019	S	SeqNo: 19	938483	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range O	rganics (DRO)	ND	10								
Motor Oil Range	Organics (MRO)	ND	50					100			
Surr: DNOP		11		10.00		109	70	130			
Sample ID: ·	1902896-001AMS	SampT	ype: MS	5	Tes	tCode: EF	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID:	L1-0.5	Batch	n ID: 432	278	F	RunNo: 57	7896				
Prep Date:	2/21/2019	Analysis D	ate: 2/	22/2019	S	SeqNo: 19	938485	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range O	rganics (DRO)	360	9.7	48.50	311.8	91.4	53.5	126			
Surr: DNOP		4.6		4.850		93.9	70	130			
Sample ID:	1902896-001AMSD	SampT	ype: MS	SD	Tes	tCode: EF	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID:	L1-0.5	Batch	n ID: 432	278	F	RunNo: 57	7896				
Prep Date:	2/21/2019	Analysis D	ate: 2/ 2	22/2019	5	SeqNo: 19	938486	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range O	rganics (DRO)	380	10	49.75	311.8	140	53.5	126	6.88	21.7	S
Surr: DNOP		5.9		4.975		118	70	130	0	0	
Sample ID: I	LCS-43303	SampT	ype: LC	S	Tes	tCode: EF	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID:	LCSS	Batch	n ID: 43:	303	F	RunNo: 57	7917				
Prep Date:	2/22/2019	Analysis D	ate: 2/ 2	25/2019	5	SeqNo: 19	939464	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range O	rganics (DRO)	49	10	50.00	0	97.2	63.9	124			
Surr: DNOP		4.3		5.000		87.0	70	130			

Qualifiers:

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

Page 10 of 14

Client: Project:	Souder, N Janie Cor	/liller & A nner TB	ssociate	es							
	ND (0000	0			T			0045M/D Di-			
Sample ID:	MB-43303	Samp		3LK	les		A Method	8015M/D: Die	sel Range	e Organics	
Client ID:	PBS	Batc	n ID: 43	303	F						
Prep Date:	2/22/2019	Analysis L	Date: 2/	25/2019	· · · ·	SeqNo: 1	939465	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 Rang	ge Organics (MRO)	ND	50								
Surr: DNOP		8.3		10.00		83.3	70	130			
Sample ID:	1902896-002AMS	Samp	Туре: М	6	Tes	tCode: El	PA Method	8015M/D: Die	sel Range	e Organics	
Client ID:	L1-1	Batc	h ID: 43	303	F	RunNo: 5	7917				
Prep Date:	2/22/2019	Analysis [Date: 2/	25/2019	S	SeqNo: 1	940338	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range (Organics (DRO)	73	9.7	48.40	54.43	38.8	53.5	126			S
Surr: DNOP		3.9		4.840		80.5	70	130			
Sample ID:	1902896-002AMSI) Samp	Туре: М	SD	Tes	tCode: El	PA Method	8015M/D: Die	sel Range	e Organics	
Client ID:	L1-1	Batc	h ID: 43	303	F	RunNo: 5	7917				
Prep Date:	2/22/2019	Analysis [Date: 2/	25/2019	S	SeqNo: 1	940339	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range (Organics (DRO)	65	9.7	48.50	54.43	21.9	53.5	126	11.9	21.7	S
Surr: DNOP		3.8		4.850		78.1	70	130	0	0	
Sample ID:	LCS-43309	Samp	Type: LC	s	Tes	tCode: El	PA Method	8015M/D: Die	sel Range	e Organics	
Client ID:	LCSS	Batc	h ID: 43	309	F	RunNo: 5	7917				
Prep Date:	2/22/2019	Analysis [Date: 2/	25/2019	S	SeqNo: 1	940344	Units: %Rec	;		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		4.0		5.000		79.3	70	130			
Sample ID:	MB-43309	Samp	Гуре: МЕ	BLK	Tes	tCode: El	PA Method	8015M/D: Die	sel Range	e Organics	
Client ID:	PBS	Batc	h ID: 43	309	F	RunNo: 5	7917				
Prep Date:	2/22/2019	Analysis [Date: 2/	25/2019	S	SeqNo: 1	940345	Units: %Rec	:		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		9.3		10.00		93.3	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank

E Value above quantitation range

- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Page 11 of 14

Client: Project:	Souder, I Janie Co	Miller & As nner TB	sociate	es							
Sample ID:	MB-43271	SampTy	/pe: MI	BLK	Tes	tCode: E	PA Method	8015D: Gaso	line Rang	e	
Client ID:	PBS	Batch	ID: 43	271	F	RunNo: 5	7873				
Prep Date:	2/21/2019	Analysis Da	ate: 2 /	/22/2019	S	SeqNo: 1	937710	Units: %Red	;		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB		870		1000		87.3	73.8	119			
Sample ID:	LCS-43271	SampTy	/pe: LC	s	Tes	tCode: E	PA Method	8015D: Gaso	line Rang	e	
Client ID:	LCSS	Batch	ID: 43	271	F	RunNo: 5	7873				
Prep Date:	2/21/2019	Analysis Da	ate: 2 /	/22/2019	S	SeqNo: 1	937711	Units: %Red	;		
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-43274	SampTy	/pe: MI	BLK	Tes	tCode: E	PA Method	8015D: Gaso	line Rang	e	
Client ID:	PBS	Batch	ID: 43	274	F	RunNo: 5	7872				
Prep Date:	2/21/2019	Analysis Da	ate: 2 /	/22/2019	S	SeqNo: 1	937715	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang Surr: BFB	ge Organics (GRO)	ND 1000	5.0	1000		104	73.8	119			
-											
Sample ID:	LCS-43274	SampTy	/pe: LC	s	Tes	tCode: E	PA Method	8015D: Gaso	line Rang	e	
Sample ID: Client ID:	LCS-43274 LCSS	SampTy Batch	/pe: LC ID: 43	CS 274	Tes	tCode: El	PA Method 7872	8015D: Gaso	line Rang	e	
Sample ID: Client ID: Prep Date:	LCS-43274 LCSS 2/21/2019	SampTy Batch Analysis Da	/pe: LC ID: 43 ate: 2 /	CS 274 /22/2019	Tes F	tCode: El RunNo: 5 SeqNo: 1	PA Method 7872 937716	8015D: Gaso Units: mg/K	line Rang	e	
Sample ID: Client ID: Prep Date: Analyte	LCS-43274 LCSS 2/21/2019	SampTy Batch Analysis Da Result	/pe: LC ID: 43 ate: 2 / PQL	274 /22/2019 SPK value	Tes F SPK Ref Val	tCode: El RunNo: 5 SeqNo: 1 %REC	PA Method 7872 937716 LowLimit	8015D: Gaso Units: mg/K HighLimit	line Rang g %RPD	e RPDLimit	Qual
Sample ID: Client ID: Prep Date: Analyte Gasoline Rang	E LCS-43274 LCSS 2/21/2019 ge Organics (GRO)	SampTy Batch Analysis Da Result 26	/pe: LC ID: 43 ate: 2/ PQL 5.0	274 /22/2019 SPK value 25.00	Tes F SPK Ref Val 0	tCode: El RunNo: 5 SeqNo: 1 %REC 106	PA Method 7872 937716 LowLimit 80.1	8015D: Gaso Units: mg/K HighLimit 123	line Rang g %RPD	e RPDLimit	Qual
Sample ID: Client ID: Prep Date: Analyte Gasoline Rang Surr: BFB	: LCS-43274 LCSS 2/21/2019 ge Organics (GRO)	SampTy Batch Analysis Da Result 26 1100	/pe: LC ID: 43 ate: 2 / PQL 5.0	25 274 /22/2019 SPK value 25.00 1000	Tes F SPK Ref Val 0	tCode: El RunNo: 5 SeqNo: 1 <u>%REC</u> 106 113	PA Method 7872 937716 LowLimit 80.1 73.8	8015D: Gaso Units: mg/K HighLimit 123 119	line Rang g %RPD	e RPDLimit	Qual
Sample ID: Client ID: Prep Date: Analyte Gasoline Rang Surr: BFB Sample ID:	E LCS-43274 LCSS 2/21/2019 ge Organics (GRO)	SampTy Batch Analysis Da Result 26 1100 SampTy	/pe: LC ID: 43 ate: 2/ PQL 5.0 /pe: MI	274 22/2019 SPK value 25.00 1000 BLK	Tes F SPK Ref Val 0 Tes	tCode: E RunNo: 5 SeqNo: 1 %REC 106 113	PA Method 7872 937716 LowLimit 80.1 73.8 PA Method	8015D: Gaso Units: mg/K HighLimit 123 119 8015D: Gaso	line Rang g %RPD line Rang	e RPDLimit e	Qual
Sample ID: Client ID: Prep Date: Analyte Gasoline Rang Surr: BFB Sample ID: Client ID:	: LCS-43274 LCSS 2/21/2019 ge Organics (GRO) : MB-43294 PBS	SampTy Batch Analysis Da Result 26 1100 SampTy Batch	/pe: LC ID: 43 ate: 2/ PQL 5.0 /pe: MI ID: 43	25 274 /22/2019 SPK value 25.00 1000 BLK 294	Tes F SPK Ref Val 0 Tes F	ttCode: El RunNo: 5 SeqNo: 1 <u>%REC</u> 106 113 ttCode: El RunNo: 5	PA Method 7872 937716 LowLimit 80.1 73.8 PA Method 7911	8015D: Gaso Units: mg/K HighLimit 123 119 8015D: Gaso	line Rang g %RPD line Rang	e RPDLimit e	Qual
Sample ID: Client ID: Prep Date: Analyte Gasoline Rang Surr: BFB Sample ID: Client ID: Prep Date:	: LCS-43274 LCSS 2/21/2019 ge Organics (GRO) : MB-43294 PBS 2/22/2019	SampTy Batch Analysis Da Result 26 1100 SampTy Batch Analysis Da	/pe: LC ID: 43 ate: 2/ PQL 5.0 /pe: MI ID: 43 ate: 2/	274 22/2019 22/2019 25.00 1000 BLK 294 23/2019	Tes F SPK Ref Val 0 Tes F	ttCode: El RunNo: 5 SeqNo: 1 %REC 106 113 ttCode: El RunNo: 5 SeqNo: 1	PA Method 7872 937716 LowLimit 80.1 73.8 PA Method 7911 938951	8015D: Gaso Units: mg/K HighLimit 123 119 8015D: Gaso Units: mg/K	line Rang 9 %RPD line Rang 9	e RPDLimit e	Qual
Sample ID: Client ID: Prep Date: Analyte Gasoline Rang Surr: BFB Sample ID: Client ID: Prep Date: Analyte	: LCS-43274 LCSS 2/21/2019 ge Organics (GRO) : MB-43294 PBS 2/22/2019	SampTy Batch Analysis Da Result 26 1100 SampTy Batch Analysis Da Result	/pe: LC ID: 43 ate: 2/ PQL 5.0 /pe: MI ID: 43 ate: 2/ PQL	25 274 /22/2019 SPK value 25.00 1000 BLK 294 /23/2019 SPK value	Tes F SPK Ref Val 0 Tes F SPK Ref Val	ttCode: El RunNo: 5 SeqNo: 1 %REC 106 113 ttCode: El RunNo: 5 SeqNo: 1 %REC	PA Method 7872 937716 LowLimit 80.1 73.8 PA Method 7911 938951 LowLimit	8015D: Gaso Units: mg/K HighLimit 123 119 8015D: Gaso Units: mg/K HighLimit	line Rang g %RPD line Rang g %RPD	e RPDLimit e RPDLimit	Qual
Sample ID: Client ID: Prep Date: Analyte Gasoline Rang Surr: BFB Sample ID: Client ID: Prep Date: Analyte Gasoline Rang Surr: BFB	: LCS-43274 LCSS 2/21/2019 ge Organics (GRO) : MB-43294 PBS 2/22/2019 ge Organics (GRO)	SampTy Batch Analysis Da Result 26 1100 SampTy Batch Analysis Da Result ND 860	/pe: LC ID: 43 ate: 2/ PQL 5.0 /pe: MI ID: 43 ate: 2/ PQL 5.0	25 274 /22/2019 25.00 1000 BLK 294 /23/2019 SPK value 1000	Tes F SPK Ref Val 0 Tes F SPK Ref Val	etCode: El RunNo: 5 SeqNo: 1 %REC 106 113 etCode: El RunNo: 5 SeqNo: 1 %REC 86.1	PA Method 7872 937716 LowLimit 80.1 73.8 PA Method 7911 938951 LowLimit 73.8	8015D: Gaso Units: mg/K HighLimit 123 119 8015D: Gaso Units: mg/K HighLimit 119	line Rang %RPD line Rang g %RPD	e RPDLimit e RPDLimit	Qual
Sample ID: Client ID: Prep Date: Analyte Gasoline Rang Surr: BFB Sample ID: Client ID: Prep Date: Analyte Gasoline Rang Surr: BFB Sample ID:	 LCS-43274 LCSS 2/21/2019 ge Organics (GRO) MB-43294 PBS 	SampTy Batch Analysis Da Result 26 1100 SampTy Batch Analysis Da Result ND 860 SampTy	/pe: LC ID: 43 ate: 2/ PQL 5.0 /pe: MI ID: 43 ate: 2/ PQL 5.0 /pe: LC	25 274 /22/2019 SPK value 25.00 1000 BLK 294 /23/2019 SPK value 1000 CS	Tes SPK Ref Val 0 Tes SPK Ref Val SPK Ref Val	ttCode: E RunNo: 5 SeqNo: 1 %REC 106 113 ttCode: E RunNo: 5 SeqNo: 1 %REC 86.1	PA Method 7872 937716 LowLimit 73.8 PA Method 7911 938951 LowLimit 73.8 PA Method	8015D: Gaso Units: mg/K HighLimit 123 119 8015D: Gaso Units: mg/K HighLimit 119 8015D: Gaso	line Rang %RPD line Rang %RPD	e RPDLimit e RPDLimit	Qual
Sample ID: Client ID: Prep Date: Analyte Gasoline Rang Surr: BFB Sample ID: Client ID: Prep Date: Analyte Gasoline Rang Surr: BFB Sample ID: Client ID:	: LCS-43274 LCSS 2/21/2019 ge Organics (GRO) : MB-43294 PBS 2/22/2019 ge Organics (GRO) : LCS-43294 LCSS	SampTy Batch Analysis Da Result 26 1100 SampTy Batch Analysis Da Result ND 860 SampTy Batch	/pe: LC ID: 43 ate: 2/ PQL 5.0 /pe: MI ID: 43 ate: 2/ PQL 5.0 /pe: LC ID: 43	2S 274 /22/2019 SPK value 25.00 1000 BLK 294 /23/2019 SPK value 1000 CS 294	Tes SPK Ref Val 0 Tes SPK Ref Val SPK Ref Val	ttCode: El RunNo: 5 SeqNo: 1 %REC 106 113 ttCode: El %REC 86.1 ttCode: El RunNo: 5	PA Method 7872 937716 LowLimit 80.1 73.8 PA Method 7911 938951 LowLimit 73.8 PA Method 7911	8015D: Gaso Units: mg/K HighLimit 123 119 8015D: Gaso Units: mg/K HighLimit 119 8015D: Gaso	line Rang %RPD line Rang %RPD line Rang	e RPDLimit e RPDLimit	Qual
Sample ID: Client ID: Prep Date: Analyte Gasoline Rang Surr: BFB Sample ID: Client ID: Prep Date: Analyte Gasoline Rang Surr: BFB Sample ID: Client ID: Prep Date: Prep Date:	E LCS-43274 LCSS 2/21/2019 ge Organics (GRO) E MB-43294 PBS 2/22/2019 ge Organics (GRO) E LCS-43294 LCSS 2/22/2019	SampTy Batch Analysis Da Result 26 1100 SampTy Batch Analysis Da Result ND 860 SampTy Batch Analysis Da	/pe: LC ID: 43 ate: 2/ PQL 5.0 /pe: MI ID: 43 ate: 2/ PQL 5.0 /pe: LC ID: 43 ate: 2/	25 274 22/2019 25.00 1000 BLK 294 23/2019 SPK value 1000 25 294 23/2019	Tes SPK Ref Val 0 Tes SPK Ref Val SPK Ref Val	ttCode: El RunNo: 5 SeqNo: 1 %REC 106 113 ttCode: El RunNo: 5 SeqNo: 1 %REC 86.1 ttCode: El RunNo: 5 SeqNo: 1	PA Method 7872 937716 LowLimit 73.8 PA Method 7911 938951 LowLimit 73.8 PA Method 7911 938952	8015D: Gaso Units: mg/K HighLimit 123 119 8015D: Gaso Units: mg/K HighLimit 119 8015D: Gaso Units: mg/K	line Rang %RPD line Rang %RPD line Rang	e RPDLimit e RPDLimit	Qual
Sample ID: Client ID: Prep Date: Analyte Gasoline Rang Surr: BFB Sample ID: Client ID: Prep Date: Analyte Gasoline Rang Surr: BFB Sample ID: Client ID: Prep Date: Analyte	LCS-43274 LCSS 2/21/2019 ge Organics (GRO) MB-43294 PBS 2/22/2019 ge Organics (GRO) LCS-43294 LCSS 2/22/2019	SampTy Batch Analysis Da Result 26 1100 SampTy Batch Analysis Da Result ND 860 SampTy Batch Analysis Da Result	<pre>/pe: LC ID: 43 ate: 2/ PQL 5.0 /pe: MI ID: 43 ate: 2/ PQL 5.0 /pe: LC ID: 43 ate: 2/ PQL</pre>	2S 274 /22/2019 SPK value 25.00 1000 BLK 294 /23/2019 SPK value 294 /23/2019 SPK value	Tes SPK Ref Val 0 Tes SPK Ref Val Tes SPK Ref Val	etCode: El RunNo: 5 SeqNo: 1 %REC 106 113 etCode: El RunNo: 5 SeqNo: 1 %REC 86.1 ttCode: El RunNo: 5 SeqNo: 1 %REC	PA Method 7872 937716 LowLimit 80.1 73.8 PA Method 7911 938951 LowLimit 73.8 PA Method 7911 938952 LowLimit	8015D: Gaso Units: mg/K HighLimit 123 119 8015D: Gaso Units: mg/K HighLimit 119 8015D: Gaso Units: mg/K HighLimit	line Rang %RPD line Rang %RPD line Rang g %RPD	e RPDLimit e 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 12 of 14

WO#: **1902896** 28-Feb-19

WO#:	1902896
	28-Feb-19

Client:Souder,Project:Janie C	, Miller & A onner TB	ssociate	es							
Sample ID: 1902896-002AM	S Samp	Туре: М	3	Tes	tCode: El	PA Method	8015D: Gaso	oline Rang	e	
Client ID: L1-1	Batc	h ID: 43	294	F	RunNo: 5	7911				
Prep Date: 2/22/2019	Analysis [Date: 2/	23/2019	S	SeqNo: 1	938954	Units: mg/k	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	31	4.8	23.76	2.371	121	69.1	142			
Surr: BFB	1100		950.6		118	73.8	119			
Sample ID: 1902896-002AM	SD Samp	Туре: М	SD	Tes	tCode: El	PA Method	8015D: Gaso	oline Rang	e	
Client ID: L1-1	Batc	h ID: 43	294	F	RunNo: 5	7911				
Prep Date: 2/22/2019	Analysis I	Date: 2/	23/2019	S	SeqNo: 1	938955	Units: mg/ł	۲g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	34	5.0	25.00	2.371	128	69.1	142	10.2	20	
Surr: BFB	1200		1000		119	73.8	119	0	0	S

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 13 of 14

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

Souder, Miller & Associates

Project: Jani	e Conner TB									
Sample ID: MB-43274	Samp	Type: MB	BLK	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID: PBS	Bato	h ID: 43	274	F	RunNo: 5	7872				
Prep Date: 2/21/2019	Analysis I	Date: 2/	22/2019	5	SeqNo: 1	938745	Units: mg/k	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025					0			
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.99		1.000		98.6	80	120			
Sample ID: LCS-43274 SampType: LCS TestCode: EPA Method 8021B: Volatiles										
Client ID: LCSS	Bato	Batch ID: 43274 RunNo: 57872								
Prep Date: 2/21/2019	Analysis I	Date: 2/	22/2019	S	SeqNo: 1	938746	Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.025	1.000	0	90.8	80	120			
Toluene	0.95	0.050	1.000	0	94.7	80	120			
Ethylbenzene	0.94	0.050	1.000	0	94.0	80	120			
Xylenes, Total	2.9	0.10	3.000	0	95.4	80	120			
Surr: 4-Bromofluorobenzene	0.99		1.000		98.8	80	120			
Sample ID: MB-43294	Samp	Туре: М	BLK	Tes	stCode: El	PA Method	8021B: Vola	tiles		
Client ID: PBS	Bato	h ID: 43	294	F	RunNo: 5	7911				
Prep Date: 2/22/2019	Analysis I	Date: 2/	23/2019	S	SeqNo: 1	938999	Units: %Re	C		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.94		1.000		93.8	80	120			
Sample ID: LCS-43294	Samp	Type: LC	s	Tes	stCode: El	PA Method	8021B: Vola	tiles		
Client ID: LCSS	Bato	h ID: 43	294	F	RunNo: 5	7911				
Prep Date: 2/22/2019	Analysis I	Date: 2/	23/2019	S	SeqNo: 1	939000	Units: %Re	с		

SPK value SPK Ref Val %REC LowLimit

109

Qualifiers:

Analyte

Surr: 4-Bromofluorobenzene

Client:

- * Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix D
- Н Holding times for preparation or analysis exceeded

Result

1.1

PQL

1.000

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

%RPD

HighLimit

120

80

RPDLimit

Page 14 of 14

Qual

28-Feb-19

HALL ENVIRONMENTAL ANALYSIS LABORATORY	Hall Environmental Albu TEL: 505-345-3975 Website: www.ha.	Analysis Labo 4901 Hawki querque, NM FAX: 505-345 llenvironmenta	ratory ins NE 87109 Sam 5-4107 al.com	ple Log-In C	heck List
Client Name: SMA-CARLSBAD	Work Order Number:	1902896		RcptNo:	1
Received By: Isaiah Ortiz Completed By: Isaiah Ortiz	2/21/2019 8:40:00 AM 2/21/2019 8:49:38 AM		ILO ILO	*	
Reviewed By: <u>ENMZ/ZI/19</u> Chain of Custody	SISCIU				
1, Is Chain of Custody complete?		Yes 🗹	No 🗔	Not Present	
2. How was the sample delivered?		<u>Courier</u>			
Log In 3. Was an attempt made to cool the samples?		Yes 🗹	No 🗌	NA 🗌	
4. Were all samples received at a temperature o	f >0° C to 6.0°C	Yes 🗹	No 🗌	NA 🗌	
5. Sample(s) in proper container(s)?		Yes 🗹	No 🗌		
6. Sufficient sample volume for indicated test(s)?	?	Yes 🗸	No 🗌		
7. Are samples (except VOA and ONG) properly	preserved?	Yes 🗹	No 🗌		
8. Was preservative added to bottles?		Yes 🗌	No 🗹	NA 🗋	
9. VOA vials have zero headspace?		Yes 🗌	No 🗌	No VOA Vials 🗹	
10. Were any sample containers received broken	?	Yes	No 🗹	# of preserved	19
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes 🗹	No 🗀	for pH:	12 unless noted)
12. Are matrices correctly identified on Chain of C	ustody?	Yes 🖌	No 🗌	Adjusted	
13. Is it clear what analyses were requested?		Yes 🗹	No 🗆 🏒	Nr -	
14. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes 🗹	No 🗆 🕺	Checked by:	Narra
<u>Special Handling (if applicable)</u>			•		
15. Was client notified of all discrepancies with th	is order?	Yes 🗌	No 🗌	NA 🔽	
Person Notified:	Date:				
By Whom:	Via:] eMail 🔲	Phone 🔲 Fax	In Person	
Regarding:					
Client Instructions:	29 3 2 4 5 4 5 4 5 4 5 4 5 5 4 5 5 5 5 5 5 5	·····			
IO. Additional remarks:					
17. <u>Cooler Information</u> Cooler No Temp ^o C Condition Sea 1 2.1 Good Yes	al Intact Seal No S	eal Date	Signed By		

TRONMENTAL S LABORATORY nental.com	505-345-4107 Request	(tnesdA\t	(AC)V-iməć mıoìilo	S) 0528 D lisioT													r notated on the analytical report.
L ENV LYSIS hallenviron	75 Fax Analysis	^t OS., tOG	^{3,} 40 ^{5,}	8 Metal ar, NO (AO)	RCRA Crt-1 Cott-1 N 0328	X	×	×	×	X	X	X	Х	 		2010		ata will be clearh
	15-39	SWIS	or 8270	0168 yo	I sHA9		-					:			 	ل م	I	racted d
Hawk PL	505-34		(1.408	poqtəl	EDB (V											20		sub-cont
	Tel. 5	CBIS V MKO)	2808/se	esticide	18081 P	X			7	~	<u> </u>		~	 	;	2 5		y. Any s
		(1208) s	amt /	MTBE		X	~	X	^ ×		$\overline{}$	Х У						possibilit
day turn		ł	ON	2 ¹¹ 2	I HEAL No.	100-	ew-	- CD 3	-004	- 005	-00-	-007	-00P		Date	2/20/6 1400	Date Time	es. This serves as notice of this
d Time: d Rus le:		ager:	X es		Preservative Type										via:		Via:	iccredited laboratori
Turn-Arouno □ Standarc Project Nam	Project #:	Project Man	Sampler: On Ice:	# of Coolers Cooler Temp	Container Type and #	204	-	_	_				->		Received by:	Stor	Received by:	contracted to other a
SWA State St	#	or Fax#: : Package: ndard	ditation:	D (Type)	Time Matrix Sample Name	A 10:00 = 01 / 1 - 0.5	10:05 / 1 - 1 - 1	10:10 (1 - 2	10:12 1 12 - 6.5	1 - C7 00:01	16:35 / 62-2	10:30 1 2 3 - 1	10:35 × L 3 - 2		Time: Relinauished bv:	199:30 Samerthel Judson	Time: Relinguished by:	If necessary, samples submitted to Hall Environmental may be subo

•••



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

August 05, 2016

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

OrderNo.: 1607D21

RE: Janie Connor 201

Dear Austin Weyant:

Hall Environmental Analysis Laboratory received 3 sample(s) on 7/26/2016 for the analyses presented in the following report.

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

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

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

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

26606

Date Reported: 8/5/2016

CLIENT: Souder, Miller & Associates Project: Janie Connor 201	Client Sample ID: P1 Collection Date: 7/22/2016 12:00:00 PM									
Lab ID: 1607D21-001	Matrix: S	SOIL		Received Date: 7/26/2016 10:00:00 AM						
Analyses	Result	PQL Q	ual	Units	DF	Date Analyzed	Batch			
EPA METHOD 300.0: ANIONS						Analys	: LGT			
Chloride	170	30		mg/Kg	20	8/1/2016 10:24:48 PM	26731			
EPA METHOD 8015M/D: DIESEL RANG	GE ORGANICS	;				Analys	: KJH			
Diesel Range Organics (DRO)	11	9.6		mg/Kg	1	8/1/2016 12:02:53 PM	26694			
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	8/1/2016 12:02:53 PM	26694			
Surr: DNOP	53.9	70-130	S	%Rec	1	8/1/2016 12:02:53 PM	26694			
EPA METHOD 8015D: GASOLINE RAN	IGE					Analys	RAA			
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/27/2016 3:59:13 PM	26606			
Surr: BFB	106	80-120		%Rec	1	7/27/2016 3:59:13 PM	26606			
EPA METHOD 8021B: VOLATILES						Analys	RAA			
Methyl tert-butyl ether (MTBE)	ND	0.097		mg/Kg	1	7/27/2016 3:59:13 PM	26606			
Benzene	ND	0.024		mg/Kg	1	7/27/2016 3:59:13 PM	26606			
Toluene	ND	0.048		mg/Kg	1	7/27/2016 3:59:13 PM	26606			
Ethylbenzene	ND	0.048		mg/Kg	1	7/27/2016 3:59:13 PM	26606			
Xylenes, Total	ND	0.097		mg/Kg	1	7/27/2016 3:59:13 PM	26606			

80-120

%Rec

1

7/27/2016 3:59:13 PM

99.9

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

Oualifiers:	*	Value exceeds Maximum Contaminant Level.
Quanners.		value exceeds Maximum Containmant Level.

Hall Environmental Analysis Laboratory, Inc.

D Sample Diluted Due to Matrix

Surr: 4-Bromofluorobenzene

- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 1 of 7
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 8/5/2016

CLIENT: Souder, Miller & Associates Project: Janie Connor 201	Client Sample ID: P2 Collection Date: 7/22/2016 12:00:00 PM										
Lab ID: 1607D21-002	Matrix:	SOIL	F	Received Date: 7/26/2016 10:00:00 AM							
Analyses	Result PQL Qual Units		DF	Date Analyzed	a Batch						
EPA METHOD 300.0: ANIONS						Analyst	: LGT				
Chloride	1600	75	r	ng/Kg	50	8/2/2016 9:22:20 PM	26731				
EPA METHOD 8015M/D: DIESEL RANG	GE ORGANICS	5				Analyst	: том				
Diesel Range Organics (DRO)	ND	9.5	r	ng/Kg	1	7/27/2016 6:52:04 PM	26603				
Motor Oil Range Organics (MRO)	ND	48	r	ng/Kg	1	7/27/2016 6:52:04 PM	26603				
Surr: DNOP	48.4	70-130	S 🦻	%Rec	1	7/27/2016 6:52:04 PM	26603				
EPA METHOD 8015D: GASOLINE RAN	IGE					Analyst	RAA				
Gasoline Range Organics (GRO)	ND	4.7	r	ng/Kg	1	7/27/2016 4:22:52 PM	26606				
Surr: BFB	106	80-120	0	%Rec	1	7/27/2016 4:22:52 PM	26606				
EPA METHOD 8021B: VOLATILES						Analyst	RAA				
Methyl tert-butyl ether (MTBE)	ND	0.093	r	ng/Kg	1	7/27/2016 4:22:52 PM	26606				
Benzene	ND	0.023	r	ng/Kg	1	7/27/2016 4:22:52 PM	26606				
Toluene	ND	0.047	r	ng/Kg	1	7/27/2016 4:22:52 PM	26606				
Ethylbenzene	ND	0.047	r	ng/Kg	1	7/27/2016 4:22:52 PM	26606				
Xylenes, Total	ND	0.093	r	ng/Kg	1	7/27/2016 4:22:52 PM	26606				
Surr: 4-Bromofluorobenzene	97.8	80-120	Q	%Rec	1	7/27/2016 4:22:52 PM	26606				

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

Qualifiers: *	Va	lue exceeds Maximum	Contaminant Level.
---------------	----	---------------------	--------------------

Hall Environmental Analysis Laboratory, Inc.

- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- % Recovery outside of range due to dilution or matrix S
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 2 of 7 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 8/5/2016

CLIENT: Project: Lab ID:	Souder, Miller & Associates Janie Connor 201 1607D21-003	Client Sample ID: P3 Collection Date: 7/22/2016 12:00:00 PM Matrix: SOIL Received Date: 7/26/2016 10:00:00 AM									
Analyses		Result	PQL (Qual	Units	DF	Date Analyzed	Batch			
EPA MET	HOD 300.0: ANIONS						Analyst	: LGT			
Chloride		1800	75		mg/Kg	50	8/2/2016 9:34:44 PM	26731			
EPA MET	HOD 8015M/D: DIESEL RANGI	E ORGANICS	;				Analyst	том			
Diesel Ra	ange Organics (DRO)	ND	9.6		mg/Kg	1	7/27/2016 7:20:02 PM	26603			
Motor Oil Range Organics (MRO)		ND	48		mg/Kg	1	7/27/2016 7:20:02 PM	26603			
Surr: D	DNOP	47.8	70-130	S	%Rec	1	7/27/2016 7:20:02 PM	26603			
EPA MET	HOD 8015D: GASOLINE RANG	θE					Analyst	RAA			
Gasoline	Range Organics (GRO)	ND	4.8		mg/Kg	1	7/27/2016 4:46:28 PM	26606			
Surr: E	3FB	106	80-120		%Rec	1	7/27/2016 4:46:28 PM	26606			
EPA MET	HOD 8021B: VOLATILES						Analyst	RAA			
Methyl te	rt-butyl ether (MTBE)	ND	0.096		mg/Kg	1	7/27/2016 4:46:28 PM	26606			
Benzene		ND	0.024		mg/Kg	1	7/27/2016 4:46:28 PM	26606			
Toluene		ND	0.048		mg/Kg	1	7/27/2016 4:46:28 PM	26606			
Ethylben	zene	ND	0.048		mg/Kg	1	7/27/2016 4:46:28 PM	26606			
Xylenes,	Total	ND	0.096		mg/Kg	1	7/27/2016 4:46:28 PM	26606			

80-120

%Rec

1

7/27/2016 4:46:28 PM

26606

100

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

 * Value exceeds Maximum Contaminant Lev 	vel.
---	------

Hall Environmental Analysis Laboratory, Inc.

D Sample Diluted Due to Matrix

Qualifiers:

Surr: 4-Bromofluorobenzene

- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 3 of 7
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Client: Project:	Souder Janie C	r, Miller & Assoc Connor 201	iates							
Sample ID	MB-26731	SampType: MBLK TestCode: EPA Method 3					300.0: Anion	s		
Client ID:	PBS	Batch ID:	26731	F	RunNo: 361 4	49				
Prep Date:	8/1/2016	Analysis Date:	8/1/2016	S	SeqNo: 111	9547	Units: mg/K	g		
Analyte		Result PC	L SPK value	SPK Ref Val	%REC L	owLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND ²	1.5							
Sample ID	LCS-26731	SampType:	LCS	Tes	tCode: EPA	Method	300.0: Anion	s		
Client ID:	LCSS	Batch ID:	26731	F	RunNo: 3614	49				
Prep Date:	8/1/2016	Analysis Date:	8/1/2016	5	SeqNo: 111	9549	Units: mg/K	g		
Analyte		Result PC	L SPK value	SPK Ref Val	%REC L	owLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		14 <i>´</i>	1.5 15.00	0	92.9	90	110			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- 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 4 of 7

Client: Sou	der, Miller & Assoc	ciates					
Project: Jani	e Connor 201						
Sample ID MB-26603	SampType	MBLK	Test	Code: EPA Method	8015M/D: Diesel	Range Organics	
Client ID: PBS	Batch ID:	26603	R	unNo: 36010			
Prep Date: 7/26/2016	Analysis Date:	7/27/2016	S	eqNo: 1115521	Units: mg/Kg		
Analyte	Result P	QL SPK value	SPK Ref Val	%REC LowLimit	HighLimit %	RPD RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10					
Motor Oil Range Organics (MR	0) ND	50					
Surr: DNOP	8.0	10.00		80.5 70	130		
Sample ID LCS-26603	SampType	LCS	Test	Code: EPA Method	l 8015M/D: Diesel	Range Organics	
Client ID: LCSS	Batch ID:	26603	R	unNo: 36010			
Prep Date: 7/26/2016	Analysis Date:	7/27/2016	S	eqNo: 1115716	Units: mg/Kg		
Analyte	Result P	QL SPK value	SPK Ref Val	%REC LowLimit	HighLimit %	RPD RPDLimit	Qual
Diesel Range Organics (DRO)	50	10 50.00	0	101 62.6	124		
Surr: DNOP	4.5	5.000		90.9 70	130		
Sample ID LCS-26694	SampType	LCS	Test	Code: EPA Method	l 8015M/D: Diesel	Range Organics	
Client ID: LCSS	Batch ID:	26694	R	unNo: 36120			
Prep Date: 7/29/2016	Analysis Date:	8/1/2016	S	eqNo: 1118973	Units: mg/Kg		
Analyte	Result P	QL SPK value	SPK Ref Val	%REC LowLimit	HighLimit %	RPD RPDLimit	Qual
Diesel Range Organics (DRO)	48	10 50.00	0	96.9 62.6	124		
Surr: DNOP	4.6	5.000		91.4 70	130		
Sample ID MB-26694	SampType	BLK	Test	Code: EPA Method	l 8015M/D: Diesel	Range Organics	
Client ID: PBS	Batch ID:	26694	R	unNo: 36120			
Prep Date: 7/29/2016	Analysis Date:	8/1/2016	S	eqNo: 1118974	Units: mg/Kg		
Analyte	Result P	QL SPK value	SPK Ref Val	%REC LowLimit	HighLimit %	RPD RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10					
Motor Oil Range Organics (MR	0) ND	50					
Surr: DNOP	8.1	10.00		81.1 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
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Page 5 of 7

WO#:	1607D21
	05 4 10

05-Aug-16	5
-----------	---

Client: Project:	Souder, Janie Co	Miller & A onnor 201	ssociate	28							
Sample ID LC	CS-26606	S-26606 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range						le			
Client ID: LC	CSS	Batcl	n ID: 26	606	F	RunNo: 3	6031				
Prep Date: 7	7/26/2016	Analysis E	Date: 7/	27/2016	S	SeqNo: 1	115993	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range O	rganics (GRO)	24	5.0	25.00	0	97.3	80	120			
Surr: BFB		1100		1000		114	80	120			
Sample ID MI	B-26606	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015D: Gaso	oline Rang	je	
Client ID: PE	BS	Batcl	n ID: 26	606	F	lunNo: 3	6031				
Prep Date: 7	7/26/2016	Analysis E	Date: 7/	27/2016	5	SeqNo: 1	115994	Units: mg/ł	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range O	rganics (GRO)	ND	5.0								
Surr: BFB		1000		1000		104	80	120			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified
- Page 6 of 7

WO#:	1607D21
	05-Aug-16

Client:	Souder, Miller &	Associate	es							
Project:	Janie Connor 201									
Sample ID LCS-2	6606 Sam	pType: LC	s	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID: LCSS	Bat	tch ID: 26	606	R	RunNo: 3	6031				
Prep Date: 7/26/2	2016 Analysis	Date: 7/	27/2016	S	SeqNo: 1	116018	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (N	MTBE) 0.95	0.10	1.000	0	95.1	61	143			
Benzene	0.99	0.025	1.000	0	99.4	75.3	123			
Toluene	0.96	0.050	1.000	0	96.3	80	124			
Ethylbenzene	0.97	0.050	1.000	0	96.9	82.8	121			
Xylenes, Total	2.9	0.10	3.000	0	96.7	83.9	122			
Surr: 4-Bromofluorobe	enzene 1.1		1.000		106	80	120			
Sample ID MB-26	606 Sam	рТуре: МЕ	BLK	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID: PBS	Ba	tch ID: 26	606	R	RunNo: 3	6031				
Prep Date: 7/26/2	2016 Analysis	a Date: 7/	27/2016	S	SeqNo: 1	116019	Units: mg/k	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (M	MTBE) ND	0.10								
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorob	enzene 0.99		1.000		98.6	80	120			

Qualifiers:

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

HALL		
ENVIRONMENTAL	VIRONMEN	
ANALYSIS	ALYSIS	_
LABORATORY	BORATORY	
ANALYSIS LABORATORY	ALYSIS Boratory	

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 Ord	er Number: 1607D21		RcptNo:	1
Received by/date: AS 87 7.6 11	<u> </u>	· · · · · ·		
Logged By: Lindsay Mangin 7/26/2016 1	0:00:00 AM	Junky Harriso		
Completed By: Lindsay Mangin 7/26/2016/1	0:07:38 AM	And House		
Reviewed By:		0.00		
Chain of Custody	ence-			
1. Custody seals intact on sample bottles?		No 🗌	Not Present	
Custody seals intact on sample bottles :			Not Present	
2. How was the samela delivered?	Courier			
3. How was the sample delivered?	Couner			
<u>Log In</u>				
4. Was an attempt made to cool the samples?	Yes 🖌	No 🗌	NA 🗌	
5. Were all samples received at a temperature of $>0^\circ$ C to	6.0°C Yes ✔	No 🗌		
6. Sample(s) in proper container(s)?	Yes 🔽	No 🗌		
7. Sufficient sample volume for indicated test(s)?	Yes 🔽	No 🗆		
8. Are samples (except VOA and ONG) properly preserved	?Yes 🗹	No 🗌		
9. Was preservative added to bottles?	Yes 🗌	No 🗹	NA 🗔	
10.VOA vials have zero headspace?	Yes 🗌	No 🗌	No VOA Vials 🗹	
11. Were any sample containers received broken?	Yes 🗆	No 🗹 🛛	thef preserved	
	<u></u>		bottles checked	
12. Does paperwork match bottle labels?	Yes 🗹	No 🗔	for pH:	r>12 unless noted)
(Note discrepancies on chain of custody)	Yes V	No 🗌	Adjusted?	(= = = = = = = = = = = = = = = = = = =
14. Is it clear what analyses were requested?	Yes 🗹	No 🗌	. —	
15. Were all holding times able to be met?	Yes 🔽	No 🗌	Checked by:	
(If no, notify customer for authorization.)		L		
<u>Special Handling (if applicable)</u>				
16. Was client notified of all discrepancies with this order?	Yes 🗌	No 🗌	NA 🗹	7
Person Notified:	Date			
By Whom:	Via: 🗌 eMail 🗌	Phone 🗌 Fax	In Person	
Regarding:				
Client Instructions:				
17. Additional remarks:				
18. Cooler Information				
Cooler No Temp ºC Condition Seal Intact	Seal No Seal Date	Signed By		
1 4.9 Good Yes				

Unain-or-Lustoay Record		
lient: Souder Miller & Associates	Z Standard 🛛 Rush	
	Project Name:	www.hallenvironmental.com
ailing Address 201 S Halagueno Carlsbad, NM	Freedonic Connor 201#	4901 Hawkins NE - Albuquerque, NM 87109
	Project并;	Tel. 505-345-3975 Fax 505-345-4107
hone #: 575 689-7040		Analysis Request
nail or Fax#: austin.weyant@soudermiller.com	Project Manager:	
A/OC Package:		
Standard	Austin Weyant	
ccreditation:	Sampler: LCM	
NELAP Dother	On Ice: 🗹 Yes 🗆 No	
EDD (Type)	Sample Temperature: 4.400	
	Container Preservative	səlqc
Jate I ime Matrix Sample Kequest ID	Type and # Type //071001	08 08 7
22-16 17:00 50,1 PJ	402 / -WI	
1 1 1 02	$-\frac{1}{2}$	
4 4 h b3	COD- / 1	
	~	
ate: Time: Relinguaried by: 5-16 200 C Mm	Received by Date Time	Remarks: email results to lucas.middleton@soudermiller.com and f
ate: Time: Relinquished by:	Received by: Date Time avvil June 07/26/16 1000	
If necessary, samples admitted to Hall Environmental may be sub	bcontracted to other accredited laboratories. This serves as notice of this	possibility. Any sub-contracted data will be clearly notated on the analytical report.



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

April 10, 2019

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

RE: Janie Connor BG JC BG

OrderNo.: 1904173

Dear Melodie Sanjari:

Hall Environmental Analysis Laboratory received 22 sample(s) on 4/3/2019 for the analyses presented in the following report.

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

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

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

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Analytical Report

Lab Order: 1904173

	imental Analysis Lan	oratory, 1	IIC.		Date Repor	ted: 4/10/	2019
CLIENT: Project:	Souder, Miller & Associates Janie Connor BG JC BG			Ι	Lab Order:	19041	73
Lab ID:	1904173-001		Colle	ction Date	e: 4/2/2019 9:	30:00 AM	[
Client Sample ID:	JC-2'			Matrix	K: SOIL		
Analyses		Result	RL Qu	al Units	DF Date A	nalyzed	Batch ID
EPA METHOD 30 Chloride	0.0: ANIONS	990	60	mg/Kg	20 4/6/2019	Ana 9 5:35:25 P	llyst: CJS M 44170
Lab ID:	1904173-003		Colle	ction Date	e: 4/2/2019 9:	50:00 AM	[
Client Sample ID:	JC-6'			Matrix	K: SOIL		
Analyses		Result	RL Qu	al Units	DF Date A	nalyzed	Batch ID
EPA METHOD 30 Chloride	0.0: ANIONS	290	60	mg/Kg	20 4/6/2015	Ana 9 5:47:50 P	llyst: CJS M 44170
Lab ID:	1904173-005		Colle	ction Date	e: 4/2/2019 10):10:00 AN	M
Client Sample ID:	JC-10'			Matrix	K: SOIL		
Analyses		Result	RL Qu	al Units	DF Date A	nalyzed	Batch ID
EPA METHOD 30	0.0: ANIONS					Ana	lyst: CJS
Chloride		160	61	mg/Kg	20 4/6/2019	∂ 6:00:14 P	M 44170
Lab ID:	1904173-006		Colle	ction Date	e: 4/2/2019 10):20:00 AN	Ν
Client Sample ID:	JC-12'			Matrix	K: SOIL		
Analyses		Result	RL Qu	al Units	DF Date A	nalyzed	Batch ID
EPA METHOD 30 Chloride	0.0: ANIONS	130	60	mg/Kg	20 4/6/2019	Ana 9 6:37:29 P	llyst: CJS M 44170
Lab ID:	1904173-007		Colle	ction Date	e: 4/2/2019 10):45:00 AN	M
Client Sample ID:	JC2-2'			Matrix	K: SOIL		
Analyses		Result	RL Qu	al Units	DF Date A	nalyzed	Batch ID
EPA METHOD 30	0.0: ANIONS					Ana	llyst: CJS
Chloride		170	60	mg/Kg	20 4/6/2019	9 6:49:54 P	M 44170

Hall Environmental Analysis Laboratory Inc

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

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

ND Not Detected at the Reporting Limit

W

RL Reporting Detection Limit

Analytical Report

Lab Order: 1904173

Hall Environ	imental Analysis Lat	oratory, li	nc.			Date Reported: 4/10/2019				
CLIENT: Project:	Souder, Miller & Associates Janie Connor BG JC BG					L	ab ()rder: 190)4173	
Lab ID:	1904173-009			С	ollecti	on Date	: 4/2	2/2019 10:55:00	AM	
Client Sample ID:	: JC2-6'					Matrix	: SC	DIL		
Analyses		Result	R	L	Qual	Units	DF	Date Analyzed	1 1	Batch ID
EPA METHOD 30	0.0: ANIONS							ļ	Analys	st: CJS
Chloride		190	(60		mg/Kg	20	4/6/2019 7:02:1	8 PM	44170
Lab ID:	1904173-011			С	ollecti	on Date	: 4/2	2/2019 11:05:00	AM	
Client Sample ID:	: JC2-10'					Matrix	: SC	DIL		
Analyses		Result	R	L	Qual	Units	DF	Date Analyzed	1 1	Batch ID
EPA METHOD 30 Chloride	00.0: ANIONS	100	(60		mg/Kg	20	/ 4/6/2019 7:14:4	\nalys 3 PM	st: CJS 44170
Lab ID:	1904173-012			С	ollecti	on Date	: 4/2	2/2019 11:30:00	AM	
Client Sample ID:	: JC3-2'					Matrix	: SC	DIL		
Analyses		Result	R	L	Qual	Units	DF	Date Analyzed	1 1	Batch ID
EPA METHOD 30	0.0: ANIONS							ŀ	Analys	st: smb
Chloride		4900	1	50		mg/Kg	50	4/8/2019 4:20:1	7 PM	44170
Lab ID:	1904173-013			С	ollecti	on Date	: 4/2	2/2019 11:35:00	AM	
Client Sample ID:	: JC3-4'					Matrix	: SC	DIL		
Analyses		Result	R	L	Qual	Units	DF	Date Analyzed	1 1	Batch ID
EPA METHOD 30	0.0: ANIONS							ŀ	۹naly	st: CJS
Chloride		2200	(60		mg/Kg	20	4/6/2019 8:04:2	3 PM	44170
Lab ID:	1904173-014			С	ollecti	on Date	: 4/2	2/2019 11:45:00	AM	
Client Sample ID:	: JC3-6'					Matrix	: SC	DIL		
Analyses		Result	R	L	Qual	Units	DF	Date Analyzed	1 1	Batch ID
EPA METHOD 30	00.0: ANIONS							ŀ	۹naly	st: CJS
Chloride		1400	(60		mg/Kg	20	4/6/2019 8:16:4	8 PM	44170

• . - ------. .

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

 H
 Holding times for preparation or analysis exceeded

 PQL
 Practical Quanitative Limit
 Qualifiers:

ND Not Detected at the Reporting Limit

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

Analytical Report

Lab Order: 1904173

Hall Environ	mental Analysis Lab	ooratory, Inc.				Ι	Date Report	ed: 4/10	/2019	
CLIENT: Project:	Souder, Miller & Associates Janie Connor BG JC BG				L	ab C)rder:	19041	73	
Lab ID:	1904173-016		С	ollecti	on Date	: 4/2	2/2019 11:	55:00 AI	М	
Client Sample ID:	JC3-10'				Matrix	: SC	DIL			
Analyses		Result	RL	Qual	Units	DF	Date Ana	alyzed	Bat	ch ID
EPA METHOD 30	0.0: ANIONS							Ana	alyst:	CJS
Chloride		750	59		mg/Kg	20	4/6/2019	8:29:12 P	М	44170
Lab ID:	1904173-018		C	ollecti	on Date	: 4/2	2/2019 12:	10:00 PM	М	
Client Sample ID:	JC4-2'	Matrix: SOIL								
Analyses		Result	RL	Qual	Units	DF	Date Ana	alyzed	Bat	ch ID
EPA METHOD 30	0.0: ANIONS							Ana	alyst:	smb
Chloride		9900	600		mg/Kg	20	0 4/8/2019	4:32:42 P	М	44170
Lab ID:	1904173-020		C	ollecti	on Date	: 4/2	2/2019 12:	30:00 PN	М	
Client Sample ID:	JC4-6'				Matrix	: SC	DIL			
Analyses		Result	RL	Qual	Units	DF	Date Ana	alyzed	Bat	ch ID
EPA METHOD 30	0.0: ANIONS							Ana	alyst:	smb
Chloride		4900	150		mg/Kg	50	4/8/2019	4:45:07 P	М	44170
Lab ID:	1904173-022		С	ollecti	on Date	: 4/2	2/2019 12:	50:00 PN	M	
Client Sample ID:	JC4-10'				Matrix	: SC	DIL			
Analyses		Result	RL	Qual	Units	DF	Date Ana	alyzed	Bat	ch ID
EPA METHOD 30	0.0: ANIONS							Ana	alyst:	smb
Chloride		3600	150		mg/Kg	50	4/8/2019	5:22:22 P	М	44170

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

Qualifiers:

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

ND Not Detected at the Reporting Limit

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

RL Reporting Detection Limit

Client: Project:	Soude Janie	er, Miller & As Connor BG JC	ssociate C BG	es							
Sample ID:	MB-44170	SampT	ype: m t	olk	Tes	tCode: El	PA Method	300.0: Anion	s		
Client ID:	PBS	Batch	D: 44	170	F	RunNo: 5	8961				
Prep Date:	4/6/2019	Analysis D	ate: 4/	6/2019	S	SeqNo: 1	983371	Units: mg/K	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND	1.5								
Sample ID:	LCS-44170	SampT	ype: Ics	;	Tes	tCode: El	PA Method	300.0: Anion	s		
Client ID:	LCSS	Batch	D: 44	170	F	RunNo: 5	8961				
Prep Date:	4/6/2019	Analysis D	ate: 4/	6/2019	S	SeqNo: 1	983373	Units: mg/K	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		14	1.5	15.00	0	93.4	90	110			

Qualifiers:

H Holding times for preparation or analysis exceeded

PQL Practical Quanitative Limit

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

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

WO#: 1904173

10-Apr-19

ANALYSI LABORAT	IMENTAL Is Tory	Hall Environm TEL: 505-345 Website: wy	eental Analysis Labord 4901 Hawkin Albuquerque, NM 8 -3975 FAX: 505-345- vw.hallenvironmental	atory 18 NE 7109 San 4107 2.com	nple Log-In Che	eck List
Client Name: SN	MA-CARLSBAD	Work Order Nur	mber: 1904173		RcptNo: 1	
Received By: Y	azmine Garduno	4/3/2019 8:50:00	АМ	rfozmin lefnderte	5	
Completed By: E	rin Melendrez	4/3/2019 10:38:56	6 AM	MA	7	
Reviewed By: DA	JC 4-3.	-19				
Chain of Custon	<u>vy</u>					
 Is chain of custo How was the same 	ay complete?		Yes 💌	NO 🛄	Not Present	
Z. How was the sam	iple delivered?		Courier			
Log In 3. Was an attempt n	nade to cool the sample	5?	Yes 🖌	No 🗌		
4. Were all samples	received at a temperatu	re of >0° C to 6.0°C	Yes 🔽	No 🗌		
5. Sample(s) in prop	per container(s)?		Yes 🗸	No 🗌		
6. Sufficient sample	volume for indicated test	(s)?	Yes 🗹	No 🗌		
7. Are samples (exce	ept VOA and ONG) prop	erly preserved?	Yes 🖌	No 🗌		
8. Was preservative	added to bottles?		Yes 🗌	No 🔽	NA 🗌	
9. VOA vials have ze	ero headspace?		Yes	No 🗌	No VOA Vials 🗹	
10. Were any sample	containers received bro	ken?	Yes	No 🔽		
11. Does paperwork m (Note discrepancie	natch bottle labels? es on chain of custody)		Yes 🔽	No 🗌	# of preserved bottles checked for pH: (<2 or >12	unless noted)
12. Are matrices corre	ectly identified on Chain of	of Custody?	Yes 🔽	No 🗌	Adjusted?	
13. Is it clear what and	alyses were requested?		Yes 🗹	No 🗌		
14. Were all holding til (If no, notify custor	mes able to be met? mer for authorization.)		Yes 🗹	No 🗌	Checked by:	_ 4-5-13
Special Handling	(if applicable)					
15. Was client notified	d of all discrepancies wit	h this order?	Yes	No 🗌	NA 🔽	
Person Noti	ified:	Date	e: [
By Whom:	[Via:	, eMail P	hone 🗌 Fax	In Person	
Regarding:	l					
Client Instru	ictions:					
16. Additional remark	<s:< td=""><td></td><td></td><td></td><td></td><td></td></s:<>					
17. <u>Cooler Informati</u> Cooler No T	ion Femp °C Condition	Seal Intact Seal No	Seal Date	Signed By		

TAXABLE IN ANY A DESCRIPTION OF				 oour Duito	Oigned Dy
1	2.1	Good	Yes		
2	2.8	Good	Yes		
3	5.6	Good	Yes		
3	5.6	Good	Yes		

Chain-of-Custody Record	Turn-Around	Time:				1	1						
Client: SWA Court Stored.	□ Standard	K Rush	Sday					ST ST	S LR	ABO	MEN	LAL OR	. >
	Project Name						w hall	anviror	ment	al com)	
Mailing Address:	25	ue Cor	mor BG	49	01 Ha	wkins	- NE	Albuqu	rerque	e, NM 8	7109		
	Project #:		(JC-89	́т	el. 505	-345-3	3975	Fax	505-	345-410	70		
Phone #:							Ar	alysis	Reg	uest			
email or Fax#:	Project Mana	ger:		() ()				[†] O [†]		(ìn			
QA/QC Package:	Melo	de San	inori	S08) г' ЯМ \ О	PCB's	SMISC	10 mm 0	PO₄, S		əsdA\tr			
Accreditation:	Sampler: M	Res Kin		амт 90 / ОЯ	2808	4.1) ۲.827		^{'7} ON	(\	19291			
	Un Ice: # of Coolers:	py ves	ON 🗆	2RC 18C	/səp	0 0 0 0	sls	' ⁸ C	√0/				
	Cooler Temp	ncluding CF): 2.	1,0,2,4,5,0,0	ATE 9)08	sticio	283	təM	(AC	-ime	liforr			
	Container	Preservative	HEAL No.	1EX /	99 1 80	(d sH <i>f</i>	8 AAC	9V) 093	9S) 073	oO leto			
<u>Date Time Matrix Sample Name</u> ルトゥルムの・フロー・	Type and #	Type	1404115	-8 -	08	/d	ਮ ਇ	85	28	рТ			
7/0/11/1:30 Jun 10-02	121		-001			à L	1	-	(
			-002	-	5	Z	N	+	P	3			
9:30 UC-6+		-	-003	_									_
10:00 JC - 8'			-001		50	4	17	1	5	9			
10:10 1 30-101		,	-005					2					
10:20 10:10			-006					$\overline{\}$					
											1887 1		
								. •					
										-			
Hafe: Time: Relinquished by:	Received by:	Via:	Under Time	Remark	:: t			-		-	-	1	
Date: Time: Relinquished by: V	Received by:	Via: PCANTRY	Date Time	Der De									
If heressary, samples submitted to Hall Environmental may be sub-	bcontracted to other ac	credited laboratories	s. This serves as notice of this	possibility.	Any sub-	contracte	d data w	II be clea	rly notat	ed on the a	inalytical repo	, Ľ	

?

Chain-of-Custody Record	Turn-Around T	ime:									(
Client: PMA - Cansped	□ Standard	Rush	Sdau	[A Z	ľ.	rs) IS	T S				AL R	
	Project Name:	4	,					v.hall	enviro	nme	tal con)) _	9 11 14	¢ 	
Mailing Address:	8	el any	c Conner	- BG	490	l Haw	kins I	- 山 マ	Albuc	Inerg	ue. NM	87109			
	Project #:		(JC-BG		Tel.	505-	345-3	975	Fay	× 50!	-345-4	107			
Phone #:								Ar	alysi	s Re	quest				
email or Fax#:	Project Manag	er:		(1	(0				[†] O		(ìn			-	
QA/QC Package:	Melo	die Sal	mari	208) e'	AM \ O	8.804	SMISC		S '⁺Od		ləsdA\tr				
Accreditation:	Sampler: N	PS 1 Yes	N	амт \ амт \	80 / O	7808/5)728 rc		ʻ ^z ON	(A	Preser				
EDD (Type)	# of Coolers:	r r		BE 	มอ)	g po	01	slet	103	ΟΛ-) ա.				
	Cooler Temp(in	cluding CF): 7.	1.8.213.1	TM	12D	Surc	y 83	əM 8	10 V)	-imə	iotilo				
Date Time Matrix Sample Name	Container F Type and # 7	Preservative	HEAL No.	N X T A	08:H9T	EDB (M	d sHA9	З АЯЭЯ	CIDE, E	s) 0228	D letoT	<u>,</u> 4.			
4/2/18 10:45 Seri 102-21	tre.		-007					ĺ	5						
1 10256 1 1022-41	-	1	-008		17	(B)	A	1		1	3				
1 10:55 JC2-61			-009-					1.0	X					-	
11:00 102 18:		J	-010		A	12	XX	(4)			100	A			
It: of JCZ 1,01			110-												
4 7	Ø							0	-						
									-						
										_					
				+					+	_				+	\square
	0		1		-	_			-	_		2		_	
12/19/19/1420 N	Receivedoy	Via:	12 real rime	30 Rem	iarks: n H	NOT	\geq								
Date: Time: Relingetished by:	Received by:	via: NUM e/	USIA S.		5	3	۱ ۲								
If necessary, samples submitted to Hall Environmental may be sub-	bcontracted to other acc	redited laboratories	. This serves as notice	of this possib	ility. An	y sub-co	ntracted	l data w	II be cle	arly not	ated on the	e analytic	al report.		7

Chain-of-(Custody Record	Turn-Around Time:	And a second sec					
Client: SMP	- Cansbed.	□ Standard	Sday		ANAI	VSTS	I ARORAT	OPV
		Project Name:	٦.		ed.www	lenvironme	ental.com	
Mailing Address:		Jante Conner	BGS (UC-BE	1) 4901 H	awkins NE	Albuquer	que. NM 87109	
		Project #:		× Tel. 50	5-345-3975	Fax 5(05-345-4107	
Phone #:					1	nalysis R	equest	
email or Fax#:		Project Manager:		(0) (1		[⊅] 0 [¢]	(ĵu	
QA/QC Package:	I evel 4 (Eull Validation)	Melodre (Sanjari	осв, ^а 0 / МК	SWIS	S '⁺Oc	əsdA\	
Accreditation:	Compliance	Sampler: MPS		2807 (1 DRG / 1 2808	(1.4 0728	I ^{'z} ON	ieseni	
	ner	Un Ice: A Yes	NO	ares/	90 01 10 0	'°C	40\ 9) n	
		Cooler Temp(including CF): 2	1, 2, 4, 5, 6, 0	MTB 5D(0	odfe v 831 Met	r, N (AC	/-ime niforr	
i		Container Preservative	HEAL No.	ТЕХ / PH:80	M) 80 АНs b <u>i</u> 8 АЯЭ	560 (V	2) 012 DO leta	
4/2/19 11:30 Suri	Comple Name	1 ype and # 1 ype	CI INOLI 210-	8 8 8	ы а а	2 2	28 21	
r 11:35	1/2-41		-013			7		
11:45	103 Co1		-DIU					
25:11	Jc3 81		-015	A	AND	1	274	
11:55	Jc3 10'		- CN (C			2		
A 12.00	JC3. 121	Ø,	L10-	PC	SASE	Ŧ	. Ano	
Parte: Time: Relinque	lished by:	Received by: Via:	4/2/19 1430	Remarks: Matallo1				
Date: Time: Relinqu	lished by:	Received by: Via:	(Date Time	20				
If necessary, samples	submitted to Hall Environmental may be subco	ontracted to other accredited laboratori	es. This serves as notice of this p	ossibility. Any sub	-contracted data	will be clearly n	notated on the analytical repo	ort.

	Description Standard Rush Show and Standard Rush	Project Name:	Mur Converted - , 4901 Hawkins NE - Albuquerque, NM 87109	Project #: (1/CB C) Tel. 505-345-3975 Fax 505-345-4107	Analysis Request	Project Manager:	ation M 0 M L CB's SIMS		On Ice: Yes DNo (Pro	# of Coolers: - 5	Cooler Lemp(including cF): 2 / C 2 / V 2 / W 5 / W 5 / W 2 /	Container Preservative HEAL No. X BTEX 8081 F Type and # Type	SIO rab	-NIG PLEASE HOUD		2 -021 PLEASE HOURS					Received by: Via: Party line Remarks: Received by: Via: Data Time	Why currer Hally 5:50	y 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.
Chain-of-Custody Record	Client: SIMA -	1 ransport	Mailing Address:		Phone #:	email or Fax#:	QA/QC Package:	Accreditation: Az Compliance	□ NELAC □ Other □	□ EDD (Type) 4		Date Time Matrix Sample Name	4/2/1/ 12,10 Sear 1,154-21	1 12:20 (109-41	12:30 1 11.4- Le'	12:40 11:21	101-101 9 es:21 n				4 7 4 7 14 1730 Relinquished by	the 190 Al	I I I I I necessary, samples submitted to Hall Environmental may be subco



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

May 06, 2019

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

OrderNo.: 1904D89

RE: Janie Conner

Dear Melodie Sanjari:

Hall Environmental Analysis Laboratory received 9 sample(s) on 4/30/2019 for the analyses presented in the following report.

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

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

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

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 5/6/2019

CLIENT: Souder, Miller & Associates		Cl	ient Sample II	D: SV	V1	
Project: Janie Conner		(Collection Dat	e: 4/2	25/2019 4:50:00 AM	
Lab ID: 1904D89-001	Matrix: SOIL		Received Dat	e: 4/3	30/2019 9:00:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: MRA
Chloride	150	60	mg/Kg	20	5/1/2019 4:21:45 PM	44638
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analys	t: TOM
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	5/1/2019 4:57:06 PM	44624
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	5/1/2019 4:57:06 PM	44624
Surr: DNOP	99.1	70-130	%Rec	1	5/1/2019 4:57:06 PM	44624
EPA METHOD 8015D: GASOLINE RANG	E				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	5/1/2019 9:27:27 PM	44616
Surr: BFB	91.3	73.8-119	%Rec	1	5/1/2019 9:27:27 PM	44616
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.025	mg/Kg	1	5/1/2019 9:27:27 PM	44616
Toluene	ND	0.050	mg/Kg	1	5/1/2019 9:27:27 PM	44616
Ethylbenzene	ND	0.050	mg/Kg	1	5/1/2019 9:27:27 PM	44616
Xylenes, Total	ND	0.10	mg/Kg	1	5/1/2019 9:27:27 PM	44616
Surr: 4-Bromofluorobenzene	91.7	80-120	%Rec	1	5/1/2019 9:27:27 PM	44616

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

Qualifiers:

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

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

Page 1 of 13

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 5/6/2019

CLIENT: Souder, Miller & Associates		Cl	ient Sample II	D: SV	V2	
Lab ID: 1904D89-002	Matrix: SOIL	,	Received Dat	e: 4/2 e• 4/?	30/2019 4:30:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: MRA
Chloride	530	60	mg/Kg	20	5/1/2019 4:34:10 PM	44638
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analys	t: TOM
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	5/1/2019 5:19:12 PM	44624
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	5/1/2019 5:19:12 PM	44624
Surr: DNOP	96.8	70-130	%Rec	1	5/1/2019 5:19:12 PM	44624
EPA METHOD 8015D: GASOLINE RANG	E				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	5/1/2019 9:50:59 PM	44616
Surr: BFB	93.1	73.8-119	%Rec	1	5/1/2019 9:50:59 PM	44616
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.024	mg/Kg	1	5/1/2019 9:50:59 PM	44616
Toluene	ND	0.048	mg/Kg	1	5/1/2019 9:50:59 PM	44616
Ethylbenzene	ND	0.048	mg/Kg	1	5/1/2019 9:50:59 PM	44616
Xylenes, Total	ND	0.095	mg/Kg	1	5/1/2019 9:50:59 PM	44616
Surr: 4-Bromofluorobenzene	91.3	80-120	%Rec	1	5/1/2019 9:50:59 PM	44616

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

Qualifiers:

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

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

Page 2 of 13

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 5/6/2019

CLIENT: Souder, Miller & Associates		CI	ient Sample II): SV	V3	
Project: Janie Conner Lab ID: 1004D80.002	Matrix, SOII	, i	Descrived Det	e: 4/2	25/2019 12:00:00 PM	
Lao ID: 1904D89-003	Matrix: SOIL		Received Date	e: 4/3	50/2019 9:00:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	370	60	mg/Kg	20	5/1/2019 4:46:35 PM	44638
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	: том
Diesel Range Organics (DRO)	ND	8.7	mg/Kg	1	5/1/2019 5:41:32 PM	44624
Motor Oil Range Organics (MRO)	ND	44	mg/Kg	1	5/1/2019 5:41:32 PM	44624
Surr: DNOP	95.2	70-130	%Rec	1	5/1/2019 5:41:32 PM	44624
EPA METHOD 8015D: GASOLINE RANGE	E				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	5/1/2019 11:01:26 PM	44616
Surr: BFB	91.3	73.8-119	%Rec	1	5/1/2019 11:01:26 PM	44616
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	5/1/2019 11:01:26 PM	44616
Toluene	ND	0.048	mg/Kg	1	5/1/2019 11:01:26 PM	44616
Ethylbenzene	ND	0.048	mg/Kg	1	5/1/2019 11:01:26 PM	44616
Xylenes, Total	ND	0.097	mg/Kg	1	5/1/2019 11:01:26 PM	44616
Surr: 4-Bromofluorobenzene	91.2	80-120	%Rec	1	5/1/2019 11:01:26 PM	44616

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

Qualifiers:

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

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

RL Reporting Limit

Page 3 of 13

S % Recovery outside of range due to dilution or matrix

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 5/6/2019

CLIENT: Souder, Miller & Associates Project: Janie Conner		Cl	ient Sample II Collection Date): SV e: 4/2	V4 25/2019 12:30:00 PM	
Lab ID: 1904D89-004	Matrix: SOIL		Received Date	e: 4/3	30/2019 9:00:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	550	60	mg/Kg	20	5/1/2019 4:59:00 PM	44638
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	том
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	5/1/2019 6:03:52 PM	44624
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	5/1/2019 6:03:52 PM	44624
Surr: DNOP	94.4	70-130	%Rec	1	5/1/2019 6:03:52 PM	44624
EPA METHOD 8015D: GASOLINE RANGE	E				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	5/1/2019 11:24:51 PM	44616
Surr: BFB	89.5	73.8-119	%Rec	1	5/1/2019 11:24:51 PM	44616
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.025	mg/Kg	1	5/1/2019 11:24:51 PM	44616
Toluene	ND	0.050	mg/Kg	1	5/1/2019 11:24:51 PM	44616
Ethylbenzene	ND	0.050	mg/Kg	1	5/1/2019 11:24:51 PM	44616
Xylenes, Total	ND	0.10	mg/Kg	1	5/1/2019 11:24:51 PM	44616
Surr: 4-Bromofluorobenzene	90.2	80-120	%Rec	1	5/1/2019 11:24:51 PM	44616

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

Qualifiers:

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

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

Page 4 of 13

S % Recovery outside of range due to dilution or matrix
Hall Environmental Analysis Laboratory, Inc.

Date Reported: 5/6/2019

CLIENT: Souder, Miller & Associates Project: Janie Conner		Cl	ient Sample II Collection Dat	D: SV	V5 26/2019 11:00:00 AM	
Lab ID: 1904D89-005	Matrix: SOIL	·	Received Date	e: 4/3	80/2019 9:00:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	1200	60	mg/Kg	20	5/1/2019 7:15:29 PM	44662
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	: том
Diesel Range Organics (DRO)	ND	9.1	mg/Kg	1	5/1/2019 6:26:16 PM	44624
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	5/1/2019 6:26:16 PM	44624
Surr: DNOP	95.7	70-130	%Rec	1	5/1/2019 6:26:16 PM	44624
EPA METHOD 8015D: GASOLINE RANGE	<u>.</u>				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	5/1/2019 11:48:23 PM	44616
Surr: BFB	91.8	73.8-119	%Rec	1	5/1/2019 11:48:23 PM	44616
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.025	mg/Kg	1	5/1/2019 11:48:23 PM	44616
Toluene	ND	0.050	mg/Kg	1	5/1/2019 11:48:23 PM	44616
Ethylbenzene	ND	0.050	mg/Kg	1	5/1/2019 11:48:23 PM	44616
Xylenes, Total	ND	0.099	mg/Kg	1	5/1/2019 11:48:23 PM	44616
Surr: 4-Bromofluorobenzene	92.6	80-120	%Rec	1	5/1/2019 11:48:23 PM	44616

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

Qualifiers:

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

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

Page 5 of 13

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 5/6/2019

CLIENT: Souder, Miller & Associates Project: Janie Conner Lab ID: 1904D89-006	Matrix: SOIL	Cl (ient Sample II Collection Dat Received Dat): BH e: 4/2 e: 4/3	H1 25/2019 5:00:00 AM 30/2019 9:00:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: MRA
Chloride	470	60	mg/Kg	20	5/1/2019 7:52:42 PM	44662
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	: TOM
Diesel Range Organics (DRO)	ND	8.8	mg/Kg	1	5/1/2019 6:48:17 PM	44624
Motor Oil Range Organics (MRO)	ND	44	mg/Kg	1	5/1/2019 6:48:17 PM	44624
Surr: DNOP	94.8	70-130	%Rec	1	5/1/2019 6:48:17 PM	44624
EPA METHOD 8015D: GASOLINE RANG	E				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/2/2019 12:11:56 AM	44616
Surr: BFB	89.0	73.8-119	%Rec	1	5/2/2019 12:11:56 AM	44616
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	5/2/2019 12:11:56 AM	44616
Toluene	ND	0.049	mg/Kg	1	5/2/2019 12:11:56 AM	44616
Ethylbenzene	ND	0.049	mg/Kg	1	5/2/2019 12:11:56 AM	44616
Xylenes, Total	ND	0.098	mg/Kg	1	5/2/2019 12:11:56 AM	44616
Surr: 4-Bromofluorobenzene	88.2	80-120	%Rec	1	5/2/2019 12:11:56 AM	44616

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
- S % Recovery outside of range due to dilution or matrix

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

Page 6 of 13

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 5/6/2019

CLIENT: Souder, Miller & Associates		Cl	ient Sample II Collection Dat): BF	H2 25/2019 11:45:00 AM	
Lab ID: 1904D89-007	Matrix: SOIL	·	Received Date	e: 4/3	30/2019 9:00:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	2300	150	mg/Kg	50	5/2/2019 5:03:12 PM	44662
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	: том
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	5/1/2019 7:10:44 PM	44624
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	5/1/2019 7:10:44 PM	44624
Surr: DNOP	94.4	70-130	%Rec	1	5/1/2019 7:10:44 PM	44624
EPA METHOD 8015D: GASOLINE RANGE	E				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/2/2019 12:35:23 AM	44616
Surr: BFB	93.2	73.8-119	%Rec	1	5/2/2019 12:35:23 AM	44616
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.025	mg/Kg	1	5/2/2019 12:35:23 AM	44616
Toluene	ND	0.049	mg/Kg	1	5/2/2019 12:35:23 AM	44616
Ethylbenzene	ND	0.049	mg/Kg	1	5/2/2019 12:35:23 AM	44616
Xylenes, Total	ND	0.099	mg/Kg	1	5/2/2019 12:35:23 AM	44616
Surr: 4-Bromofluorobenzene	94.1	80-120	%Rec	1	5/2/2019 12:35:23 AM	44616

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

Qualifiers:

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

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

Page 7 of 13

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 5/6/2019

CLIENT: Souder, Miller & Associates Project: Janie Conner		CI (ient Sample II Collection Date): BF e : 4/2	13 25/2019 4:15:00 AM	
Lab ID: 1904D89-008	Matrix: SOIL		Received Date	e: 4/3	80/2019 9:00:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	1100	60	mg/Kg	20	5/1/2019 9:07:10 PM	44662
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	: том
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	5/1/2019 7:33:04 PM	44624
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	5/1/2019 7:33:04 PM	44624
Surr: DNOP	75.2	70-130	%Rec	1	5/1/2019 7:33:04 PM	44624
EPA METHOD 8015D: GASOLINE RANGE	E				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	5/2/2019 12:58:39 AM	44616
Surr: BFB	100	73.8-119	%Rec	1	5/2/2019 12:58:39 AM	44616
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	5/2/2019 12:58:39 AM	44616
Toluene	ND	0.048	mg/Kg	1	5/2/2019 12:58:39 AM	44616
Ethylbenzene	ND	0.048	mg/Kg	1	5/2/2019 12:58:39 AM	44616
Xylenes, Total	ND	0.097	mg/Kg	1	5/2/2019 12:58:39 AM	44616
Surr: 4-Bromofluorobenzene	99.3	80-120	%Rec	1	5/2/2019 12:58:39 AM	44616

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

Qualifiers: *

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

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

Page 8 of 13

5/2/2019 1:22:15 AM

5/2/2019 1:22:15 AM

44616

44616

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates **Client Sample ID: BH4** Janie Conner Collection Date: 4/26/2019 12:00:00 PM 1904D89-009 Matrix: SOIL Received Date: 4/30/2019 9:00:00 AM Result **RL** Oual Units **DF** Date Analyzed Batch Analyst: MRA **EPA METHOD 300.0: ANIONS** 1400 59 mg/Kg 20 5/1/2019 9:19:34 PM 44662 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: TOM **Diesel Range Organics (DRO)** 31 9.3 mg/Kg 1 5/7/2019 9:51:36 AM 44736 Motor Oil Range Organics (MRO) ND 44736 47 mg/Kg 1 5/7/2019 9:51:36 AM Surr: DNOP 98.6 %Rec 5/7/2019 9:51:36 AM 44736 70-130 1 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB ND Gasoline Range Organics (GRO) 5.0 5/2/2019 1:22:15 AM 44616 mg/Kg 1 Surr: BFB 97.0 73.8-119 %Rec 5/2/2019 1:22:15 AM 44616 1 **EPA METHOD 8021B: VOLATILES** Analyst: NSB ND Benzene 0.025 5/2/2019 1:22:15 AM 44616 mg/Kg 1 ND 0.050 mg/Kg 1 5/2/2019 1:22:15 AM 44616 Ethylbenzene ND 0.050 mg/Kg 1 5/2/2019 1:22:15 AM 44616

ND

97.0

0.10

80-120

mg/Kg

%Rec

1

1

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

Qualifiers:

Project:

Lab ID:

Analyses

Chloride

Toluene

Xylenes, Total

Surr: 4-Bromofluorobenzene

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

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

Page 9 of 0

Client: Project:	Soude Janie	er, Miller & Associates Conner			
Sample ID:	MB-44638	SampType: mblk	TestCode: EPA Method	300.0: Anions	
Client ID:	PBS	Batch ID: 44638	RunNo: 59556		
Prep Date:	5/1/2019	Analysis Date: 5/1/2019	SeqNo: 2007895	Units: mg/Kg	
Analyte		Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Chloride		ND 1.5			
Sample ID:	LCS-44638	SampType: Ics	TestCode: EPA Method	300.0: Anions	
Client ID:	LCSS	Batch ID: 44638	RunNo: 59556		
Prep Date:	5/1/2019	Analysis Date: 5/1/2019	SeqNo: 2007896	Units: mg/Kg	
Analyte		Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Chloride		15 1.5 15.00	0 97.8 90	110	
Sample ID:	MB-44662	SampType: mblk	TestCode: EPA Method	300.0: Anions	
Client ID:	PBS	Batch ID: 44662	RunNo: 59556		
Prep Date:	5/1/2019	Analysis Date: 5/1/2019	SeqNo: 2007930	Units: mg/Kg	
Analyte		Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Chloride		ND 1.5			
Sample ID:	LCS-44662	SampType: Ics	TestCode: EPA Method	300.0: Anions	
Client ID:	LCSS	Batch ID: 44662	RunNo: 59556		
Prep Date:	5/1/2019	Analysis Date: 5/1/2019	SeqNo: 2007931	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 Limit

Page 10 of 13

06-May-19

WO#:	1904D89
	1/0120/

06-May-19

Client: So Project: Jan	uder, Miller & A nie Conner	ssociate	es							
Sample ID: LCS-44624	SampT	ype: LC	S	Tes	tCode: EF	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: LCSS	Batch	n ID: 44	624	F	RunNo: 5 9	9549				
Prep Date: 4/30/2019	Analysis D)ate: 5/	1/2019	5	SeqNo: 20	006946	Units: mg/ #	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRC) 48	10	50.00	0	96.3	63.9	124			
Surr: DNOP	3.8		5.000		75.6	70	130			
Sample ID: MB-44624	SampT	ype: ME	BLK	Tes	tCode: EF	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: PBS	Batch	n ID: 44	624	F	RunNo: 59	9549				
Prep Date: 4/30/2019	Analysis D	0ate: 5/	1/2019	5	SeqNo: 20	006948	Units: mg/k	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRC) ND	10								
Motor Oil Range Organics (M	RO) ND	50								
Surr: DNOP	8.2		10.00		81.9	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

Page 11 of 13

1904D89

06-May-19

Client: Project:	Souder, Janie Co	Miller & A onner	ssociate	es							
Sample ID: LCS-	44616	SampT	ype: LC	S	Tes	tCode: EF	PA Method	8015D: Gasc	line Rang	e	
Client ID: LCS	S	Batch	n ID: 44	616	F	RunNo: 5 9	9560				
Prep Date: 4/30	0/2019	Analysis D	0ate: 5/	1/2019	S	SeqNo: 20	008126	Units: mg/k	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Orga	nics (GRO)	24	5.0	25.00	0	97.8	80.1	123			
Surr: BFB		1000		1000		101	73.8	119			
Sample ID: MB-4	4616	SampT	ype: ME	BLK	Tes	tCode: EF	PA Method	8015D: Gasc	line Rang	e	
Client ID: PBS		Batch	n ID: 44	616	F	RunNo: 59	9560				
Prep Date: 4/30	0/2019	Analysis D	0ate: 5/	1/2019	S	SeqNo: 20	008129	Units: mg/k	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Orga	nics (GRO)	ND	5.0								
Surr: BFB		890		1000		88.9	73.8	119			

Qualifiers:

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

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

WO#:	1904D89
------	---------

06-May-19

Client:	Souder, Miller & Associates
Project:	Janie Conner

Sample ID: LCS-44616	SampT	ype: LC	S	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: LCSS	Batc	h ID: 44	616	F	RunNo: 5 9	9560				
Prep Date: 4/30/2019	Analysis E	Date: 5/	1/2019	5	SeqNo: 2	008175	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.025	1.000	0	91.0	80	120			
Toluene	0.94	0.050	1.000	0	93.9	80	120			
Ethylbenzene	0.94	0.050	1.000	0	93.7	80	120			
Xylenes, Total	2.8	0.10	3.000	0	94.2	80	120			
Surr: 4-Bromofluorobenzene	0.92		1.000		92.2	80	120			
Sample ID: MB-44616	SampT	уре: МЕ	BLK	Tes	tCode: El	PA Method	8021B: Volat	iles		
Sample ID: MB-44616 Client ID: PBS	Samp1 Batcl	「ype: ME h ID: 44	BLK 616	Tes F	tCode: El	PA Method 9560	8021B: Volat	iles		
Sample ID: MB-44616 Client ID: PBS Prep Date: 4/30/2019	SampT Batcl Analysis D	Type: ME h ID: 44 Date: 5 /	BLK 616 1/2019	Tes F S	tCode: EF RunNo: 59 SeqNo: 20	PA Method 9560 008177	8021B: Volat Units: mg/K	iles (g		
Sample ID: MB-44616 Client ID: PBS Prep Date: 4/30/2019 Analyte	SampT Batcl Analysis I Result	Type: ME h ID: 44 Date: 5/ PQL	BLK 516 1/2019 SPK value	Tes F S SPK Ref Val	tCode: EI RunNo: 59 SeqNo: 20 %REC	PA Method 9560 008177 LowLimit	8021B: Volat Units: mg/K HighLimit	iles (g %RPD	RPDLimit	Qual
Sample ID: MB-44616 Client ID: PBS Prep Date: 4/30/2019 Analyte Benzene	SampT Batcl Analysis I Result ND	Type: ME h ID: 44 Date: 5/ PQL 0.025	BLK 616 1/2019 SPK value	Tes F S SPK Ref Val	tCode: El RunNo: 5 SeqNo: 2 %REC	PA Method 9560 008177 LowLimit	8021B: Volat Units: mg/K HighLimit	iles Gg %RPD	RPDLimit	Qual
Sample ID: MB-44616 Client ID: PBS Prep Date: 4/30/2019 Analyte Benzene Toluene	SampT Batcl Analysis E Result ND ND	Type: ME h ID: 44 Date: 5/ PQL 0.025 0.050	BLK 616 1/2019 SPK value	Tes F S SPK Ref Val	tCode: El RunNo: 5 SeqNo: 2 %REC	PA Method 9560 008177 LowLimit	8021B: Volat Units: mg/K HighLimit	iles Gg %RPD	RPDLimit	Qual
Sample ID: MB-44616 Client ID: PBS Prep Date: 4/30/2019 Analyte Benzene Toluene Ethylbenzene	SampT Batcl Analysis E Result ND ND ND	Type: ME h ID: 440 Date: 5/ PQL 0.025 0.050 0.050	BLK 616 1/2019 SPK value	Tes F SPK Ref Val	tCode: El RunNo: 5 SeqNo: 2 %REC	PA Method 9560 008177 LowLimit	8021B: Volat Units: mg/K HighLimit	iles G %RPD	RPDLimit	Qual
Sample ID: MB-44616 Client ID: PBS Prep Date: 4/30/2019 Analyte Benzene Toluene Ethylbenzene Xylenes, Total	SampT Batcl Analysis E Result ND ND ND ND	Type: ME b ID: 44 Date: 5 PQL 0.025 0.050 0.050 0.10	BLK 516 1/2019 SPK value	Tes F SPK Ref Val	tCode: El RunNo: 5 SeqNo: 2 %REC	PA Method 9560 008177 LowLimit	8021B: Volat Units: mg/K HighLimit	iles G %RPD	RPDLimit	Qual

Qualifiers:

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

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

Page 13 of 13

	RONMENTA YSIS RATORY	AL.	Hal TEI	l Environmen A 2: 505-345-39 Vebsite: www	ntal Analy 490 Albuquero 975 FAX: challenvi	sis Laborato 1 Hawkins 1 nue, NM 871 505-345-41 ronmental.co	07 07 07	amp	le Log-In Cł	neck List
Client Name:	SMA-CARL	SBAD	Work	Order Numb	oer: 190	4D89			RcptNo:	1
Received By:	Isaiah Ort	iz	4/30/201	19 9:00:00 A	M		I-	.04		
Completed By:	Isaiah Ort	iz	4/30/201	9 9:15:28 A	M		T	04		
Reviewed By:	VVZ 4	30/19								
Chain of Cus	stody									
1. Is Chain of C	ustody compl	ete?			Yes	\checkmark	No [Not Present	
2. How was the	sample deliv	ered?			Cou	ier				
Log In										
3. Was an atten	npt made to c	ool the sampl	es?		Yes	\checkmark	No [
4. Were all sam	ples received	at a temperat	ure of >0° C t	o 6.0°C	Yes		No [
5. Sample(s) in	proper contai	ner(s)?			Yes		No [
6. Sufficient sam	nple volume fo	or indicated te	st(s)?		Yes	\checkmark	No 🗌			
7. Are samples (except VOA a	and ONG) pro	perly preserve	d?	Yes	\checkmark	No 🗌			
8. Was preserva	tive added to	bottles?			Yes		No 🔽	•	NA 🗌	
9. VOA vials hav	ve zero heads	pace?			Yes		No 🗌] N	lo VOA Vials 🗹	
10. Were any sar	nple containe	rs received br	oken?		Yes		No 🛽	#	of preserved	-19
11. Does paperwo (Note discreps	ork match bot ancies on cha	tle labels? in of custody)			Yes	\checkmark	No 🗌	_ fo	ortiles checked	12 unless noted)
12. Are matrices of	correctly ident	ified on Chair	of Custody?		Yes	\checkmark	No	ם	Adjusted?	,
13. Is it clear what	t analyses we	re requested?	,		Yes	\checkmark	No		NE	
14. Were all holdin (If no, notify cu	ng times able ustomer for a	to be met? uthorization.)			Yes	\checkmark	No 🗌	X	Checked by:	
Special Handl	ing (if app	licable)						/		
15. Was client no	tified of all dis	screpancies w	ith this order?		Yes		No [NA 🗹	
Person	Notified:		and the second	Date:						
By Who	om:			Via:	eMa	ail 🗌 Pho	one 🗌 F	ax 🗆	In Person	
Regard	ing:	ale al la tatà transmissione las								
Client Ir	nstructions:									
16. Additional ren	marks:									
17. Cooler Infor	mation									
Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal D	ate S	igned By	•		
1	0.1	Good	Yes							

HALL ENVIDONMENTAL	ANALYSIS LABORATORY	www.hallenvironmental.com	1 Hawkins NE - Albuquerque, NM 87109	505-345-3975 Fax 505-345-4107	Analysis Request	,014	PCB's	۱۹۶۶ ۲۵۶۶ ۲۵۶۶ ۱۵۶۶ ۱۵۶۶ ۱۵۶۶ ۱۵۶۶ ۱۵۶۶ ۱۵	s/8 504 504 (Pri (Pri	rm ()))))))))))))))))))	9 stice 9 Mé 9 M	201 Per												d Div	AUX.		
			4901	Tel.		(0) (L	208) s'i	N DB	/ OX	(GF		LPH 80		\ \	~ ~				11	15	1		 	emarks:	V /UL AL		
n-Around Time:	Standard Rush Sday	ject Name:	Janie Conner ()	iect #:		lect Manager:	Merodit Saunjari	npler: NPS	lce: A Yes 🗆 No	Coolers: / (-0.2. ^c)	Ner Temp(including CF):	itainer Preservative HEAL No.	02 · · · · · · · · · · · · · · · · · · ·	-200-	-003	-40-	100-	900-	- 007	-00%	6-00-		1. 1.	sived by Via: Date Time F	1001 118/18/14 120	eived by: Via: // Date Time	-L- COURS 4/30/14 09200 -
stody Record	ansbad.	Pro		Pro		Pro	Level 4 (Full Validation)	mpliance	On	0#	Co	Col Samula Name	1005	Sw Z	Sw3	Sw4	sus -	BH14	842	843	844			ed by: Rec	Man	Rec	
Chain-of-Cu	Client: SMA-Ce		Mailing Address:		Phone #:	email or Fax#:	QA/QC Package:	Accreditation: Accreditation:	□ NELAC □ Other	EDD (Type)		Data Time Matriv	4/15/11 4:50 Sor	1 4:30 1	12:00	12:30	4/24 11:00	4/25 5:00	11:45	21:4 1	4/26 12:00 2	-		Date: Time: Relinquishe	4/27 10:00 1V/ XW	Date: Time: Relinguishe	Vala Van Van XV



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

May 10, 2019

Melodie Sanjari Souder, Miller & Associates 201 S Halagueno Carlsbad, NM 88221 TEL: (575) 689-8801 FAX

OrderNo.: 1905372

RE: Janie Conner TB

Dear Melodie Sanjari:

Hall Environmental Analysis Laboratory received 2 sample(s) on 5/8/2019 for the analyses presented in the following report.

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

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

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

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Analytical Report	
Lab Order 1905372	

Hall Envi	ronmental Analysis	s Laboratory, Inc	•				Date Reported: 5/10/20	19		
CLIENT: Sou	uder, Miller & Associates		C	lient Sa	ample II	D: BH	12			
Project: Jan	ie Conner TB		Collection Date: 5/5/2019 12:00:00 PM							
Lab ID: 190		Recei	ved Dat	e: 5/8	8/2019 8:50:00 AM					
Analyses		Result	RL	Qual	Units	DF	Date Analyzed	Batch		
EPA METHO	D 300.0: ANIONS						Analys	t: MRA		
Chloride		1100	59		mg/Kg	20	5/9/2019 3:07:25 PM	44826		

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

Qualifiers:

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

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

Page 1 of 2

Client: Project:	Souder, M Janie Com	liller & As ner TB	ssociate	es								
Sample ID: MB	8-44826	SampT	ype: m t	olk	Tes	tCode: EF	PA Method	300.0: Anion	s			
Client ID: PB	S	Batch	ID: 44	826	F	RunNo: 59	9766					
Prep Date: 5/	9/2019	Analysis Da	ate: 5/	9/2019	S	SeqNo: 20	016237	Units: mg/K	g			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Chloride		ND	1.5									
Sample ID: LC	S-44826	SampT	ype: Ics	;	Tes	tCode: EF	PA Method	300.0: Anion	s			
Client ID: LC	SS	Batch	ID: 44	826	F	RunNo: 59	9766					
Prep Date: 5/	9/2019	Analysis Da	ate: 5/	9/2019	5	SeqNo: 20	016238	Units: mg/K	g			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Chloride		14	1.5	15.00	0	95.0	90	110				

Qualifiers:

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

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

10-May-19

	HALL ENVIF ANAL LABO	RONMENTAL Ysis Ratory	Hall Environment Ai TEL: 505-345-39 Website: www.	al Analysi 4901 Ibuquerqu 75 FAX: 5 hallenviro	s Laboratory Hawkins NE e, NM 87109 05-345-4107 nmental.com	San	nple Log-In Check List	
	Client Name:	SMA-CARLSBAD	Work Order Numbe	er: 19053	372		RcptNo: 1	
	Received By:	Isaiah Ortiz	5/8/2019 8:50:00 AM	1		I_C	24	
<u> </u>	Completed By: Reviewed By: Labeled Chain of Cus	Leah Baca M by DAD 5/8/1 stody	5/8/2019 9:27:45 AM	I	La	Bae	A.	
	1. Is Chain of C	ustody complete?		Yes	\checkmark	No 🗌	Not Present	
:	2. How was the	sample delivered?		<u>Courie</u>	er			
÷	<u>Log In</u> 3. Was an atten	npt made to cool the sampl	es?	Yes [v 1	No 🗌		
4	4. Were all sam	ples received at a temperat	ture of >0° C to 6.0°C	Yes	v 1	No 🗌		
ę	5. Sample(s) in	proper container(s)?		Yes		No 🗌		
6	Sufficient sam	ple volume for indicated te	est(s)?	Yes		1o 🗌		
1	7. Are samples (except VOA and ONG) pro	perly preserved?	Yes		lo 🗌		
8	3. Was preserva	tive added to bottles?		Yes	N	lo 🗹	NA 🗌	
ç	9. VOA vials hav	e zero headspace?		Yes	N	lo 🗌	No VOA Vials 🗹	
1	(). Were any sar	nple containers received b	roken?	Yes [1	No 🗹	# of preserved	
1	1. Does paperwo (Note discrepa	ork match bottle labels? ancies on chain of custody)		Yes	/ N	lo 🗌	for pH: (<2 or >12 unless noted)	
1	2. Are matrices of	correctly identified on Chair	n of Custody?	Yes		lo 🗌	Adjusted?	
1	3. Is it clear what	t analyses were requested?	?	Yes		lo 🗌		
1	4. Were all holdin (If no, notify cu	ng times able to be met? ustomer for authorization.)		Yes		lo 🗆	Checked by: DAD $5/8//9$	
S	pecial Handl	ing (if applicable)						
1	5. Was client no	tified of all discrepancies w	vith this order?	Yes	1	No 🗌	NA 🗹	
	Person	Notified:	Date			an ann an Anna Anna Anna A		
	By Who	om:	Via:	eMai	Phone	☐ Fax	In Person	
	Regardi	ing:						
	Client Ir	nstructions:						
1	6. Additional rei	marks:						
1	7. <u>Cooler Infor</u> Cooler No 1	Temp °C Condition 2.3 Good	Seal Intact Seal No Yes	Seal Dat	e Signe	ed By		

	ANALYSIS LABORATORY	www.hallenvironmental.com	4901 Hawkins NE - Albuquerque, NM 87109	Tel. 505-345-3975 Fax 505-345-4107	Analysis Request	() () () ()	PO4, S PO4, S PO4, S	685 67 852(085 0852(085	(01 8/s 05 04) 304) 304) 304) 304)	(GF (GF)))))))))))))))))))	915D 921i0 921i0 983 97 Mé 97 0 90 90 90 90 10 90 10 90 10 90 10 90 10 90 10 90 10 90 10 90 10 90 90 90 90 90 90 90 90 90 90 90 90 90	TPH:80° 8081 Pe B081 Pe CDF (M RCRA 8 8270 (S Total Co (V S270 (S Total Co		Please that they potential analys						Matador & Bill directlyto	SWAR C	scibility. Any sub-contracted data will be clearly notated on the analytical report
Turn-Around Time:	Standard Rush 2 day	Project Name:	anie Connerts	Project #:		Project Manager:	Melodre Samjari	Sampler: NPS J	On Ice: 🖪 Yes 🖉 No	# of Coolers: 1	Cooler Temp(including CF): 2,3.6	Container Preservative HEAL No.	40	-002					(Received by: Via: Date Time Re	Received by Avan Date V Aime	1 2 2 CONVer 5 8/19 0 650
Chain-of-Custody Record	Client: SMA - Cansbad		Mailing Address:		Phone #:	email or Fax#:	QA/QC Package:	Accreditation: Accreditation: Accreditation		EDD (Type)		Date Time Matrix Sample Name	5/5/312:00 Sor BHZ	5/6/15 12:30 Smil BH4						Date: Time: Relinquished by: \$\lefty_k \lefty_2b N \$\lefty_k \lefty_k \lef	Date: Time: Relingutsted by:	1/2/20 SIN Hall Environmental may be evironmental may be evidence of the evide

APPENDIX E EXCAVATION PHOTO











APPENDIX F Background Soil Data Report in the Loving/Malaga Area of Eddy County, NM



October 17, 2018

NMOCD District 2 Ms. Maria Pruett 811 S. 1st Street Artesia, NM 88210

SUBJECT: Background Soil Data Report around Malaga/ Loving in Eddy County, New Mexico

Dear Ms. Maria Pruett:

Souder, Miller & Associates (SMA) has prepared this Report that describes soils types and background chloride concentrations around the Loving and Malaga Area in Eddy County, New Mexico. Figure 1 illustrates the vicinity and site locations described in this report.

1.0 Background

The soil types located under and around the Loving and Malaga, New Mexico area have a moderate to high electrical conductivity (EC) according to United States Department of Agriculture (USDA) and Natural Resource Conservation Service NRCS. "(EC) is the electrolytic conductivity of an extract from saturated soil paste, expressed as decisiemens per meter at 25 degrees C. Electrical conductivity is a measure of the concentration of water-soluble salts in soils. It is used to indicate saline soils. High concentrations of neutral salts, such as sodium chloride and sodium sulfate." (NRCS soil sampling guide) According to the Eddy County Soil Survey soils are moderately high in sodium chloride and sodium sulfate with baseline (EC) from 2-5 decisiemens per meter at 25 degrees C see NRCS Electrical Conductivity Map (Appendix B).

SMA and Matador have confirmed this moderately high (EC) effect from the area soil types in several baseline sampling events conducted on Matadors behalf prior to E&P operations (see appendix A). All attached third party lab results have been collected in the same area soil types that surround the irrigated river valley near the Loving and Malaga, New Mexico. The five representative baseline sample events where collected by SMA and are summarized in (Table # 1).

- Tom Walters baseline soil data shows pre-Matador oil and gas operation EPA 300 Cl- from 2300ppm-3900ppm
- Warren baseline soil data shows pre-Matador oil and gas operation EPA 300 Cl- from 170ppm- 2400ppm
- Guitar baseline soil data shows pre-Matador oil and gas operation EPA 300 Cl- from 2200ppm- 4000ppm
- B Banker baseline soil data shows pre-Matador oil and gas operation EPA 300 Cl- from 55ppm- 3500ppm
- Janie Conner Production Pad baseline soil data shows pre-Matador oil and gas operation EPA 300 CI- from 170ppm- 1800ppm

In addition, SMA and Matador have confirmed this moderately high (EC) effect from the area soil types in Background delineation from sampling events conducted on Matadors behalf by SMA for remedial purposes.

- Paul background soil data BG1, BG2, and BG3 shows non-disturbed by Matador oil and gas operations EPA 300 CI- from 43ppm-5300ppm
- Tiger background soil data BG1 shows non-disturbed by Matador oil and gas operations EPA 300 CI- from 24ppm-4800ppm
- Janie Connor #221 background soil data B65 shows non-disturbed by Matador oil and gas operations EPA 300 CI- from 79ppm-1200ppm

As outlined above, the high concentrations of neutral salts, such as sodium chloride and sodium sulfate should be found in the soil types; Gypsum Cottonwood, Karro Loam, Pima Silt, Regan and Reeves loams. Several samples were taken at one background location to a total depth of 10 feet and tested for sulfates. SMA has also included data from three other background locations in the same soil types as located at the Paul location. Sulfates can be used as a reference criterion on this release due to the natural parent material found in the area soil types and its low concentrations found in the produced water from the area wells, formations, and the Tiger Facility 2RF-106 (see attached data in appendix A). Four background sample locations (shown in Table #1) were used to establish the background level of sulfates in the area and serve as further proof of the NRCS, USDA and SMA baseline data. The samples were sent under chain-of-custody protocols to Hall Environmental Analysis Laboratory for analysis for sulfates (all lab reports are located in appendix A).

2.0 Soil Remediation Summary

This report has been created to show soil types and their water-soluble salts properties around Loving and Malaga, New Mexico. Soil data from online resources from United States Department of Agriculture, Natural Resource Conservation Service indicates certain soil types in the area have a moderate to high EC which indicates saline soils. Saline soils contain sodium chloride and sodium sulfate. SMA soil sampling prior to E&P operations and background samples during remediation activities were used to show laboratory data of these soils. It is shown from the laboratory that certain soil types have exhibited a higher chloride constitution.

3.0 Scope and Limitations

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

Site Assessment/Characterization and Closure Sampling Plan Report (2RP-3739) October 17, 2018 Page 3 of 3

Submitted by: SOUDER, MILLER & ASSOCIATES Reviewed by:

Lucas C. Middleton Staff Scientist Austin Weyant Senior Scientist

ATTACHMENTS:

Figures:

Figure 1: Sample Location Map

Tables:

Table 1: Summary of Sample Results

Appendices:

Appendix A: Laboratory Analytical Reports (BASELINE AND BACKGROUND) Appendix B: NRCS ELECTRICAL CONDUCTIVITY MAP Appendix C: NRCS Custom Soil Resource Report for Eddy Area, New Mexico

FIGURES



TABLES

Table	1
-------	---

					Nitrate	Sulfate	CI-
SITE	Sample Number	Sample Date	Depth (feet bgs)	Action	mg/L	mg/Kg	Laboratory mg/Kg
	P1	7/22/2016	0.5'	Baseline			170
JANIE CONNER #201,	P2	7/22/2016	0.5'	Baseline			1600
PRODUCTION	Р3	7/22/2016	0.5'	Baseline			1800
		9/18/2018	1'	BackGround			1100
		9/18/2018	2'	BackGround			1200
JANIE CONNER #221,	РСГ	9/18/2018	3'	BackGround			550
West of Location	805	9/18/2018	4'	BackGround			840
		9/18/2018	5'	BackGround			79
		9/18/2018	6'	BackGround			110
	L1	10/20/2016	0.5	Baseline			3200
	L2	10/20/2016	0.5	Baseline			3600
Tom Waltors	L3	10/20/2016	0.5	Baseline			3900
	L4	10/20/2016	0.5	Baseline			2300
	L5	10/20/2016	0.5	Baseline			3000
	L1	5/2/2017	0.5	Baseline			1100
	L2	5/2/2017	0.5	Baseline			120
Warren	L3	5/2/2017	0.5	Baseline			170
	L4	5/2/2017	0.5	Baseline			2400
	L1	1/9/2017	0.5	Baseline			4000
	L2	1/9/2017	0.5	Baseline			3500
Guitar	L3	1/9/2017	0.5	Baseline			2200
	L4	1/9/2017	0.5	Baseline			6300
	L5	1/9/2017	0.5	Baseline			3800
	BL1	5/3/2016	0.5	Baseline			<20
	BL2	5/3/2016	0.5	Baseline			120
B Banker	BL3	5/3/2016	0.5	Baseline			55
	BL4	5/3/2016	0.5	Baseline			3500
	BL5	5/3/2016	0.5	Baseline			<20
		6/7/2017	0.5	Background			43
		6/7/2017	1	Background			2600
	BGI	6/7/2017	2	Background			3000
Davi		6/7/2017	4	Background			5300
Paul		6/7/2017	0.5	Background			<30
	DC2	6/7/2017	1	Background			530
	BGZ	6/7/2017	2	Background			1500
		6/7/2017	4	Background			2600
		6/12/2017	0.5	Background	6.3	4800	24
		6/12/2017	1	Background	<1.5	7700	1000
		6/12/2017	2	Background	1.5	10000	3200
		6/12/2017	3	Background	1.6	7800	4800
Paul	BGC	6/12/2017	4	Background	<1.5	9500	4800
		6/12/2017	6	Background	<1.5	5300	3500
		6/12/2017	8	Background	1.6	8300	2400
		6/12/2017	10	Background	<1.5	7200	2700
		6/12/2017	12	Background	<1.5	7100	1300

"--" = Not Analyzed

APPENDIX A: LABORATORY ANALYTICAL REPORTS (BASELINE AND BACKGROUND)



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

September 28, 2018

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

OrderNo.: 1809C05

RE: Janie Connol B65

Dear Austin Weyant:

Hall Environmental Analysis Laboratory received 6 sample(s) on 9/20/2018 for the analyses presented in the following report.

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

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

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

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Analytical Report

Lab Order: 1809C05

Page 1 of 3

Hall Eliviron	mental Analysis Lat	boratory,	mc.			Ι	Date Reported:	9/28	8/2018	
CLIENT: S Project: J	Souder, Miller & Associates Janie Connol B65				I	.ab C)rder:	18090	205	
Lab ID:	1809C05-001		C	ollecti	on Date	: 9/1	18/2018 11:0	0:00 /	AM	
A nalvses	D0J-1	Recult	DOI	Qual	Unite	.: SC DF	JIL Date Analy	zed	Rat	tch ID
Analyses		Result	FQL	Quai	Units	DI	Date Analy	Zeu	Da	
EPA METHOD 30 Chloride	0.0: ANIONS	1100	30		mg/Kg	20	9/26/2018 5	Ana 13:32:	alyst: PM	smb 40598
Lab ID:	1809C05-002		C	ollecti	on Date	: 9/1	18/2018 11:1	0:00 /	AM	
Client Sample ID:	B65-2				Matrix	: SC	DIL			
Analyses		Result	PQL	Qual	Units	DF	Date Analy	zed	Bat	tch ID
EPA METHOD 30 Chloride	0.0: ANIONS	1300	75		mg/Kg	50	9/27/2018 1	Ana 0:23:02	alyst: 2 PM	smb 40598
Lab ID:	1809C05-003		C	ollecti	on Date	: 9/1	18/2018 11:2	0:00	AM	
Client Sample ID:	B65-3				Matrix	: SC	DIL			
Analyses		Result	PQL	Qual	Units	DF	Date Analy	zed	Bat	tch ID
EPA METHOD 30	0.0: ANIONS							Ana	alyst:	smb
Chloride		550	30		mg/Kg	20	9/26/2018 6	:03:10	PM	40598
Lab ID:	1809C05-004		C	ollecti	on Date	: 9/1	18/2018 11:3	0:00 /	AM	
Client Sample ID:	B65-4				Matrix	: SC	DIL			
Analyses		Result	PQL	Qual	Units	DF	Date Analy	zed	Bat	tch ID
EPA METHOD 30 Chloride	0.0: ANIONS	840	30		mg/Kg	20	9/26/2018 6	Ana 15:34:	alyst: PM	smb 40598
Lab ID:	1809C05-005		C	ollecti	on Date	: 9/1	18/2018 11:4	0:00	AM	
Client Sample ID:	B65-5				Matrix	: SC	DIL			
Analyses		Result	PQL	Qual	Units	DF	Date Analy	zed	Bat	tch ID
EPA METHOD 30	0.0: ANIONS							Ana	alyst:	smb
Chloride		79	30		mg/Kg	20	9/26/2018 6	:27:59	PM	40598

Hall Environmental Analysis Laboratory Inc

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

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

Analytical Report

Lab Order: 1809C05

Hall Envi	ronmental Analysis Lat	oratory,	Inc.			Ι	Date Reported: 9/	28/2018	
CLIENT: Project:	Souder, Miller & Associates Janie Connol B65				L	.ab C)rder: 180	9C05	
Lab ID: Client Sample	1809C05-006 e ID: B65-6		C	Collectio	on Date Matrix	: 9/1 : SC	8/2018 11:50:00 DIL) AM	
Analyses		Result	PQL	Qual	Units	DF	Date Analyzed	Bat	ch ID
EPA METHO Chloride	D 300.0: ANIONS	110	30		mg/Kg	20	A 9/26/2018 6:40:2	nalyst: 24 PM	smb 40598

Hall Environmental Analysis Laboratory, Inc.

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

Qualifiers:

*

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

Value exceeds Maximum Contaminant Level.

- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits Page 2 of 3
- Р Sample pH Not In Range
- RL Reporting Detection Limit

Client: Project:	Soude Janie (r, Miller & Associates Connol B65								
Sample ID	MB-40598	SampType: mbl	k	Test	tCode: EP	PA Method	300.0: Anion	s		
Client ID:	PBS	Batch ID: 4059	98	R	unNo: 54	1458				
Prep Date:	9/26/2018	Analysis Date: 9/2	6/2018	S	SeqNo: 18	805031	Units: mg/K	g		
Analyte		Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND 1.5								
Sample ID	LCS-40598	SampType: Ics		Test	tCode: EP	A Method	300.0: Anion	s		
Client ID:	LCSS	Batch ID: 4059	98	R	anNo: 54	1458				
Prep Date:	9/26/2018	Analysis Date: 9/2	6/2018	S	SeqNo: 18	805032	Units: mg/K	g		
Analyte		Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		14 1.5	15.00	0	94.8	90	110			

Qualifiers:

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

Page 3 of 3

HALL ENVIRONMENTAL ANALYSIS LABORATORY	Hall Environme TEL: 505-345-3 Website: ww	ntal Analysis Labor 4901 Hawkin Albuquerque, NM 8 8975 FAX: 505-345- w.hallenvironmenta	atory 18 NE 7105 San 4107 1.con	Sample Log-In Check List					
Client Name: SMA-CARLSBAD	Work Order Num	ber: 1809C05		RcptNo: 1					
Received By: Erin Melendrez	9/20/2018 8:50:00	АМ	MA	~					
Completed By: Ashley Gallegos	9/20/2018 12:42:23	8 PM	AJ						
Reviewed By: JAB 09/20/18	·	labe	led b	Y'ENH 9/20/19					
<u>Chain of Custody</u>		Von 🔽		Not Present					
2 How was the sample delivered?		Courier							
Log In 3. Was an attempt made to cool the samples?		Yes 🗹	No	na 🗋					
4. Were all samples received at a temperature of	f >0° C to 6.0°C	Yes 🗹 ,	No 🗍	NA 🗔					
5. Sample(s) in proper container(s)?		Yes 🗹	No 🗋						
6. Sufficient sample volume for indicated test(s)?)	Yes 🗹	No 🗌						
7. Are samples (except VOA and ONG) properly	preserved?	Yes 🗹	No 🗌						
8. Was preservative added to bottles?		Yes 🗌	No 🗹	NA 🗍					
9. VOA vials have zero headspace?		Ves	No 🗌	No VOA Vials 🗸					
10. Were any sample containers received broken	?	Yes	No 🗹 🛛						
11 Does panetwork match bottle labels?		Ves 🔽	No 🗌	# of preserved bottles checked for pH:					
(Note discrepancies on chain of custody)				Cor dr. 912 unless not					
12. Are matrices correctly identified on Chain of C	ustody?	Yes 🗹	No 🗌	Adjucted?					
13. Is it clear what analyses were requested?		Yes 🗹	No 🗌	()					
14. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes 🖌	No L	Checked by:					
Special Handling (if applicable)									
15. Was client notified of all discrepancies with the	is order?	Yes 🗋	No 🗖						
Person Notified:	Data	T							
By Whom:	Via). ⊡eMail ⊡ F	hone 🗌 Fax	in Person					
Regarding:	v 10.								
Client Instructions:									
16. Additional remarks:	<u></u>								
17 Cooler Information									
Cooler No Temp °C Condition Sea	al Intact Seal No	Seal Date	Signed By						
1 0.2 Good Yes									

-- -- --

Page 1 of 1

MENTAL)RATORY		37109	07			(N J(۵. ۱	Air Bubbles			· · ·								
IRON LABC	nental.com	erque, NM 8	505-345-41(Reduest		s,804	280)8 / . (A	'ON [.] (\ səpi	s081 Pestic 40V) 80828 9260B (VOV								<u></u>			
SIS	nvironn	VIbuque	Fax 5	(⊅	0S [,] \$00	1' ² 0	N' ^ɛ (ым s алол Дя) snoinA	\mathbf{k}	×	X	X	X	×.		_			
	w.hallei	NE - ⊿	975 Ans		(SM	IS 0.	728	10.()168) e'HAA											1
A N N	ww	vkins	-345-3	_		(1.81 1.81	99 P(EDB (Metho	1									 `	K K
		01 Hav	el. 505	(0	ЯМ / C	אם	/ 01	4อ)	1PH 8015B											2
		49(Te	۸)	385 OU) Ho	+ 11	- 38	BTEX + MTI										emark	7
				_	(1208)	- - - - - - - - - - - - - - - - - - -		- 38	BTEX + MT								-		<u>×</u>	22
S day		1000			Wen		⊡ No	-N9(rn=0.2	HEAL NO.	100-	, 183 1	-003	400-	2002	D00-				Pape Time	Date Time
Time:	(conve		der	A SH		X Yes	perature: [.]-	Preservative Type										4	COUL
Turn-Around		Jonie	Project #:	Project Mana		Samoler	On Ice:	Sample Tem	Container Type and #	202		/	/	/		<u>.</u>			Received by	Received by:
stody Record	لمطواسم				Lovel A /End Velidetion)				Sample Request ID	36 5-1	1365-Z	1365-3	N-599	065-5	B65-6				d by:	d by:
-of-Cu		s:					Other		Matrix	1 2001	-	-							 Relinquishe	Relinquisme
hain		Addres		+. · Fax#·	ackage	tation	٩P	(Type)	Time	11.'0	11:10	1120	1/36	(1 4 2	1,52				Time:	Time:
Client:		Mailing			QA/QC F	Accredit			Date	7-16-16	-			,					Date: 9-19-4	Date:

d yei mple ۲.



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

November 16, 2016

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

OrderNo.: 1611165

~

RE: Tom Waltors

Dear Austin Weyant:

Hall Environmental Analysis Laboratory received 5 sample(s) on 11/1/2016 for the analyses presented in the following report.

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

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

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

Sincerely,

andia

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

				Analytical Repo	rt					
nmental Analysi	s Laborat		Lab Order: 1611165 Date Reported: 11/16/2016							
Souder, Miller & Assoc Tom Waltors	ciates			Lab Order: 161	1165					
1611165-001 : L1			Collection M	Date: 10/20/2016 10:00: atrix: SOIL	00 AM					
	Result	PQL Qu	al Units	DF Date Analyzed	Batch ID					
0.0: ANIONS				A	nalyst: MRA					
	3200	150	mg/Kg	100 11/14/2016 1:24	:36 PM 28450					
1611165-002 : L2			Collection M	Date: 10/20/2016 10:00: atrix: SOIL	00 AM					
	Result	PQL Qu	al Units	DF Date Analyzed	Batch ID					
0.0: ANIONS				A	nalyst: MRA					
	3600	<mark>150</mark>	mg/Kg	100 11/14/2016 1:37	:01 PM 28450					

Hall Environmental A

CLIENT:

Project:

Lab ID:

Analyses

Chloride

Lab ID:

Client Sample ID: L1

Client Sample ID: L2

EPA METHOD 300.0: ANIONS

Analyses		Result	PQL Qua	al Units	DF Date Analyzed Batch ID
EPA METHOD 300	0.0: ANIONS				Analyst: MRA
Chloride		3600	150	mg/Kg	100 11/14/2016 1:37:01 PM 28450
Lab ID:	1611165-003			Collection Da	ate: 10/20/2016 10:00:00 AM
Client Sample ID:	L3			Mat	rix: SOIL
Analyses		Result	PQL Qua	al Units	DF Date Analyzed Batch ID
EPA METHOD 300	0.0: ANIONS				Analyst: MRA
Chloride		3900	150	mg/Kg	100 11/14/2016 1:49:25 PM 28450
Lab ID:	1611165-004			Collection Da	ate: 10/20/2016 10:00:00 AM
Client Sample ID:	L4			Mat	rix: SOIL
Analyses		Result	PQL Qua	al Units	DF Date Analyzed Batch ID
EPA METHOD 300	0.0: ANIONS				Analyst: MRA
Chloride		2300	150	mg/Kg	100 11/14/2016 2:01:50 PM 28450
Lab ID:	1611165-005			Collection Da	ate: 10/20/2016 10:00:00 AM
Client Sample ID:	L5			Mat	rix: SOIL
Analyses		Result	PQL Qua	al Units	DF Date Analyzed Batch ID
EPA METHOD 300	0.0: ANIONS				Analyst: MRA
Chloride		3000	150	ma/Ka	100 11/14/2016 2:14:14 PM 28450

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix D
- Н
- Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits Page 1 of 2
- Sample pH Not In Range Р
- Reporting Detection Limit RL
- Sample container temperature is out of limit as specified W
| Client:
Project: | Souder,
Tom W | , Miller & Associates
Valtors | | | |
|---------------------|------------------|----------------------------------|-----------------------------|---------------------|---------------|
| Sample ID | MB-28450 | SampType: mblk | TestCode: EPA Metho | d 300.0: Anions | |
| Client ID: | PBS | Batch ID: 28450 | RunNo: 38449 | | |
| Prep Date: | 11/3/2016 | Analysis Date: 11/3/2016 | SeqNo: 1200952 | Units: mg/Kg | |
| Analyte | | Result PQL SPK valu | e SPK Ref Val %REC LowLimit | HighLimit %RPD | RPDLimit Qual |
| Chloride | | ND 1.5 | | | |
| Sample ID | LCS-28450 | SampType: Ics | TestCode: EPA Metho | d 300.0: Anions | |
| Client ID: | LCSS | Batch ID: 28450 | RunNo: 38449 | | |
| Prep Date: | 11/3/2016 | Analysis Date: 11/3/2016 | SeqNo: 1200953 | Units: mg/Kg | |
| Analyte | | Result PQL SPK valu | e SPK Ref Val %REC LowLimit | HighLimit %RPD | RPDLimit Qual |
| Chloride | | 14 15 15(| 0 0 94.4 90 | 110 | |

Qualifiers:

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

Page 2 of 2



Sample Log-In Check List

Client Name: SMA-CA	RLSBAD	Work Order Number	: 161110	35			Rcpt	No: 1
Received by/date:	19	- 11/01/K	ſ		-A=>			
Logged By: Ashley	Gallegos	11/1/2016 10:00:00 AI	М		stil			
Completed By: Ashley	Gallegos	11/2/2016 9:49:24 PM	l		AJ			
Reviewed By: A	J	11/03/16						
Chain of Custody								
1. Custody seals intact of	on sample bottles?		Yes		No		Not Present	v
2. Is Chain of Custody c	omplete?		Yes	✓	No		Not Present	
3. How was the sample	delivered?		<u>Couri</u>	<u>er</u>				
<u>Log In</u>								
4. Was an attempt mad	e to cool the samples	?	Yes	~	No		NA	
5. Were all samples rec	eived at a temperatu	re of ≥0° C to 6.0°C	Yes	.✔	No		NA	
6. Sample(s) in proper	container(s)?		Yes		No			
7 Sufficient sample vol	ume for indicated test	:(s)?	Yes	✓	No			
8 Are samples (except	VOA and ONG) prop	erly preserved?	Yes	✓	No			
9. Was preservative ad	ded to bottles?		Yes		No	✓	NA	
10.VOA vials have zero	headspace?		Yes		No		No VOA Vials	✓
11. Were any sample co	ontainers received bro	ken?	Yes		No	✓,	# of preserved bottles checke	d
12.Does paperwork mai (Note discrepancies	tch bottle labels? on chain of custody)		Yes	~	No		for pH:	(<2 or >12 unless noted)
13 Are matrices correct	ly identified on Chain	of Custody?	Yes	✓	No		Adjusted	1?
14, is it clear what analy	ses were requested?		Yes	√ 1	No		Charlord	by
15. Were all holding time (If no, notify custome	es able to be met? er for authorization.)		Yes	V	No		Checked	Dy.
<u>Special Handling (i</u>	f applicable)							
16. Was client notified o	of all discrepancies wi	th this order?	Yes	ł	No		NA	. 🗸
Person Notifie	d:	Date	ľ			<u>neveles</u> iin		
By Whom:	l	Via:	eN	lail	Phone	Fax	In Person	
Regarding:	1			anaisiata	4 yaq aana araa ka sa ahaa ay ahaa ka sa	فماد بالديناني بوديد ورديد	a ta fallar ng an ini a dha i kiki dan ya an ari ini kachari, war ng	unun dia dia
Client Instruct	ions:							
17. Additional remarks								
18. <u>Cooler Informatio</u> Cooler No Te 1 4.1	<u>n</u> mp ⁰C Condition Good	Seal Intact Seal No Yes	Seal (Date	Signed	Ву		

Project Name Project Name aling Address: Tork // Aorthanger aling Address: Tork // Aorthanger for fauguencies: Aline // Eavel aling Address: Project Name for fauguencies: Aline // Eavel aling Address: Project Name for fauguencies: Project Name for fauguencies: Project Manager alin of Faugu Distribution Note: Distribution Sample: Low Mattito Note: Note: Distribution Note: Distribution Note: Distribution Sample: Low Markins Nic. Distribution Note: Distribution <	uder. Miller and Associates	D Standar	d 🗆 Rush				ANA	LYS	ISI	ABO	RATOR	12
Ialing Address: Ion L/n H/OLS Initia Address: Initia Address: Initia Address: Initia Address: Initia Address: Initia Project #: Initia Project #: Initia Project Manager Mail or Favet: Initia Project Manager Mail or Favet: Initia Project #: Mail or Favet: Initia Project Manager Mail or Favet: UNOC Mail or Favet: UNOC Mail or Favet: UNOC Initia Matrix Sampler: On lies: Nos Initia Matrix Sampler: Dories: Nos Initia Matrix Sampler: Dories: Initia Matrix Dories: Nos Initia Matrix Sampler: Initia Matrix Initia Matrix		Project Nan	11 1				H.WWW	allenvir	onmer	Ital.com		
Project #: Filesuenc Date #: 575-586-0351 India #: 575-586-0351 India #: 575-586-0351 India #: 575-586-0351 India of Fax#: 575-586-0351 Mucc Package: Investment Mucc Package: Investment <th>ess:</th> <th>- Jan</th> <th>Waltor</th> <th>S</th> <th>490</th> <th>WEH LO</th> <th>Sins NE</th> <th>- Albu</th> <th>Iduera</th> <th>ue, NM 8</th> <th>17109</th> <th></th>	ess:	- Jan	Waltor	S	490	WEH LO	Sins NE	- Albu	Iduera	ue, NM 8	17109	
Mono #: 575-089-5351 mail or Faxet: 575-089-5351 mail or Faxet: 575-089-5351 mail or Faxet: UX0C Poorage: WOCC Poorage: UX0C Poorage: WOCC Poorage: Dister Matrix Dister Time Matrix Sample: LCM No Dister Matrix Sample: Container Preservative HEAL No. LCM Matrix Sample: Container Preservative HEAL No. LCM Matrix Sample: Diste Type Matrix Sample: Matrix Sample: Diste Type Matrix Sample: Diste Type Matrix Sample: Matrix Sample: Diste Type Matrix Sample: Diste Type Matrix Sample: Matrix Sample: Diste Type Matrix Sample: Diste Type Matrix Dister Dister Distr Dister Distr </th <th>queno</th> <th>Project #:</th> <th></th> <th></th> <th>Te</th> <th>H. 505-3</th> <th>45-397</th> <th>5 F</th> <th>ax 505</th> <th>5-345-41</th> <th>20</th> <th>j.</th>	queno	Project #:			Te	H. 505-3	45-397	5 F	ax 505	5-345-41	20	j.
Mail Ordect Manager Markin Markin Modic Paokage: Modic Paokage: Modic Paokage: Modic Paokage: Modic Paokage: Level 4 (Full Validation) Modic Paokage: Condition Modic Paokage: Level 4 (Full Validation) Modic Paokage: Condition Modic Paokage: Level 4 (Full Validation) Modic Paokage: Modic Paokage: Modic Paokage: Modic Paokage: Modic Paokage: Level 4 (Full Validation) Concentration: Sampler Onlice: Modic Modic Paokage: Modic Modic Paokage: Modic Modic Paokage: Modic Modic Paokage: Modic Modic Parker Markin Sampler LOM Modic Parker Markin Sampler LOM Modic Parker Markin Sampler LOM Modic Markin Modic Markin Modic Markin Modic Markin Modic Modic Modic Modic Modic Modic Modic Modic Modic Modic	575-589-5351							Analys	sis Red	quest		
Mudic Peorkage: Austin Weyant correctidation: Container Date Time Matrix Container Containe	#. Incas middletom@souce	emile com Project Mar	tager		(12 (12	əsə	-		'S,P			
Contraction: Contraction: Contraction:	age:	Austin Wey	ant		seg) H (Cas	id/se9)			82 PCB	_		
Date Time Matrix Sample Request ID Container Type UNC Container Type Container Type Container Type Container C	20	Sampler	LCM		IMT IGT	(1.8	(1.4	(11)	08,	0		(N -
Date Time Matrix Sample Temperature: Matrix Sample Request ID Tontainer Preservative Time Matrix Sample Request ID Container Type and # Type Type HEAL No. Type and # Type No.02 Antrix Matrix Sample Request ID Container Preservative Type and # Type No.02 Antrix Matrix So.1 L Ao Matrix Bartex + MTBB Note Matrix L Ao CO Matrix L Ao Ao Matrix L Ao Ao <td>D Other</td> <td>On Ice:</td> <td>WYes.</td> <td>ON D</td> <td>+3</td> <td>1-08</td> <td>09</td> <td>S</td> <td>Se O</td> <td>AO</td> <td></td> <td>10 /</td>	D Other	On Ice:	WYes.	ON D	+3	1-08	09	S	Se O	AO		10 /
Date Time Matrix Sample Request ID Container Preservative Time Matrix Sample Request ID Container Type and # Type Type HEAL No. HEAL No. Type and # Type Container Preservative Type Top Container Preservative Type Top Container Preservative Type Container AOZ AOZ Type COC AOZ COC Type L COC COC Type L COC COC T L COC	oe)	Sample Ter	mperature:	7011H	181	3 bor bor	pou	etal		(AC		() se
2046 10:00 Soul L1 402 -001 1 100 1 1 22 1 200 1 2 2 0 1 2 00 1 2 0 1 2 0 1 2 0 1 2 0 1 2 0 1 2 0	ime Matrix Sample Re	equest ID Container Type and a	 Preservative Type 	HEAL NO.	BTEX + M	rtieM H9T Hem	tieM) 803	RCRA 8 M	(T) anoinA tee9 1808	0728 (VC		Air Bubble
1000 100 100 100 100 100 100 100	17 100 00%	405		-001	X	3			X			
1003 100 100	1 1 1 2			-002		1	-		X			
Transition of the second secon	1 1			-003		1			~			
	11.14			1200-		X			V			
	11 25	A		-005	*	-			×			
							1		+			
								-	+			
								-				
						-		_	-		_	
Date: Time Rotinguished by: Received by Auto 1/ 101/16 1000	ne. Rolinquished by:	Received by.	mul 1	V /or / 16 / Doo	Remark	2						
later Time Relinquished by: Received by: Date Time	ne Relinquished by:	Received by		Date Time								



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

June 16, 2017

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

OrderNo.: 1706268

RE: Warner

Dear Austin Weyant:

Hall Environmental Analysis Laboratory received 4 sample(s) on 6/6/2017 for the analyses presented in the following report.

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

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

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

Sincerely,

andis

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc. Date Reported: 6/16/2017 **CLIENT:** Souder, Miller & Associates Lab Order: 1706268 **Project:** Warner 1706268-001 Collection Date: 5/2/2017 11:00:00 AM Lab ID: Client Sample ID: L1 Matrix: SOIL Analyses Result **PQL** Qual Units **DF** Date Analyzed **Batch ID EPA METHOD 300.0: ANIONS** Analyst: MRA Chloride 1100 75 mg/Kg 6/12/2017 5:12:47 PM 32211 H 50 Lab ID: 1706268-002 Collection Date: 5/2/2017 11:00:00 AM Client Sample ID: L2 Matrix: SOIL Result **PQL** Qual Units **DF** Date Analyzed **Batch ID** Analyses **EPA METHOD 300.0: ANIONS** Analyst: LGT Chloride 120 30 н mg/Kg 20 6/10/2017 12:08:34 AM 32211 Lab ID: Collection Date: 5/2/2017 11:00:00 AM 1706268-003 Client Sample ID: L3 Matrix: SOIL Result PQL Qual Units **DF** Date Analyzed Analyses **Batch ID EPA METHOD 300.0: ANIONS** Analyst: LGT 170 20 6/10/2017 12:20:59 AM 32211 Chloride 30 Н mg/Kg Collection Date: 5/2/2017 11:00:00 AM Lab ID: 1706268-004 Client Sample ID: L4 Matrix: SOIL **PQL** Qual Units **DF** Date Analyzed Analyses Result **Batch ID EPA METHOD 300.0: ANIONS** Analyst: MRA Chloride 2400 6/12/2017 5:25:11 PM 32211 mg/Kg

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
- Holding times for preparation or analysis exceeded Н
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- RL Reporting Detection Limit

- В Analyte detected in the associated Method Blank
- Value above quantitation range Ε
- Analyte detected below quantitation limits J Page 1 of 2

Analytical Report Lab Order: 1706268

- Р Sample pH Not In Range
- R RPD outside accepted recovery limits
 - S % Recovery outside of range due to dilution or matrix

Client:	Souder, N	/liller & Assoc	ciates					
Project:	Warner							
Sample ID	MB-32211	SampType:	MBLK	TestC	ode: EPA Method	300.0: Anions		
Client ID:	PBS	Batch ID:	32211	Ru	nNo: 43415			
Prep Date:	6/9/2017	Analysis Date:	6/9/2017	Se	qNo: 1366812	Units: mg/Kg		
Analyte		Result PC	QL SPK value	SPK Ref Val	%REC LowLimit	HighLimit %RPD	RPDLimit	Qual
Chloride		ND	1.5					
Sample ID	LCS-32211	SampType:	LCS	TestC	ode: EPA Method	300.0: Anions		
Client ID:	LCSS	Batch ID:	32211	Ru	nNo: 43415			
Prep Date:	6/9/2017	Analysis Date:	6/9/2017	Se	qNo: 1366813	Units: mg/Kg		
Analyte		Result PC	QL SPK value	SPK Ref Val	%REC LowLimit	HighLimit %RPD	RPDLimit	Qual
Chloride		14	1.5 15.00	0	94.8 90	110		

Qualifiers:

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

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

R

S

- RPD outside accepted recovery limits
- % Recovery outside of range due to dilution or matrix

Page 2 of 2

HALL ENVIRONMENTAL ANALYSIS LABORATORY	Hall Environmental Albu TEL: 505-345-3975 Website: www.hau	Analysis Laboratory 4901 Hawkins NE querque, NM 87109 FAX: 505-345-4107 llenvironmental.com	Samp	ole Log-In Check List
Client Name: SMA-CARLSBAD	Work Order Number:	1706268		RcptNo: 1
Received By: Richie Eriacho	6/6/2017 10:15:00 AM	,	12	
Completed By: Richie Friacho	6/6/2017 2:19:36 PM	,	12 1	·····
Reviewed By: SPC 06/06/	[7]	1		••
<u>Chain of Custody</u>				
1. Custody seals intact on sample bottles?		Yes	No 🗌	Not Present 🔽
2. Is Chain of Custody complete?		Yes 🔽	No 🗌	Not Present
3. How was the sample delivered?		Courier		
Log In				
4. Was an attempt made to cool the samples?		Yes 🔽	No 🗌	
5. Were all samples received at a temperature	of >0° C to 6.0°C	Yes 🗹	No 🗆	
6. Sample(s) in proper container(s)?		Yes 🗹	No 🗌	
7. Sufficient sample volume for indicated test(s)?	Yes 🔽	No 🗌	
8. Are samples (except VOA and ONG) proper	ly preserved?	Yes 🗹	No 🗌	
9. Was preservative added to bottles?		Yes 🗌	No 🗹	NA 🗌
10.VOA vials have zero headspace?		Yes 🗌	No 🗌	No VOA Vials 🗹
11. Were any sample containers received broke	n?	Yes	No 🗹 🗍	# of preserved bottles checked
12.Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes 🗹	No 🗌	for pH: (<2 or >12 unless noted)
13. Are matrices correctly identified on Chain of	Custody?	Yes 🔽	No 🗌	Adjusted?
14. Is it clear what analyses were requested?		Yes 🗹	No 🗌	
15. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes 🗹	No 🛄	Checked by:
Special Handling (if applicable)				
16. Was client notified of all discrepancies with	his order?	Yes 🗌	No 🗌	NA 🔽
Person Notified:	Date:			
By Whom:	via:	🔲 eMail 📃 Pho	one 🗌 Fax	In Person
Regarding:				**************************************
Client Instructions:				
17. Additional remarks:				
18. <u>Cooler Information</u> Cooler No Temp ^o C Condition Si 1 2.6 Good	eal Intact Seal No	Seal Date S	igned By	

Clant				
SMA Can	Spad	Standard Ri	hsh	ANALYSIS LADOATS
		Project Name:		
Mailing Address;		Warner		WWW.nallenvironmental.com
		Project #:		Tol For SAF SATE FILL FOR SAF SATE
Phone #:		qu		rei. 200-040-38/0 Fax 200-345-410/ Analysis Reduest
email or Fax#;		Project Manager:		(h) (k)
OA/OC Package:	Level 4 (Full Validation)	Austin We	yant	PCB's PCB's as/Dies s'BJ
Accreditation:		Sampler: LCVV		10021 10021 10021 10021 10021
D EDD (Type)		Samola Tamparahira	ON D	+ 3 9015 9038 18 18 18 18 18 18 18 18 18 18 18 18 18
Date Time Matrix	Sample Request ID	Container Preservat Type and # Type	INE HEAL NO.	ATEX + MTB TEX + XITB TPH Method TPH Method TPH (Method S310 (PMA or S310 (PMA or S
5/2/17 11 am Soil	()	402	100-	3
5/2/17 11 am 8071	12	402	202	3
5/2/17 11 am Soil	13	402	-003	3
5/2/17 11 am 807	14	402	-064	7
Date: Time: Relinquishe	day Men	Receivedov	Latt Time	Remarks:
S/17 190 All	of by	Racefived by:	Date Time 6/6/17 1015	



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

January 24, 2017

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

OrderNo.: 1701762

Dear Austin Weyant:

RE: Guitas #221

Hall Environmental Analysis Laboratory received 5 sample(s) on 1/18/2017 for the analyses presented in the following report.

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

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

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

Sincerely,

and

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Hall Enviro	nmental Analys	sis Laborat	ory, Inc.		Date Reported: 1/2	24/2017
CLIENT: Project:	Souder, Miller & Ass Guitas #221	ociates			Lab Order: 170	1762
Lab ID: Client Sample ID	1701762-001 : L1			Collection D Ma	Pate: 1/9/2017 7:00:00 A trix: SOIL	М
Analyses		Result	PQL Qua	l Units	DF Date Analyzed	Batch ID
EPA METHOD 30	00.0: ANIONS	4000	150	mg/Kg	A 100 1/23/2017 1:29:2	nalyst: LGT <mark>3 PM</mark> 29816
Lab ID: Client Sample ID	1701762-002 L2			Collection D Ma	Pate: 1/9/2017 7:00:00 A trix: SOIL	М
Analyses		Result	PQL Qua	l Units	DF Date Analyzed	Batch ID
EPA METHOD 30	00.0: ANIONS	3500	150	mg/Kg	A 100 1/23/2017 1:41:4	nalyst: LGT 8 PM 29816
Lab ID: Client Sample ID	1701762-003			Collection D	Date: 1/9/2017 7:00:00 A	М
Analyses	. L3	Result	PQL Qua	l Units	DF Date Analyzed	Batch ID
EPA METHOD 3	00.0: ANIONS	2200	150	mg/Kg	A 100 1/23/2017 2:19:0	nalyst: LGT 2 PM 29816
Lab ID:	1701762-004			Collection D	ate: 1/9/2017 7:00:00 A	М
Client Sample ID): L4			Ma	trix: SOIL	
Analyses		Result	PQL Qua	l Units	DF Date Analyzed	Batch ID
EPA METHOD 3	00.0: ANIONS				A	nalyst: LGT
Chloride		6300	300	mg/Kg	200 1/23/2017 2:31:2	29816
Lab ID:	1701762-005			Collection E	ate: 1/9/2017 7:00:00 A	М
Client Sample ID	: L5			Ma	trix: SOIL	
Analyses		Result	PQL Qua	l Units	DF Date Analyzed	Batch ID
EPA METHOD 30	00.0: ANIONS	3800	150	mg/Kg	A 100 1/23/2017 2:43:5	nalyst: LGT

Hall Environmental Analysis Laboratory. Inc.

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
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank В
- Value above quantitation range Е
- J Analyte detected below quantitation limits Page 1 of 2

Analytical Report Lab Order: 1701762

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

Client: Project:	Souder, 1 Guitas #2	Miller & Assoc 221	iates							
Sample ID	MB-29816	SampType:	MBLK	Test	tCode: EPA Method	l 300.0: Anion	s			
Client ID:	PBS	Batch ID:	29816	R	RunNo: 40191					
Prep Date:	1/20/2017	Analysis Date:	1/20/2017	S	eqNo: 1260055	Units: mg/k	٤g			
Analyte		Result PC	L SPK value	SPK Ref Val	%REC LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Chloride		ND	1.5							
Sample ID	LCS-29816	SampType:	LCS	Test	tCode: EPA Method	l 300.0: Anion	S			
Client ID:	LCSS	Batch ID:	29816	R	RunNo: 40191					
Prep Date:	1/20/2017	Analysis Date:	1/20/2017	S	eqNo: 1260056	Units: mg/k	ζg			
Analyte		Result PC	L SPK value	SPK Ref Val	%REC LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Chloride		14	1.5 15.00	0	93.8 90	110				

- * 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
- R RPD outside accepted recovery limits
- 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 2 of 2

HALL ENVIRONMENTAL ANALYSIS LABORATORY	Hall Environment Ai TEL: 505-345-39: Website: www.	al Analysis Labora, 4901 Hawkins Ibuquergue, NM 87 75 FAX: 505-345-4 hallenvironmental.	lory NE 109 Sam 107 com	ple Log-In Check List	
Client Name: SMA-CARLSBAD	Work Order Numbe	er: 1701762		RcptNo: 1	
Received by/date:	01/18/7	· · · · · · · · · · · · · · · · · · ·	·····		
Logged By: Ashley Gallegos	1/18/2017 9:30:00 A	м	AJ		
Completed By: Ashley Gallegos	1/18/2017 12:28:42	PM	AJ		
Reviewed By:	01/18/17		U		
Chain of Custody		· · · · · · · · · · · · · · · · · · ·]
1. Custody seals intact on sample bottles?		Yes	No 🗔	Not Present	
2. Is Chain of Custody complete?		Yes 🖌	No	Not Present	
3. How was the sample delivered?		<u>Courier</u>			
Loa In					
4. Was an attempt made to cool the sample	es?	Yes 🖌	No	NA []	
5. Were all samples received at a temperat	ure of >0° C to 6.0°C	Yes 🔽	No	NA []	
6. Sample(s) in proper container(s)?		Yes 🗹	No 🗌		
7. Sufficient sample volume for indicated te	st(s)?	Yes 🖌	No []]		
8. Are samples (except VOA and ONG) pro	perly preserved?	Yes 🗹	No		
9. Was preservative added to bottles?		Yes	No 🔽	NA	
10.VOA vials have zero headspace?		Yes	No	No VOA Vials 🗹	
11. Were any sample containers received br	oken?	Yes 🗀	No 🗹	# of preserved	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes 🔽	No 🗔	for pH: (<2 or >12 unless not	ted)
13. Are matrices correctly identified on Chain	of Custody?	Yes 🔽	No 🗔	Adjusted?	
14. Is it clear what analyses were requested?	-	Yes 🖌	No []]		
15. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes 🗹	No	Checked by:	

Special Handling (if applicable)

16.1	Was client not	ified of all di	screpancies v	with this order?	?	Yes 🗌	No [.]	NA 🖌
	Person N	Notified:			Date	Г		
	By Whor	n:			Via:	[_] eMail [Phone E Fax	In Person
	Regardir	ng:						
	Client In:	structions:		-				
17.	Additional rem	arks:						
18.	Cooler Inform	nation						
	Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By	1
	1	2.0	Good	Yes			······································	

 2.0	Good	Yes	
		to be a set of the set	

INTAL	ATORY		•					(N J	o Y)	Air Bubbles												
Ľ	N OR	E	A 87109	4107				(\	/0/·	·ime2) 0728												-
õ	A	tal.co	le, NN	-345	luest				(\	40V) 80828												
E E	S S	nemr	nerqu	505	s Rec	s	2 PCB	808 /	səp J	8081 Pestic							 	_		 		
Ž	ĨŠ	nviror	Jpudr	Fax	alysis	(^v O	S' [®] Od''	'ON'	ON (sigi	өм 8 аяля ЭЭ) enoinA	×	\times	$\boldsymbol{\mathbf{Y}}$	Z	<u>ند</u>		 		-			
ᆋ	Ę	halleı	< -	75	An		(SMIS	0728	3 10 (0168) a'HA9							 					
Ā	Z	www.	ns NE	5-397				(1.4	09 P	EDB (Metho												
Ţ		-	lawki)5-34				(1.8	l4 b	TPH (Metho									_			
		i. Paš	901 H	el. 5((0Y	<u>ко / М</u>	a / 0	ชอ)	88108 H9T	-						 			 	ks:	
	翼		49				200) 81 0 88Ð)		3E +						<u> </u>					 	emar	
					·		.208) s.	awt I	1 = 1 	NTEX + MTR		-		<u> </u>	<u> </u>		 				<u>к</u>	
	sh		122#				wegat		3.0-1.005	ive <u> </u>	100-	600-	, 183	100-	58-						/ 1/18/17 OG3 4	Date Time
Time:			r ital			ager:	stu	J-1	M 1es Oberature:	Preservat t Type											m	
Turn-Around	d Standard	Project Nam	Cr	Project #:		Project Man	An	Sampler:	Sample Ten	Container Type and #	nor	,			-						Received by:	Received by:
stody Record	Carbbad						I Level 4 (Full Validation)			Sample Request ID	17	27	1_3	1 4	57							d by:
of-Cus	-42									Matrix	50,1										Relinquishe	Relinquishe
hain-	Į Vį		Address:		1 1	· Fax#:	backage: dard	tation	TVna)	Time	Co.C	2 				,					Time:	Time:
S	Client:		Mailing		Phone #	email of	QA/QC F	Accredi		Date	1-5-16		-	5	≯	\downarrow				ľ	Date:	Date:



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

May 12, 2016

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

RE: B Banker

OrderNo.: 1605079

Dear Austin Weyant:

Hall Environmental Analysis Laboratory received 5 sample(s) on 5/3/2016 for the analyses presented in the following report.

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

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

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

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Project: B Banker

Date Reported: 5/12/2016
Client Sample ID: BL-1

Collection Date: 4/29/2016 12:00:00 PM

Lab ID: 1605079-001	Matrix: S	Received I	Received Date: 5/3/2016 9:40:00 AM				
Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch	
EPA METHOD 300.0: ANIONS					Analys	t: LGT	
Chloride	ND	30	mg/Kg	20	5/9/2016 1:49:28 PM	25197	
EPA METHOD 8015M/D: DIESEL RAM	NGE ORGANICS	;			Analys	t: KJH	
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	5/6/2016 6:49:57 PM	25139	
Surr: DNOP	21.1	70-130	S %Rec	1	5/6/2016 6:49:57 PM	25139	
EPA METHOD 8015D: GASOLINE RA	NGE				Analys	t: NSB	
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/4/2016 12:04:04 PM	25130	
Surr: BFB	95.0	80-120	%Rec	1	5/4/2016 12:04:04 PM	25130	
EPA METHOD 8021B: VOLATILES					Analys	t: NSB	
Methyl tert-butyl ether (MTBE)	ND	0.099	mg/Kg	1	5/4/2016 12:04:04 PM	25130	
Benzene	ND	0.025	mg/Kg	1	5/4/2016 12:04:04 PM	25130	
Toluene	ND	0.049	mg/Kg	1	5/4/2016 12:04:04 PM	25130	
Ethylbenzene	ND	0.049	mg/Kg	1	5/4/2016 12:04:04 PM	25130	
Xylenes, Total	ND	0.099	mg/Kg	1	5/4/2016 12:04:04 PM	25130	
Surr: 4-Bromofluorobenzene	95.7	80-120	%Rec	1	5/4/2016 12:04:04 PM	25130	

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

Qualifiers: * Value exceeds Maximum Contaminant Level. B Analyte

- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- 3 Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 1 of 10
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 5/12/2016

CLIENT: Souder, Miller & Associates Project: B Banker	Client Sample ID: BL-2 Collection Date: 4/29/2016 12:00:00 PM										
Lab ID: 1605079-002	Matrix:	SOIL	Receive	Received Date: 5/3/2016 9:40:00 AM							
Analyses	Result	PQL Q	ual Units	DF	Date Analyzed	Batch					
EPA METHOD 300.0: ANIONS					Analys	st: LGT					
Chloride	120	30	mg/Kg	20	5/9/2016 2:26:42 PM	25197					
EPA METHOD 8015M/D: DIESEL RANG		6			Analys	st: KJH					
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	5/6/2016 7:11:48 PM	25139					
Surr: DNOP	14.6	70-130	S %Rec	1	5/6/2016 7:11:48 PM	25139					
EPA METHOD 8015D: GASOLINE RAN	GE				Analys	st: NSB					
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	5/4/2016 10:50:01 PM	25130					
Surr: BFB	95.7	80-120	%Rec	1	5/4/2016 10:50:01 PM	25130					
EPA METHOD 8021B: VOLATILES					Analys	st: NSB					
Methyl tert-butyl ether (MTBE)	ND	0.096	mg/Kg	1	5/4/2016 10:50:01 PM	25130					
Benzene	ND	0.024	mg/Kg	1	5/4/2016 10:50:01 PM	25130					
Toluene	ND	0.048	mg/Kg	1	5/4/2016 10:50:01 PM	25130					
Ethylbenzene	ND	0.048	mg/Kg	1	5/4/2016 10:50:01 PM	25130					
Xylenes, Total	ND	0.096	mg/Kg	1	5/4/2016 10:50:01 PM	25130					
Surr: 4-Bromofluorobenzene	96.5	80-120	%Rec	1	5/4/2016 10:50:01 PM	25130					

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.
	D	$0 \rightarrow 0$

- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 2 of 10
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

5/4/2016 11:13:30 PM

1

25130

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 5/12/2016

CLIENT: Souder, Miller & Associates Client Sample ID: BL-3 **Project:** B Banker Collection Date: 4/29/2016 12:00:00 PM Lab ID: 1605079-003 Matrix: SOIL Received Date: 5/3/2016 9:40:00 AM Analyses Result **PQL** Qual Units **DF** Date Analyzed Batch **EPA METHOD 300.0: ANIONS** Analyst: LGT 5/9/2016 2:39:06 PM Chloride 55 30 mg/Kg 25197 20 EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: KJH **Diesel Range Organics (DRO)** ND mg/Kg 5/6/2016 7:33:46 PM 9.8 1 25139 Surr: DNOP 9.41 70-130 S %Rec 1 5/6/2016 7:33:46 PM 25139 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 4.7 mg/Kg 1 5/4/2016 11:13:30 PM 25130 Surr: BFB 97.1 80-120 %Rec 1 5/4/2016 11:13:30 PM 25130 **EPA METHOD 8021B: VOLATILES** Analyst: NSB Methyl tert-butyl ether (MTBE) ND 5/4/2016 11:13:30 PM 0.093 mg/Kg 1 25130 Benzene ND 0.023 mg/Kg 1 5/4/2016 11:13:30 PM 25130 Toluene ND mg/Kg 5/4/2016 11:13:30 PM 0.047 1 25130 Ethylbenzene ND 0.047 mg/Kg 5/4/2016 11:13:30 PM 25130 1 Xylenes, Total ND 0.093 mg/Kg 1 5/4/2016 11:13:30 PM 25130

80-120

%Rec

98.6

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

Surr: 4-Bromofluorobenzene

- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank В
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 3 of 10 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 5/12/2016

Hall Environmental Analysis Laboratory, Inc.		
	 ~	

CLIENT: Souder, Miller & Associates **Client Sample ID:** BL-4 **Project:** B Banker Collection Date: 4/29/2016 12:00:00 PM Lab ID: 1605079-004 Matrix: SOIL Received Date: 5/3/2016 9:40:00 AM Analyses Result **PQL** Qual Units **DF** Date Analyzed Batch **EPA METHOD 300.0: ANIONS** Analyst: LGT 100 5/11/2016 3:17:06 AM 25197 Chloride 3500 150 mg/Kg EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: KJH **Diesel Range Organics (DRO)** ND 5/6/2016 7:55:39 PM 25139 9.6 mg/Kg 1 Surr: DNOP 9.15 70-130 S %Rec 1 5/6/2016 7:55:39 PM 25139 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 4.8 mg/Kg 1 5/5/2016 12:47:24 AM 25130 Surr: BFB 94.2 80-120 %Rec 1 5/5/2016 12:47:24 AM 25130 **EPA METHOD 8021B: VOLATILES** Analyst: NSB Methyl tert-butyl ether (MTBE) ND 0.095 mg/Kg 1 5/5/2016 12:47:24 AM 25130 Benzene ND 0.024 mg/Kg 1 5/5/2016 12:47:24 AM 25130 Toluene ND 0.048 mg/Kg 5/5/2016 12:47:24 AM 1 25130 Ethylbenzene ND 0.048 mg/Kg 5/5/2016 12:47:24 AM 25130 1 Xylenes, Total ND 0.095 mg/Kg 1 5/5/2016 12:47:24 AM 25130 Surr: 4-Bromofluorobenzene 95.3 80-120 %Rec 5/5/2016 12:47:24 AM 25130 1

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

•	J 1	1	0	00	•	1

- * 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
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 4 of 10
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 5/12/2016

CLIENT: Souder, Miller & Associates		Client Sample ID: BL-5										
Project: B Banker			Collection I	Date: 4/2	9/2016 12:00:00 PM							
Lab ID: 1605079-005	Matrix:	SOIL	Received I	Received Date: 5/3/2016 9:40:00 AM								
Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch						
EPA METHOD 300.0: ANIONS					Analys	: LGT						
Chloride	ND	30	mg/Kg	20	5/9/2016 3:03:54 PM	25197						
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS	;			Analys	: KJH						
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	5/6/2016 8:17:38 PM	25139						
Surr: DNOP	8.53	70-130	S %Rec	1	5/6/2016 8:17:38 PM	25139						
EPA METHOD 8015D: GASOLINE RAI	NGE				Analys	: NSB						
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	5/5/2016 1:10:55 AM	25130						
Surr: BFB	95.3	80-120	%Rec	1	5/5/2016 1:10:55 AM	25130						
EPA METHOD 8021B: VOLATILES					Analys	: NSB						
Methyl tert-butyl ether (MTBE)	ND	0.092	mg/Kg	1	5/5/2016 1:10:55 AM	25130						
Benzene	ND	0.023	mg/Kg	1	5/5/2016 1:10:55 AM	25130						
Toluene	ND	0.046	mg/Kg	1	5/5/2016 1:10:55 AM	25130						
Ethylbenzene	ND	0.046	mg/Kg	1	5/5/2016 1:10:55 AM	25130						
Xylenes, Total	ND	0.092	mg/Kg	1	5/5/2016 1:10:55 AM	25130						
Surr: 4-Bromofluorobenzene	96.3	80-120	%Rec	1	5/5/2016 1:10:55 AM	25130						

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

		•	J 1	1 8			1	
Qualifiers:	*	Value exe	ceeds Maximum Co	ntaminant Level.	В	Analyte de	tected in the associ	ated Me

- * Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix D
- Н
- Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 5 of 10 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Client:	Souder, Miller & Associates										
Project:	ВВ	anker									
Sample ID	MB-25197	SampT	ype: ME	BLK	PA Method	300.0: Anion	s				
Client ID:	PBS	Batch	Batch ID: 25197 RunNo: 34101								
Prep Date:	5/6/2016	Analysis D	ate: 5/	9/2016	S	GeqNo: 10	51147	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND	1.5								
Sample ID	LCS-25197	SampT	ype: LC	S	Tes	tCode: EP	A Method	300.0: Anion	s		
Client ID:	LCSS	Batch	ID: 25	197	F	RunNo: 34	101				
Prep Date:	5/6/2016	Analysis D	ate: 5/	9/2016	5	SeqNo: 10	51148	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		14	1.5	15.00	0	92.4	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
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Page 6 of 10

Client:	Souder, N	filler & Ass	sociate	es							
Project:	B Banker										
Sample ID	MB-25139	SampTy	pe: M	BLK	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID:	PBS	Batch	ID: 25	139	F	RunNo: 3	4001				
Prep Date:	5/4/2016	Analysis Da	te: 5/	/5/2016	S	SeqNo: 1	047876	Units: mg/k	٨g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range	Organics (DRO)	ND	10								
Surr: DNOP	1	7.4		10.00		74.0	70	130			
Sample ID	1605058-001AMS	SampTy	pe: M \$	S	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID:	BatchQC	Batch	ID: 25	139	F	RunNo: 3	4001				
Prep Date:	5/4/2016	Analysis Da	te: 5/	/5/2016	S	SeqNo: 1	048316	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range	Organics (DRO)	49	10	50.05	0	97.0	33.9	141			
Surr: DNOP		4.1		5.005		81.4	70	130			
Surr: DNOP	1605058-001AMSE	4.1 D SampTy	pe: M \$	5.005 SD	Tes	81.4 tCode: El	70 PA Method	130 8015M/D: Di	esel Rang	e Organics	
Surr: DNOP Sample ID Client ID:	1605058-001AMSE BatchQC	4.1 SampTy Batch	pe: M \$ ID: 25	5.005 SD 139	Tes	81.4 tCode: El RunNo: 3	70 PA Method 4001	130 8015M/D: Di	esel Rang	e Organics	
Surr: DNOP Sample ID Client ID: Prep Date:	1605058-001AMSE BatchQC 5/4/2016	4.1 D SampTy Batch Analysis Da	pe: M \$ ID: 25 te: 5 /	5.005 SD 139 /5/2016	Tes F S	81.4 tCode: El RunNo: 3 SeqNo: 1	70 PA Method 4001 048317	130 8015M/D: Di Units: mg/F	esel Rango (g	e Organics	
Surr: DNOP Sample ID Client ID: Prep Date: Analyte	1605058-001AMSE BatchQC 5/4/2016	4.1 SampTy Batch Analysis Da Result	pe: M ID: 25 te: 5 / PQL	5.005 SD 139 /5/2016 SPK value	Tes F S SPK Ref Val	81.4 tCode: El RunNo: 3 : SeqNo: 1 : %REC	70 PA Method 4001 048317 LowLimit	130 8015M/D: Di Units: mg/F HighLimit	esel Rango (g %RPD	e Organics RPDLimit	Qual
Surr: DNOP Sample ID Client ID: Prep Date: Analyte Diesel Range (1605058-001AMSE BatchQC 5/4/2016 Organics (DRO)	4.1 D SampTy Batch Analysis Da Result 49	pe: M ID: 25 te: 5 PQL 10	5.005 SD 139 /5/2016 SPK value 50.20	Tes F S SPK Ref Val 0	81.4 tCode: El RunNo: 3 SeqNo: 1 <u>%REC</u> 96.7	70 PA Method 4001 048317 LowLimit 33.9	130 8015M/D: Di Units: mg/F HighLimit 141	esel Rango Kg %RPD 0.0323	e Organics RPDLimit 20	Qual
Surr: DNOP Sample ID Client ID: Prep Date: Analyte Diesel Range (Surr: DNOP	1605058-001AMSE BatchQC 5/4/2016 Organics (DRO)	4.1 SampTy Batch Analysis Da Result 49 4.0	pe: M\$ ID: 25 Ite: 5 / PQL 10	5.005 SD 139 /5/2016 SPK value 50.20 5.020	Tes F S SPK Ref Val 0	81.4 tCode: El RunNo: 3 SeqNo: 10 %REC 96.7 79.7	70 PA Method 4001 048317 LowLimit 33.9 70	130 8015M/D: Di Units: mg/H HighLimit 141 130	esel Rang (g 0.0323 0	e Organics RPDLimit 20 0	Qual
Surr: DNOP Sample ID Client ID: Prep Date: Analyte Diesel Range (Surr: DNOP Sample ID	1605058-001AMSE BatchQC 5/4/2016 Organics (DRO)	4.1 SampTy Batch Analysis Da Result 49 4.0 SampTy	pe: M ID: 25 te: 5 / PQL 10 pe: LC	5.005 5D 139 /5/2016 SPK value 50.20 5.020 SS	Tes F SPK Ref Val 0 Tes	81.4 tCode: El RunNo: 3 SeqNo: 10 %REC 96.7 79.7 tCode: El	70 PA Method 4001 048317 LowLimit 33.9 70 PA Method	130 8015M/D: Di Units: mg/F HighLimit 141 130 8015M/D: Di	esel Rang (g 0.0323 0 esel Rang	e Organics RPDLimit 20 0 e Organics	Qual
Surr: DNOP Sample ID Client ID: Prep Date: Analyte Diesel Range (Surr: DNOP Sample ID Client ID:	1605058-001AMSE BatchQC 5/4/2016 Organics (DRO) LCS-25139 LCSS	4.1 SampTy Batch Analysis Da Result 49 4.0 SampTy Batch	pe: M ID: 25 te: 5 PQL 10 pe: LC ID: 25	5.005 5D 139 /5/2016 SPK value 50.20 5.020 5.020 CS 139	Tes F SPK Ref Val 0 Tes F	81.4 tCode: El &unNo: 3 SeqNo: 10 %REC 96.7 79.7 tCode: El &unNo: 3	70 PA Method 4001 048317 LowLimit 33.9 70 PA Method 4001	130 8015M/D: Di Units: mg/k HighLimit 141 130 8015M/D: Di	esel Rang Kg 0.0323 0 esel Rang	e Organics RPDLimit 20 0 e Organics	Qual
Surr: DNOP Sample ID Client ID: Prep Date: Analyte Diesel Range (Surr: DNOP Sample ID Client ID: Prep Date:	1605058-001AMSE BatchQC 5/4/2016 Organics (DRO) LCS-25139 LCSS 5/4/2016	4.1 SampTy Batch Analysis Da Result 49 4.0 SampTy Batch Analysis Da	pe: M ID: 25 te: 5 / 10 pe: LC ID: 25 te: 5 /	5.005 5D 139 /5/2016 SPK value 50.20 5.020 CS 139 /5/2016	Tes SPK Ref Val 0 Tes F	81.4 tCode: El RunNo: 3 SeqNo: 10 %REC 96.7 79.7 tCode: El RunNo: 3 SeqNo: 10	70 PA Method 4001 048317 LowLimit 33.9 70 PA Method 4001 048346	130 8015M/D: Di Units: mg/H HighLimit 141 130 8015M/D: Di Units: mg/H	esel Rang (g %RPD 0.0323 0 esel Rang	e Organics RPDLimit 20 0 e Organics	Qual
Surr: DNOP Sample ID Client ID: Prep Date: Analyte Diesel Range (Surr: DNOP Sample ID Client ID: Prep Date: Analyte	1605058-001AMSE BatchQC 5/4/2016 Organics (DRO) LCS-25139 LCSS 5/4/2016	4.1 SampTy Batch Analysis Da Result 49 4.0 SampTy Batch Analysis Da Result	pe: M ID: 25 te: 5 / PQL 10 pe: LC ID: 25 te: 5 / PQL	5.005 5D 139 /5/2016 SPK value 50.20 5.020 5.020 CS 139 /5/2016 SPK value	Tes F SPK Ref Val 0 Tes F SPK Ref Val	81.4 tCode: El RunNo: 3 SeqNo: 10 %REC 96.7 79.7 tCode: El RunNo: 3 SeqNo: 10 %REC	70 PA Method 4001 048317 LowLimit 33.9 70 PA Method 4001 048346 LowLimit	130 8015M/D: Di Units: mg/F HighLimit 141 130 8015M/D: Di Units: mg/F HighLimit	esel Rang (g 0.0323 0 esel Rang (g %RPD	e Organics RPDLimit 20 0 e Organics RPDLimit	Qual
Surr: DNOP Sample ID Client ID: Prep Date: Analyte Diesel Range (Surr: DNOP Sample ID Client ID: Prep Date: Analyte Diesel Range (1605058-001AMSE BatchQC 5/4/2016 Organics (DRO) LCS-25139 LCSS 5/4/2016 Organics (DRO)	4.1 SampTy Batch Analysis Da Result 49 4.0 SampTy Batch Analysis Da Result 46	pe: M ID: 25 ID: 25 PQL 10 PQL ID: 25 ID: 25 ID: 5/ PQL 10	5.005 5D 139 /5/2016 SPK value 50.20 5.020 5.020 CS 139 /5/2016 SPK value 50.00	Tes F SPK Ref Val 0 Tes F SPK Ref Val 0	81.4 tCode: El RunNo: 3 SeqNo: 10 %REC 96.7 79.7 tCode: El RunNo: 3 SeqNo: 10 %REC 92.4	70 PA Method 4001 048317 LowLimit 33.9 70 PA Method 4001 048346 LowLimit 65.8	130 8015M/D: Di Units: mg/P HighLimit 141 130 8015M/D: Di Units: mg/P HighLimit 136	esel Rang (g 0.0323 0 esel Rang (g %RPD	e Organics RPDLimit 20 0 e Organics 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
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Page 7 of 10

Client: Project:	Souder, M B Banker	Ailler & As	sociate	es							
Sample ID	MB-25130	SampTy	pe: MI	BLK	Tes	tCode: E	PA Method	8015D: Gaso	line Rang	e	
Client ID:	PBS	Batch	ID: 25	130	F	RunNo: 3	3977				
Prep Date:	5/3/2016	Analysis Da	ate: 5/	/4/2016	S	SeqNo: 1	047281	Units: mg/k	٤g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Ranç	ge Organics (GRO)	ND	5.0								
Surr: BFB		910		1000		91.4	80	120			
Sample ID	LCS-25130	SampTy	pe: LC	S	Tes	tCode: E	PA Method	8015D: Gaso	line Rang	e	
Client ID:	LCSS	Batch	ID: 25	130	F	RunNo: 3	3977				
Prep Date:	5/3/2016	Analysis Da	ate: 5/	/4/2016	S	SeqNo: 1	047282	Units: mg/k	٤g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	ge Organics (GRO)	22	5.0	25.00	0	86.8	80	120			
Surr: BFB		970		1000		97.2	80	120			
Sample ID	1605079-001AMS	SampTy	pe: M	S	Tes	tCode: E	PA Method	8015D: Gaso	line Rang	e	
Client ID:	BL-1	Batch	ID: 25	130	F	RunNo: 3	3977				
Prep Date:	5/3/2016	Analysis Da	ate: 5/	/4/2016	Ş	SeqNo: 1	047284	Units: mg/	ίg		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	ge Organics (GRO)	26	5.0	24.98	0	102	59.3	143			
Surr: BFB		1000		999.0		101	80	120			
Sample ID	1605079-001AMSI	D SampTy	pe: M	SD	Tes	tCode: E	PA Method	8015D: Gaso	line Rang	е	
Client ID:	BL-1	Batch	ID: 25	130	F	RunNo: 3	3977				
Prep Date:	5/3/2016	Analysis Da	ate: 5/	/4/2016	S	SeqNo: 1	047285	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	ge Organics (GRO)	27	5.0	24.78	0	107	59.3	143	4.02	20	
Surr: BFB		1000		991.1		103	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
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Page 8 of 10

Client:	Souder, N	Miller & A	ssociate	es									
Project:	B Banker	r											
Sample ID	MB-25130	SampT	Гуре: МЕ	BLK	TestCode: EPA Method 8021B: Volatiles								
Client ID:	PBS	Batcl	h ID: 25	130	RunNo: 33977								
Prep Date:	5/3/2016	Analysis D	Date: 5/	4/2016	S	SeqNo: 1	047315	Units: mg/k	٢g				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Methyl tert-buty	/I ether (MTBE)	ND	0.10										
Benzene		ND	0.025										
Toluene		ND	0.050										
Ethylbenzene		ND	0.050										
Xylenes, Total		ND	0.10										
Surr: 4-Brom	nofluorobenzene	0.93		1.000		92.9	80	120					
Sample ID	LCS-25130	SampT	Гуре: LC	s	Tes	tCode: El	PA Method	8021B: Vola	tiles				
Client ID:	LCSS	Batcl	h ID: 25	130	F	RunNo: 3	3977						
Prep Date:	5/3/2016	Analysis E	Date: 5/	4/2016	S	SeqNo: 1	047316	Units: mg/H	٢g				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Methyl tert-buty	/I ether (MTBE)	0.95	0.10	1.000	0	95.3	61	143					
Benzene		1.0	0.025	1.000	0	100	75.3	123					
Toluene		0.93	0.050	1.000	0	93.3	80	124					
Ethylbenzene		0.88	0.050	1.000	0	88.0	82.8	121					
Xylenes, Total		2.6	0.10	3.000	0	87.2	83.9	122					
Surr: 4-Brom	nofluorobenzene	0.93		1.000		93.4	80	120					
Sample ID	1605082-001AMS	SampT	Гуре: М\$	6	Tes	tCode: El	PA Method	8021B: Vola	tiles				
Client ID:	BatchQC	Batcl	h ID: 25	130	F	RunNo: 3	3977						
Prep Date:	5/3/2016	Analysis D	Date: 5/	4/2016	5	SeqNo: 1	047319	Units: mg/k	٢g				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Methyl tert-buty	/I ether (MTBE)	0.98	0.098	0.9775	0	99.8	69.2	128					
Benzene		1.1	0.024	0.9775	0	108	/1.5	122					
Toluene		0.99	0.049	0.9775	0	101	/1.2	123					
Ethylbenzene		0.95	0.049	0.9775	0	96.8	75.2	130					
Surr: 4-Brom	nofluorobenzene	2.8 0.94	0.096	2.933 0.9775	0	96.4 96.4	72.4 80	131					
Sample ID	4005000 004 4 400	D Comol			Too	tCada, FI		0004D- Volo	4100				
Client ID:	BatchOC	D Sampi Batel	h ID 25	130	res		PA Wethou 3077		liles				
Prep Date:	5/3/2016	Analysis D	Date: 5/	4/2016	e e e e e e e e e e e e e e e e e e e	SeaNo: 1	047320	Units: ma/k	(a				
Analyte	0.01_010	Result	POI	SPK value	SPK Ref Val	%REC	Lowl imit	Highl imit	%RPD	RPDI imit	Qual		
Methyl tert-buty	l ether (MTBF)	0.89	0.099	0.9901	0	90.3	69.2	128	8.72	20			
Benzene	,	0.98	0.025	0.9901	ů 0	99.2	71.5	122	7.34	20			
Toluene		0.96	0.050	0.9901	ů 0	96.7	71.2	123	2.87	20			
Ethylbenzene		0.95	0.050	0.9901	ů 0	96.0	75.2	130	0.454	20			
		5.00			~	20.0							

Qualifiers:

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

Е Value above quantitation range

J Analyte detected below quantitation limits

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

Page 9 of 10

WO#: 1605079 Souder, Miller & Associates

Project:	B Banker										
Sample ID	1605082-001AMSD	SampTyp	e: M	SD	Test	Code: E	PA Method	8021B: Volat	iles		
Client ID:	BatchQC	Batch II): 25	130	R	unNo: 3	3977				
Prep Date:	5/3/2016	Analysis Date	e: 5/	/4/2016	S	eqNo: 1	047320	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Xylenes, Total		2.8 (.099	2.970	0	95.3	72.4	131	0.0491	20	
Surr: 4-Brom	nofluorobenzene	1.0		0.9901		101	80	120	0	0	

Qualifiers:

Client:

- * 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
- R RPD outside accepted recovery limits
- 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 10 of 10

ANALYSIS LABORATORY	Albi TEL: 505-345-3975 Website: www.ha	Analysis Laboral 4901 Hawkins iquerque, NM 87. FAX: 305-345-4 flenvironmental.c	NE 109 Sam 107 07	ple Log-In Cł	neck List
Client Name: SMA-CARLSBAD	Work Order Number	1605079		ReptNo	1
Received by/date:	05/03/12				
cgged By Lindsay Mangin	5/3/2016 9:40:00 AM		Jytha		
Completed By: Lindsay, Mangin	5/3/2016 1:33:11 PM		Althon		
Reviewed By	050311	1	Der		
Chain of Custody	- 1-21cc	~1			
1. Custody seals intact on sample bottles?		Yes	No 🗔	Not Present 🔽	
2 Is Chain of Custody complete?		Yes 🖌	No 🗌	Not Present	
3 How was the sample delivered?		Couner			
<u>_oa In</u>					
4 Was an attempt made to cool the samples?	- 1. P	Yes 🕅	No	NA 🗌	
Were all samples received at a temperature	of >0° C to 6.0°C	Yes 🔽	No 🗌	NA 🗆	
6. Sample(s) in proper container(s)?		Yes 🗹	No 🗔		
7. Sufficient sample volume for indicated test(s	i)?	Yes V	Na		
8. Are samples (except VOA and ONG) proper	ly preserved?	Yes 🔽	No 🗌		
9. Was preservative added to bottles?		Yes 🗌	No 🔽	NA 🗆	
10. VOA vials have zero headspace?		Yes 🗆	No 🗔	No VOA Vials 🔽	
1, Ware any sample containers received broke	:0?	Yes	No 🗸	the forestand	
			- EL-	bottles checked	
(Note discrepancies on chain of custody)		Yes (Y)	No	(<2 or	>12 unless noted)
3 Are matrices correctly identified on Chain of	Custody?	Yes 🗸	No 🗌	Adjusted?	
4, Is it clear what analyses were requested?		Yes 🗹	No 🗌		
 Were all holding times able to be met? (If no, notify customer for authorization.) 		Yes 🖌	No.	Checked by	
necial Handling (if applicable)					
6. Was client notified of all discrepancies with	his order?	Yes	No 🗌	NA M	
Person Natified:	Date				
By Whom:	Via	eMail P	hone 🗌 Fax	In Person	
Regarding.					
Client Instructions:					
17 Additional remarks:					
8. Cooler Information Cooler No Temp °C Condition Se	al Intact Seal No S	Seal Date	Signed By		
1 2.8 Good Yes					

Client-	Iam		Istony record						HAI	Ĩ	N	IRG	NME	INTAL	
Augur.		AWS		D Standard	C Rush		6		AN	LY.	SIS	P	BOR	ATORY	
				Project Name			1	í.	WWW	haller.	vironn	iental.	mos		
Mailing	Address	on a	0	15 J	SANTIN AND	T	49(01 Hav	kins N	E - A	pndne	rque, 1	JM 87105		
į,	4 HALLA	RUUE	OZ	Project #.			Te	H. 505-	345-39	75	Fax 5	05-34	5-4107		10
Phone #	**	545	689 7070							Ana	lysis F	sedne:	1		
email or	Fax#			Project Manag	er		(Aju ()	(əs		-	(°C	5.2			
QAYOC F	backage: dard		Level 4 (Full Validation)	M A	EVENJ		1208) 2 10 260)	aid\se			s.,oq	bCB,a			
Accredit	tation:			Sampler:	LUN		Hd. 8W.	D) 8	(1:	()	ZON	2808			(N
D NEL	AP	D Other		On Ice:	g Yes	O No	L+ L+	510	Þ09	I∀c	⁴ CO ³⁺	1/5	(AG		OL I
EDD	(Type)			Sample Temp	erature: 2.(20	18E 18E	8 pc	po	1 TO	N.C	ebia (A	DV-1		٨) :
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL NO.	rm + Xəta Im + Xəta	TPH Metho	EDB (Weth	AN9) 0168 M 8 A929)) (enoinA	ov) 8081 Pesti ov) 80828	wəS) 0728		Air Bubbles
+ 129	1/30	ash	BL-1	Hot		-100-	X	X			×	-			
474	12:30		34-2		l. A	-002		1				-			
W X	12:00		522			-003				-	-				
414	11:00		BL-4			100-					1/				
479	hoist	X	BL-5			-002	>	\$			P	-			T
															TT
															IT
															T
Date	au	Relinquish	:va be	Received by:	at 03	103/16 0940	Remarks	24							-
Date:	Time:	Relinquishe	:, ta pe	Received by:		Date Time *									
-	necessary.	aampica subr	mitted to Hall Environmental may be subc	omracted to other acc	redited laboratorie	s. This serves as notice of this	s possibility.	Any sub-c	ontracted	data will	be clearly	notated o	in the analytic	tal report.	



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

June 26, 2017

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

OrderNo.: 1706671

RE: Paul 2nd

Dear Austin Weyant:

Hall Environmental Analysis Laboratory received 10 sample(s) on 6/13/2017 for the analyses presented in the following report.

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

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

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

Sincerely,

and

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Analytical Report

Lab Order: 1706671

Hall Enviro	nmental Analys	is Laborat	ory, Inc.		Date Reported: 6/2	6/2017
CLIENT: Project:	Souder, Miller & Asso Paul 2nd	ciates			Lab Order: 1706	671
Lab ID:	1706671-001			Collection D	ate: 6/7/2017 12:00:00 F	PM
Client Sample ID	: BG1-5			Mat	rix: SOIL	
Analyses		Result	PQL Qual	Units	DF Date Analyzed	Batch ID
EPA METHOD 30	00.0: ANIONS				Ar	alyst: MRA
Chloride		43	30	mg/Kg	20 6/21/2017 11:21:2	24 AM 32409
Lab ID:	1706671-002			Collection D	ate: 6/7/2017 12:00:00 F	РМ
Client Sample ID	: BG1-1			Mat	rix: SOIL	
Analyses		Result	PQL Qual	Units	DF Date Analyzed	Batch ID
EPA METHOD 30 Chloride	00.0: ANIONS	2600	75	mg/Kg	Ar 50 6/22/2017 6:35:28	alyst: MRA 3 PM 32409
Lab ID:	1706671-003			Collection D	ate: 6/7/2017 12:00:00 F	PM
Client Sample ID	: BG1-2			Mat	rix: SOIL	
Analyses		Result	PQL Qual	Units	DF Date Analyzed	Batch ID
EPA METHOD 30	00.0: ANIONS				Ar	alyst: MRA
Chloride		3000	150	mg/Kg	100 6/22/2017 6:47:52	2 PM 32409
Lab ID:	1706671-004			Collection D	ate: 6/7/2017 12:00:00 F	PM
Client Sample ID	: BG1-4			Mat	rix: SOIL	
Analyses		Result	PQL Qual	Units	DF Date Analyzed	Batch ID
EPA METHOD 30	00.0: ANIONS				Ar	alyst: MRA
Chloride		5300	300	mg/Kg	200 6/22/2017 7:00:17	7 PM 32409
Lab ID:	1706671-005			Collection D	ate: 6/7/2017 11:00:00 A	АM
Client Sample ID	: BG2-5			Mat	rix: SOIL	
Analyses		Result	PQL Qual	Units	DF Date Analyzed	Batch ID
EPA METHOD 30	00.0: ANIONS				Ar	alyst: MRA
Chloride		ND	30	mg/Kg	20 6/21/2017 1:00:40) PM 32409

...

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

- Qualifiers:
- * Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S
- Analyte detected in the associated Method Blank В
- Value above quantitation range Е
- J Analyte detected below quantitation limits Page 1 of 3
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Analytical Report

Lab Order: 1706671

Hall Enviro	nmental Analys	is Laborat	ory, Inc.		Date Reported: 6/2	6/2017
CLIENT: Project:	Souder, Miller & Asso Paul 2nd	ociates			Lab Order: 1706	5671
Lab ID: Client Sample ID	1706671-006 : BG2-1			Collection D Mat	ate: 6/7/2017 11:00:00 /	AM
Analyses		Result	PQL Qual	Units	DF Date Analyzed	Batch ID
EPA METHOD 30 Chloride	00.0: ANIONS	530	30	mg/Kg	Ai 20 6/21/2017 1:13:0:	nalyst: MRA 5 PM 32409
Lab ID: Client Sample ID	1706671-007 : BG2-2			Collection D Mat	ate: 6/7/2017 11:00:00 /	AM
Analyses		Result	PQL Qual	Units	DF Date Analyzed	Batch ID
EPA METHOD 30 Chloride	00.0: ANIONS	1500	75	mg/Kg	Ai 50 6/22/2017 7:12:4	nalyst: MRA 2 PM 32409
Lab ID: Client Sample ID	1706671-008 : BG2-4			Collection D Mat	ate: 6/7/2017 11:00:00 /	AM
Analyses		Result	PQL Qual	Units	DF Date Analyzed	Batch ID
EPA METHOD 30 Chloride	00.0: ANIONS	2600	150	mg/Kg	Ai 100 6/22/2017 7:25:0	nalyst: MRA 7 PM 32409
Lab ID: Client Sample ID	1706671-009 : A1-2			Collection D Mat	ate: 6/7/2017 1:00:00 Pl trix: SOIL	M
Analyses		Result	PQL Qual	Units	DF Date Analyzed	Batch ID
EPA METHOD 30 Chloride	00.0: ANIONS	650	30	mg/Kg	Ai 20 6/21/2017 1:50:1	nalyst: MRA 3 PM 32409
Lab ID: Client Sample ID	1706671-010 : A2-3			Collection D Mat	ate: 6/7/2017 2:00:00 Pl trix: SOIL	M
Analyses		Result	PQL Qual	Units	DF Date Analyzed	Batch ID
EPA METHOD 30 Chloride	00.0: ANIONS	1600	75	mg/Kg	Aı 50 6/22/2017 7:37:33	nalyst: MRA 2 PM 32409

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
- % Recovery outside of range due to dilution or matrix S
- Analyte detected in the associated Method Blank В
- Value above quantitation range Е
- J Analyte detected below quantitation limits Page 2 of 3
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Client: Project:	Souder Paul 2r	, Miller & Associate	es						
Sample ID Client ID:	MB-32409 PBS	SampType: ml Batch ID: 32	blk 409	Tes	tCode: EPA Met	thod 300.0: Anior	IS		
Prep Date:	6/21/2017	Analysis Date: 6/	21/2017	S	SeqNo: 1377078	B Units: mg/l	٢g		
Analyte		Result PQL	SPK value	SPK Ref Val	%REC LowL	imit HighLimit	%RPD	RPDLimit	Qual
Chloride		ND 1.5							
Sample ID	LCS-32409	SampType: Ics	6	Tes	tCode: EPA Met	thod 300.0: Anior	IS		
Client ID:	LCSS	Batch ID: 32	409	R	RunNo: 43687				
Prep Date:	6/21/2017	Analysis Date: 6/	21/2017	S	SeqNo: 1377079	Units: mg/l	٢g		
Analyte		Result PQL	SPK value	SPK Ref Val	%REC LowL	imit HighLimit	%RPD	RPDLimit	Qual
Chloride		14 1.5	15.00	0	92.7	90 110			

Qualifiers:

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

Page 3 of 3

	CONMENTAL YSIS RATORY	Hall Environmental Alb. TEL: 505-345-3975 Website: www.ha	Analysis Labora 4901 Hawkins uquerque, NM 87 FAX: 505-345-4 illenvironmental.	tory NE 109 Sam 107 com	ple Log-In Ch	eck List
Client Name:	SMA-CARLSBAD	Work Order Number	: 1706671		RcptNo: 1	
Received By:	Richie Eriacho	6/13/2017 9:45:00 AM		$r^2 <$		
Completed By:	Ashley Gallegos	6/13/2017 12:50:23 PI	M	AZ		
Reviewed By:	ENM	06/13/17		V		
<u>Chain of Cus</u>	<u>tody</u>					
1. Custody sea	Is intact on sample bottles?		Yes 🗌	No 🗌	Not Present 🗹	
2. Is Chain of C	Custody complete?		Yes 🔽	No 🗌	Not Present 🗌	
3. How was the	a sample delivered?		Courier			
<u>Log In</u>						
4. Was an atte	mpt made to cool the sample	es?	Yes 🗹	No 🗌	NA 🗆	
5. Were all san	nples received at a temperat	ure of >0° C to 6.0°C	Yes 🗹	No 🗌	NA 🗀	
6. Sample(s) ir	n proper container(s)?		Yes 🔽	No 🗌		
7. Sufficient sa	mple volume for indicated te	st(s)?	Yes 🗹	No 🗌		
8. Are samples	(except VOA and ONG) pro-	perly preserved?	Yes 🔽	No 🗌		
9. Was preserv	ative added to bottles?		Yes 🗌	No 🗹	NA 🗌	
10.VOA vials ha	ive zero headspace?		Yes 🗌	No 🗀	No VOA Vials 🔽	
11, Were any sa	ample containers received br	oken?	Yes	No 🗹	# of preserved	····
12. Does paperw	ork match bottle labels?		Yes 🗹	No 🗔	for pH:	
(Note discrep	pancies on chain of custody)				(<2 or >	12 unless noted)
13. Are matrices	correctly identified on Chain	of Custody?	Yes 🗹	No 🗌 🧯	Adjusted?	
14. Is it clear what	at analyses were requested?		Yes 🗹	No		
15. Were all hold (If no, notify o	ling times able to be met? customer for authorization.)		Yes ⊻	No 🗔	Checked by:	·
<u>Special H</u> andi	ling (if applicable)					
16. Was client no	otified of all discrepancies wi	th this order?	Yes	No 🗆	NA 🗹	
Person	Notified:	Date		an de la companya de		
By Who	om:	Via: [🗌 eMail 🔲 P	hone 🗌 Fax	In Person	
Regard	ling:			******		
Client	nstructions:	*****	79. 1. i.e. Mel er mere minnen av senerer			
17. Additional re	marks:				· · · ···-	
18. <u>Cooler Infor</u> Cooler No	r <u>mation</u> ⊳	Seal Intact Seal No	Seal Date	Signed By		
1	1.3 Good	/es				

_

Client Mail Factor Client Mail Client <	-	Chain	-of-C	ustody Record	Turn-Around	ime:			-		1				1
Mailing Address: Policy Lynne; Mailing	Client:	N.S.	t		A Standard	C Rush		H		NAL I	N SI		0	INENT	P'S
Mailing Address: Poull 2 м4 Air Bubbles (Y or N) Phone II: Proget K: Proget K: Proget K: Proget K: Phone II: Proget K: Proget K: Proget K: Proget K: Proget K: Phone II: Proget K: Proget K: Proget K: Proget K: Proget K: Phone II: Proget K: Proget K: Proget K: Proget K: Proget K: ONCL Proget K: Data K: Proget K: Proget K: Proget K: Proget K: ONCL Proget K: Data K: Proget K: Proget K: Proget K: Proget K: ONCL Proget K: Data K: Proget K: Proget K: Proget K: Proget K: ONELPP Data K: Proget K: Proget K: Proget K: Proget K: Data K: Data K: Proget K: Proget K: Proget K: Proget K: Data K: Data K: Data K: Proget K: Proget K: Proget K: Data K: Data K: Data K: Proget K: Proco P					Project Name			II.		in the second	lanvin la			ORAIO	LY.
Propert: Propert: Propert: Tel: 60:30:3015 Tel: 60:305:3015 Tel: 60:3015	Mailing	g Addres	:s		Paul	249		4901	Hawki	IS NE	- Albuq	nerque	e. NM	87109	
Prone #: Aut Standard Aut Standard Prone #: Prone #: Prone #: Prone #: Prone #: Prone #: Prone #: Data Data Data Data Data Data Prone #: Data Data <td< th=""><th></th><th></th><th></th><th></th><th>Project #:</th><th></th><th></th><th>Tel</th><th>505-34</th><th>5-3975</th><th>Fax</th><th>505-</th><th>345-4</th><th>107</th><th></th></td<>					Project #:			Tel	505-34	5-3975	Fax	505-	345-4	107	
Errell of Fack: Project Marager: 0ACC Priceoge Aux Shrhn WE UAN 0ACC Priceoge Aux Shrhn WE UAN Accreatization Aux Shrhn WE UAN Accreatization Sampler L. L.M. IME UAN Accreatization Sampler L. L.M. IME UAN Accreatization Sampler L. L.M. IME S Accreatization Sampler Frequest ID Accreatization Date Time Marcreatization Accreatization Date Accreatization Sampler Frequest ID Accreatization Date Accreatization Sampler Frequest ID Accreatization Container Accreatization Date Accreatization Container	Phone	#									Analysi	s Reg	uest		
Over Passage Over Passage	email c	or Fax#:			Project Manag	jer.		(4)	(0)		("C	16			2
Accreeduation Sampler L(M, M/ES) Sampler L(M, M/ES) ID NELAP	OA/OC	Package. ndard		Level 4 (Full Validation)	Austri	n Wey	ant	10 862) (Gas or	W/O	(SMI	DSO9	PCB's	-		
Clippeding Clipped	Accred	ditation LAP	D Oth	er	Sampler LC On Ice:	M MP	S INO	HQT -	(1.8 10/0	S 0228	CON.C	7808 /		()	(N -
Date Time Matrix Sample Request ID Container Preservative It Eat. No. 12/0 12/0 12/0 12/0 17/0	DED	(Type)			Sample Temp	erature: 1.3		98 98	15 P) OL	SIGI	sep	()	100	о "()
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 17000071	BTEX + MTI BTEX + MTI	aeros Har oniem) Har	onteM) 803 DfE8) 2'HA9	ем в Аяся DII) snoinA	X Pestici	AOV) 80828	-IW85) D/70	səlddu8 1iA
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	-	12:108	in	BGI-S	402.		100-	1111			×		-		
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	-	-	-	B61-1	4		-003				×				
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	-		-	641-2			-003				X				
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		->		1361-4			100-				×		-		
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$		1) aum		R62-S			-005				×		-		
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	-	-		662-1			-000				×				
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	-	_	-	862-2			L00-				×				
I pw AI - 2 -009 × 2 pw V A 2 - 3 V V Pate: Time: Reinfulstredby N × Pate: Time: Reinfulstredby × N Date: Time: Reinfulstredby × N Date: Time: Reinfulstredby × ×	+	>	-	692-4	->		-008				×				
Image Relinful structury A Z - 3 L - DIO X X Date Time Relinful structury Received by Date Time Remarks: Date Time: Relinful structury MM A/2 / 1 / 1 / 2 / 2 Date: Time: Relinquished by Date Time	-	1 pm		A1-2	1		-009				*		1		
Date Time Relinfulshedby Date Time Remarks: I 24/7 1 400 1000 11 1 400 Date Time: Relinquished by Received by Date Time Remarks: Date Time: Relinquished by Date Time Date Time Date Time	+	Zow	>	A2-3	Ŷ		010-				×				
Date: Time: Relinquished by Bate Time Date Date Date Date Date Date Date Dat	Date:	Time }02	Reinfaulish	addry Martin	Received by		Date Time	Remarks:	_						
	Date:	Time:	Relinquist	of the second	Received by:		ol(3)17 0945								



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

June 30, 2017

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

OrderNo.: 1706A44

RE: Matador Paul 2nd

Dear Austin Weyant:

Hall Environmental Analysis Laboratory received 21 sample(s) on 6/20/2017 for the analyses presented in the following report.

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

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

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

Sincerely,

and

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Analytical Report Lab Order 1706A44 Date Reported: 6/30/2017

CLIENT: Souder, Miller & Associates			Client Samp	le ID: SW2	
Project: Matador Paul 2nd			Collection 1	Date: 6/12/2017 10:30:00 AM	
Lab ID: 1706A44-001	Matrix:	SOIL	Received	Date: 6/20/2017 10:15:00 AM	
Analyses	Result	PQL Qu	al Units	DF Date Analyzed Bat	tch
EPA METHOD 300.0: ANIONS				Analyst: MR	RA
Chloride	5500	300	mg/Kg	200 6/27/2017 4:36:37 AM 324	485
Nitrogen, Nitrate (As N)	8.4	6.0	mg/Kg	20 6/26/2017 1:05:47 PM 324	485
Sulfate	6400	300	mg/Kg	200 6/27/2017 4:36:37 AM 324	485

Hall Environmental Analysis Laboratory, Inc.

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

- * Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix D
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 1 of 23 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Analytical Report Lab Order 1706A44 Date Reported: 6/30/2017

CLIENT: Souder, Miller & Associates			Client Samp	le ID: SW	/4	
Project: Matador Paul 2nd			Collection 1	Date: 6/1	2/2017 10:30:00 AM	
Lab ID: 1706A44-002	Matrix:	SOIL	Received	Date: 6/2	0/2017 10:15:00 AM	
Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: MRA
Chloride	120	30	mg/Kg	20	6/26/2017 2:20:15 PM	32485
Nitrogen, Nitrate (As N)	1.9	0.30	mg/Kg	1	6/26/2017 1:43:01 PM	32485
Sulfate	5800	75	mg/Kg	50	6/27/2017 4:49:02 AM	32485

Hall Environmental Analysis Laboratory, Inc.

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

- * Value exceeds Maximum Contaminant Level.D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 2 of 23
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Analytical Report Lab Order 1706A44 Date Reported: 6/30/2017

CLIENT: Souder, Miller & Associates			Client Sampl	le ID: SW5
Project: Matador Paul 2nd			Collection 1	Date: 6/12/2017 10:30:00 AM
Lab ID: 1706A44-003	Matrix: S	SOIL	Received 1	Date: 6/20/2017 10:15:00 AM
Analyses	Result	PQL Qua	l Units	DF Date Analyzed Batch
EPA METHOD 300.0: ANIONS				Analyst: MRA
Chloride	1000	30	mg/Kg	20 6/26/2017 2:45:04 PM 32485
Nitrogen, Nitrate (As N)	2.3	1.5	mg/Kg	5 6/26/2017 2:32:40 PM 32485
Sulfate	5400	75	mg/Kg	50 6/27/2017 5:01:27 AM 32485

Hall Environmental Analysis Laboratory, Inc.

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

- * Value exceeds Maximum Contaminant Level.D Sample Diluted Due to Matrix
- 5 Sample Difuted Due to Wattix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 3 of 23
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified
| CLIENT: Souder, Miller & Associates | | | Client Sampl | e ID: SV | /6 | | | |
|--|--|--------|--------------|----------|----------------------|---------|--|--|
| Project: Matador Paul 2nd | Collection Date: 6/12/2017 10:30:00 AM | | | | | | | |
| Lab ID: 1706A44-004 | Matrix: SOIL Received Date: 6/20/2017 10:15:00 | | | | 0/2017 10:15:00 AM | ĺ | | |
| Analyses | Result | PQL Qu | al Units | DF | Date Analyzed | Batch | | |
| EPA METHOD 300.0: ANIONS | | | | | Analys | st: MRA | | |
| Chloride | 19 | 7.5 | mg/Kg | 5 | 6/26/2017 2:57:28 PM | 32485 | | |
| Nitrogen, Nitrate (As N) | ND | 1.5 | mg/Kg | 5 | 6/26/2017 2:57:28 PN | 32485 | | |
| Sulfate | 5300 | 75 | mg/Kg | 50 | 6/27/2017 5:13:52 AN | 32485 | | |

Hall Environmental Analysis Laboratory, Inc.

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

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 4 of 23
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

CLIENT: Souder, Miller & Associates	Client Sample ID: SW7					
Project: Matador Paul 2nd			Collection I	Date: 6/1	2/2017 10:30:00 AM	
Lab ID: 1706A44-005	Matrix:	SOIL	Received 1	Date: 6/2	0/2017 10:15:00 AM	
Analyses	Result	PQL Qua	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: MRA
Chloride	15	7.5	mg/Kg	5	6/26/2017 3:22:16 PM	32485
Nitrogen, Nitrate (As N)	1.7	1.5	mg/Kg	5	6/26/2017 3:22:16 PM	32485
Sulfate	5100	75	mg/Kg	50	6/27/2017 5:26:17 AM	32485

Hall Environmental Analysis Laboratory, Inc.

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

- * Value exceeds Maximum Contaminant Level.D Sample Diluted Due to Matrix
- Sample Difuted Due to Wallix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 5 of 23
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

CLIENT: Souder, Miller & Associates	Client Sample ID: SW8					
Project: Matador Paul 2nd			Collection 1	Date: 6/1	2/2017 10:30:00 AM	
Lab ID: 1706A44-006	Matrix:	SOIL	Received	Date: 6/2	0/2017 10:15:00 AM	
Analyses	Result	PQL Qua	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: MRA
Chloride	1200	75	mg/Kg	50	6/27/2017 5:38:41 AM	32485
Nitrogen, Nitrate (As N)	1.9	1.5	mg/Kg	5	6/26/2017 4:11:55 PM	32485
Sulfate	5100	75	mg/Kg	50	6/27/2017 5:38:41 AM	32485

Hall Environmental Analysis Laboratory, Inc.

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

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 6 of 23
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

CLIENT: Souder, Miller & Associates	Client Sample ID: SW9 Collection Date: 6/12/2017 10:30:00 AM					
Project: Matador Paul 2nd						
Lab ID: 1706A44-007	Matrix:	SOIL	Received	Date: 6/2	0/2017 10:15:00 AM	
Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: MRA
Chloride	140	7.5	mg/Kg	5	6/26/2017 4:36:44 PM	32485
Nitrogen, Nitrate (As N)	2.8	1.5	mg/Kg	5	6/26/2017 4:36:44 PM	32485
Sulfate	5100	75	mg/Kg	50	6/27/2017 5:51:06 AM	32485

Hall Environmental Analysis Laboratory, Inc.

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

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 7 of 23
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

CLIENT: Souder, Miller & Associates	Client Sample ID: SW11 Collection Date: 6/12/2017 10:30:00 AM						
Project: Matador Paul 2nd							
Lab ID: 1706A44-008	Matrix: SOIL Received Date: 6/20/2017 10:15:00 .					AM	
Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch	
EPA METHOD 300.0: ANIONS					Analys	t: MRA	
Chloride	87	7.5	mg/Kg	5	6/26/2017 5:01:33 PM	32485	
Nitrogen, Nitrate (As N)	3.1	1.5	mg/Kg	5	6/26/2017 5:01:33 PM	32485	
Sulfate	5300	75	mg/Kg	50	6/27/2017 6:03:30 AM	32485	

Hall Environmental Analysis Laboratory, Inc.

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

Qualifiers:

*

- Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix D
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S
- В Analyte detected in the associated Method Blank
- Value above quantitation range Е
- Analyte detected below quantitation limits Page 8 of 23 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

CLIENT: Souder, Miller & Associates	Client Sample ID: BH 2-3						
Project: Matador Paul 2nd		Collection Date: 6/12/2017 10:30:00 AM					
Lab ID: 1706A44-009	Matrix:	SOIL	Received	Date: 6/20/2017 10:15:00 AM			
Analyses	Result	PQL Qua	al Units	DF Date Analyzed Batch			
EPA METHOD 300.0: ANIONS				Analyst: MRA			
Chloride	3000	150	mg/Kg	100 6/27/2017 6:15:54 AM 32485			
Nitrogen, Nitrate (As N)	ND	1.5	mg/Kg	5 6/26/2017 5:26:23 PM 32485			
Sulfate	4100	150	mg/Kg	100 6/27/2017 6:15:54 AM 32485			

Hall Environmental Analysis Laboratory, Inc.

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

- * Value exceeds Maximum Contaminant Level.D Sample Diluted Due to Matrix
- Sample Difuted Due to Wallix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 9 of 23
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

CLIENT: Souder, Miller & Associates	Client Sample ID: BH 2-5.5 Collection Date: 6/12/2017 10:30:00 AM					
Project: Matador Paul 2nd						
Lab ID: 1706A44-010	Matrix:	Date: 6/20/2017 10:15:00 AM				
Analyses	Result	PQL Qu	al Units	DF Date Analyzed Batch		
EPA METHOD 300.0: ANIONS				Analyst: MRA		
Chloride	2100	150	mg/Kg	100 6/27/2017 6:28:19 AM 32485		
Nitrogen, Nitrate (As N)	ND	1.5	mg/Kg	5 6/26/2017 5:51:13 PM 32485		
Sulfate	7500	150	mg/Kg	100 6/27/2017 6:28:19 AM 32485		

Hall Environmental Analysis Laboratory, Inc.

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

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 10 of 23
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

CLIENT: Souder, Miller & Associates Project: Matador Paul 2nd	Client Sample ID: BH 2-10 Collection Date: 6/12/2017 10:30:00 AM					
Lab ID: 1706A44-011	Matrix:	SOIL	Received I	Date: 6/20/2017 10:15:00 AM		
Analyses	Result	PQL Qua	al Units	DF Date Analyzed Batch		
EPA METHOD 300.0: ANIONS				Analyst: MRA		
Chloride	1200	150	mg/Kg	100 6/27/2017 9:08:03 AM 32485		
Nitrogen, Nitrate (As N)	ND	1.5	mg/Kg	5 6/26/2017 6:40:51 PM 32485		
Sulfate	6300	150	mg/Kg	100 6/27/2017 9:08:03 AM 32485		

Hall Environmental Analysis Laboratory, Inc.

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

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 11 of 23
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

CLIENT: Souder, Miller & Associates	Client Sample ID: BH 4-1.5					
Project: Matador Paul 2nd			Collection I	Date: 6/1	2/2017 10:30:00 AM	
Lab ID: 1706A44-012	Matrix:	SOIL	Received I	Date: 6/2	0/2017 10:15:00 AM	
Analyses	Result	PQL Qua	l Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: MRA
Chloride	300	7.5	mg/Kg	5	6/26/2017 7:05:40 PM	32485
Nitrogen, Nitrate (As N)	ND	1.5	mg/Kg	5	6/26/2017 7:05:40 PM	32485
Sulfate	5600	75	mg/Kg	50	6/27/2017 9:20:27 AM	32485

Hall Environmental Analysis Laboratory, Inc.

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

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 12 of 23
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

CLIENT: Souder, Miller & Associates Project: Matador Paul 2nd			Client Sampl Collection 1	e ID: <mark>BGC-S</mark> Date: 6/12/2017 10:45:00 AM	
Lab ID: 1706A44-013	Matrix:	SOIL	Received 1	Date: 6/20/2017 10:15:00 AM	
Analyses	Result	PQL Q	ual Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS Chloride Nitrogen, Nitrate (As N) Sulfate	24 6.3 4800	7.5 1.5 75	(mg/Kg (mg/Kg) (mg/Kg)	Analys 5 6/26/2017 7:30:29 PM 5 6/26/2017 7:30:29 PM 50 6/27/2017 9:32:52 AM	t: MRA 32485 32485 32485

Hall Environmental Analysis Laboratory, Inc.

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

- * Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix D
- Н
- Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S
- В Analyte detected in the associated Method Blank
- Value above quantitation range Е
- Analyte detected below quantitation limits Page 13 of 23 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

CLIENT: Souder, Miller & Associates	Client Sample ID: BGC-1					
Project: Matador Paul 2nd			Collection 1	Date: 6/12/2017 10:45:00 AM		
Lab ID: 1706A44-014	Matrix:	SOIL	Received 1	Date: 6/20/2017 10:15:00 AM		
Analyses	Result	PQL Qua	d Units	DF Date Analyzed Batch		
EPA METHOD 300.0: ANIONS				Analyst: MRA		
Chloride	1000	30	mg/Kg	20 6/26/2017 8:07:43 PM 32485		
Nitrogen, Nitrate (As N)	ND	1.5	mg/Kg	5 6/26/2017 7:55:18 PM 32485		
Sulfate	7700	150	mg/Kg	100 6/27/2017 9:45:17 AM 32485		

Hall Environmental Analysis Laboratory, Inc.

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

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 14 of 23
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

CLIENT: Souder, Miller & Associates		C	lient Sam	nple ID <mark>: BGC-2</mark>
Project: Matador Paul 2nd			Collection	n Date: 6/12/2017 10:45:00 AM
Lab ID: 1706A44-015	Matrix:	SOIL	Receive	d Date: 6/20/2017 10:15:00 AM
Analyses	Result	PQL Qual	Units	DF Date Analyzed Batch
EPA METHOD 300.0: ANIONS				Analyst: MRA
Chloride	3200	<mark>150</mark>	mg/Kg	100 6/27/2017 9:57:41 AM 32503
Nitrogen, Nitrate (As N)	1.5	1.5	mg/Kg	5 6/26/2017 9:09:47 PM 32503
Sulfate	10000	150	mg/Kg	100 6/27/2017 9:57:41 AM 32503

Hall Environmental Analysis Laboratory, Inc.

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

- * Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix D
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S
- В Analyte detected in the associated Method Blank
- Value above quantitation range Е
- Analyte detected below quantitation limits Page 15 of 23 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Analytical Report
Lab Order 1706A44

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 6/30/2017

CLIENT: Souder, Miller & Associates			Client Sampl	le ID <mark>: BGC-3</mark>	
Project: Matador Paul 2nd			Collection	Date: 6/12/2017 10:45:00 AM	
Lab ID: 1706A44-016	Matrix: S	SOIL	Received	Date: 6/20/2017 10:15:00 AM	
Analyses	Result	PQL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analys	t: MRA
Chloride	4800	300	mg/Kg	200 6/27/2017 10:10:05 AM	<mark>/ 32503</mark>
Nitrogen, Nitrate (As N)	<mark>1.6</mark>	1.5	mg/Kg	5 6/26/2017 9:59:26 PM	32503
Sulfate	7800	300	mg/Kg	200 6/27/2017 10:10:05 AM	A 32503

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

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 16 of 23
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

CLIENT: Souder, Miller & Associates			Client Samp	le ID: <mark>BGC-4</mark>
Project: Matador Paul 2nd			Collection	Date: 6/12/2017 10:45:00 AM
Lab ID: 1706A44-017	Matrix:	SOIL	Received	Date: 6/20/2017 10:15:00 AM
Analyses	Result	PQL Qua	l Units	DF Date Analyzed Batch
EPA METHOD 300.0: ANIONS				Analyst: MRA
Chloride	4800	150	mg/Kg	100 6/27/2017 10:22:30 AM 32503
Nitrogen, Nitrate (As N)	ND	1.5	mg/Kg	5 6/26/2017 10:24:16 PM 32503
Sulfate	9500	150	mg/Kg	100 6/27/2017 10:22:30 AM 32503

Hall Environmental Analysis Laboratory, Inc.

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

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 17 of 23
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

CLIENT: Souder, Miller & Associates		C	Client Sam	ple ID: <mark>BGC-6</mark>
Project: Matador Paul 2nd			Collection	n Date: 6/12/2017 10:45:00 AM
Lab ID: 1706A44-018	Matrix:	SOIL	Received	l Date: 6/20/2017 10:15:00 AM
Analyses	Result	PQL Qual	Units	DF Date Analyzed Batch
EPA METHOD 300.0: ANIONS				Analyst: MRA
Chloride	3500	<mark>150</mark>	mg/Kg	100 6/27/2017 10:34:55 AM 32503
Nitrogen, Nitrate (As N)	ND	1.5	mg/Kg	5 6/26/2017 10:49:05 PM 32503
Sulfate	5300	150	mg/Kg	100 6/27/2017 10:34:55 AM 32503

Hall Environmental Analysis Laboratory, Inc.

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

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 18 of 23
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

CLIENT: Souder, Miller & Associates			Client Sampl	le ID: BGC-8
Project: Matador Paul 2nd			Collection I	Date: 6/12/2017 10:45:00 AM
Lab ID: 1706A44-019	Matrix:	SOIL	Received l	Date: 6/20/2017 10:15:00 AM
Analyses	Result	PQL Qua	al Units	DF Date Analyzed Batch
EPA METHOD 300.0: ANIONS				Analyst: MRA
Chloride	2400	150	mg/Kg	100 6/27/2017 10:47:20 AM 32503
Nitrogen, Nitrate (As N)	1.6	1.5	mg/Kg	5 6/26/2017 11:38:45 PM 32503
Sulfate	8300	150	mg/Kg	100 6/27/2017 10:47:20 AM 32503

Hall Environmental Analysis Laboratory, Inc.

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

- * Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix D
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 19 of 23 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

CLIENT: Souder, Miller & Associates			Client Sampl	e ID: BGC-10
Project: Matador Paul 2nd			Collection I	Date: 6/12/2017 10:45:00 AM
Lab ID: 1706A44-020	Matrix:	SOIL	Received l	Date: 6/20/2017 10:15:00 AM
Analyses	Result	PQL Qu	al Units	DF Date Analyzed Batch
EPA METHOD 300.0: ANIONS				Analyst: MRA
Chloride	2700	150	mg/Kg	100 6/27/2017 10:59:44 AM 32503
Nitrogen, Nitrate (As N)	ND	1.5	mg/Kg	5 6/27/2017 12:03:34 AM 32503
Sulfate	7200	<mark>150</mark>	mg/Kg	100 6/27/2017 10:59:44 AM 32503

Hall Environmental Analysis Laboratory, Inc.

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

Qualifiers:

*

- Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix D
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S
- В Analyte detected in the associated Method Blank
- Value above quantitation range Е
- Analyte detected below quantitation limits Page 20 of 23 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

CLIENT: Souder, Miller & Associates		(Client Sam	ple ID: B <mark>GC-12</mark>
Project: Matador Paul 2nd			Collection	n Date: 6/12/2017 10:45:00 AM
Lab ID: 1706A44-021	Matrix:	SOIL	Received	l Date: 6/20/2017 10:15:00 AM
Analyses	Result	PQL Qual	Units	DF Date Analyzed Batch
EPA METHOD 300.0: ANIONS				Analyst: MRA
Chloride	1300	150	mg/Kg	100 6/27/2017 11:36:58 AM 32503
Nitrogen, Nitrate (As N)	ND	1.5	mg/Kg	5 6/27/2017 12:28:23 AM 32503
Sulfate	7100	<mark>150</mark>	mg/Kg	100 6/27/2017 11:36:58 AM 32503

Hall Environmental Analysis Laboratory, Inc.

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

- * Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix D
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S
- В Analyte detected in the associated Method Blank
- Value above quantitation range Е
- Analyte detected below quantitation limits Page 21 of 23 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Souder, Miller & Associates

Project:	Matador 1	Paul 2nd									
Sample ID	MB-32485	SampT	ype: mł	olk	Tes	tCode: E	PA Method	300.0: Anion	S		
Client ID:	PBS	Batch	ID: 32	485	F	RunNo: 4	3787				
Prep Date:	6/26/2017	Analysis D	ate: 6/	26/2017	S	SeqNo: 1	380561	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND	1.5								
Nitrogen, Nitrat	e (As N)	ND	0.30								
Sulfate		ND	1.5								
Sample ID	LCS-32485	SampT	ype: Ics	5	Tes	tCode: E	PA Method	300.0: Anion	S		
Client ID:	LCSS	Batch	ID: 32	485	F	RunNo: 4	3787				
Prep Date:	6/26/2017	Analysis D	ate: 6/	26/2017	5	SeqNo: 1	380562	Units: mg/K	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		14	1.5	15.00	0	91.1	90	110			
Nitrogen, Nitrat	e (As N)	7.1	0.30	7.500	0	94.2	90	110			
Sulfate		28	1.5	30.00	0	93.7	90	110			
Sample ID	1706A44-002AMS	SampT	ype: ms	6	Tes	tCode: E	PA Method	300.0: Anion	S		
Client ID:	SW4	Batch	ID: 32	485	F	RunNo: 4	3787				
Prep Date:	6/26/2017	Analysis D	ate: 6/	26/2017	ç	SeqNo: 1	380574	Units: mg/K	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Nitrat	e (As N)	8.7	0.30	7.500	1.907	90.0	61.8	142			
Sample ID	1706A44-002AMS	D SampT	ype: ms	sd	Tes	tCode: E	PA Method	300.0: Anion	S		
Client ID:	SW4	Batch	ID: 32	485	F	RunNo: 4	3787				
Prep Date:	6/26/2017	Analysis D	ate: 6/	26/2017	S	SeqNo: 1	380575	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Nitrat	e (As N)	8.6	0.30	7.500	1.907	88.6	61.8	142	1.22	20	
Sample ID	MB-32503	SampT	ype: m l	olk	Tes	tCode: E	PA Method	300.0: Anion	S		
Client ID:	PBS	Batch	ID: 32	503	F	RunNo: 4	3787				
Pren Date:	6/26/2017	Analysis D	ate 6 /	26/2017	5	SeqNo: 1	380605	Units: mg/k	٤g		
Thep Date.	0/20/2011	Analysis D	uto. 0								
Analyte	0/20/2011	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Analyte Chloride		Result ND	PQL 1.5	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Analyte Chloride Nitrogen, Nitrat	e (As N)	Result ND ND	PQL 1.5 0.30	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

Client:

- * 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 22 of 23

WO#: 1706A44 30-Jun-17

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

1706A44

WO#:

Client: Project:	Souder, I Matador	Miller & A Paul 2nd	ssociate	es							
110jett.	Watadoi	1 aui 2110									
Sample ID	LCS-32503	SampT	ype: Ics	5	Tes	tCode: El	PA Method	300.0: Anior	ns		
Client ID:	LCSS	Batch	h ID: 32	503	F	RunNo: 4	3787				
Prep Date:	6/26/2017	Analysis D	Date: 6/	26/2017	S	SeqNo: 1	380606	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		14	1.5	15.00	0	93.3	90	110			
Nitrogen, Nitrat	e (As N)	7.3	0.30	7.500	0	97.5	90	110			
Sulfate		28	1.5	30.00	0	95.0	90	110			
Sample ID	1706A44-015AMS	SampT	ype: ms	5	Tes	tCode: El	PA Method	300.0: Anior	is		
Client ID:	BGC-2	Batch	h ID: 32	503	F	RunNo: 4	3787				
Prep Date:	6/26/2017	Analysis D	Date: 6/	26/2017	S	SeqNo: 1	380610	Units: mg/ł	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Nitrat	e (As N)	8.2	1.5	7.500	1.546	88.5	61.8	142			
Sample ID	1706A44-015AMS	D SampT	ype: ms	sd	Tes	tCode: El	PA Method	300.0: Anior	IS		
Client ID:	BGC-2	Batch	h ID: 32	503	F	RunNo: 4	3787				
Prep Date:	6/26/2017	Analysis D	Date: 6/	26/2017	S	SeqNo: 1	380611	Units: mg/ł	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Nitrat	e (As N)	8.1	1.5	7.500	1.546	87.7	61.8	142	0.768	20	

- * 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 23 of 23

HALL ENVIRONMENTAL ANALYSIS LABORATORY	Hall Environmental A Albuq TEL: 505-345-3975 F Website: www.hall	Inalysi 4901 querqu ₹AX: 5 lenviro	s Laboratory Hawkins NE e, NM 87109 05-345-4107 nmental.com	Sam	ple Log-In Ch	eck List
Client Name: SMA-CARLSBAD	Work Order Number:	1706/	\44		RcptNo:	1
Received By: Sophia Campuzano	6/20/2017 10:15:00 AM			Soyhee Conger-	w est	
Completed By: Richie Eriacho	6/20/2017 10:54:47 AM		<i>,</i>	2	<i>*</i>	
Reviewed By: le las	6/20/17		1		····· • • • •	
Chain of Custody						
1. Custody seals intact on sample bottles?		Yes		No 🗌	Not Present 🗹	
2. Is Chain of Custody complete?		Yes	\checkmark	No 🗌	Not Present	
3. How was the sample delivered?		<u>Cour</u>	ier			
<u>Log In</u>					_	
4. Was an attempt made to cool the samples?		Yes		No 🗋	NA	
5. Were all samples received at a temperature	of >0° C to 6.0°C	Yes		No 🗌	NA 🗌	
6. Sample(s) in proper container(s)?		Yes	\checkmark	No 🗌		
7. Sufficient sample volume for indicated test(s)?	Yes		No 🗌		
8. Are samples (except VOA and ONG) proper	ly preserved?	Yes	\checkmark	No 🗌		
9. Was preservative added to bottles?		Yes		No 🗹	NA 🗌	
10.VOA vials have zero headspace?		Yes		No 🗌	No VOA Vials 🗹	
11. Were any sample containers received broke	in?	Yes		No 🗹	# of preserved bottles checked	-
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes		No 🗌	for pH: (<2 or	>12 unless noted)
13. Are matrices correctly identified on Chain of	Custody?	Yes	\checkmark	No 🗔	Adjusted?	
14. Is it clear what analyses were requested?		Yes	\checkmark	No 🗌		
15. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes		No 🗌	Checked by:	
Special Handling (if applicable)						
16. Was client notified of all discrepancies with t	his order?	Yes		No 🗌	NA 🔽	
Person Notified:	Date:			<u></u>		
By Whom:	Via:) eM	ail 🗌 Phoi	ne 📋 Fax	🗌 In Person	
Regarding:					•	
Client Instructions:						
17. Additional remarks:						
18. <u>Cooler Information</u> Cooler No. Temp °C. Condition Se	al Intact Seal No. S	eal D	ate si	aned By	1	
1 6.0 Good					1	
Page 1 of 1						···

Mile Curricity and Project Name: Connected Project Name: Connected Project Name: Amile Amile Amile Amile Amile Project Name: Project Name: Amile Amile Project Name: Project Name: Project Name: Amile Project Name: Project Name: Project Name: Amile Project Name: Project Name: Project Name: Project Name: Project Name: Project Name: Project Name:	0	hain	-of-Cu	istody Record	Turn-Around	Time:			L.		N.	5	RC I	MENTAL	
Пайте Алите Пайте Алите Пайте Алите Пайте Алите Пайте Алите Пайте Алите Майта (Гененски) Майта (Гененски) Майта (Гененски) Майта (Гененски) Майта (Гененски) Полов # Майта (Гененски) Ролов # Майта (Гененски) Ролов # Алите (Гененски) А	Client	SAAA	-Ca	nsbad.	C Standard	Rush	5 day (metador)	16		NA	LYSI	SL	AB	DRATOR	. >
Indira Adress: M.d.d.d. (f.v.; P.Q.U. 2. ^{M.d.}) Propert # Project # Project # Project # <					Project Name	-	2			.h.www.h.	allenviro	nmenta	al.com		
Propertity Propertity Prop	Mailing	Address	14		Matac	lor= Pau	1249	4901	Hawk	ns NE	- Albuq	anbuan	NM S	37109	
Project Manager Project Manager Project Manager Bandlar Faset: Project Manager Project Manager Project Manager Bandlar Faset: Bandlar Level 4 (FullValidation) Aut Fill Nullidation Aut Fill Nullidation Bandlar Bandlar Level 4 (FullValidation) Aut Fill Nullidation Aut Fill Nullidation Aut Fill Nullidation Correction Bandlar Bandlar<					Project #:			Tel.	505-34	5-3975	Fax	505-3	345-41	07	
mill or Faset: Project Manager: 24,000 Fasebage: And Strip Multi Mu	Phone	÷									Analysis	s Requ	lest		
CAGC Predage: Aut CF Predage: CAGC Predage: Level 4 Full/validation Constraint Level 4 Full/validation Constraint Sampler LCM Constraint Sample Request ID Constraint Next Mained Sol 1) Consold	email o	r Fax#:			Project Mana	ger:		(Xju ()	(0)-		Co	-	_		
Accorditation Sample request to Mile Mile Bubbles (Y or N) Date Time Matrix Sample request to Mile Date Matrix Sample request to Mile Mile Date Time Matrix Sample request to Mile Date Mile -0.02 EDB (Mile Mile -0.02 -0.02 EDB (Mile Mile -0.02 -0.02 EDB (Mile Mile -0.02 -0.02 EDB (Mile Mile Mile -0.02 Mile Mile	DA/QCI	Package: dard		Level 4 (Full Validation)	AUSH	n Wella	ht	o se9) 208) s	W/OX	(SMIS	aog.	5 PCB	_		
Intervent Contos: X ves. Dive. Contos: X ves. Dive. Date: Trine Matrix Samplei Request ID Tripe Samplei Request ID Samplei Reprind dist Milit Milit Milit Samplei Request ID Samplei Request ID Samplei Reprind dist Sait I Samplei Reprind dist	Accredi	tation			Sampler: UC	N C		Hd. 8W	() (1	(1	°ON	808	-	_	()
Date Time Matrix Sample Request ID Condinier Preservature HEAL No. Date Time Matrix Sample Request ID Container Preservature HEAL No. Antime (6.00 At 9.0 H) Antime (6.0 At 9.0 H)	D NEL	AP	D Othe		On toe:	A Yes I	ON C	1 + 1 +	18	40 28	100	115	(40	hu	ar 1
Date Time Matrix Sample Request ID Container Preservative HEAL No. Arr Bubbles Image Type Type Type Type HEAL No.	D EDD	(Type)			Sample Temp	perature: (0		.BE .BE	oq ج د (دا	d bo to 0	sleta	apic	(A		٨) (
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL NO. 1706 446 4	rm + Xəta M + Xəta	aeros H91 H91 (Meth	rteM) 803 768) 8'HA9	M 8 AROR VFI) enoinA	iltseg 1808	OV) 80328		Air Bubbles
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	41 m	10.30	5011	SWZ	U02. Jur		100-				1				-
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		1		SW4	Å		200-				1				
FW (6 - 004 - 004 - 004 - 005 <th< td=""><td></td><td></td><td>T</td><td>SW5</td><td></td><td></td><td>- 603</td><td></td><td></td><td></td><td>2</td><td>~</td><td></td><td></td><td></td></th<>			T	SW5			- 603				2	~			
[M] [M] Co5 Image Co5 Image Image </td <td>-</td> <td>-</td> <td></td> <td>SW Le</td> <td></td> <td></td> <td>1 004</td> <td></td> <td></td> <td></td> <td>></td> <td>/</td> <td></td> <td></td> <td></td>	-	-		SW Le			1 004				>	/			
F SW 8 -oble -obl				[[w 7			500-				2				
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$				Sw B			-006				>		-		
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$				GW 9.			100-				,		-		
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$				UW II			-003				>	-	-		_
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$				BH 2-3	1		-009)		Ť		
BH2-10 -01 Date Time: BH4-1.5 Date Time: Reinquished by Date Time: Reinquished by Date Time: Balinquished by: Date Time: Date Date <t< td=""><td></td><td></td><td></td><td>BH 2-55</td><td></td><td></td><td>-010</td><td></td><td></td><td></td><td>></td><td></td><td>-</td><td></td><td></td></t<>				BH 2-55			-010				>		-		
+ + + + + + + - <td></td> <td>-</td> <td></td> <td>BH2-10</td> <td></td> <td></td> <td>-011</td> <td></td> <td></td> <td></td> <td>2</td> <td></td> <td>-</td> <td></td> <td></td>		-		BH2-10			-011				2		-		
Date Time Relinquished by Received Bate Time Remarks: Date Time Relinquished to Receive by Date Time Date Time Date Time	+	+	4	RH4-1.5	~	,	-012)		-		
Pate Time Retinquested by Received by Date Time.	Date	Time:	Relinquish	ed by	Received	1	LICIN MAG	Remarks:							
19/1 1900 / 1/1 1/ Siph Can adizolin 1015	Date:	Time:	Relinquish	Cott 1 /	Received by.		Date Time								
	10/61	1900	1	1.01	Siplic	Cre	oblachin 1015								

ģ. A DODDATE L

Clerit: Child: Display Interview Display Interview <thdisplay interview<="" th=""> Display Intervi</thdisplay>	Cha	lin-of-C	ustody Record	Turn-Around	Time:			-						
Mailing Address. Project Name: Monitoria Contract Monitoria Contract Mailing Address. Mailing Address. Mailing Address. Mailing Address. Monitoria Contract Project Kit Project Kit Mailing Address. Mailing Address. Mailing Address. Monitoria Contract Project Kit Project Kit Project Kit Project Kit Project Kit Address. Monitoria Contract Out Creatage Project Kit Project Kit Project Kit Project Kit Project Kit Project Kit Address Addres Address Address	Client: SN	AA-Ca	Vishad	D Standard	M Rush	5 day (notader)			ALL	VST.	VIR		IMENT	12
Multing Address. Multing Address. Multing Address. Multing Address. Multing Address. Propert R: Propert R: Propert R: Propert R: Propert R: Address. Propert R: PropertR: <t< td=""><td></td><td>5</td><td></td><td>Project Name</td><td>-</td><td></td><td></td><td>с ТШ</td><td>ed wow</td><td>TOT-</td><td>U L</td><td>A D</td><td>OKAIO</td><td>ł</td></t<>		5		Project Name	-			с ТШ	ed wow	TOT-	U L	A D	OKAIO	ł
Project Historia Project Historia Project Hanger Project Hanger Autor Refease Proventilition Autor Refer Proventin Autor Refer P	Mailing Add	ress.		Matau	dor : Pa	W 2nd.	4901	Hawkin	IS NE	Albuqu	lerque	NN N	87109	
Prone #: Autor Freek Imal of Freek Imal of				Project #.			Tel.	505-34	5-3975	Fax	505-3	345-4	107	
email of Fast: Project Manager. Ducc Poloage Ducc Poloage Out Core Poloage And Shin Wuthation And Core Poloage Sample Termer Strope Date Time Matrix Sample Request ID Date Matrix Date Matrix <td< td=""><td>Phone #:</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>Analysis</td><td>Redu</td><td>lest</td><td></td><td></td></td<>	Phone #:									Analysis	Redu	lest		
Concor Package: Multiply Multiply <t< td=""><td>email or Fax</td><td>毛</td><td></td><td>Project Mana</td><td>ger.</td><td></td><td>(A)) (</td><td>(0)</td><td>-</td><td>Co</td><td>-</td><td></td><td></td><td>-</td></t<>	email or Fax	毛		Project Mana	ger.		(A)) ((0)	-	Co	-			-
Accreditation Sample Request 10 Sample Request 10 1 NELAP Onter Sample Request 10 1 NELAP Onter Notes 1 NELAP Onter Sample Request 10 1 Dela Time Matrix 2 Dot Dela Time 1 Dela Time Notes 1 Dela Time Dela 1 Dela Dela Time 1 Dela Dela Time 1 Dela	QA/CC Pack	age	그 Level 4 (Full Validation)	Aush	in Weu	ant	1508) s 10 26D)	HW / OX	(SWI	ps) og	PCB's			-
D NELAP D NELAP D On for: Xross D Nel Construct 0 ED0 (Type) 0 1 1 1 1 0 ED0 (Type) 1 1 1 1 1 0 Date Time Matrix Sample Terroberture (c.0) 1 1 0 Date Time Matrix Sample Terroberture (c.0) 1 1 0 Date Time Matrix Sample Terroberture (c.0) 1 1 0 Date Time Matrix Sample Terroberture (c.0) 1 1 0 Date Time Matrix Sample Terroberture (c.0) 1 1 0 Date Time Matrix Sample Terroberture (c.0) 1 1 0 Date Date Time Date 1 1 0 Date Date Date Date Date 1 0 Date Date <td< td=""><td>Accreditatio</td><td>-</td><td></td><td>Sampler:</td><td>CM J</td><td></td><td>Hd.</td><td>1)</td><td>S 02</td><td>ZON</td><td>2808</td><td>-</td><td></td><td>()</td></td<>	Accreditatio	-		Sampler:	CM J		Hd.	1)	S 02	ZON	2808	-		()
Date Time Matrix Sample Request ID Date Time Matrix Sample Request ID Date Time Matrix Date Date Time Matrix Sample Request ID Type Type Date Type Matrix Sample Request ID Type Matrix Sample Request ID Type Matrix Date Type Matrix Date Date Matrix	D NELAP	D Ot	Ter	On Ice:	XYes	D No	L +	18	'70	1.10	8/5	1.9	(4	A 10
Date Time Matrix Sample Request ID Container Preservative Image Matrix Sample Request ID Type and # Type Type and # Type Type Type Type Type Type Image Matrix Sample Request ID Type Type Type Type Type Type Type Matrix Sample Request ID Type Type Type Matrix BGC - - 014 - BGC - - - - - - BGC - - - - - - BGC -	D EDD (Ty)	oe)		Sample Temp	Derature: L.C		38. 8E	+ po	0 ot	slete N, (G	səpi	()	04-	(A (
withling Ling Ling <td>Date Tit</td> <td>ne Matrix</td> <td>Sample Request ID</td> <td>Container Type and #</td> <td>Preservative Type</td> <td>HEAL NO.</td> <td>BTEX + MT</td> <td>aeros Han MaeM) H9T</td> <td>nteM) 803 r68) a'HA9</td> <td>M 8 Aମ୍ପଠମ D.Fl) anoinA</td> <td>8081 Pestic</td> <td>8260B (VO</td> <td>imes) u128</td> <td>Air Bubbles</td>	Date Tit	ne Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL NO.	BTEX + MT	aeros Han MaeM) H9T	nteM) 803 r68) a'HA9	M 8 Aମ୍ପଠମ D.Fl) anoinA	8081 Pestic	8260B (VO	imes) u128	Air Bubbles
BGC -1 -014 -024 -014 -024 0 BGC -1 -016 -024 0	10:17 10:1	HE [01]	BG-C-S .	[L67 1 OVV		-613 -04				1				
BGC - 2 -015 $uddt BGC - 3 -016 uddt BGC - 4 -018 uddt BGC - 6 -018 uddt BGC - 6 -018 uddt BGC - 8 -017 uddt BGC - 8 -017 uddt BGC - 8 -013 uddt BGC - 8 -013 uddt BGC - 12 -013 uddt BGC - 12 -020 uddt BGC - 12 -021 uddt Date: Time Remeted br Remeted br Remeted br Remeted br Date Time Remeted br $		-	BGC -1			790- 410-				1				
Point Point Point Point Point			BGC - 2			-015 -003				1	~			
BGC + -013 - 005 -013 - 005 -013 - 005 0 BGC - 6 BGC - 6 -013 - 005 -013 - 005 0 0 BGC - 10 BGC - 10 -013 - 005 -013 - 005 0 0 0 BGC - 10 BGC - 12 -011 - 005 -005 -005 0 0 Date: Trme: Reinsubstree: by: Received by: Date: Time Remarks: Date: Trme: Rainardynee: by: Received by: Date: Time Date: Trme: Rainardynee: by: Received by: Date: Time			B46-3			-016 -004				1	-			
Profile Profile <t< td=""><td></td><td></td><td>BGC - 4</td><td></td><td></td><td>-017 -005</td><td></td><td></td><td></td><td>1</td><td></td><td>E</td><td></td><td></td></t<>			BGC - 4			-017 -005				1		E		
Hole Bale Bale Bale Cold Cold <th< td=""><td></td><td></td><td>Phil- Lo</td><td></td><td></td><td>-018 -000</td><td></td><td></td><td></td><td>></td><td>1</td><td></td><td></td><td></td></th<>			Phil- Lo			-018 -000				>	1			
J Hole Lo20_06 J Hole 12 J Hole 12 Date: Time: Reinquistnee by: Date: Time: Rainquistnee by: Received by: Date: Time:		-	66C-8			-019 - 607				1	1			
J J Half-12 L Date: Time: Relinquishere by: Pate Date: Time: Relinquishere by: Received by: Date: Time: Remarks: Date: Time: Remarks: Date: Time: Color			126/ 10			-020-068				2				
Date: Time: Relinquisher by: Pate:	->	7	High-12	4		-021 -00				1				
Date: Time: Relinquisher by: Pate: Time: Relinquisher by: Pate: Time: Relinquisher by: Received by: Received by: ArpLC3- C1/21/1 (0/5)												-		
Pater Time: Relingentified by Received by Date Time	Date: Time	Relinquis	heb by:	Received by:	1	6/19/17 OYON	Remarks:							
	Pater Time	Reling	hes by	Received by:	t	Date Time Dis /20/17 (DIS								

orefores. This serves as notice of this possibility. Any sub-contracted data will be pearly notated on the analytical report. In broan in on lai sine annon in CINEDING INTO A DA SON Inot in hold house 'A second a

Analytical Report

Lab Order 1706875

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Project: Tiger W1

1706875-001

Lab ID:

Client Sample ID: Tiger W1Collection Date: 6/13/2017 3:00:00 PMMatrix: AQUEOUSReceived Date: 6/15/2017 9:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
CARBON DIOXIDE						Analyst	: JRR
Total Carbon Dioxide	180	1.0	н	mg CO2/L	1	6/15/2017 8:49:30 PM	R43555
SPECIFIC GRAVITY						Analyst	JRR
Specific Gravity	1.096	0			1	6/22/2017 1:34:00 PM	R43724
EPA METHOD 300.0: ANIONS						Analyst	MRA
Chloride	100000	5000	*	mg/L	1E	6/24/2017 4:31:52 AM	R43793
Sulfate	490	10	*	mg/L	20	6/16/2017 12:35:34 PM	R43601
SM2320B: ALKALINITY						Analyst	: JRR
Bicarbonate (As CaCO3)	150.6	20.00		mg/L CaCO3	1	6/15/2017 8:49:30 PM	R43555
Carbonate (As CaCO3)	ND	2.000		mg/L CaCO3	1	6/15/2017 8:49:30 PM	R43555
Total Alkalinity (as CaCO3)	150.6	20.00		mg/L CaCO3	1	6/15/2017 8:49:30 PM	R43555
SM2540C MOD: TOTAL DISSOLVE	O SOLIDS					Analyst	: KS
Total Dissolved Solids	164000	2000	*D	mg/L	1	6/21/2017 5:49:00 PM	32389
SM4500-H+B: PH						Analyst	: JRR
рН	6.77		н	pH units	1	6/15/2017 8:49:30 PM	R43555
EPA METHOD 200.7: METALS						Analyst	: pmf
Barium	3.4	0.040	*	mg/L	20	6/22/2017 3:04:53 PM	32391
Calcium	6800	100		mg/L	100	6/22/2017 5:02:18 PM	32391
Iron	13	0.40	*	mg/L	20	6/22/2017 3:04:53 PM	32391
Magnesium	1000	20		mg/L	20	6/22/2017 3:04:53 PM	32391
Manganese	1.1	0.040	*	mg/L	20	6/22/2017 3:04:53 PM	32391
Potassium	860	20		mg/L	20	6/22/2017 3:04:53 PM	32391
Sodium	37000	1000		mg/L	1E	6/22/2017 8:15:36 PM	32391
Strontium	ND	0.20		mg/L	20	6/22/2017 3:04:53 PM	32391

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method 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 1 of 0
	ND	Not Detected at the Reporting Limit	Р	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