Received by OCD: 8/28/2019 12:13:47 PM



Jason Michelson Project Manager Chevron Environmental Management Company 1500 Louisiana Street, #38116 Houston, Texas 77002 Work: 832-854-5601

Work: 832-854-5601 Cell: 281-660-8564 jmichelson@chevron.com

August 26, 2019

S3FO3-190828-C-1410

New Mexico Oil Conservation Division, District II 811 S. First St Artesia, NM 88210

Re: South Culebra Bluff 5B to Candelario 4" Polyline Release

Site Status Letter

NMOCD Case No. 2RP-4737 Eddy County, New Mexico

Dear whom it concerns,

Please find enclosed for your files, copies of the following report:

- South Culebra Bluff 5B to Candelario 4' Polyline Release August 15, 2019 Site Status Letter
- C-141 Site Assessment/Characterization and Remediation Plan Form

The Site Status Letter was prepared by Arcadis U.S., Inc. (Arcadis) on behalf of Chevron Environmental Management Company (CEMC). CEMC has prepared the C-141 Site Assessment/Characterization and Remediation Plan forms a Report to summarize the initial cleanup activities and follow up activities from the South Culebra Bluff 5B to Candelario 4' Polyline Release. CEMC is requesting NMOCD reviewal and comments on the previously submitted documents, respectfully. The C-141 form has been completed based on the NEPAssist database and information provided in previous documents. Please note field data, boring or excavation logs, and photographs including date and GIS information are not available. The C-141 form is included as Attachment 1.

Please do not hesitate to call Rebecca Andresen with Arcadis at 206-726-4717 or myself at 832-854-5601, should you have any questions.

Sincerely,

Jason Michelson

Juna Mila

Encl. South Culebra Bluff 5B to Candelario 4' Polyline Release - Site Status Letter

C-141 Site Assessment/Characterization and Remediation Plan Form

South Culebra Bluff 5B to Candelario 4' Polyline Release Form C-141

cc:. Brett Krehbiel, Arcadis



Mr. Rob Hamlet New Mexico Oil Conservation Division - District II Environmental Specialist 811 S. First St. Artesia, NM 88210

Arcadis U.S., Inc. 630 Plaza Drive Suite 100 Highlands Ranch Colorado 80129 Tel 720 344 3500 Fax 720 344 3535 www.arcadis.com

Subject:

Site Status Letter

South Culebra Bluff 5B to Candelario 4" Polyline Release NMOCD Case No. 2RP-2437 Eddy County, New Mexico

Dear Mr. Hamlet:

On behalf of Chevron Environmental Management Company (CEMC), Arcadis U.S., Inc. (Arcadis) prepared this Site Status Letter (Letter) for the South Culebra Bluff 5B to Candelario 4" Polyline Release (Site), located in Eddy County, New Mexico. The release was from a polyline running between South Culebra Bluff 5B and Candelario 24 #1 SWD Battery. Rockcliff Operating New Mexico LLC (Rockcliff), the previous owner of these wells, notified New Mexico Oil Conservation District (NMOCD), National Response Center, and the New Mexico Environmental Department of the release on April 30, 2018.

The purpose of the Report is to summarize initial cleanup activities and follow up actions from the release on April 26, 2018, and to request NMOCD review and comment on previously submitted documents. The C-141 form has been completed based on the NEPAssist database and information provided in previous documents. The Site Assessment/Characterization and Remediation Plan C-141 forms can be found as Attachment 1.

SITE DESCRIPTION AND BACKGROUND

The Site is located approximately 1.5 miles from Loving in Unit C, Section 24, Township 23S, Range 28E, Eddy County, New Mexico. The spill area is associated with the SCB 5B to Candelario 4" Polyline 2. The release site is located approximately 0.2 miles from the Pecos River, with an elevation of approximately 2951 feet above sea level. Depth to groundwater is approximately 17 feet at the Site.

ENVIRONMENTAL

Date:

August 27, 2019

Contact:

Rebecca Andresen

Phone:

206-726-4717

Email:

Rebecca.Andresen@arcadis .com

Our ref: 30006594

File information indicates that on April 26, 2018, a third party ran over the 4" polyline that transfers produced water from SCB #5B to the Candelario SWD #1 disposal well, which caused a failure in the line. The landowner, Mosaic Company (Mosaic), used clamps to pinch the polyline on both sides of the damaged area, but the clamps became disengaged over the weekend, causing a further release. Upon determining the ownership of the line, Mosaic notified Rockcliff on April 30, 2018.

The release ran from the polyline across Fisherman's Lane and split into two individual paths. One path flowed over the edge of the ravine to the northeast, briefly diverging and then merging before entering the river. The other path flowed down the south side of the road, downhill towards the low water crossing, eventually pooling between the forms of a currently active county roadworks project and spreading to the north where the majority of the release pooled.

According to the initial C-141 Form dated April 26, 2018, the release was approximately 720 bbls of produced water and approximately 7.2 bbls of crude oil (Attachment 2).

INITIAL RELEASE RESPONSE ACTIVITIES

According to the available file information, Sounder Miller and Associates (SMA), on behalf of Rockcliff, mobilized to the emergency response location to perform initial action. Talon LPE was contacted to place booms in the river to provide containment around the two points of entry as well as downstream (three total).

SMA worked with onsite teams to remove impacted material near the northern bank of the river and collected soil confirmation samples for laboratory analysis. Surface water samples were also collected for laboratory analysis (SMA, July 2018).

The Bureau of Land Management (BLM), the Army Corps of Engineers, the Interstate Stream Commission, and the New Mexico Department of Fish and Game visited the site to monitor first response efforts during April 30, 2018.

Between May 1 through 7, 2018, SMA monitored the removal of free-standing fluid and delineation of the release. Additional surface water samples were collected and SMA completed boom and berm inspections and a biological survey. No evidence of impacted wildlife was observed (SMA, July 2018). Additional soil samples were also collected for laboratory analysis.

Road improvements along Fisherman's Lane were ongoing at the time of the release. According to file information (SMA, July 2018), the area surrounding the road was excavated and backfilled with clean material for the safety of the public and the construction company onsite. On May 15, 2018 SMA met with Rockcliff, BLM, and Sedona for a status update. While on site, BLM gave verbal approval to pour concrete within the forms and continue road construction. Rockcliff obtained written correspondence from both the BLM and NMOCD stating they were in agreement with the county road construction project to continue work and concrete pouring activities.

Due to the varying geology of the area, a background sample was taken for each NRCS soil type represented in the release area in addition to the background samples collected relative to each group of samples.

These release response activities were described in the SMA Remediation Report dated July 4, 2018. This report included a proposed remediation plan involving hydro excavation and/or excavation of

remaining impacts. The work plan was conditionally approved by the BLM in email correspondence dated July 11, 2018. The SMA, July 2018 report can be located as Attachment 3.

JULY - AUGUST INVESTIGATIONS

In July 2018, SMA oversaw delineation and excavation efforts of the area surrounding the source. Soil samples were collected, and, after verbal approval from the BLM, the excavation was backfilled with clean material to restore the road and surrounding area to its previous contours (SMA, September 2018).

According to file information, SMA completed the hydro excavation as per the approved work plan in August 2018. SMA personnel and their contractors placed 50 feet of absorbent booms and re-established berms with clean soil around each work area ("cell") to prevent runoff into the river. A vacuum truck was placed at the lowest lying area of each boomed cell collecting fluid during hydro-excavating activities.

SMA treated a total of five cells with the hydro excavation and collected composite bedrock samples from each cell after hydro-excavation activities were complete. Due to the varying geology in the area, SMA compared each sample result to its associated background sample (SMA, September 2018). Most of the field samples collected on August 23 and August 24, 2018 after hydro excavation showed a decrease in chloride concentration since the initial action.

Chloride concentrations in three of the cells showed concentrations that are only slightly elevated from background in the area and the natural chloride concentration of the Pecos River. Chloride concentrations in one of the cells were above background but were 42% to 62% lower than the refusal samples collected prior to the hydro excavation. The chloride concentration for the fifth cell was elevated but was within the range of background for that soil type (SMA, September 2018). The SMA September 2018 can be located as Attachment 4.

CLOSING

SMA submitted two documents to document the release response and remediation efforts for this site in July 2018 and September 2018 (Attachments 3 and 4, respectively). A review of file information has not indicated a response from the BLM or NMOCD for the final report (SMA, September 2018). Chevron acquired the lease for these wells in October 2018. Accordingly, we are respectfully requesting a review and determination of the attached SMA reports. The Site Assessment/Characterization and Remediation Plan C-141 forms have been completed based on the NEPAssist database and information provided in previous documents. Please note field data, boring or excavation logs, and photographs including date and GIS information are not available.

Sincerely,

Arcadis U.S., Inc.

Rebecca Andresen Vice President

Copies

Jason Michelson, Chevron/CEMC

Attachments

- 1 C-141 Site Assessment/Characterization and Remediation Plan Forms
- 2 South Culebra Bluff 5B to Candelario 4' Polyline Release Form C-141
- 3 SMA July 2018 South Culebra Bluff 5B to Candelario 4' Polyline Release Report
- 4 SMA September 2018 South Culebra Bluff 5B to Candelario 4' Polyline Release Report

Form C-141 Page 3

State of New Mexico Oil Conservation Division

Incident ID	2RP-4737
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	(ft bgs)
Did this release impact groundwater or surface water?	X Yes No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	X 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 X 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 X 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 X No
Are the lateral extents of the release within 300 feet of a wetland?	Yes X No
Are the lateral extents of the release overlying a subsurface mine?	Yes X No
Are the lateral extents of the release overlying an unstable area such as karst geology?	Yes X No
Are the lateral extents of the release within a 100-year floodplain?	Yes X No
Did the release impact areas not on an exploration, development, production, or storage site?	X Yes No
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vercontamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	tical extents of soil
Characterization Report Checklist: Each of the following items must be included in the report.	
 ∑ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring well Field data * ∑ Data table of soil contaminant concentration data ∑ Depth to water determination ∑ Determination of water sources and significant watercourses within ½-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 	s.

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.

*Note field data, boring or excavation logs, and photographs including date and GIS information were not included with files available on the NMOCD site.

Form C-141 Page 4

State of New Mexico Oil Conservation Division

Incident ID	2RP-4737
District RP	
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the regulations all operators are required to report and/or file certain release not public health or the environment. The acceptance of a C-141 report by the Gailed to adequately investigate and remediate contamination that pose a threaddition, OCD acceptance of a C-141 report does not relieve the operator of and/or regulations.	fications and perform corrective actions for releases which may endanger DCD does not relieve the operator of liability should their operations have eat to groundwater, surface water, human health or the environment. In
Printed Name: Jason C. Michelson	Title: Project Manager: Upstream -East
Signature: Janu Milh	Date: 8/26/19
email: JMichelson@chevron.com	Telephone: 832-854-5601
OCD Only	
Received by:	Date:

Form C-141 Page 5

State of New Mexico Oil Conservation Division

Incident ID	2RP-4737
District RP	
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: Each of the following items must be	e included in the plan.							
Detailed description of proposed remediation technique Scaled sitemap with GPS coordinates showing delineation points Estimated volume of material to be remediated Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)								
Deferral Requests Only: Each of the following items must be co	nfirmed as part of any request for deferral of remediation.							
Contamination must be in areas immediately under or around p deconstruction.	roduction equipment where remediation could cause a major facility							
Extents of contamination must be fully delineated.								
Contamination does not cause an imminent risk to human healt	h, the environment, or groundwater.							
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.								
Printed Name: _Jason C. Michelson	Title: Project Manager: Upstream - East							
Signature: Junn Mill	Date: 8/26/19							
email: JMichelson@chevron.com	Telephone: 832-854-5601							
OCD Only								
Received by:	Date:							
Approved	Approval							
Signature:	<u>Date:</u>							

District 1
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 MAY 0 8 2018

Form C-141 Revised April 3, 2017

Oil Conservation Division

Submit 1 Copy to appropriate District Office in

1220 South St. Francis Dr.

Santa Fe, NM 87505

fAB\8\3055699 Release Notification and Corrective Action											
nAB18	1305	6113		#37	1115	OPERA	ГOR			al Report	
Name of Co	mpany: R	ockcliff Ope		w Mexico LLC	(Contact: Jol	n Turner				
Address: 1301 McKinney St, Suite 1300, Houston, TX 77010 Telephone No.: 903-643-3791 Facility Name: SCB 5B to Candelario 24-1 SWD 4" Polyline Facility Type: Produced Water Transfer Line											
South CULEBRA B 5B 4" POLYCINE											
Surface Ow	Surface Owner: The Mosaic Company Mineral Owner: BLM API No. NA										
	LOCATION OF RELEASE										
Unit Letter C	Section 24	Township 23s	Range 28e	Feet from the	North/S	South Line	Feet from the	East/V	Vest Line	County Eddy	
	Latitude 32.294911 Longitude -104.043545 NAD 83										
			Latiti			OF REL		(AD 83			
Type of Rele	ase: Produc	ced Saltwater/0	Dil			Volume of bbls, Oil ~	Release: PW ~72 7.2 bbls	20	Volume F	Recovered: ~ 385 bbls	
Source of Re	lease: 4" Pe	olyline – Produ	iced Wate	r Transfer Line		Date and F 4/26/18	lour of Occurrence	e:	Date and 4/30/18, (Hour of Discovery	
Was Immedi	ate Notice (Yes [No □ Not R	eauired	If YES, To	Whom? ther NMOCD & 1	National	kannan maritaran		
By Whom? J	ohn Turner				-4		lour: 4/30/18 085		- Troponso		
Was a Water		ched?		•	***************************************	If YES, Ve	olume Impacting	the Wate			
			Yes [Unknown	- but appears to b	e minin	nal		
Yes – Pecos the bluff, the	River. Point n flowed to	ward the river	vas approx	cimately 150 feet						ds first pooled at the bottom of	
Describe Cause of Problem and Remedial Action Taken.* On 4-26-18, it appears that a 3 rd party ran over the 4" polyline that transfers produced water from the SCB #5B CTB to the Candelario 24-1 SWD disposal well and caused a failure in the line. The 3 rd party notified The Mosaic Company, the landowner. The landowner responded to the notification believing it was one of their freshwater lines and used clamps to pinch the polyline on both sides of the damaged area to stop the release. Once the release was secured they left the jobsite for the weekend. Very little liquid was released at this time according to 3 rd Party. 3 rd Party returned to the job site on the morning of 4-30-18 and noticed the upstream clamp was gone and fluid was being released to the ground. 3 rd Party notified the landowner again and landowner responded. The landowner determined this was not their line and notified Rockcliff's emergency number of a polyline leaking produced water between the SCB #5B CTB and Candelario SWD and that the water was going in the Pecos River. Rockcliff called Souder Miller & Associates to respond to the spill for assessment, cleanup, and remediation.											
Initial emerg crews immed excavator wa	Describe Area Affected and Cleanup Action Taken.* Initial emergency actions began with the construction of a large earthen berm to hinder fluid movement. After an emergency one call cleared, dirt work crews immediately began excavation of impacted material nearest to the river and a vac truck was called to remove all standing fluid. In addition, a hydroexcavator was called to remove impacted caliche in the road construction area. Absorbent boom was deployed across the pooled area and downstream of the point of entry.										
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.											
Signature:	OIL CONSERVATION DIVISION										
Printed Nar	ie: John Tu	rner				Approved by	Environmental's	Speciali	St. P. J. S. P.	MALER	
		mental Specia	list			Approval Da	ate: 5 0 1 18		Expiration	Date: NIA	
E-mail Addı	ess: jturner	@rockcliffene	rgy.com			Conditions of	of Approval:	0.11	100	Attached 1262	
Date: 5-				903-475-1865			500 l	atta	onea	28-4737	
* Attach Add	itional She	eets If Neces	sarv								

Operator/Responsible Party,

The OCD has received the form C-141 you provided on <u>5/8/2018</u> regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number <u>4/3</u> has been assigned. **Please refer to this case number in all future correspondence.**

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

The responsible person shall complete <u>division-approved corrective action</u> for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC. [emphasis added]

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District 2 office in ARTESIA on or before 6/8/2018. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.

The goals of a characterization effort are: 1) determination of the lateral and vertical extents along with the magnitude of soil contamination. 2) determine if groundwater or surface waters have been impacted. 3) If groundwater or surface waters have been impacted, what are the extents and magnitude of that impact. 4) The characterization of any other adverse impacts that may have occurred (examples: impacts on vegetation, impacts on wildlife, air quality, loss of use of property, etc.). To meet these goals as quickly as possible, the following items must, at a minimum, be addressed in the release characterization workplan and subsequent reporting:

- Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.
- Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.
- Nominal detection limits for field and laboratory analyses must be provided.
- Composite sampling is not generally allowed.
- Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

for laboratory analysis from each borehole or test pit (highest observed contamination and deepest depth investigated). Copies of the actual laboratory results must be provided including chain of custody documentation.

- •Probable depth to shallowest protectable groundwater and lateral distance to nearest surface water. If there is an estimate of groundwater depth, the information used to arrive at that estimate must be provided. If there is a reasonable assumption that the depth to protectable water is 50 feet or less, the responsible party should anticipate the need for at least one groundwater monitoring well to be installed in the area of likely maximum contamination.
- If groundwater contamination is encountered, an additional investigation workplan may be required to determine the extents of that contamination. Groundwater and/or surface water samples, if any, must be analyzed by a competent laboratory for volatile organic hydrocarbons (typically Method 8260 full list), total dissolved solids, pH, major anions and cations including chloride and sulfate, dissolved iron, and dissolved manganese. The investigation workplan must provide the groundwater sampling method(s) and sample handling protocols. To the fullest extent possible, aqueous analyses must be undertaken using nominal method detection limits. As with the soil analyses, copies of the actual laboratory results must be provided including chain of custody documentation.
- Accurately scaled and well-drafted site maps must be provided providing the location of borings, test pits, monitoring wells, potentially impacted areas, and significant surface features including roads and site infrastructure that might limit either the release characterization or remedial efforts. Field sketches may be included in subsequent reporting, but should not be considered stand-alone documentation of the site's layout. Digital photographic documentation of the location and fieldwork is recommended, especially if unusual circumstances are encountered.

Nothing herein should be interpreted to preclude emergency response actions or to imply immediate remediation by removal cannot proceed as warranted. Nonetheless, characterization of impacts and confirmation of the effectiveness of remedial efforts must still be provided to the OCD before any release incident will be closed.

Jim Griswold
OCD Environmental Bureau Chief
1220 South St. Francis Drive
Santa Fe, New Mexico 87505
505-476-3465
jim.griswold@state.nm.us

Bratcher, Mike, EMNRD

From:

John Turner < John.Turner@Rockcliffenergy.com>

Sent:

Tuesday, May 8, 2018 4:25 PM

To:

Bratcher, Mike, EMNRD; Tucker, Shelly; Weaver, Crystal, EMNRD; Gregston, Terry;

Holcomb, Sarah, NMENV; Ellington, Brent, OSE

Cc:

Nick Koch; Mike Martin; Darrell Taylor; Brian Borque; Jamie Robinson; Greg McCain

Subject:

SCB 5B to Candelario 24-1 SWD 4" Polyline C-141 Release Notification - Rockcliff

Energy Operating New Mexico LLC

Attachments:

SCB_5B_to_Candelarie_Polyline_Release_NMOCD_C-141_5-8-18.pdf

Please find attached the initial Form C-141, Release Notification and Corrective Action, for the release that occurred on Rockcliff Operating New Mexico LLC's 4" produced water transfer polyline near Fishermans Lane discovered on April 30, 2018.

If you have any questions or concerns please do not hesitate to contact me.

Thank you,

John Turner
Rockcliff Energy, LLC
Sr. Environmental Specialist
342 Johnny Clark Rd
Longview, TX 75603
O: (903) 475-1865
C: (903) 261-4673
jturner@rockcliffenergy.com



July 4, 2018

#5E26934-BG5

NMOCD District 2 Mike Bratcher 811 South First Street Artesia, NM 88210

SUBJECT: REMEDIATION REPORT OF THE EMERGENCY RESPONSE ASSOCIATED WITH THE SCB 5B TO CANDELARIO 4" POLYLINE, EDDY COUNTY, NEW MEXICO

Dear Mr. Bratcher:

On behalf of Rockcliff Operating New Mexico LLC (Rockcliff), Souder, Miller & Associates (SMA) has prepared this report that describes the initial action, delineation and remediation for a release associated with the SCB 5B to Candelario 4" Polyline. The site is in SECTION 24, TOWNSHIP 23S, RANGE 28E, Eddy County, New Mexico, on private property. Figure 1 illustrates the vicinity and location of the site.

Table 1, below, summarizes information regarding the release.

Table 1: Release information and Site Ranking						
Name	SCB 5B to Candelario 4" Polyline					
Company	Rockcliff Operating New Mexico LLC					
Incident Number	nAB1813056113					
API Number	N/A					
Location	32.294911, -104.043545					
Estimated Date of Release	April 26, 2018 – April 29, 2018					
Date Reported to NMOCD	April 30, 2018					
Land Owner	Mosaic Potash					
Reported To	NM Oil Conservation Division (NMOCD)					
Source of Release	Produced Water Transfer Line					
Released Material	Produced Water & Crude Oil					
Released Volume	Approx. 720 bbls PW & Approx. 7.2 bbls Crude Oil					
Recovered Volume	Approx. 385 bbls					
Net Release	Approx. 342.2 bbls					
Nearest Waterway	Approximately 0.2 miles southwest of the Pecos River					
Depth to Groundwater	Less than 50 feet					
Nearest Domestic Water Source	Less than 1000 feet					
NMOCD Ranking	20					
SMA Response Dates	Initial: April 30 – May 4, May 7, May 15, 2018					

1.0 Background

On April 26, 2018, a third party, ran over the 4" polyline that transfers produced water from the SCB #5B CTB to the Candelario SWD #1 disposal well, which caused a failure in the line. The 3rd party notified the landowner, Mosaic Company. Mosaic responded to the notification believing it was one of their freshwater lines and used clamps to pinch the polyline on both sides of the damaged area. Once the line was secured, Mosaic left the jobsite for the weekend. A very small amount of liquid was released at this point. The original third party then returned to the job site on the morning of April 30, 2018 to find the upstream clamp that Mosaic placed was missing and fluid was being released in the surrounding area. The third party immediately notified Mosaic. Upon returning to the site, Mosaic determined that this was not one of their freshwater lines, but one of Rockcliff's produced water transfer lines. Mosaic notified Rockcliff on May 30th, 2018 via their emergency number that a polyline near Fisherman's Lane and the Candelario SWD #1 was releasing fluid and going into the Pecos River.

The release ran from the polyline across Fisherman's Lane and split into two individual paths. One path flowed over the edge of the ravine to the northeast, briefly diverging and then merging before entering the river. The other path flowed down the south side of the road, downhill towards the low water crossing, eventually pooling between the forms of a currently active county roadworks project and spreading to the north where the majority of the release pooled. Approximately 40,400 square feet of surface area was impacted including stockpiled rock and dirt to be used for Fisherman's Lane road construction project

2.0 Site Ranking and Land Jurisdiction

The release site is located approximately 0.2 miles from the Pecos River, with an elevation of approximately 2951 feet above sea level. After evaluation of the site using aerial photography and topographic maps, depth to groundwater is estimated to be less than 50 feet below ground surface (bgs). SMA searched the New Mexico State Engineers' Office's (NMOSE) database for water wells in the area and found 2 wells within 1000 feet, both with a depth to groundwater at 31 feet, and 102 wells within 3 miles of the site with an average depth to ground water at 40 feet.

Recommended Remediation Action Levels (RRALs) are determined by the site ranking according to the NMOCD *Guidelines for Remediation of Leaks, Spills, and Releases* (1993). Below in Table 2 are the remediation standards and the site ranking for this location. Justification for this site ranking is found in Figure 1 and Appendix B.

Table 2. Site Ranking

Soil Remediation Standards	0 to 9	10 to 19	>19
Benzene	10 PPM	10 PPM	10 PPM
ВТЕХ	50 PPM	50 PPM	50 PPM
ТРН	5000 PPM	1000 PPM	100 PPM

Depth to Groundwater	NMOCD Numeric Rank
< 50 BGS = 20	20
50' to 99' = 10	
>100' = 0	
Distance to Nearest Surface Water	NMOCD Numeric Rank
< 200' = 20	20
200' - 1000' = 10	
>1000' = 0	
Well Head Protection	NMOCD Numeric Rank
<1000' (or <200' domestic) = 20	20
> 1000' = 0	
Total Site Ranking	20

3.0 Initial Action & Release Characterization

On April 30, 2018, SMA received a phone call from Rockcliff at approximately 8:44 AM reporting the release and requesting an emergency response to be initiated. SMA field personnel mobilized to the emergency response location to perform initial action. Rockcliff notified the NMOCD at 8:53 am and the National Response Center at 9:35 am. En route, an emergency one call was placed, and Talon LPE was contacted to place booms in the river to provide containment around the two points of entry as well as downstream (3 total). SMA personnel were met onsite by our sub-contractor C&M Services, representatives from Mosaic (landowners), Rockcliff, Eddy County, Pettigrew Engineering & Sedona (engineers and contractors completing a roadworks project on the low water crossing, whose site had now been compromised). At this time, berms had been placed around the banks of the river and hydro excavators and vacuum trucks were mobilized to remove the freestanding fluid. After assessing the release area, SMA personnel began to guide the removal of impacted material near the northern bank of the river. Soil samples were field screened with an electrical conductivity meter (EC) and a PID to characterize and delineate the area (L1-L9). In most cases, the equipment reached refusal at 0.5-feet or 1-foot and material was removed to bedrock. Water samples were collected from the river at the two established points of entry (POE 1 & POE 2 on Figure 2), 150 meters upstream and 150 meters downstream (4 locations in total). Water samples at these locations continued to be collected until three days of consistently clean results were returned. The location was secured, and SMA completed boom and berm inspections, with the river being the priority of all parties involved. The Bureau of Land Management (BLM), the Army Corps of Engineers, the Interstate Stream Commission, and the New Mexico Department of Fish and Game visited the site throughout the afternoon to monitor first response efforts. The only request was by New Mexico Department of Fish and Game to complete a biological survey at least 700 feet downstream of the point of entry.

On May 1, 2018, SMA returned to the location to continue oversite of the removal of free standing fluid and delineation of the release. Water samples were collected, and the booms and berms were inspected. SMA personnel completed a biological survey from the low water crossing approximately 0.5

miles downstream as requested by New Mexico's Department of Fish and Game. A large assortment of local wildlife was witnessed, with no evidence of impacted wildlife.

Sample points on either side of the construction forms in the portion of the road just south of the bridge were established to assess possible deferment (SW1 – SW30). Sample points were also established in the now-vacuumed pooling areas (L10-L14). Soil samples were field screened with an EC meter and a PID and results recorded.

On May 2, 2018, SMA arrived onsite and collected water samples from the four sample locations and performed a boom and berm inspection. The integrity of both were in good shape and there seemed to be no buildup or accumulation of oil. There was also a very lively presence of wildlife in the area.

SMA completed a delineation and excavation of impacted soil on the sloping road that leads down to the low-river crossing. The excavation was guided using an EC meter and a PID. Sample points HSW1-HSW16 and HSW18 were established on the north and south side of release path to represent the horizonal delineation of the impact (placed every 30 feet). Further delineation could not be completed on the south side of the road as it was bound by an underground pipeline. Sample points HBH1-HBH11 represent the vertical extent. Each bottom hole sample was delineated to refusal (0.5 feet to 3 feet). In the cases where field screens showed the material just before the bedrock were above RRAL's, rock samples were taken. Due to this being a relatively high traffic area the road was excavated and then backfilled with clean material for the safety of the public and the construction company onsite.

While the delineation and excavation of this part of the road was ongoing, removal of the remaining standing fluid was completed. Approximately 385 bbls of recovered fluid was collected and disposed of at R360s Red Bluff Facility. Impacted soil and riprap continued to be stock piled on liners and hauled off to disposal at Lea Land, LLC's Carlsbad, NM disposal facility

On May 3, 2018, SMA met Mosaic onsite to update them on the progress of the response. Water samples were again collected, and a boom and berm inspection was completed. The berm just south of POE #2 was reinforced and contamination was scraped from the bottom and removed. Refusal rock samples were collected from sample locations L1-L9.

As the river was now secure, SMA delineated around the source of the release at the top of the hill. Samples points S1 through S4 were established, with S1 representing the source. Each sample location was delineated to 2 feet or to refusal, whichever came first.

On May 4 2018, SMA personnel was met onsite by Pettigrew Engineering. Drone images were taken by Pettigrew while SMA collected water samples and began the extensive mapping of all equipment, infrastructure and pipelines. A complete site analysis was completed of the release location and the banks on either side of the river. There were no observations noted of negative impacts to wildlife and the booms and berms were stable.

Later that evening, SMA received a call from Rockcliff, requesting the boom to be repaired as BLM was onsite and noted a breach in one of the booms had occurred. Mosaics lay flat line that crossed the river had become active and expanded under the boom, causing a small section of the boom to lift up. SMA mobilized to the location to place the boom further downstream away from the line. Upon arrival, SMA personnel found a leak in Mosaic's lay flat line that was discharging into the river. This release was documented, and Mosaic was contacted.

On May 7[,] 2018, after reviewing the laboratory analysis that had been completed, SMA returned to the location. Water samples were collected, and a full boom and berm inspection was completed. Talon LPE was dispatched to the site to replace the booms, as there was silt buildup on them. Later that morning, Mosaic arrived onsite to repair the lay flat line that had failed.

SMA returned to the location on May 15, 2018 to meet with Rockcliff's Sr. Environmental Specialist and the BLM. Sedona was also present for the meeting to address the now paused roadworks project. BLM Agent Terry Gregston was shown all sample and background locations, was briefed on the work done and inspected the booms and berms. While on site, the BLM gave verbal approval to pour concrete within the forms and continue road construction for the time being. Rockcliff obtained written correspondence from both the BLM and NMOCD stating they were in agreement with the county road construction project to continue and concrete could be poured.

All samples were collected and processed according to NMOCD soil sampling procedures. Due to the varying geology of the area, a background sample was taken for each NRCS soil type represented in the release area in addition to the background samples collected relative to each group of samples. The samples were sent under chain-of-custody protocols to Hall Environmental Analysis Laboratory for analysis for BTEX by EPA Method 8021, TPH EPA Method 418.1 and chlorides EPA Method 300.0. Sample locations are depicted on Figure 2. All laboratory results are summarized in Table 3. Laboratory reports are included in Appendix C.

4.0 Soil Remediation Proposal

The release ran from the polyline across Fisherman's Lane and split into two individual paths. One path flowed over the edge of the ravine to the northeast, briefly diverging and then merging before entering the river. This first path is represented by the collection of sample sites L1-L9. The sample points collected on this northeast path are of the removed and disposed of soil and not of the conglomerated rock material that remains today.

Approximately 40,400 square feet of surface area and a large amount of construction materials were impacted. During the initial response, a large amount of the release was excavated and disposed of at an NMOCD approved facility. After reviewing the laboratory analysis, SMA found that the initial actions taken removed the bulk of hydrocarbon and brine affected material.

SMA proposes that a hydro excavation be performed to wash the northeast flow path. The area will need to be bermed with clean soil to prevent any accidental flow into the river. Also, SMA and its subcontractors will use absorbent booms to surround the work area and will make all reasonable attempts to collect any wash fluid with the berms, boom and vacuum trucks. All collected fluid will be disposed of in a Class 2 injection well in accordance with NMOCD guidance for RCRA exempt material. To comply with NMOCD regulations, SMA will use fresh water (as defined by NMAC 20.6.2.3103 and NMOCD Fresh Water Stations Memo 8/08) and will collect water quality data from the source.

The other path flowed down the south side of the road, downhill towards the low water crossing, eventually pooling between the forms of a currently active county roadworks project represented by sample locations SW1-SW30.

SMA proposes that the affected soil on and around the concreate forms should be removed and disposed of after the completion of the road construction activities, represented by SW3, SW5, SW7,

SW9, SW15, SW27, SW17, SW29, and SW30. After concrete has set, SMA plans further confirmation sampling to establish horizontal delineation at those locations.

Rockcliff requested deferral for the sample locations on the interior of the road (SW2, SW4, SW6, SW8, SW10, SW12, SW14) due to reaching conglomerate rock material on the bottom and after the county poured concrete the impacted area would be encapsulated by concrete on top and on either side and conglomerate rock on the bottom. The requested deferral was reviewed and approved in the field by BLM and later by the NMOCD (see attached emails in Appendix D). The deferral allowed the county to continue with their project and not have to remove the rebar and concrete forms at a significant expense for a minimal amount of impacted area.

The source of the release, where the poly-pipe was struck by equipment, is represented by samples S1-S4, and the start of the second flow path represented by HSW1-HSW14. SMA proposes a guided excavation of the area surrounding the source and the path along the southern boundary of the road. Several of the sidewall samples from the previously initial action returned clean samples but locations S1, HSW10, HSW14, and HSW16 require further excavation and horizontal delineation. All the bottom hole samples collected in the source and second flow path are the excavated and disposed of soil that sat directly upon the conglomerate rock material that was so pervasive on this site. Sample locations S2, S3, S4 and HBH1- HBH10 are all discrete samples collected from the soil removed from off the conglomerated "bedrock" as defined by (NRCS soil survey Eddy County 1974).

5.0 Scope and Limitations

The scope of our services consisted of the performance of assessment sampling, verification of release stabilization, regulatory liaison, and preparation of this work plan. All work has been performed in accordance with generally accepted professional environmental consulting practices for oil and gas releases in the Permian Basin in New Mexico.

If there are any questions regarding this report, please contact either Austin Weyant at 575-689-8801 or Shawna Chubbuck at (970) 565-4465 x1504.

Submitted by: SOUDER, MILLER & ASSOCIATES

/ Austr Wermant

Austin Weyant

Project Scientist

Reviewed by:

Shawna Chubbuck Senior Scientist

Shawna Chubbuck

ATTACHMENTS:

Figures:

Figure 1: Vicinity and Well Head Protection Map

Figure 2: Site and Sample Location Map

Tables:

Table 3: Summary of Sample Results

Appendices:

Appendix A: Form C141

Appendix B: NMOSE Wells Report

Appendix C: Laboratory Analytical Reports

Appendix D: Correspondence

FIGURE 1 VICINITY AND NMOSE DATA MAP

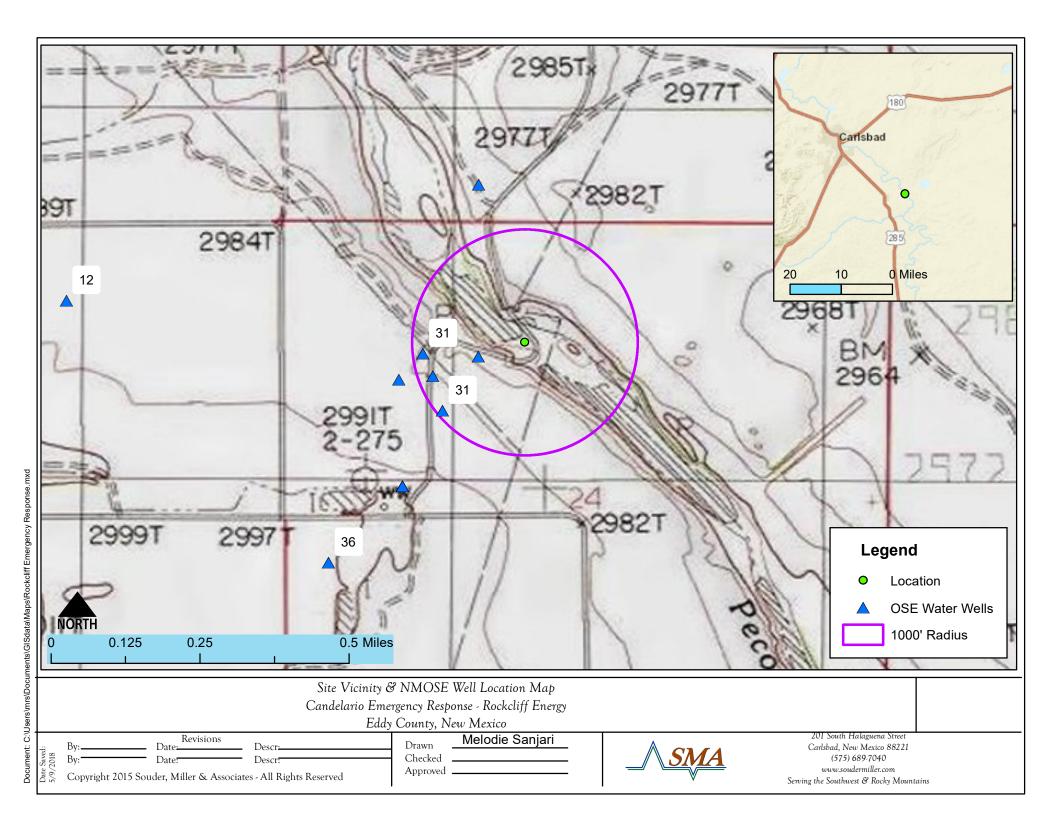


FIGURE 2 SITE AND SAMPLE LOCATION MAPS

Eddy County, New Mexico Melodie Sanjari

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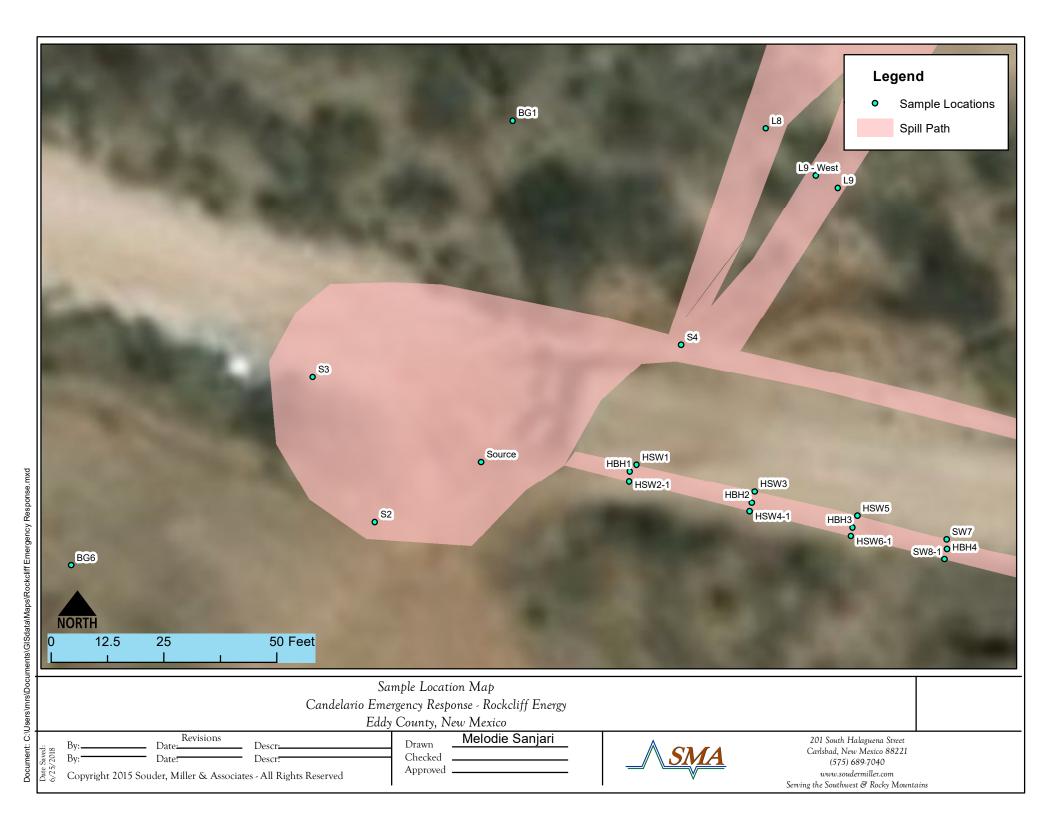
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Document: C:\Users\mrs\Documents\GISdata\Maps\Rockcliff Emergency Response.mxd



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TABLE 3 SUMMARY SAMPLE RESULTS

Candelario Emergency Response Sample Summary Table

Sample Number on Figure 2	Sample Date	BTEX	Benzene	GRO	DRO	MRO	Total TPH	TDS	CI-
Sample Number on Figure 2	Sample Date	μg/L	μg/L	mg/L	mg/L	mg/L	mg/L	mg/L	Lab mg/L
NMOCD RRAL's for Site Ranking 20			0.01 mg/l (10 μg/L)						
	4/30/2018	<4.5	<1.0	<0.050	<1.0	<5.0	<6.05		1300
	5/1/2018	1		-	-			1	-
Upstream	5/2/2018	<4.5	<1.0	<0.050	<1.0	<5.0	<6.05	4720	1200
Opstream	5/3/2018	<4.5	<1.0	<0.050	<1.0	<5.0	<6.05	4990	1100
	5/4/2018	<4.5	<1.0	<0.050	<1.0	<5.0	<6.05	4770	1300
	5/7/2018	<4.5	<1.0	<0.050	<1.0	<5.0	<6.05	4980	1400
	4/30/2018	<4.5	<1.0	<0.050	<1.0	<5.0	<6.05	4770	1400
	5/1/2018	<4.5	<1.0	<0.050	<1.0	<5.0	<6.05		1300
Downstream	5/2/2018	<4.5	<1.0	<0.050	<1.0	<5.0	<6.05	4760	1200
Downstream	5/3/2018	<4.5	<1.0	<0.050	<1.0	<5.0	<6.05	4740	1400
	5/4/2018	<4.5	<1.0	<0.050	<1.0	<5.0	<6.05	4630	1300
	5/7/2018							4610	1300
	4/30/2018	<4.5	<1.0	<0.050	<1.0	<5.0	<6.05	4770	1300
	5/1/2018 (8am)	<4.5	<1.0	<0.050	<1.0	<5.0	<6.05		1100
	5/1/2018 (5pm)	<4.5	<1.0	<0.050	<1.0	<5.0	<6.05		1200
POE #1	5/2/2018	<4.5	<1.0	<0.050	<1.0	<5.0	<6.05	4700	1200
	5/3/2018	<4.5	<1.0	<0.050	<1.0	<5.0	<6.05	4770	1200
	5/4/2018	<4.5	<1.0	<0.050	<1.0	<5.0	<6.05	4600	1300
	5/7/2018	<4.5	<1.0	<0.050	<1.0	<5.0	<6.05	4610	1200
	4/30/2018	<4.5	<1.0	< 0.050	<1.0	<5.0	<6.05	4830	1300
	5/1/2018	<4.5	<1.0	<0.050	<1.0	<5.0	<6.05		1200
DOL #3	5/2/2018	<4.5	<1.0	<0.050	<1.0	<5.0	<6.05	4770	1200
POE #2	5/3/2018	<4.5	<1.0	<0.050	<1.0	<5.0	<6.05	4700	1200
	5/4/2018	<4.5	<1.0	<0.050	<1.0	<5.0	<6.05	4520	1200
	5/7/2018							4580	1200

excavated

-- = Not Analyzed

exceeds RRAL's

Candelario Emergency Response Sample Summary Table

Sample Number on	0	Doroth /f	0	BTEX	Benzene	GRO	DRO	MRO	Total TPH	CI-	Call Town
Figure 2	Sample Date	Depth (feet bgs)	Completed Action	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	Lab mg/Kg	Soil Type
	NMOCD RRAL's	for Site Ranking of 20		50 mg/Kg	10 mg/Kg				100 mg/Kg		
L1	5/3/2018	0.5	excavated	<0.217	<0.024	<4.8	<9.4	<47	<61.2	850	
L2	5/3/2018	1.5	excavated	<0.216	<0.024	<4.8	<9.6	<48	<62.4	320	
L3	4/30/2018	1	excavated	<0.221	<0.025	<4.9	41	<47	41	6500	
L4	5/3/2018	1	excavated	<0.224	<0.025	<5.0	<9.4	<47	<61.4	19000	
L5	4/30/2018	1	excavated	<0.210	<0.023	5.9	69	<49	74.9	72000	
L6	5/3/2018	1	excavated	<0.219	<0.024	<4.9	<9.1	<45	<59	1600	
L7	5/3/2018	0.5	excavated	<0.213	<0.024	<4.7	15	<48	15	4200	
L8	5/3/2018	0.5	excavated	<0.219	<0.024	<4.9	<10	<50	<64.9	160	
L9	4/30/2018	0.5	excavated	<0.221	0.025	<4.9	<9.5	<47	<61.4	5400	1
L9 West	5/3/2018	0.5	excavated	<0.225	<0.025	<5.0	<9.0	<45	<59	8000	
L10	5/1/2018	2	excavated	<0.207	<0.023	<4.6	<9.6	<48	<62.2	16000	
LIU	5/1/2018	3	excavated	<0.179	<0.020	<4.0	<9.8	<49	<62.8	4900	
111	5/1/2018	1	excavated	<0.215	0.024	12	130	<47	132	27000	
L11	5/1/2018	2	excavated	<0.143	<0.016	<3.2	23	<47	23	3800	
112	5/1/2018	1	excavated	<0.21	<0.023	<4.7	<9.6	<48	<62.3	16000	
L12	5/1/2018	2	excavated	<0.145	<0.016	<3.2	<9.0	<45	<57.2	8800	
113	5/3/2018	1	excavated	<0.22	<0.024	<4.9	240	1000	1240	2000	
L13	5/1/2018	2	excavated	<0.180	<0.020	<4.0	<9.3	<47	<60.3	5800	1
BG1	4/30/2018	background								9800	Arno-Harkey Complex (sandy)
BG2	5/3/2018	background			-	-				1100	Arno-Harkey Complex
SW1	5/1/2018	sidewall	deferral	<0.156	< 0.017	<3.5	<9.8	<49	<62.3	890	
SW2	5/1/2018	sidewall	deferral	<0.206	<0.023	<4.6	62	68	130	4700	
SW3	5/1/2018	sidewall	deferral	<0.222	<0.025	<4.9	42	<50	42	460	
SW4	5/1/2018	sidewall	deferral	< 0.153	< 0.017	11	520	370	901	5200	
SW5	5/1/2018	sidewall	deferral	<0.157	< 0.017	<3.5	840	630	1470	1200	1
SW6	5/1/2018	sidewall	deferral	<0.211	<0.023	<4.7	<9.3	<46	<60	2100	
SW7	5/1/2018	sidewall	deferral	<0.156	< 0.017	<3.5	<9.8	<49	<62.3	840	
SW8	5/1/2018	sidewall	deferral	<0.213	<0.024	<4.7	26	<50	26	1300	
SW9	5/1/2018	sidewall	deferral	<0.217	<0.024	<4.8	<10	<50	<64.8	1100	
SW10	5/1/2018	sidewall	deferral	<0.207	<0.023	<4.6	<9.9	<50	<64.5	1100	
SW11	5/1/2018	sidewall	deferral	<0.148	<0.016	<3.3	<8.9	<45	<57.2	420	
SW12	5/1/2018	sidewall	deferral	<0.21	<0.023	<4.7	74	88	162	1200	
SW13	5/1/2018	sidewall	excavated	VU.Z1	₹0.023	V4.7	74	00	102	1200	
SW14	5/1/2018			∠0 211	<0.022	<4.7	26	70	105	1700	
		sidewall	excavated	<0.211	<0.023	\4. /	26	79	105	1/00	ł
SW15	5/1/2018	sidewall	excavated	40 34 C	40.024	-4.0	-10	4F0	4C4.0	10000	
SW16	5/1/2018	sidewall	excavated	<0.216	<0.024	<4.8	<10	<50	<64.8	19000	
SW17	5/1/2018	sidewall	excavated	<0.207	<0.023	<4.6	<9.5	<47	<61.1	7700	
SW18	5/1/2018	sidewall	excavated								
SW19	5/1/2018	sidewall	excavated		.0.00=		4.55	4.00	222	2022	ł
SW20	5/1/2018	sidewall	excavated	<0.224	<0.025	<5.0	160	160	320	3900	l
SW21	5/1/2018	sidewall	excavated								
SW22	5/1/2018	sidewall	deferral	<0.216	<0.024	<4.8	54	80	134	1000	
SW23	5/1/2018	sidewall	deferral	<0.172	<0.019	<3.8	<9.9	<49	<62.7	760	
SW24	5/1/2018	sidewall	deferral	<0.219	<0.024	<4.9	71	89	160	220	
SW25	5/1/2018	sidewall	deferral	<0.158	<0.018	<3.5	12	<48	12	630	
SW26	5/1/2018	sidewall	deferral	<0.224	<0.025	<5.0	<10	<50	<65	920	
SW27	5/1/2018	sidewall	excavated								
SW28	5/1/2018	sidewall	excavated								
SW29	5/1/2018	sidewall	excavated								
SW30	5/1/2018	sidewall	excavated							1100	1
BG3	5/3/2018	background								<30	Arno-Harkey Complex
BG5	5/3/2018	background								4300	Rocky Riverbed Complex

Sample Number on Figure 2	Sample Date	Depth (feet bgs)	Completed Action	BTEX	Benzene	GRO	DRO	MRO	Total TPH	CI-	Soil Type
7.1gu.0 2	NIMOOD DDALL	(0); D I; (00		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	Lab mg/Kg	
		for Site Ranking of 20		50 mg/Kg	10 mg/Kg		4.0		100 mg/Kg	242	
HSW1	5/2/2018	sidewall	excavated	<0.225	<0.025	<5.0	<10	<50	<65.0	840	
HSW2-1	5/2/2018	sidewall	excavated	<0.219	<0.024	<4.9	<9.8	<49	<63.7	80	
HBH1	5/2/2018	2.5	excavated	<0.21	<0.023	<4.7	<9.9	<49	<63.6	11000	
HSW3	5/2/2018	sidewall	excavated	<0.22	<0.024	<4.9	<9.4	<47	<61.3	1100	
HSW4-1	5/2/2018	sidewall	excavated	<0.215	<0.024	<4.8	<9.7	<48	<62.5	720	
HBH2	5/2/2018	2	excavated							6700	
HSW5	5/2/2018	sidewall	excavated	<0.211	<0.023	<4.7	<10	<50	<64.7	880	
HSW6-1	5/2/2018	sidewall	excavated	<0.207	<0.023	<4.6	<9.6	<48	<62.2	280	
HBH3	5/2/2018	2	excavated							2000	
HSW7	5/2/2018	sidewall	excavated	<0.22	<0.024	<4.9	<9.9	<50	<64.8	340	
HSW8-1	5/2/2018	sidewall	excavated	<0.216	<0.024	<4.8	<9.6	<48	<62.4	510	
HBH4	5/2/2018	3	excavated	<0.215	<0.024	<4.8	<9.2	<46	<60.0	7900	
HSW9	5/2/2018	sidewall	excavated	<0.215	<0.024	<4.8	<9.5	<47	<61.3	210	
HSW10-1	5/2/2108	sidewall	excavated	<0.207	<0.023	<4.6	<9.9	<49	<63.5	98	
HBH5	5/2/2018	3	excavated	<0.211	<0.023	<4.7	<7.8	<39	<51.5	3400	
HSW11	5/2/2018	sidewall	excavated	<0.217	<0.024	<4.8	<9.5	<48	<62.3	310	1
HSW12	5/2/2018	sidewall	excavated	<0.224	<0.025	<5.0	<9.8	<49	<63.8	700	1
НВН6	5/2/2018	3.5	excavated	<0.22	<0.024	<4.9	<9.9	<50	<64.8	490	1
HSW13	5/2/2018	sidewall	excavated	<0.216	<0.024	<4.8	<9.7	<48	<62.5	280	1
HSW14	5/2/2018	sidewall	excavated	<0.217	<0.024	<4.8	<9.5	<48	<62.3	1200	1
НВН7	5/2/2018	2.5	excavated	<0.219	<0.024	<4.9	<9.5	<47	<61.4	210	1
	5/2/2018	3	excavated	<0.215	<0.024	<4.8	<9.4	<47	<61.2	790	1
HSW16	5/2/2018	sidewall	excavated	<0.217	<0.024	<4.8	<9.8	<49	<63.6	1600	1
HBH8	5/2/2018	2	excavated							3400	1
HSW18	5/2/2018	sidewall	excavated	<0.22	<0.024	<4.9	<9.4	<47	<61.3	1100	1
НВН9	5/2/2018	2.5	excavated	<0.219	<0.024	<4.9	<9.5	<48	<62.4	910	1
HBH10	5/2/2018	0.5	excavated							170	1
		1	excavated							5200	
HBH11	5/2/2018	1.5	excavated							450	Anthony Sand
BG4	5/3/2018	background								250	Loam
											-
S1 (Source)		0.5	to be excavated	<0.212	<0.024	<4.7	<9.9	<49	<63.6	19000	
	5/7/2018	1	to be excavated							24000	
		2	to be excavated							7600	
S2	5/7/2018	0.5	to be excavated	<0.224	<0.025	<5.0	<10	<50	<65.0	3800	1
		1	to be excavated							230	1
		2	to be excavated							1100	1
S3	5/7/2018	0.5	to be excavated	<0.221	<0.025	<4.9	22	<49	22	9900	1
		1	in-situ							260	
		2	in-situ							35	
S4	5/3/2018	2.5	to be excavated	<0.217	<0.024	<4.8	<9.4	<47	<61.2	2200	Harkey Very Fi
BG6	5/7/2018	background		<0.217	<0.024 	<4.0 	<9.4 		<01.2 	<30	Sandy Loam

excavated

-- = Not Analyzed

exceeds RRAL's

APPENDIX A FORM C141

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

State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised April 3, 2017 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

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

			Rele	ease Notific	catio	n and Co	orrective A	ction	1					
						OPERA'	al Report		Final Repor					
Name of Company: Rockcliff Operating New Mexico LLC						Contact: John Turner								
Address: 1301 McKinney St, Suite 1300, Houston, TX 77010 Facility Name: SCB 5B to Candelario 24-1 SWD 4" Polyline						Telephone No.: 903-643-3791								
Facility Na	me : SCB :	5B to Candel	ario 24-1	SWD 4" Polyl	ine	Facility Type: Produced Water Transfer Line								
Surface Owner: The Mosaic Company Mineral Owner						r: BLM API No. NA								
				LOCA	ATIO	N OF RE	LEASE							
TT 'T O						th/South Line Feet from				West Line County				
С										Eddy				
			Latit	ude <u>32.29491</u>	1_ Lo	ongitudel	104.043545 N	IAD 83	3					
				NAT	TURE	OF REL	EASE							
		ed Saltwater/C			Volume of bbls, Oil ~	Recovered: ~	ecovered: ~ 385 bbls							
Source of Re	lease: 4" Po	olyline – Produ	iced Wate	r Transfer Line		Date and Hour of Occurrence: Date and				Hour of Discovery				
Was Immedi	ate Notice (Given?				4/26/18 If YES, To	0823hrs							
			Yes	No Not R	equired		cher NMOCD & N	Vationa	l Response	Center				
By Whom? J							Iour: 4/30/18 0853			W.				
Was a Water	course Reac					If YES, Vo	olume Impacting t	he Wate						
		\boxtimes	Yes	No		Unknown -	- but appears to be	e minin	nal					
Yes – Pecos the bluff, the	River. Poin flowed to	ward the river.	as approx	imately 150 feet			west side of the b							
according to to the ground emergency n Rockcliff cal	area to si 3 rd Party. 3 l. 3 rd Party i umber of a pled Souder	top the release rd Party return notified the lan polyline leakir Miller & Asso	ed to the judowner and produce ciates to r	e release was sec ob site on the mo gain and landown ed water between espond to the spil	ured the orning of ner responders	ey left the jobs f 4-30-18 and onded. The la B #5B CTB ar	reshwater lines an tite for the weeker noticed the upstre andowner determin and Candelario SW nup, and remedia	nd. Ver eam clar ned this	y little liqui np was gon	d was release e and fluid w	ed at the as being of the desired	nis time ng released		
Initial emerg crews immed excavator wa the point of e	ency actions liately begar s called to r ntry.	n excavation of temove impact	ne constru f impacted ed caliche	ction of a large earl d material nearest in the road cons	t to the r truction	river and a vac area. Absorbe	fluid movement. c truck was called ent boom was dep	to remo	ove all stand cross the po	ling fluid. In ooled area and	additi d down	ion, a hydro- nstream of		
public health should their or or the environ	or the environment. In a	are required to comment. The ave failed to a	report an acceptance dequately CD accep	d/or file certain r e of a C-141 repo investigate and r	elease nort by the emediat	otifications ar e NMOCD ma e contamination	knowledge and und perform correct arked as "Final Roon that pose a three the operator of r	tive act	ions for rele loes not reli	eases which neve the opera	nay end	danger liability		
Signature:	(al	u hum			OIL CONSERVATION DIVISION									
Printed Name	: John Turn	ner			Approved by Environmental Specialist:									
Title: Field S	r. Environm	ental Specialis	st			Approval Date:			Expiration Date:					
	E-mail Address: jturner@rockcliffenergy.com					Conditions of Approval:				Attached				
Date: 5-8 Attach Addit	ional Shaa	ets If Nagassa	Phone: 9	03-475-1865										
VVWVII / IUUI	TOTIGE DIE	IN II INCOME	LI V											

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)

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

	,	• •			•			•	·
	POD								
	Sub-	QQQ)				D	epth Dep	th Water
POD Number	Code basin Cou	nty 64 16 4	Sec Tws	Rng	X	Υ	Distance	Well Wat	er Column
C 03965 POD5	CUB E	0 4 1 1	24 23S	28E 58	35° 35°	73534 🌍	236	35	31 4
C 03965 POD4	CUB E	0 14	24 23\$	28E 58	35° 35°	73381 🌑	286	40 3	31 9

Average Depth to Water: 31 feet

Minimum Depth: 31 feet

Maximum Depth: 31 feet

Record Count: 2

Basin/County Search:

Basin: Carlsbad

UTMNAD83 Radius Search (in meters):

Easting (X): 590088.37 **Northing (Y):** 3573611.93 **Radius:** 305

APPENDIX C LABORATORY ANALYTICAL REPORTS



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

May 07, 2018

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

FAX

RE: Candelario Emergency OrderNo.: 1805096

Dear Austin Weyant:

Hall Environmental Analysis Laboratory received 4 sample(s) on 5/2/2018 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to 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 #NM0190

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order **1805096**Date Reported: **5/7/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: L3-1

 Project:
 Candelario Emergency
 Collection Date: 4/30/2018 2:30:00 PM

 Lab ID:
 1805096-001
 Matrix: SOIL
 Received Date: 5/2/2018 9:20:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: MRA
Chloride	6500	300	mg/Kg	200	5/4/2018 12:18:56 PM	37926
EPA METHOD 8015M/D: DIESEL RAN				Analyst	: TOM	
Diesel Range Organics (DRO)	41	9.5	mg/Kg	1	5/3/2018 3:08:35 PM	37913
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	5/3/2018 3:08:35 PM	37913
Surr: DNOP	78.8	70-130	%Rec	1	5/3/2018 3:08:35 PM	37913
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/3/2018 11:05:47 AM	37917
Surr: BFB	92.9	15-316	%Rec	1	5/3/2018 11:05:47 AM	37917
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.025	mg/Kg	1	5/3/2018 11:05:47 AM	37917
Toluene	ND	0.049	mg/Kg	1	5/3/2018 11:05:47 AM	37917
Ethylbenzene	ND	0.049	mg/Kg	1	5/3/2018 11:05:47 AM	37917
Xylenes, Total	ND	0.098	mg/Kg	1	5/3/2018 11:05:47 AM	37917
Surr: 4-Bromofluorobenzene	103	80-120	%Rec	1	5/3/2018 11:05:47 AM	37917

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 1 of 8
	ND Not Detected at the Reporting Limit		P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Lab Order **1805096**Date Reported: **5/7/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: L5

Project:Candelario EmergencyCollection Date: 4/30/2018 2:50:00 PMLab ID:1805096-002Matrix: SOILReceived Date: 5/2/2018 9:20:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: MRA
Chloride	72000	3000	mg/Kg	2E	5/4/2018 12:31:20 PM	37926
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS	;			Analyst	:: ТОМ
Diesel Range Organics (DRO)	69	9.9	mg/Kg	1	5/3/2018 3:32:12 PM	37913
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	5/3/2018 3:32:12 PM	37913
Surr: DNOP	83.1	70-130	%Rec	1	5/3/2018 3:32:12 PM	37913
EPA METHOD 8015D: GASOLINE RAN	GE				Analyst	:: NSB
Gasoline Range Organics (GRO)	5.9	4.7	mg/Kg	1	5/3/2018 11:29:00 AM	37917
Surr: BFB	103	15-316	%Rec	1	5/3/2018 11:29:00 AM	37917
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.023	mg/Kg	1	5/3/2018 11:29:00 AM	37917
Toluene	ND	0.047	mg/Kg	1	5/3/2018 11:29:00 AM	37917
Ethylbenzene	ND	0.047	mg/Kg	1	5/3/2018 11:29:00 AM	37917
Xylenes, Total	ND	0.093	mg/Kg	1	5/3/2018 11:29:00 AM	37917
Surr: 4-Bromofluorobenzene	103	80-120	%Rec	1	5/3/2018 11:29:00 AM	37917

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 2 of 8
	ND Not Detected at the Reporting Limit		P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Lab Order **1805096**Date Reported: **5/7/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: L9

Project:Candelario EmergencyCollection Date: 4/30/2018 4:45:00 PMLab ID:1805096-003Matrix: SOILReceived Date: 5/2/2018 9:20:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: MRA
Chloride	5400	300	mg/Kg	200	5/4/2018 12:43:45 PM	37926
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS	;			Analyst	: TOM
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	5/3/2018 3:56:01 PM	37913
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	5/3/2018 3:56:01 PM	37913
Surr: DNOP	81.5	70-130	%Rec	1	5/3/2018 3:56:01 PM	37913
EPA METHOD 8015D: GASOLINE RAI	NGE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/3/2018 11:52:15 AM	37917
Surr: BFB	93.8	15-316	%Rec	1	5/3/2018 11:52:15 AM	37917
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.025	mg/Kg	1	5/3/2018 11:52:15 AM	37917
Toluene	ND	0.049	mg/Kg	1	5/3/2018 11:52:15 AM	37917
Ethylbenzene	ND	0.049	mg/Kg	1	5/3/2018 11:52:15 AM	37917
Xylenes, Total	ND	0.098	mg/Kg	1	5/3/2018 11:52:15 AM	37917
Surr: 4-Bromofluorobenzene	105	80-120	%Rec	1	5/3/2018 11:52:15 AM	37917

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 3 of 8
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Lab Order **1805096**Date Reported: **5/7/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Project: Candelario Emergency

1805096-004

Lab ID:

Client Sample ID: BG1

Collection Date: 4/30/2018 3:30:00 PM

Matrix: SOIL Received Date: 5/2/2018 9:20:00 AM

Analyses	Result	PQL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Anal	yst: MRA
Chloride	9800	750	mg/Kg	500 5/4/2018 12:56:10 P	M 37926

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

Qualifiers: Value exceeds Maximum Contaminant Level. Analyte detected in the associated Method Blank D Sample Diluted Due to Matrix Е Value above quantitation range Analyte detected below quantitation limits Page 4 of 8 Н Holding times for preparation or analysis exceeded J ND Not Detected at the Reporting Limit P Sample pH Not In Range PQL Practical Quanitative Limit RL Reporting Detection Limit % Recovery outside of range due to dilution or matrix Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#: **1805096**

07-May-18

Client: Souder, Miller & Associates

Project: Candelario Emergency

Sample ID MB-37926 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 37926 RunNo: 51018

Prep Date: 5/3/2018 Analysis Date: 5/3/2018 SeqNo: 1657508 Units: mg/Kg

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

Chloride ND 1.5

Sample ID LCS-37926 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 37926 RunNo: 51018

Prep Date: 5/3/2018 Analysis Date: 5/3/2018 SeqNo: 1657509 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 94.6 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

D C 1 HN I D

Page 5 of 8

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#: **1805096**

07-May-18

Client: Souder, Miller & Associates

Project: Candelario Emergency

Sample ID LCS-37913 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics LCSS Client ID: Batch ID: 37913 RunNo: 51013 Analysis Date: 5/3/2018 Prep Date: 5/2/2018 SeqNo: 1656310 Units: mg/Kg Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 10 44 50.00 0 87.5 70 130 Surr: DNOP 3.5 5.000 70.6 70 130

TestCode: EPA Method 8015M/D: Diesel Range Organics Sample ID MB-37913 SampType: MBLK Client ID: PBS Batch ID: 37913 RunNo: 51013 Prep Date: 5/2/2018 Analysis Date: 5/3/2018 SeqNo: 1656311 Units: mg/Kg Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) ND 10 Motor Oil Range Organics (MRO) ND 50 Surr: DNOP 7.9 10.00 78.8 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 6 of 8

Hall Environmental Analysis Laboratory, Inc.

WO#: 1805096

07-May-18

Client: Souder, Miller & Associates

Project: Candelario Emergency

Sample ID MB-37917 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 37917 RunNo: 51010

Prep Date: 5/2/2018 Analysis Date: 5/3/2018 SeqNo: 1657020 Units: mg/Kg

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

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 910 1000 91.4 15 316

Sample ID LCS-37917 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 37917 RunNo: 51010

Prep Date: 5/2/2018 Analysis Date: 5/3/2018 SeqNo: 1657025 Units: mg/Kg

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 26 5.0 25.00 0 105 75.9 131 1000 1000 103 15 Surr: BFB 316

Qualifiers:

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

Page 7 of 8

Hall Environmental Analysis Laboratory, Inc.

WO#: **1805096**

07-May-18

Client: Souder, Miller & Associates

Project: Candelario Emergency

Sample ID MB-37917	SampType: MBLK		Tes	TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: 37917		RunNo: 51010							
Prep Date: 5/2/2018	Analysis D	ate: 5/	3/2018	S	SeqNo: 1	657051	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		102	80	120			

Sample ID LCS-37917	SampType: LCS				TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 37917			F	RunNo: 5							
Prep Date: 5/2/2018	Analysis D	Date: 5/	3/2018	SeqNo: 1657052			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	1.0	0.025	1.000	0	100	77.3	128					
Toluene	1.0	0.050	1.000	0	103	79.2	125					
Ethylbenzene	1.0	0.050	1.000	0	102	80.7	127					
Xylenes, Total	3.1	0.10	3.000	0	104	81.6	129					
Surr: 4-Bromofluorobenzene	1.0		1.000		105	80	120					

Qualifiers:

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

Page 8 of 8



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

Sample Log-In Check List

Client Name:	SMA-CARLSBAD	Work Order Numbe	r: 1805096		ReptNo	o: 1
Received By:	lsaiah Ortiz	5/2/2018 9:20:00 AM		TON		
Completed By:			_	T God Mirul G		
	Michelle Garcia ENM	5/2/2018 10:16:19 AN	Λ	41 Julie G	anue)	
Reviewed By:	CIOT	Oreno				
LB:_	IMO					
Chain of Cus	<u>tody</u>					
1. Is Chain of Ci	ustody complete?		Yes 🗹	No 🗔	Not Present	
2. How was the	sample delivered?		<u>Courier</u>			
<u>Log In</u>						
· · · · · · · · · · · · · · · · · · ·	pt made to cool the samples?		Yes 🗸	No 🗌	NA 🗌	
4. Were all samp	oles received at a temperature	of >0° C to 6.0°C	Yes 🗹	No 🗆	NA 🗔	
5. Sample(s) in r	proper container(s)?		Yes 🗸	No 🗌		
	oropor deritamor(b):		163 💌	140		
6. Sufficient sam	ple volume for indicated test(s)?	Yes 🗸	No 🗌		
7. Are samples (except VOA and ONG) proper	y preserved?	Yes 🔽	No 🗔		
8. Was preservat	tive added to bottles?		Yes 🗌	No 🔽	NA \square	
9. VOA vials have	e zero headspace?		Yes	No 🗆	No VOA Vials 🗸	
10, Were any sam	ple containers received broke	n?	Yes	No 🗹		<u>/</u>
					# of preserved bottles checked) (b)
	rk match bottle labels?		Yes 🗹	No 🗆	for pH:	
	ncies on chain of custody) orrectly identified on Chain of	Quetody?	Yes 🔽	No 🗆	Adjusted?	2 unless noted)
	analyses were requested?	Sustady?	Yes ✓	No ∐ No □		
	g times able to be met?		Yes 🗹	No 🗆	Checked by:	
	stomer for authorization.)		162 💌	NO		
Special Handli	ng (if applicable)					
	ified of all discrepancies with t	hie order?	Yes 🗌	No.	NA	
	<u> </u>			No 🗀	NA 🗹	
Person I	J	Date:				
By Whor		Via:	eMail 🛄 Pi	hone 🗌 Fax	In Person	
Regardir						
Client In:	structions:					
16. Additional rem	narks:					
17. Cooler Inform	nation					
Cooler No	Temp °C Condition Se	al Intact Seal No S	Seal Date	Signed By		
 1	1.2 Good Yes	; 				

Chain-of-Custody Record	Turn-Around Time:	
Client SMA - C'bu	Standard XRush 2 day	HALL ENVIRONMENTAL
	ne:	THE PROPERTY OF THE PROPERTY O
Mailing Address;	Gud of win Expresses	4901 Hawkins NE - Albridge NM 87109
Phone #:		la la
email or Fax#:	Project Manager:	(O)
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ou	Sampler (Mr. Sampler (Mr. S	1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (
□ NELAP □ Other	On Ice: Thes Do	1T + 1.81 1.81 1.80 1.80 1.80 1.80 1.80
□ EDD (Type)	Sample Temperature: 1.2	AO\/ qea qea qea qou
Date Time Matrix Sample Request ID	Container Preservative HEAL No.	EX + MTI PA 8015B PH
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Pale: Time: Religiblished by	Received by: / Date Time	Remarks
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I necessary, samples submitted to Hall Environmental may be subcontracted to	other accredited laboratories. This se	cossibility. 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

May 10, 2018

Austin Weyant Souder, Miller & Associates 201 S Halagueno Carlsbad, NM 88221

TEL: (575) 689-7040

FAX

RE: Candelario EMR OrderNo.: 1805099

Dear Austin Weyant:

Hall Environmental Analysis Laboratory received 4 sample(s) on 5/2/2018 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to 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 #NM0190

Sincerely,

Andy Freeman

Laboratory Manager

Indest

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order **1805099**

Date Reported: 5/10/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: POE #1

 Project:
 Candelario EMR
 Collection Date: 4/30/2018 10:21:00 AM

 Lab ID:
 1805099-001
 Matrix: AQUEOUS
 Received Date: 5/2/2018 9:20:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
SM2340B: HARDNESS						Analys	t: pmf
Hardness (As CaCO3)	2100	6.6		mg/L	1	5/3/2018	R51023
SPECIFIC GRAVITY						Analys	t: JRR
Specific Gravity	1.002	0			1	5/4/2018 2:29:00 PM	R51052
EPA METHOD 300.0: ANIONS						Analys	t: MRA
Chloride	1300	50	*	mg/L	100	5/4/2018 7:57:41 PM	R51061
Sulfate	1400	50	*	mg/L	100	5/4/2018 7:57:41 PM	R51061
SM2510B: SPECIFIC CONDUCTANCE	E					Analys	t: JRR
Conductivity	6500	5.0		µmhos/cm	1	5/2/2018 8:45:31 PM	R51015
SM2320B: ALKALINITY						Analys	t: JRR
Bicarbonate (As CaCO3)	156.8	20.00		mg/L CaCO3	1	5/2/2018 8:45:31 PM	R51015
Carbonate (As CaCO3)	ND	2.000		mg/L CaCO3	1	5/2/2018 8:45:31 PM	R51015
Total Alkalinity (as CaCO3)	156.8	20.00		mg/L CaCO3	1	5/2/2018 8:45:31 PM	R51015
SM2540C MOD: TOTAL DISSOLVED	SOLIDS					Analys	t: sat
Total Dissolved Solids	4770	20.0	*	mg/L	1	5/3/2018 4:43:00 PM	37915
SM4500-H+B / 9040C: PH						Analys	t: JRR
рН	8.07		Н	pH units	1	5/2/2018 8:45:31 PM	R51015
EPA METHOD 200.7: DISSOLVED ME	ETALS					Analys	t: pmf
Calcium	500	10		mg/L	10	5/3/2018 2:55:31 PM	A51023
Iron	ND	0.020		mg/L	1	5/3/2018 2:53:18 PM	A51023
Magnesium	210	10		mg/L	10	5/3/2018 2:55:31 PM	A51023
Potassium	6.6	1.0		mg/L	1	5/3/2018 2:53:18 PM	A51023
Sodium	750	10		mg/L	10	5/3/2018 2:55:31 PM	A51023
EPA METHOD 8015D: GASOLINE RA	NGE					Analys	t: AG
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	5/3/2018 7:05:42 PM	A51035
Surr: BFB	101	70-130		%Rec	1	5/3/2018 7:05:42 PM	A51035
EPA METHOD 8015M/D: DIESEL RAM	NGE					Analys	t: TOM
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	5/3/2018 3:28:11 PM	37932
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	5/3/2018 3:28:11 PM	37932
Surr: DNOP	126	76.7-135		%Rec	1	5/3/2018 3:28:11 PM	37932
EPA METHOD 8260: VOLATILES SHO	ORT LIST					Analys	t: AG
Benzene	ND	1.0		μg/L	1	5/3/2018 7:05:42 PM	C51035
Toluene	ND	1.0		μg/L	1	5/3/2018 7:05:42 PM	C51035
Ethylbenzene	ND	1.0		μg/L	1	5/3/2018 7:05:42 PM	C51035
Methyl tert-butyl ether (MTBE)	ND	1.0		μg/L	1	5/3/2018 7:05:42 PM	C51035

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 1 of 18
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Lab Order **1805099**

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 5/10/2018

CLIENT: Souder, Miller & Associates Client Sample ID: POE #1

Project: Candelario EMR
 Collection Date: 4/30/2018 10:21:00 AM

 Lab ID: 1805099-001
 Matrix: AQUEOUS
 Received Date: 5/2/2018 9:20:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SH	ORT LIST				Analys	st: AG
1,2,4-Trimethylbenzene	ND	1.0	μg/L	1	5/3/2018 7:05:42 PM	C51035
1,3,5-Trimethylbenzene	ND	1.0	μg/L	1	5/3/2018 7:05:42 PM	C51035
Xylenes, Total	ND	1.5	μg/L	1	5/3/2018 7:05:42 PM	C51035
Surr: 4-Bromofluorobenzene	110	70-130	%Rec	1	5/3/2018 7:05:42 PM	C51035
Surr: Toluene-d8	97.1	70-130	%Rec	1	5/3/2018 7:05:42 PM	C51035

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 2 of 18
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Lab Order **1805099**

Date Reported: 5/10/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: POE #2

 Project:
 Candelario EMR
 Collection Date: 4/30/2018 10:42:00 AM

 Lab ID:
 1805099-002
 Matrix: AQUEOUS
 Received Date: 5/2/2018 9:20:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
SM2340B: HARDNESS						Analys	t: pmf
Hardness (As CaCO3)	2100	6.6		mg/L	1	5/3/2018	R51023
SPECIFIC GRAVITY						Analys	t: JRR
Specific Gravity	1.000	0			1	5/4/2018 2:29:00 PM	R51052
EPA METHOD 300.0: ANIONS						Analys	t: MRA
Chloride	1300	50	*	mg/L	100	5/4/2018 8:23:25 PM	R51061
Sulfate	1400	50	*	mg/L	100	5/4/2018 8:23:25 PM	R51061
SM2510B: SPECIFIC CONDUCTANC	E					Analys	t: JRR
Conductivity	6700	5.0		µmhos/cm	1	5/2/2018 8:59:16 PM	R51015
SM2320B: ALKALINITY						Analys	t: JRR
Bicarbonate (As CaCO3)	158.6	20.00		mg/L CaCO3	1	5/2/2018 8:59:16 PM	R51015
Carbonate (As CaCO3)	ND	2.000		mg/L CaCO3	1	5/2/2018 8:59:16 PM	R51015
Total Alkalinity (as CaCO3)	158.6	20.00		mg/L CaCO3	1	5/2/2018 8:59:16 PM	R51015
SM2540C MOD: TOTAL DISSOLVED	SOLIDS					Analys	t: sat
Total Dissolved Solids	4830	20.0	*	mg/L	1	5/3/2018 4:43:00 PM	37915
SM4500-H+B / 9040C: PH						Analys	t: JRR
рН	8.10		Н	pH units	1	5/2/2018 8:59:16 PM	R51015
EPA METHOD 200.7: DISSOLVED MI	ETALS					Analys	t: pmf
Calcium	510	10		mg/L	10	5/3/2018 3:00:03 PM	A51023
Iron	0.043	0.020		mg/L	1	5/3/2018 2:57:49 PM	A51023
Magnesium	210	10		mg/L	10	5/3/2018 3:00:03 PM	A51023
Potassium	6.9	1.0		mg/L	1	5/3/2018 2:57:49 PM	A51023
Sodium	740	10		mg/L	10	5/3/2018 3:00:03 PM	A51023
EPA METHOD 8015D: GASOLINE RA	NGE					Analys	t: AG
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	5/3/2018 7:28:52 PM	A51035
Surr: BFB	104	70-130		%Rec	1	5/3/2018 7:28:52 PM	A51035
EPA METHOD 8015M/D: DIESEL RAI	NGE					Analys	t: TOM
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	5/3/2018 3:50:11 PM	37932
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	5/3/2018 3:50:11 PM	37932
Surr: DNOP	134	76.7-135		%Rec	1	5/3/2018 3:50:11 PM	37932
EPA METHOD 8260: VOLATILES SH	ORT LIST					Analys	t: AG
Benzene	ND	1.0		μg/L	1	5/3/2018 7:28:52 PM	C51035
Toluene	ND	1.0		μg/L	1	5/3/2018 7:28:52 PM	C51035
Ethylbenzene	ND	1.0		μg/L	1	5/3/2018 7:28:52 PM	C51035
Methyl tert-butyl ether (MTBE)	ND	1.0		μg/L	1	5/3/2018 7:28:52 PM	C51035

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 3 of 18
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Lab Order **1805099**

Date Reported: 5/10/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: POE #2

Project: Candelario EMR
 Collection Date: 4/30/2018 10:42:00 AM

 Lab ID: 1805099-002
 Matrix: AQUEOUS
 Received Date: 5/2/2018 9:20:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SH	ORT LIST				Analys	t: AG
1,2,4-Trimethylbenzene	ND	1.0	μg/L	1	5/3/2018 7:28:52 PM	C51035
1,3,5-Trimethylbenzene	ND	1.0	μg/L	1	5/3/2018 7:28:52 PM	C51035
Xylenes, Total	ND	1.5	μg/L	1	5/3/2018 7:28:52 PM	C51035
Surr: 4-Bromofluorobenzene	113	70-130	%Rec	1	5/3/2018 7:28:52 PM	C51035
Surr: Toluene-d8	97.3	70-130	%Rec	1	5/3/2018 7:28:52 PM	C51035

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 4 of 18
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Lab Order 1805099

Date Reported: 5/10/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: Up Stream

 Project:
 Candelario EMR
 Collection Date: 4/30/2018 11:35:00 AM

 Lab ID:
 1805099-003
 Matrix: AQUEOUS
 Received Date: 5/2/2018 9:20:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
SM2340B: HARDNESS						Analys	t: pmf
Hardness (As CaCO3)	2200	6.6		mg/L	1	5/3/2018	R51023
SPECIFIC GRAVITY				_		Analys	t: JRR
Specific Gravity	1.002	0			1	5/4/2018 2:29:00 PM	R51052
EPA METHOD 300.0: ANIONS						Analys	t: MRA
Chloride	1300	50	*	mg/L	100	5/6/2018 11:37:37 AM	
Sulfate	1500	50		mg/L	100	5/6/2018 11:37:37 AM	
SM2510B: SPECIFIC CONDUCTANO	E			_		Analys	t: JRR
Conductivity	6500	5.0		µmhos/cm	1	5/2/2018 9:09:07 PM	R51015
SM2320B: ALKALINITY						Analys	t: JRR
Bicarbonate (As CaCO3)	158.6	20.00		mg/L CaCO3	1	5/2/2018 9:09:07 PM	R51015
Carbonate (As CaCO3)	ND	2.000		mg/L CaCO3	1	5/2/2018 9:09:07 PM	R51015
Total Alkalinity (as CaCO3)	158.6	20.00		mg/L CaCO3	1	5/2/2018 9:09:07 PM	R51015
SM4500-H+B / 9040C: PH						Analys	t: JRR
рН	8.15		Н	pH units	1	5/2/2018 9:09:07 PM	R51015
EPA METHOD 200.7: DISSOLVED M	ETALS					Analys	st: pmf
Calcium	520	10		mg/L	10	5/3/2018 3:11:04 PM	A51023
Iron	0.044	0.020		mg/L	1	5/3/2018 3:08:49 PM	A51023
Magnesium	210	10		mg/L	10	5/3/2018 3:11:04 PM	A51023
Potassium	6.7	1.0		mg/L	1	5/3/2018 3:08:49 PM	A51023
Sodium	750	10		mg/L	10	5/3/2018 3:11:04 PM	A51023
EPA METHOD 8015D: GASOLINE RA	ANGE					Analys	st: AG
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	5/3/2018 2:51:16 PM	A51035
Surr: BFB	105	70-130		%Rec	1	5/3/2018 2:51:16 PM	A51035
EPA METHOD 8015M/D: DIESEL RA	NGE					Analys	t: TOM
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	5/3/2018 4:12:16 PM	37932
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	5/3/2018 4:12:16 PM	37932
Surr: DNOP	131	76.7-135		%Rec	1	5/3/2018 4:12:16 PM	37932
EPA METHOD 8260: VOLATILES SH	IORT LIST					Analys	st: AG
Benzene	ND	1.0		μg/L	1	5/3/2018 2:51:16 PM	C51035
Toluene	ND	1.0		μg/L	1	5/3/2018 2:51:16 PM	C51035
Ethylbenzene	ND	1.0		μg/L	1	5/3/2018 2:51:16 PM	C51035
Methyl tert-butyl ether (MTBE)	ND	1.0		μg/L	1	5/3/2018 2:51:16 PM	C51035
1,2,4-Trimethylbenzene	ND	1.0		μg/L	1	5/3/2018 2:51:16 PM	C51035
1,3,5-Trimethylbenzene	ND	1.0		μg/L	1	5/3/2018 2:51:16 PM	C51035
Xylenes, Total	ND	1.5		μg/L	1	5/3/2018 2:51:16 PM	C51035

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 5 of 18
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order **1805099**Date Reported: **5/10/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: Up Stream

Project: Candelario EMR
 Collection Date: 4/30/2018 11:35:00 AM

 Lab ID: 1805099-003
 Matrix: AQUEOUS
 Received Date: 5/2/2018 9:20:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SH	HORT LIST				Analys	t: AG
Surr: 4-Bromofluorobenzene	114	70-130	%Rec	1	5/3/2018 2:51:16 PM	C51035
Surr: Toluene-d8	95.4	70-130	%Rec	1	5/3/2018 2:51:16 PM	C51035

Blank
Page 6 of 18
rage o or ro
nit as specified
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Lab Order **1805099**

Date Reported: 5/10/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: Down Stream

Project: Candelario EMR
 Collection Date: 4/30/2018 11:10:00 AM

 Lab ID: 1805099-004
 Matrix: AQUEOUS
 Received Date: 5/2/2018 9:20:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyze	ed	Batch
SM2340B: HARDNESS							Analyst:	pmf
Hardness (As CaCO3)	2200	6.6		mg/L	1	5/3/2018		R51023
SPECIFIC GRAVITY							Analyst:	JRR
Specific Gravity	1.000	0			1	5/4/2018 2:29:	00 PM	R51052
EPA METHOD 300.0: ANIONS							Analyst:	MRA
Chloride	1400	50	*	mg/L	100	5/6/2018 12:27	-	R51075
Sulfate	1600	50	*	mg/L	100	5/6/2018 12:27	':14 PM	R51075
SM2510B: SPECIFIC CONDUCTANCE							Analyst:	JRR
Conductivity	6500	5.0		µmhos/cm	1	5/2/2018 9:18:	54 PM	R51015
SM2320B: ALKALINITY							Analyst:	JRR
Bicarbonate (As CaCO3)	158.0	20.00		mg/L CaCO3	1	5/2/2018 9:18:	•	R51015
Carbonate (As CaCO3)	ND	2.000		mg/L CaCO3	1	5/2/2018 9:18:	54 PM	R51015
Total Alkalinity (as CaCO3)	158.0	20.00		mg/L CaCO3	1	5/2/2018 9:18:	54 PM	R51015
SM2540C MOD: TOTAL DISSOLVED S	SOLIDS						Analyst:	sat
Total Dissolved Solids	4770	40.0	*D	mg/L	1	5/3/2018 4:43:	00 PM	37915
SM4500-H+B / 9040C: PH							Analyst:	JRR
рН	8.10		Н	pH units	1	5/2/2018 9:18:	54 PM	R51015
EPA METHOD 200.7: DISSOLVED ME	TALS						Analyst:	pmf
Calcium	530	10		mg/L	10	5/3/2018 3:15:	34 PM	A51023
Iron	ND	0.020		mg/L	1	5/3/2018 3:13:	19 PM	A51023
Magnesium	210	10		mg/L	10	5/3/2018 3:15:	34 PM	A51023
Potassium	6.7	1.0		mg/L	1	5/3/2018 3:13:	19 PM	A51023
Sodium	760	10		mg/L	10	5/3/2018 3:15:	34 PM	A51023
EPA METHOD 8015D: GASOLINE RAM	NGE						Analyst:	AG
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	5/3/2018 7:52:	02 PM	A51035
Surr: BFB	106	70-130		%Rec	1	5/3/2018 7:52:	02 PM	A51035
EPA METHOD 8015M/D: DIESEL RAN	GE						Analyst:	ТОМ
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	5/3/2018 4:34:	16 PM	37932
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	5/3/2018 4:34:	16 PM	37932
Surr: DNOP	135	76.7-135		%Rec	1	5/3/2018 4:34:	16 PM	37932
EPA METHOD 8260: VOLATILES SHO	RT LIST						Analyst:	AG
Benzene	ND	1.0		μg/L	1	5/3/2018 7:52:	02 PM	C51035
Toluene	ND	1.0		μg/L	1	5/3/2018 7:52:	02 PM	C51035
Ethylbenzene	ND	1.0		μg/L	1	5/3/2018 7:52:	02 PM	C51035
Methyl tert-butyl ether (MTBE)	ND	1.0		μg/L	1	5/3/2018 7:52:	02 PM	C51035

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

Lab Order **1805099**

Date Reported: 5/10/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: Down Stream

Project: Candelario EMR
 Collection Date: 4/30/2018 11:10:00 AM

 Lab ID: 1805099-004
 Matrix: AQUEOUS
 Received Date: 5/2/2018 9:20:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SH	HORT LIST				Analys	t: AG
1,2,4-Trimethylbenzene	ND	1.0	μg/L	1	5/3/2018 7:52:02 PM	C51035
1,3,5-Trimethylbenzene	ND	1.0	μg/L	1	5/3/2018 7:52:02 PM	C51035
Xylenes, Total	ND	1.5	μg/L	1	5/3/2018 7:52:02 PM	C51035
Surr: 4-Bromofluorobenzene	115	70-130	%Rec	1	5/3/2018 7:52:02 PM	C51035
Surr: Toluene-d8	94.9	70-130	%Rec	1	5/3/2018 7:52:02 PM	C51035

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 8 of 18
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

ND

1.0

WO#: **1805099**

10-May-18

Client: Souder, Miller & Associates

Project: Candelario EMR

Sodium

Sample ID MB-A SampType: MBLK TestCode: EPA Method 200.7: Dissolved Metals Client ID: **PBW** Batch ID: **A51023** RunNo: 51023 Prep Date: Analysis Date: 5/3/2018 SeqNo: 1657718 Units: mg/L Analyte **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Calcium ND 1.0 0.020 Iron ND ND Magnesium 1.0 Potassium ND 1.0

Sample ID LLLCS-A SampType: LCSLL TestCode: EPA Method 200.7: Dissolved Metals Client ID: **BatchQC** Batch ID: **A51023** RunNo: 51023 Prep Date: Analysis Date: 5/3/2018 SeqNo: 1657719 Units: mg/L Analyte **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual ND 1.0 0.5000 0 103 50 150 Calcium Iron 0.023 0.020 0.02000 0 114 50 150 ND 0.5000 0 101 50 150 Magnesium 1.0 ND 0 107 50 Potassium 1.0 0.5000 150 ND 0 105 50 150 Sodium 1.0 0.5000

SampType: LCS Sample ID LCS-A TestCode: EPA Method 200.7: Dissolved Metals Client ID: LCSW Batch ID: **A51023** RunNo: 51023 Prep Date: Analysis Date: 5/3/2018 SeqNo: 1657720 Units: mg/L Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Calcium 50 1.0 50.00 100 85 115 Λ 0.51 0.020 0.5000 0 102 85 115 Iron 0 100 85 50 1.0 50.00 115 Magnesium Potassium 50 50.00 0 100 85 1.0 115 Sodium 52 50.00 0 103 85 10 115

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 9 of 18

Hall Environmental Analysis Laboratory, Inc.

WO#: 1805099

10-May-18

Client: Souder, Miller & Associates

Project: Candelario EMR

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

Client ID: **PBW** Batch ID: **R51061** RunNo: 51061

Prep Date: Analysis Date: 5/4/2018 SeqNo: 1658258 Units: mg/L

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

Chloride ND 0.50 Sulfate ND 0.50

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

Client ID: LCSW Batch ID: **R51061** RunNo: 51061

Prep Date: Analysis Date: 5/4/2018 SeqNo: 1658259 Units: mg/L

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

Chloride 4.6 0.50 5.000 0 92.3 90 110 0 90.9 Sulfate 9.1 0.50 10.00 90 110

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

Client ID: PBW Batch ID: **R51075** RunNo: 51075

Prep Date: Analysis Date: 5/6/2018 SeqNo: 1659029 Units: mg/L

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

Chloride ND 0.50 ND 0.50 Sulfate

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

Client ID: LCSW Batch ID: **R51075** RunNo: 51075

Analysis Date: 5/6/2018 Prep Date: SeqNo: 1659030 Units: mg/L

%REC Analyte Result **PQL** SPK value SPK Ref Val LowLimit HighLimit %RPD **RPDLimit** Qual Chloride 4.6 0.50 5.000 92.7 90 110 Sulfate 9.3 0.50 10.00 0 93.1 90 110

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Η Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

POL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

В Analyte detected in the associated Method Blank

Е Value above quantitation range

J Analyte detected below quantitation limits

Page 10 of 18

P Sample pH Not In Range

RLReporting Detection Limit

Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#: 1805099

10-May-18

Client: Souder, Miller & Associates

Project: Candelario EMR

Sample ID LCS-37932 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range

LCSW Client ID: Batch ID: 37932 RunNo: 50978

Analysis Date: 5/3/2018 SeqNo: 1656856 Prep Date: 5/3/2018 Units: mg/L

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 4.9 1.0 5.000 0 98.7 70 130

Surr: DNOP 0.56 0.5000 76.7 112 135

TestCode: EPA Method 8015M/D: Diesel Range Sample ID MB-37932 SampType: MBLK

Client ID: PBW Batch ID: 37932 RunNo: 50978

Prep Date: 5/3/2018 Analysis Date: 5/3/2018 SeqNo: 1656857 Units: mg/L

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

Diesel Range Organics (DRO) ND 1.0 Motor Oil Range Organics (MRO) ND 5.0

Surr: DNOP 1.2 1.000 117 76.7 135

Qualifiers:

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

Page 11 of 18

Hall Environmental Analysis Laboratory, Inc.

WO#: **1805099**

10-May-18

Client: Souder, Miller & Associates

Project: Candelario EMR

Sample ID 100ng Ics	SampT	ype: LC	S4	Tes	estCode: EPA Method 8260: Volatiles Short List							
Client ID: BatchQC	Batch	n ID: C5	1035	F	RunNo: 5	1035						
Prep Date:	Analysis D	ate: 5/	3/2018	8	SeqNo: 1	657258	Units: µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	18	1.0	20.00	0	89.4	80	120			_		
Toluene	20	1.0	20.00	0	99.4	80	120					
Ethylbenzene	20	1.0	20.00	0	102	80	120					
Methyl tert-butyl ether (MTBE)	23	1.0	20.00	0	115	80	120					
1,2,4-Trimethylbenzene	20	1.0	20.00	0	102	80	120					
1,3,5-Trimethylbenzene	20	1.0	20.00	0	99.8	80	120					
Xylenes, Total	60	1.5	60.00	0	100	80	120					
Surr: 4-Bromofluorobenzene	9.5		10.00		95.3	70	130					
Surr: Toluene-d8	9.5		10.00		95.5	70	130					

Sample ID rb2	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	d 8260: Volatiles Short List					
Client ID: PBW	Batch	ID: C5	1035	F	RunNo: 5	1035						
Prep Date:	Prep Date: Analysis Date:			8	SeqNo: 1	657269	Units: µg/L	lnits: μg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	ND	1.0										
Toluene	ND	1.0										
Ethylbenzene	ND	1.0										
Methyl tert-butyl ether (MTBE)	ND	1.0										
1,2,4-Trimethylbenzene	ND	1.0										
1,3,5-Trimethylbenzene	ND	1.0										
Xylenes, Total	ND	1.5										
Surr: 4-Bromofluorobenzene	11		10.00		114	70	130					
Surr: Toluene-d8	9.7		10.00		96.7	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

d below quantitation limits Pa

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Page 12 of 18

Hall Environmental Analysis Laboratory, Inc.

WO#: **1805099**

10-May-18

Client: Souder, Miller & Associates

Project: Candelario EMR

Sample ID Ics-1 ~20uS eC SampType: LCS TestCode: SM2510B: Specific Conductance

Client ID: LCSW Batch ID: R51015 RunNo: 51015

Prep Date: Analysis Date: 5/2/2018 SeqNo: 1656500 Units: µmhos/cm

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

Conductivity 21 5.0 19.98 0 107 80 120

Sample ID 1805099-001c dup SampType: DUP TestCode: SM2510B: Specific Conductance

Client ID: **POE #1** Batch ID: **R51015** RunNo: **51015**

Prep Date: Analysis Date: 5/2/2018 SeqNo: 1656510 Units: µmhos/cm

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

Conductivity 6500 5.0 0.0790 20

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 18

Hall Environmental Analysis Laboratory, Inc.

WO#: **1805099**

10-May-18

Client: Souder, Miller & Associates

Project: Candelario EMR

Sample ID 2.5ug gro Ics SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSW Batch ID: A51035 RunNo: 51035

Prep Date: Analysis Date: 5/3/2018 SeqNo: 1657127 Units: mg/L

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 0.51 0.050 0.5000 0 101 70

 Gasoline Range Organics (GRO)
 0.51
 0.050
 0.5000
 0
 101
 70
 130

 Surr: BFB
 9.5
 10.00
 95.2
 70
 130

Sample ID rb SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBW Batch ID: A51035 RunNo: 51035

Prep Date: Analysis Date: 5/3/2018 SeqNo: 1657128 Units: mg/L

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

Gasoline Range Organics (GRO) ND 0.050

Surr: BFB 10 10.00 102 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 14 of 18

Hall Environmental Analysis Laboratory, Inc.

WO#: **1805099**

10-May-18

Client: Souder, Miller & Associates

Project: Candelario EMR

Sample ID 1805099-001c dup SampType: DUP TestCode: SM4500-H+B / 9040C: pH

Client ID: **POE #1** Batch ID: **R51015** RunNo: **51015**

Prep Date: Analysis Date: 5/2/2018 SeqNo: 1656526 Units: pH units

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

pH 8.08 H

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 15 of 18

Hall Environmental Analysis Laboratory, Inc.

WO#: **1805099**

10-May-18

Client: Souder, Miller & Associates

Project: Candelario EMR

Sample ID mb-1 alk SampType: MBLK TestCode: SM2320B: Alkalinity

Client ID: PBW Batch ID: R51015 RunNo: 51015

Prep Date: Analysis Date: 5/2/2018 SeqNo: 1656461 Units: mg/L CaCO3

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

Total Alkalinity (as CaCO3) ND 20.00

Sample ID Ics-1 alk SampType: LCS TestCode: SM2320B: Alkalinity

Client ID: LCSW Batch ID: R51015 RunNo: 51015

Prep Date: Analysis Date: 5/2/2018 SeqNo: 1656462 Units: mg/L CaCO3

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

Total Alkalinity (as CaCO3) 80.84 20.00 80.00 0 101 90 110

Sample ID mb-2 alk SampType: MBLK TestCode: SM2320B: Alkalinity

Client ID: PBW Batch ID: R51015 RunNo: 51015

Prep Date: Analysis Date: 5/2/2018 SeqNo: 1656485 Units: mg/L CaCO3

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

Total Alkalinity (as CaCO3) ND 20.00

Sample ID Ics-2 alk SampType: LCS TestCode: SM2320B: Alkalinity

Client ID: LCSW Batch ID: R51015 RunNo: 51015

Prep Date: Analysis Date: 5/2/2018 SeqNo: 1656486 Units: mg/L CaCO3

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

Total Alkalinity (as CaCO3) 80.88 20.00 80.00 0 101 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

D. C. J. H.N. J. D.

Page 16 of 18

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.

WO#: **1805099**

10-May-18

Client: Souder, Miller & Associates

Project: Candelario EMR

Sample ID 1805099-001CDUP SampType: DUP TestCode: Specific Gravity

Client ID: **POE #1** Batch ID: **R51052** RunNo: **51052**

Prep Date: Analysis Date: 5/4/2018 SeqNo: 1658049 Units:

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

Specific Gravity 0.9964 0 0.511 20

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 17 of 18

Hall Environmental Analysis Laboratory, Inc.

WO#: 1805099

10-May-18

Client: Souder, Miller & Associates

Project: Candelario EMR

Sample ID MB-37915 SampType: MBLK TestCode: SM2540C MOD: Total Dissolved Solids

Client ID: PBW Batch ID: 37915 RunNo: 51025

Prep Date: 5/2/2018 Analysis Date: 5/3/2018 SeqNo: 1656816 Units: mg/L

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

Total Dissolved Solids ND 20.0

Sample ID LCS-37915 SampType: LCS TestCode: SM2540C MOD: Total Dissolved Solids

Batch ID: 37915 Client ID: LCSW RunNo: 51025

Prep Date: 5/2/2018 Analysis Date: 5/3/2018 SeqNo: 1656817 Units: mg/L

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

Total Dissolved Solids 1010 20.0 1000 0 101 120

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Η Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

POL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

В Analyte detected in the associated Method Blank

Е Value above quantitation range

J Analyte detected below quantitation limits

Page 18 of 18

P Sample pH Not In Range

RL Reporting Detection Limit

Sample container temperature is out of limit as specified



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: SMA-CARLSBAD Work Order Number: 1805099 RcptNo: 1 Received By: Isaiah Ortiz 5/2/2018 9:20:00 AM Completed By: Michelle Garcia 5/2/2018 10:21:22 AM ENM 5/2/19 Reviewed By: Chain of Custody 1. Is Chain of Custody complete? Yes 🗹 Νo Not Present __ 2 How was the sample delivered? Courier Log In 3. Was an attempt made to cool the samples? No 🗀 NA 🗌 Yes 🗹 No 4. Were all samples received at a temperature of >0° C to 6.0°C Yes 🔽 NA 🗀 No 🗌 Sample(s) in proper container(s)? Yes 🗸 Yes 🗸 No 🗌 6. Sufficient sample volume for indicated test(s)? 7. Are samples (except VOA and ONG) properly preserved? The No X 8. Was preservative added to bottles? NA 🗌 9. VOA vials have zero headspace? Yes 🗸 No 🗌 No VOA Vials 10. Were any sample containers received broken? Yes No 🔽 # of preserved bottles checked No 🗌 Yes 🗸 for pH: 11. Does paperwork match bottle labels? ((2) or >12 unless noted) (Note discrepancies on chain of custody) No 🗆 Adjusted? 12. Are matrices correctly identified on Chain of Custody? Yes ~ No 🗌 13, is it clear what analyses were requested? Yes Checked by: Yes 🔽 No 🗌 14. Were all holding times able to be met? (If no, notify customer for authorization.) Special Handling (if applicable) 15. Was client notified of all discrepancies with this order? Yes No 🗌 NA 🗸 Person Notified: Date: By Whom: Via: eMail Phone Fax n Person Regarding: Client Instructions: 16. Additional remarks: Affect 0.4ml HNO3 to samples for moders analysis. Held 24 hours prior analysis. 17. Cooler Information Cooler No Temp °C | Condition | Seal Intact | Seal No Seal Date Signed By 1.2 Good Yes

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Chain-of-Custody Record	Client: SM	Costsbod	Mailing Address:		Phone #:	email or Fax#:	QA/QC Package: □ Standard □ Level 4 (Full Validation)	Accreditation	□ EDD (Type)	Date Time Matrix Sample Request ID	130 May May 1801 1801	1 1042 1 POEHZ	1 113 wp stren	4 11:10 Gt Down Strem						Date: Time: Relinquished by:	Date: Time: Relinquished by: Count.



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

May 08, 2018

Austin Weyant Souder, Miller & Associates 201 S Halagueno Carlsbad, NM 88221

TEL: (575) 689-7040

FAX

RE: Candelario OrderNo.: 1805223

Dear Austin Weyant:

Hall Environmental Analysis Laboratory received 11 sample(s) on 5/3/2018 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

andel

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order **1805223**

Date Reported: 5/8/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: L10-3

 Project:
 Candelario
 Collection Date: 5/1/2018 1:38:00 PM

 Lab ID:
 1805223-001
 Matrix: SOIL
 Received Date: 5/3/2018 9:30:00 AM

Analyses	Result	PQL Qu	al Units	DF Date	Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	:: MRA
Chloride	4900	150	mg/Kg	100 5/4/20	018 1:58:13 PM	37943
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS	3			Analyst	:: TOM
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1 5/4/20	018 9:28:49 AM	37940
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1 5/4/20	018 9:28:49 AM	37940
Surr: DNOP	124	70-130	%Rec	1 5/4/20	018 9:28:49 AM	37940
EPA METHOD 8015D: GASOLINE RANG	GE				Analyst	:: NSB
Gasoline Range Organics (GRO)	ND	4.0	mg/Kg	1 5/4/20	018 10:14:08 AM	H51049
Surr: BFB	93.1	15-316	%Rec	1 5/4/20	018 10:14:08 AM	H51049
EPA METHOD 8021B: VOLATILES					Analyst	:: NSB
Benzene	ND	0.020	mg/Kg	1 5/4/20	018 10:14:08 AM	B51049
Toluene	ND	0.040	mg/Kg	1 5/4/20	018 10:14:08 AM	B51049
Ethylbenzene	ND	0.040	mg/Kg	1 5/4/20	018 10:14:08 AM	B51049
Xylenes, Total	ND	0.079	mg/Kg	1 5/4/20	018 10:14:08 AM	B51049
Surr: 4-Bromofluorobenzene	107	80-120	%Rec	1 5/4/20	018 10:14:08 AM	B51049

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	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 1 of 18
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	POI.	Practical Quanitative Limit	RI.	Reporting Detection Limit

W Sample container temperature is out of limit as specified

S % Recovery outside of range due to dilution or matrix

Lab Order **1805223**

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 5/8/2018

CLIENT: Souder, Miller & Associates Client Sample ID: L11-2

 Project:
 Candelario
 Collection Date: 5/1/2018 1:59:00 PM

 Lab ID:
 1805223-002
 Matrix:
 SOIL
 Received Date: 5/3/2018 9:30:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	3800	150	mg/Kg	100	5/4/2018 2:10:37 PM	37943
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS	;			Analyst	: TOM
Diesel Range Organics (DRO)	23	9.4	mg/Kg	1	5/4/2018 9:50:43 AM	37940
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	5/4/2018 9:50:43 AM	37940
Surr: DNOP	108	70-130	%Rec	1	5/4/2018 9:50:43 AM	37940
EPA METHOD 8015D: GASOLINE RANG	GE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	3.2	mg/Kg	1	5/4/2018 10:37:24 AM	H51049
Surr: BFB	93.1	15-316	%Rec	1	5/4/2018 10:37:24 AM	H51049
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.016	mg/Kg	1	5/4/2018 10:37:24 AM	B51049
Toluene	ND	0.032	mg/Kg	1	5/4/2018 10:37:24 AM	B51049
Ethylbenzene	ND	0.032	mg/Kg	1	5/4/2018 10:37:24 AM	B51049
Xylenes, Total	ND	0.063	mg/Kg	1	5/4/2018 10:37:24 AM	B51049
Surr: 4-Bromofluorobenzene	103	80-120	%Rec	1	5/4/2018 10:37:24 AM	B51049

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 2 of 18
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Date Reported: 5/8/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: L12-2

Project: Candelario **Collection Date:** 5/1/2018 2:23:00 PM 1805223-003 Matrix: SOIL Lab ID: Received Date: 5/3/2018 9:30:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	8800	300	mg/Kg	200	5/4/2018 2:23:02 PM	37943
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS	;			Analyst	TOM
Diesel Range Organics (DRO)	ND	9.0	mg/Kg	1	5/4/2018 10:12:53 AM	37940
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	5/4/2018 10:12:53 AM	37940
Surr: DNOP	109	70-130	%Rec	1	5/4/2018 10:12:53 AM	37940
EPA METHOD 8015D: GASOLINE RANG	GE				Analyst	NSB
Gasoline Range Organics (GRO)	ND	3.2	mg/Kg	1	5/4/2018 11:00:36 AM	H51049
Surr: BFB	91.9	15-316	%Rec	1	5/4/2018 11:00:36 AM	H51049
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.016	mg/Kg	1	5/4/2018 11:00:36 AM	B51049
Toluene	ND	0.032	mg/Kg	1	5/4/2018 11:00:36 AM	B51049
Ethylbenzene	ND	0.032	mg/Kg	1	5/4/2018 11:00:36 AM	B51049
Xylenes, Total	ND	0.065	mg/Kg	1	5/4/2018 11:00:36 AM	B51049
Surr: 4-Bromofluorobenzene	103	80-120	%Rec	1	5/4/2018 11:00:36 AM	B51049

Qualifiers:	*	Value exceeds Maximum Contaminant Leve					
	D	Sample Diluted Due to Matrix					

- Η Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 3 of 18 J
- P Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

Lab Order **1805223**Date Reported: **5/8/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: L13-2

 Project:
 Candelario
 Collection Date: 5/1/2018 2:53:00 PM

 Lab ID:
 1805223-004
 Matrix:
 SOIL
 Received Date: 5/3/2018 9:30:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	5800	300	mg/Kg	200	5/4/2018 2:35:26 PM	37943
EPA METHOD 8015M/D: DIESEL RANG	GE ORGANICS	6			Analyst	: TOM
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	5/4/2018 10:34:58 AM	37940
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	5/4/2018 10:34:58 AM	37940
Surr: DNOP	108	70-130	%Rec	1	5/4/2018 10:34:58 AM	37940
EPA METHOD 8015D: GASOLINE RAN	IGE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.0	mg/Kg	1	5/4/2018 11:23:48 AM	H51049
Surr: BFB	92.5	15-316	%Rec	1	5/4/2018 11:23:48 AM	H51049
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.020	mg/Kg	1	5/4/2018 11:23:48 AM	B51049
Toluene	ND	0.040	mg/Kg	1	5/4/2018 11:23:48 AM	B51049
Ethylbenzene	ND	0.040	mg/Kg	1	5/4/2018 11:23:48 AM	B51049
Xylenes, Total	ND	0.080	mg/Kg	1	5/4/2018 11:23:48 AM	B51049
Surr: 4-Bromofluorobenzene	104	80-120	%Rec	1	5/4/2018 11:23:48 AM	B51049

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	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 4 of 18
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit

W Sample container temperature is out of limit as specified

% Recovery outside of range due to dilution or matrix

Hall Environmental Analysis Laboratory, Inc. Date Reported: 5/8/2018

CLIENT: Souder, Miller & Associates Client Sample ID: SW23

Project: Candelario **Collection Date:** 5/1/2018 1:05:00 PM 1805223-005 Matrix: SOIL Received Date: 5/3/2018 9:30:00 AM Lab ID:

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	760	30	mg/Kg	20	5/3/2018 7:08:16 PM	37943
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS	6			Analyst	: TOM
Diesel Range Organics (DRO)	700	9.9	mg/Kg	1	5/4/2018 10:57:06 AM	37940
Motor Oil Range Organics (MRO)	420	49	mg/Kg	1	5/4/2018 10:57:06 AM	37940
Surr: DNOP	105	70-130	%Rec	1	5/4/2018 10:57:06 AM	37940
EPA METHOD 8015D: GASOLINE RANG	GE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	3.8	mg/Kg	1	5/4/2018 11:47:01 AM	H51049
Surr: BFB	96.1	15-316	%Rec	1	5/4/2018 11:47:01 AM	H51049
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.019	mg/Kg	1	5/4/2018 11:47:01 AM	B51049
Toluene	ND	0.038	mg/Kg	1	5/4/2018 11:47:01 AM	B51049
Ethylbenzene	ND	0.038	mg/Kg	1	5/4/2018 11:47:01 AM	B51049
Xylenes, Total	ND	0.077	mg/Kg	1	5/4/2018 11:47:01 AM	B51049
Surr: 4-Bromofluorobenzene	101	80-120	%Rec	1	5/4/2018 11:47:01 AM	B51049

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
- Analyte detected in the associated Method Blank
- Value above quantitation range Е
- Analyte detected below quantitation limits Page 5 of 18 J
- P Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

Date Reported: 5/8/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: SW25

 Project:
 Candelario
 Collection Date: 5/1/2018 1:15:00 PM

 Lab ID:
 1805223-006
 Matrix:
 SOIL
 Received Date: 5/3/2018 9:30:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	630	30	mg/Kg	20	5/3/2018 7:20:40 PM	37943
EPA METHOD 8015D MOD: GASOL	INE RANGE				Analyst	: AG
Gasoline Range Organics (GRO)	ND	3.5	mg/Kg	1	5/4/2018 10:11:35 AM	B51051
Surr: BFB	117	70-130	%Rec	1	5/4/2018 10:11:35 AM	B51051
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANICS	3			Analyst	: TOM
Diesel Range Organics (DRO)	12	9.7	mg/Kg	1	5/4/2018 11:41:12 AM	37940
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	5/4/2018 11:41:12 AM	37940
Surr: DNOP	118	70-130	%Rec	1	5/4/2018 11:41:12 AM	37940
EPA METHOD 8260B: VOLATILES	SHORT LIST				Analyst	: AG
Benzene	ND	0.018	mg/Kg	1	5/4/2018 10:11:35 AM	A51051
Toluene	ND	0.035	mg/Kg	1	5/4/2018 10:11:35 AM	A51051
Ethylbenzene	ND	0.035	mg/Kg	1	5/4/2018 10:11:35 AM	A51051
Xylenes, Total	ND	0.070	mg/Kg	1	5/4/2018 10:11:35 AM	A51051
Surr: 4-Bromofluorobenzene	127	70-130	%Rec	1	5/4/2018 10:11:35 AM	A51051
Surr: Toluene-d8	90.4	70-130	%Rec	1	5/4/2018 10:11:35 AM	A51051

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 6 of 18
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Date Reported: 5/8/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: SW1

Project: Candelario
 Collection Date: 5/1/2018 11:30:00 AM

 Lab ID: 1805223-007
 Matrix: SOIL
 Received Date: 5/3/2018 9:30:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	890	30	mg/Kg	20	5/3/2018 7:33:04 PM	37943
EPA METHOD 8015D MOD: GASOLINE	RANGE				Analyst	: AG
Gasoline Range Organics (GRO)	ND	3.5	mg/Kg	1	5/4/2018 10:34:41 AM	B51051
Surr: BFB	117	70-130	%Rec	1	5/4/2018 10:34:41 AM	B51051
EPA METHOD 8015M/D: DIESEL RANG	SE ORGANICS	3			Analyst	: TOM
Diesel Range Organics (DRO)	34	9.8	mg/Kg	1	5/4/2018 12:03:15 PM	37940
Motor Oil Range Organics (MRO)	50	49	mg/Kg	1	5/4/2018 12:03:15 PM	37940
Surr: DNOP	110	70-130	%Rec	1	5/4/2018 12:03:15 PM	37940
EPA METHOD 8260B: VOLATILES SHO	ORT LIST				Analyst	: AG
Benzene	ND	0.017	mg/Kg	1	5/4/2018 10:34:41 AM	A51051
Toluene	ND	0.035	mg/Kg	1	5/4/2018 10:34:41 AM	A51051
Ethylbenzene	ND	0.035	mg/Kg	1	5/4/2018 10:34:41 AM	A51051
Xylenes, Total	ND	0.069	mg/Kg	1	5/4/2018 10:34:41 AM	A51051
Surr: 4-Bromofluorobenzene	127	70-130	%Rec	1	5/4/2018 10:34:41 AM	A51051
Surr: Toluene-d8	89.9	70-130	%Rec	1	5/4/2018 10:34:41 AM	A51051

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 7 of 18
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Date Reported: 5/8/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: SW4

 Project:
 Candelario
 Collection Date: 5/1/2018 12:11:00 PM

 Lab ID:
 1805223-008
 Matrix: SOIL
 Received Date: 5/3/2018 9:30:00 AM

Analyses	Result	PQL (Qual Uni	its	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	MRA
Chloride	5200	300	mg	J/Kg	200	5/4/2018 2:47:51 PM	37943
EPA METHOD 8015D MOD: GASOL	INE RANGE					Analyst	AG
Gasoline Range Organics (GRO)	11	3.4	mg	ı/Kg	1	5/4/2018 10:57:48 AM	B51051
Surr: BFB	109	70-130	%F	Rec	1	5/4/2018 10:57:48 AM	B51051
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANICS	;				Analyst	TOM
Diesel Range Organics (DRO)	520	9.1	mg	ı/Kg	1	5/4/2018 12:25:26 PM	37940
Motor Oil Range Organics (MRO)	370	45	mg	ı/Kg	1	5/4/2018 12:25:26 PM	37940
Surr: DNOP	131	70-130	S %F	Rec	1	5/4/2018 12:25:26 PM	37940
EPA METHOD 8260B: VOLATILES \$	SHORT LIST					Analyst	AG
Benzene	ND	0.017	mg	ı/Kg	1	5/4/2018 10:57:48 AM	A51051
Toluene	ND	0.034	mg	ı/Kg	1	5/4/2018 10:57:48 AM	A51051
Ethylbenzene	ND	0.034	mg	ı/Kg	1	5/4/2018 10:57:48 AM	A51051
Xylenes, Total	ND	0.068	mg	ı/Kg	1	5/4/2018 10:57:48 AM	A51051
Surr: 4-Bromofluorobenzene	118	70-130	%F	Rec	1	5/4/2018 10:57:48 AM	A51051
Surr: Toluene-d8	92.3	70-130	%F	Rec	1	5/4/2018 10:57:48 AM	A51051

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 8 of 18
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 5/8/2018

CLIENT: Souder, Miller & Associates Client Sample ID: SW7

 Project:
 Candelario
 Collection Date: 5/1/2018 12:58:00 PM

 Lab ID:
 1805223-009
 Matrix: SOIL
 Received Date: 5/3/2018 9:30:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	840	30	mg/Kg	20	5/3/2018 7:57:52 PM	37943
EPA METHOD 8015D MOD: GASOL	INE RANGE				Analyst	: AG
Gasoline Range Organics (GRO)	ND	3.5	mg/Kg	1	5/4/2018 12:30:23 PM	B51051
Surr: BFB	120	70-130	%Rec	1	5/4/2018 12:30:23 PM	B51051
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANICS	3			Analyst	: TOM
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	5/4/2018 1:09:28 PM	37940
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	5/4/2018 1:09:28 PM	37940
Surr: DNOP	113	70-130	%Rec	1	5/4/2018 1:09:28 PM	37940
EPA METHOD 8260B: VOLATILES \$	SHORT LIST				Analyst	: AG
Benzene	ND	0.017	mg/Kg	1	5/4/2018 11:21:03 AM	A51051
Toluene	ND	0.035	mg/Kg	1	5/4/2018 11:21:03 AM	A51051
Ethylbenzene	ND	0.035	mg/Kg	1	5/4/2018 11:21:03 AM	A51051
Xylenes, Total	ND	0.069	mg/Kg	1	5/4/2018 11:21:03 AM	A51051
Surr: 4-Bromofluorobenzene	125	70-130	%Rec	1	5/4/2018 11:21:03 AM	A51051
Surr: Toluene-d8	90.5	70-130	%Rec	1	5/4/2018 11:21:03 AM	A51051

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 9 of 18
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 5/8/2018

CLIENT: Souder, Miller & Associates Client Sample ID: SW11

 Project:
 Candelario
 Collection Date: 5/1/2018 12:45:00 PM

 Lab ID:
 1805223-010
 Matrix: SOIL
 Received Date: 5/3/2018 9:30:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: MRA
Chloride	420	30	mg/Kg	20	5/3/2018 8:10:17 PM	37943
EPA METHOD 8015D MOD: GASOL	INE RANGE				Analyst	: AG
Gasoline Range Organics (GRO)	ND	3.3	mg/Kg	1	5/4/2018 11:44:14 AM	B51051
Surr: BFB	117	70-130	%Rec	1	5/4/2018 11:44:14 AM	B51051
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANICS	3			Analyst	:: TOM
Diesel Range Organics (DRO)	ND	8.9	mg/Kg	1	5/4/2018 1:31:26 PM	37940
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	5/4/2018 1:31:26 PM	37940
Surr: DNOP	94.3	70-130	%Rec	1	5/4/2018 1:31:26 PM	37940
EPA METHOD 8260B: VOLATILES	SHORT LIST				Analyst	: AG
Benzene	ND	0.016	mg/Kg	1	5/4/2018 11:44:14 AM	A51051
Toluene	ND	0.033	mg/Kg	1	5/4/2018 11:44:14 AM	A51051
Ethylbenzene	ND	0.033	mg/Kg	1	5/4/2018 11:44:14 AM	A51051
Xylenes, Total	ND	0.066	mg/Kg	1	5/4/2018 11:44:14 AM	A51051
Surr: 4-Bromofluorobenzene	128	70-130	%Rec	1	5/4/2018 11:44:14 AM	A51051
Surr: Toluene-d8	88.2	70-130	%Rec	1	5/4/2018 11:44:14 AM	A51051

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit Page 10 of 18
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Date Reported: 5/8/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: SW5

 Project:
 Candelario
 Collection Date: 5/1/2018 12:15:00 PM

 Lab ID:
 1805223-011
 Matrix: SOIL
 Received Date: 5/3/2018 9:30:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	1200	75	mg/Kg	50	5/4/2018 3:00:15 PM	37943
EPA METHOD 8015D MOD: GASOL	INE RANGE				Analyst	: AG
Gasoline Range Organics (GRO)	ND	3.5	mg/Kg	1	5/4/2018 12:07:21 PM	B51051
Surr: BFB	118	70-130	%Rec	1	5/4/2018 12:07:21 PM	B51051
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANICS	3			Analyst	: TOM
Diesel Range Organics (DRO)	840	9.1	mg/Kg	1	5/4/2018 1:53:31 PM	37940
Motor Oil Range Organics (MRO)	630	46	mg/Kg	1	5/4/2018 1:53:31 PM	37940
Surr: DNOP	109	70-130	%Rec	1	5/4/2018 1:53:31 PM	37940
EPA METHOD 8260B: VOLATILES \$	SHORT LIST				Analyst	: AG
Benzene	ND	0.017	mg/Kg	1	5/4/2018 12:07:21 PM	A51051
Toluene	ND	0.035	mg/Kg	1	5/4/2018 12:07:21 PM	A51051
Ethylbenzene	ND	0.035	mg/Kg	1	5/4/2018 12:07:21 PM	A51051
Xylenes, Total	ND	0.070	mg/Kg	1	5/4/2018 12:07:21 PM	A51051
Surr: 4-Bromofluorobenzene	126	70-130	%Rec	1	5/4/2018 12:07:21 PM	A51051
Surr: Toluene-d8	82.3	70-130	%Rec	1	5/4/2018 12:07:21 PM	A51051

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit Page 11 of 18
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#: **1805223**

08-May-18

Client: Souder, Miller & Associates

Project: Candelario

Sample ID MB-37943 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 37943 RunNo: 51018

Prep Date: 5/3/2018 Analysis Date: 5/3/2018 SeqNo: 1657499 Units: mg/Kg

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

Chloride ND 1.5

Sample ID LCS-37943 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 37943 RunNo: 51018

Prep Date: 5/3/2018 Analysis Date: 5/3/2018 SeqNo: 1657500 Units: mg/Kg

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:

* 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 18

Hall Environmental Analysis Laboratory, Inc.

WO#:

1805223 08-May-18

Client: Souder, Miller & Associates

Project: Candelario

Sample ID LCS-37940 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: LCSS Batch ID: 37940 RunNo: 51045 Prep Date: 5/3/2018 Analysis Date: 5/4/2018 SeqNo: 1657933 Units: mg/Kg Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 10 48 50.00 n 96.4 70 130

Diesel Range Organics (DRO) Surr: DNOP 5.2 5.000 105 70 130

Sample ID MB-37940 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 37940 RunNo: 51045

Analysis Date: 5/4/2018 Prep Date: 5/3/2018 SeqNo: 1657934 Units: mg/Kg

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

Diesel Range Organics (DRO) ND 10 ND 50 Motor Oil Range Organics (MRO)

Surr: DNOP 12 10.00 119 70 130

Sample ID 1805223-001AMS SampType: MS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: L10-3 Batch ID: 37940 RunNo: 51045

Prep Date: 5/3/2018 Analysis Date: 5/4/2018 SeqNo: 1657957 Units: mg/Kg

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 45 9.8 49.16 90.6 55.8 125

Surr: DNOP 5.3 4.916 108 70 130

Sample ID 1805223-001AMSD TestCode: EPA Method 8015M/D: Diesel Range Organics SampType: MSD

Client ID: L10-3 Batch ID: 37940 RunNo: 51045

Prep Date: 5/3/2018 Analysis Date: 5/4/2018 SeqNo: 1658018 Units: mg/Kg

LowLimit HighLimit SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result **PQL** Qual Diesel Range Organics (DRO) 45 9.7 48.40 0 93.3 55.8 125 1.44 20 Surr: DNOP 5.3 4.840 110 70 130 0 0

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Η Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

POL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

В Analyte detected in the associated Method Blank

Е Value above quantitation range

J Analyte detected below quantitation limits

Page 13 of 18

P Sample pH Not In Range

RLReporting Detection Limit

Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#: **1805223**

08-May-18

Client: Souder, Miller & Associates

Project: Candelario

Sample ID RB-II SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: H51049 RunNo: 51049

Prep Date: Analysis Date: 5/4/2018 SeqNo: 1658237 Units: mg/Kg

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

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 950 1000 95.0 15 316

Sample ID 2.5UG GRO LCS-II SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: H51049 RunNo: 51049

Prep Date: Analysis Date: 5/4/2018 SeqNo: 1658238 Units: mg/Kg

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 5.0 25.00 0 108 75.9 131

Surr: BFB 1100 1000 107 15 316

Sample ID 1805223-001AMS SampType: MS TestCode: EPA Method 8015D: Gasoline Range

Client ID: L10-3 Batch ID: H51049 RunNo: 51049

Prep Date: Analysis Date: 5/4/2018 SeqNo: 1658239 Units: mg/Kg

SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result **PQL** LowLimit HighLimit Qual Gasoline Range Organics (GRO) 20 4.0 19.76 100 77.8 128 Surr: BFB 800 790.5 102 15 316

Sample ID 1805223-001AMSD SampType: MSD TestCode: EPA Method 8015D: Gasoline Range

Client ID: L10-3 Batch ID: H51049 RunNo: 51049

Prep Date: Analysis Date: 5/4/2018 SeqNo: 1658240 Units: mg/Kg

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 20 4.0 19.76 99.9 77.8 128 0.320 20 Surr: BFB 790 790.5 100 15 316 0 0

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Page 14 of 18

Hall Environmental Analysis Laboratory, Inc.

1.0

WO#: **1805223**

08-May-18

Client: Souder, Miller & Associates

Project: Candelario

Surr: 4-Bromofluorobenzene

Sample ID RB SampType: MBLK TestCode: EPA Method 8021B: Volatiles Client ID: **PBS** Batch ID: **B51049** RunNo: 51049 Prep Date: Analysis Date: 5/4/2018 SeqNo: 1658252 Units: mg/Kg Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Benzene ND 0.025 Toluene ND 0.050 Ethylbenzene ND 0.050 Xylenes, Total ND 0.10

105

80

120

Sample ID 100NG BTEX LCS SampType: LCS TestCode: EPA Method 8021B: Volatiles Client ID: **LCSS** Batch ID: **B51049** RunNo: 51049 Prep Date: Analysis Date: 5/4/2018 SeqNo: 1658253 Units: mg/Kg Analyte **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 1.0 0.025 1.000 n 99.9 77.3 128 Benzene Toluene 1.0 0.050 1.000 0 102 79.2 125 Ethylbenzene 0.050 1.000 0 101 80.7 127 1.0 Xylenes, Total 3.1 0.10 3.000 0 103 81.6 129 Surr: 4-Bromofluorobenzene 1.1 1.000 106 80 120

1.000

Sample ID 1805223-002AMS SampType: MS TestCode: EPA Method 8021B: Volatiles Client ID: L11-2 Batch ID: **B51049** RunNo: 51049 Prep Date: Analysis Date: 5/4/2018 SeaNo: 1658254 Units: mg/Kg Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Benzene 0.62 0.016 0.6321 97.7 68.5 133 Λ Toluene 0.63 0.032 0.6321 0 99.3 75 130 99.0 0.63 0.032 0.6321 0 79.4 128 Ethylbenzene 0 Xylenes, Total 1.9 0.063 1.896 101 77.3 131 Surr: 4-Bromofluorobenzene 0.66 0.6321 105 80 120

Sample ID 1805223-002AMSD SampType: MSD TestCode: EPA Method 8021B: Volatiles Client ID: L11-2 Batch ID: **B51049** RunNo: 51049 Prep Date: Analysis Date: 5/4/2018 SeqNo: 1658255 Units: mg/Kg SPK value SPK Ref Val %REC **RPDLimit** Analyte Result **PQL** LowLimit HighLimit %RPD Qual 0.61 0.016 0.6321 0 96.8 68.5 133 0.884 20 Benzene Toluene 0.62 0.032 0.6321 0 98.6 75 130 0.667 20 0.61 Ethylbenzene 0.032 0.6321 0 966 794 128 2 49 20 Xylenes, Total 1.9 0.063 1.896 0 99.0 77.3 131 1.90 20 Surr: 4-Bromofluorobenzene 0.67 0.6321 107 80 120 0 0

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

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Hall Environmental Analysis Laboratory, Inc.

WO#: 1805223

08-May-18

Souder, Miller & Associates **Client:**

Project: Candelario

Sample ID 100ng Ics	SampT	ype: LC	S4	TestCode: EPA Method 8260B: Volatiles Short List						
Client ID: BatchQC	Batch	n ID: A5	1051	F	RunNo: 5	1051				
Prep Date:	Analysis D	ate: 5/	4/2018	SeqNo: 1658036			SeqNo: 1658036 Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.97	0.025	1.000	0	96.7	80	120			
Toluene	1.1	0.050	1.000	0	106	80	120			
Ethylbenzene	1.1	0.050	1.000	0	106	80	120			
Xylenes, Total	3.2	0.10	3.000	0	105	80	120			
Surr: 4-Bromofluorobenzene	0.49		0.5000		98.9	70	130			
Surr: Toluene-d8	0.49		0.5000		97.4	70	130			

Sample ID rb	Samp	Гуре: МЕ	BLK	Tes	tCode: E	le: EPA Method 8260B: Volatiles Short List						
Client ID: PBS	Batc	h ID: A5	1051	F	1051							
Prep Date:	Analysis [Date: 5/	4/2018	8	SeqNo: 1658045			Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	ND	0.025										
Toluene	ND	0.050										
Ethylbenzene	ND	0.050										
Xylenes, Total	ND	0.10										
Surr: 4-Bromofluorobenzene	0.61		0.5000		121	70	130					
Surr: Toluene-d8	0.49		0.5000		98.7	70	130					

Sample ID 1805223-007ams	s Samp	Гуре: М\$	64	TestCode: EPA Method 8260B: Volatiles Short List							
Client ID: SW1	Batc	h ID: A5	1051	RunNo: 51051							
Prep Date:	Analysis [Date: 5/	4/2018	S	SeqNo: 1	658665	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.59	0.017	0.6911	0	85.8	80	120				
Toluene	0.67	0.035	0.6911	0.005453	95.6	80	120				
Ethylbenzene	0.74	0.035	0.6911	0	106	80	120				
Xylenes, Total	2.2	0.069	2.073	0.01633	104	80	120				
Surr: 4-Bromofluorobenzene	0.38		0.3456		111	70	130				
Surr: Toluene-d8	0.32		0.3456		91.6	70	130				

Sample ID 1805223-007amsc	s SampT	ampType: MSD4 TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: SW1	Batch	n ID: A5	1051	F						
Prep Date:	Analysis D	ate: 5/	4/2018	S	SeqNo: 1	658666	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.54	0.017	0.6911	0	77.8	80	120	9.73	0	S
Toluene	0.68	0.035	0.6911	0.005453	97.8	80	120	2.20	0	
Ethylbenzene	0.71	0.035	0.6911	0	103	80	120	3.17	0	
Xylenes, Total	2.1	0.069	2.073	0.01633	102	80	120	2.40	0	

Qualifiers:

Value exceeds Maximum Contaminant Level.

Sample Diluted Due to Matrix D

Η Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

В Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

Page 16 of 18

P Sample pH Not In Range

RL Reporting Detection Limit

Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#: 1805223

08-May-18

Client: Souder, Miller & Associates

Project: Candelario

Sample ID 1805223-007amsd SampType: MSD4 TestCode: EPA Method 8260B: Volatiles Short List

Client ID: SW1 Batch ID: **A51051** RunNo: **51051**

Prep Date:	Analysis Date: 5/4/2018		S	SeqNo: 1658666			g				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Surr: 4-Bromofluorobenzene	0.38		0.3456		110	70	130	0	0		
Surr: Toluene-d8	0.32		0.3456		93.3	70	130	0	0		

Qualifiers:

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

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Hall Environmental Analysis Laboratory, Inc.

SampType: MBLK

WO#: 1805223

08-May-18

Client: Souder, Miller & Associates

Project: Candelario

Sample ID rb

Sample ID 2.5ug gro Ics SampType: LCS TestCode: EPA Method 8015D Mod: Gasoline Range Client ID: LCSS Batch ID: **B51051** RunNo: 51051 Prep Date: Analysis Date: 5/4/2018 SeqNo: 1658033 Units: mg/Kg Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 25 5.0 n 98.5 25.00 70 130 480 Surr: BFB 500.0 95.5 70 130

Client ID: PBS Batch ID: **B51051** RunNo: 51051 Analysis Date: 5/4/2018 Prep Date: SeqNo: 1658034 Units: mg/Kg Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) ND 5.0 Surr: BFB 560 500.0 70 130 111

TestCode: EPA Method 8015D Mod: Gasoline Range

Sample ID 1805223-006ams SampType: MS TestCode: EPA Method 8015D Mod: Gasoline Range Client ID: **SW25** Batch ID: **B51051** RunNo: 51051 Prep Date: Analysis Date: 5/4/2018 SeqNo: 1658644 Units: mg/Kg SPK value SPK Ref Val %RPD **RPDLimit** Analyte Result **PQL** %REC LowLimit HighLimit Qual Gasoline Range Organics (GRO) 20 4.3 21.30 95.7 64.7 142 Surr: BFB 440 425.9 103 70 130

Sample ID 1805223-006amsd SampType: MSD TestCode: EPA Method 8015D Mod: Gasoline Range Client ID: **SW25** Batch ID: **B51051** RunNo: 51051 Analysis Date: 5/4/2018 Prep Date: SeqNo: 1658645 Units: mg/Kg %REC Analyte Result **PQL** SPK value SPK Ref Val LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 20 4.3 21.30 92.2 64.7 142 3.70 20 Surr: BFB 460 425.9 109 70 130 0 0

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Η Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

POL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

В Analyte detected in the associated Method Blank

Е Value above quantitation range

J

Analyte detected below quantitation limits

Page 18 of 18

P Sample pH Not In Range

RLReporting Detection Limit

Sample container temperature is out of limit as specified



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

Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: SMA-CARLSBAD	Work Order Numbe	r: 180	5223		RoptNo	o: 1
Received By: Isaiah Ortiz	5/3/2018 9:30:00 AM			ION	-	
Completed By: Anne Thorne	5/3/2018 11:55:45 AM	1		I On A	,	
Reviewed By: INO	5/3/18			Cina Ai		
Labeled by LB	5/3/18					
Chain of Custody	12/19					
1. Is Chain of Custody complete?		Yes	v	No 🗌	Not Present	
2. How was the sample delivered?		Cou	rier			
Log In						
Was an attempt made to cool the samples?		Yes	•	No 🗆	NA 🗔	
4. Were all samples received at a temperature of	of >0" C to 6.0°C	Yes	V	No 🗆	NA 🗆	
5. Sample(s) in proper container(s)?		Yes	✓	No 🗆		
6. Sufficient sample volume for indicated test(s)?	7	Yes	~	No 🗆		
7. Are samples (except VOA and ONG) properly	preserved?	Yes	~	No 🗆		V.
8. Was preservative added to bottles?		Yes		No 🗷	NA 🗆	10/19
VOA vials have zero headspace?		Yes		No 🗆	No VOA Vials	18 3/3/19
10, Were any sample containers received broken	?	Yes		No 🗸	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	
					# of preserved bottles checked	
11. Does paperwork match bottle labels?		Yes	~	No 🗌	for pH:	
(Note discrepancies on chain of custody) 2. Are matrices correctly identified on Chain of C	ustorh/2	Yes	~	No 🗆	Adjusted?	r >12 unless noted)
[3] Is it clear what analyses were requested?	ustody:		V	No 🗆	/ -	
4. Were all holding times able to be met?		Yes		No 🗆	Checked by:	
(If no, notify customer for authorization.)				,		
Special Handling (if applicable)						
Was client notified of all discrepancies with th	is order?	Yes		No 🗌	NA 🗹	
Person Notified:	Date					
By Whom:	Via:	eMa	ail 🗆	Phone Fax	In Person	
Regarding:						
Client Instructions:						
16. Additional remarks:						
17. Cooler Information						
	Intact Seal No S	eal Da	ite	Signed By	1	
1 2.3 Good Yes					1	

TAL						(N)	o Y)	səlddu8 riA														-1441
HALL ENVIRONMENTAL ANALYSIS LABORATORY	www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109	10	Analysis Request	(°C	MS)	70 / DR (1.8 (1.4.1) (1.908.7 (1.808.2	9 or 1 19 or 1 19 or 1 19 or 1 19 or 1 19 or 1	BTEX + MTI B2108 HQT TPH (Metho BDB (Metho BCRA 8 Me BCRA 8 Me BOB1 Pestici BOB1 Pestici BOB1 Pestici	(×	×	×	X	X	X	*	×	×	*	o consider	Padelift	
de la companya de la				(7 1S08) s	8MT -	F ∃8	S W	7 102	× 202	7 572	10 pm	7 502	7 W	41 X	7 82	769 X	-010 X	A ID	Time	S	Time 130
KRUSH 24 how	lelans			er:	in Vecasi	N / MDS	Temperature: 23	Preservative HEAL No.												Déte	- Stalk	5/3/18
Turn-Around Time:	Project Name:	Project #:		Project Manager:	Thist	Sampler: The		Container F Type and #	402											Seceived by	1) fra policy (
Chain-of-Custody Record					□ Level 4 (Full Validation)			Sample Request ID	610-3	2-117	2-217	2-517	SW23	SW25	5w1	SUY	527	Surll	SUS	717		led by: W
ain-of-Cus	Iress:			x#:		□ Other	(ed	Time Matrix	1:38 50:1	1:59	23	2.53	7.8	15	1:30	11	12:58	17:45	, IS	Relinerished B		
Client:	Mailing Address:		Phone #:	email or Fax#:	QA/QC Package:	Accreditation	☐ EDD (Type)	Date Tir	:1 M/1/2	31	2:23	2.	<u>:</u>	1:15	=	12:1	12:	12:	15.15	Rate:	1/18 BB	Day Time:



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

May 04, 2018

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

FAX

RE: Candelario Em Res OrderNo.: 1805229

Dear Austin Weyant:

Hall Environmental Analysis Laboratory received 4 sample(s) on 5/3/2018 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

Indest

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 5/4/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: Downstream

Project: Candelario Em Res
 Collection Date: 5/1/2018 11:00:00 AM

 Lab ID: 1805229-001
 Matrix: AQUEOUS
 Received Date: 5/3/2018 9:30:00 AM

Analyses	Result	PQL Qı	ıal Units	DF Date Analyzed Batc	h
EPA METHOD 300.0: ANIONS				Analyst: MRA	\ \
Chloride	1300	50	* mg/L	100 5/3/2018 3:18:14 PM R510)40
EPA METHOD 8015D: GASOLINE R.	ANGE			Analyst: AG	
Gasoline Range Organics (GRO)	ND	0.050	mg/L	1 5/3/2018 2:28:09 PM A510	35
Surr: BFB	103	70-130	%Rec	1 5/3/2018 2:28:09 PM A510	135
EPA METHOD 8015M/D: DIESEL RA	NGE			Analyst: TOM	I
Diesel Range Organics (DRO)	ND	1.0	mg/L	1 5/4/2018 1:02:03 AM 3793	3
Motor Oil Range Organics (MRO)	ND	5.0	mg/L	1 5/4/2018 1:02:03 AM 3793	3
Surr: DNOP	122	76.7-135	%Rec	1 5/4/2018 1:02:03 AM 3793	3
EPA METHOD 8260: VOLATILES SH	IORT LIST			Analyst: AG	
Benzene	ND	1.0	μg/L	1 5/3/2018 2:28:09 PM C510)35
Toluene	ND	1.0	μg/L	1 5/3/2018 2:28:09 PM C510)35
Ethylbenzene	ND	1.0	μg/L	1 5/3/2018 2:28:09 PM C510)35
Xylenes, Total	ND	1.5	μg/L	1 5/3/2018 2:28:09 PM C510)35
Surr: 4-Bromofluorobenzene	112	70-130	%Rec	1 5/3/2018 2:28:09 PM C510)35
Surr: Toluene-d8	92.6	70-130	%Rec	1 5/3/2018 2:28:09 PM C510)35

-				-
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 9
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Date Reported: 5/4/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: POE #2

Project:Candelario Em ResCollection Date: 5/1/2018 10:35:00 AMLab ID:1805229-002Matrix: AQUEOUSReceived Date: 5/3/2018 9:30:00 AM

Analyses	Result	PQL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analyst:	MRA
Chloride	1200	50	* mg/L	100 5/3/2018 3:43:56 PM	R51040
EPA METHOD 8015D: GASOLINE R	ANGE			Analyst:	AG
Gasoline Range Organics (GRO)	ND	0.050	mg/L	1 5/3/2018 5:56:17 PM	A51035
Surr: BFB	104	70-130	%Rec	1 5/3/2018 5:56:17 PM	A51035
EPA METHOD 8015M/D: DIESEL RA	NGE			Analyst:	TOM
Diesel Range Organics (DRO)	ND	1.0	mg/L	1 5/4/2018 1:24:02 AM	37933
Motor Oil Range Organics (MRO)	ND	5.0	mg/L	1 5/4/2018 1:24:02 AM	37933
Surr: DNOP	130	76.7-135	%Rec	1 5/4/2018 1:24:02 AM	37933
EPA METHOD 8260: VOLATILES SH	IORT LIST			Analyst:	AG
Benzene	ND	1.0	μg/L	1 5/3/2018 5:56:17 PM	C51035
Toluene	ND	1.0	μg/L	1 5/3/2018 5:56:17 PM	C51035
Ethylbenzene	ND	1.0	μg/L	1 5/3/2018 5:56:17 PM	C51035
Xylenes, Total	ND	1.5	μg/L	1 5/3/2018 5:56:17 PM	C51035
Surr: 4-Bromofluorobenzene	114	70-130	%Rec	1 5/3/2018 5:56:17 PM	C51035
Surr: Toluene-d8	94.9	70-130	%Rec	1 5/3/2018 5:56:17 PM	C51035

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 2 of 9
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Date Reported: 5/4/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: POE #1

Project: Candelario Em Res
 Collection Date: 5/1/2018 10:10:00 AM

 Lab ID: 1805229-003
 Matrix: AQUEOUS
 Received Date: 5/3/2018 9:30:00 AM

Analyses	Result	PQL Qu	al Units	DF Date Analy	zed Batch
EPA METHOD 300.0: ANIONS					Analyst: MRA
Chloride	1100	50	* mg/L	100 5/3/2018 4:0	9:41 PM R51040
EPA METHOD 8015D: GASOLINE RA	ANGE				Analyst: AG
Gasoline Range Organics (GRO)	ND	0.050	mg/L	1 5/3/2018 6:1	9:27 PM A51035
Surr: BFB	104	70-130	%Rec	1 5/3/2018 6:1	9:27 PM A51035
EPA METHOD 8015M/D: DIESEL RA	NGE				Analyst: TOM
Diesel Range Organics (DRO)	ND	1.0	mg/L	1 5/4/2018 1:4	5:58 AM 37933
Motor Oil Range Organics (MRO)	ND	5.0	mg/L	1 5/4/2018 1:4	5:58 AM 37933
Surr: DNOP	130	76.7-135	%Rec	1 5/4/2018 1:4	5:58 AM 37933
EPA METHOD 8260: VOLATILES SH	IORT LIST				Analyst: AG
Benzene	ND	1.0	μg/L	1 5/3/2018 6:1	9:27 PM C51035
Toluene	ND	1.0	μg/L	1 5/3/2018 6:1	9:27 PM C51035
Ethylbenzene	ND	1.0	μg/L	1 5/3/2018 6:1	9:27 PM C51035
Xylenes, Total	ND	1.5	μg/L	1 5/3/2018 6:1	9:27 PM C51035
Surr: 4-Bromofluorobenzene	113	70-130	%Rec	1 5/3/2018 6:1	9:27 PM C51035
Surr: Toluene-d8	95.5	70-130	%Rec	1 5/3/2018 6:1	9:27 PM C51035

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 3 of 9
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Lab Order **1805229**Date Reported: **5/4/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: POE #1

Project:Candelario Em ResCollection Date: 5/1/2018 5:00:00 PMLab ID:1805229-004Matrix: AQUEOUSReceived Date: 5/3/2018 9:30:00 AM

Analyses	Result	PQL (Qual Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analyst:	MRA
Chloride	1200	50	* mg/L	100 5/3/2018 4:35:24 PM	R51040
EPA METHOD 8015D: GASOLINE RA	NGE			Analyst:	AG
Gasoline Range Organics (GRO)	ND	0.050	mg/L	1 5/3/2018 6:42:37 PM	A51035
Surr: BFB	99.5	70-130	%Rec	1 5/3/2018 6:42:37 PM	A51035
EPA METHOD 8015M/D: DIESEL RAI	NGE			Analyst:	ТОМ
Diesel Range Organics (DRO)	ND	1.0	mg/L	1 5/4/2018 2:07:54 AM	37933
Motor Oil Range Organics (MRO)	ND	5.0	mg/L	1 5/4/2018 2:07:54 AM	37933
Surr: DNOP	137	76.7-135	S %Rec	1 5/4/2018 2:07:54 AM	37933
EPA METHOD 8260: VOLATILES SH	ORT LIST			Analyst:	AG
Benzene	ND	1.0	μg/L	1 5/3/2018 6:42:37 PM	C51035
Toluene	ND	1.0	μg/L	1 5/3/2018 6:42:37 PM	C51035
Ethylbenzene	ND	1.0	μg/L	1 5/3/2018 6:42:37 PM	C51035
Xylenes, Total	ND	1.5	μg/L	1 5/3/2018 6:42:37 PM	C51035
Surr: 4-Bromofluorobenzene	108	70-130	%Rec	1 5/3/2018 6:42:37 PM	C51035
Surr: Toluene-d8	92.6	70-130	%Rec	1 5/3/2018 6:42:37 PM	C51035

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank			
	D	Sample Diluted Due to Matrix	E	Value above quantitation range			
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 4 of 9			
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range			
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit			
	S	S % Recovery outside of range due to dilution or matrix W Sample container temperature is out of limit as					

Hall Environmental Analysis Laboratory, Inc.

WO#: **1805229**

04-May-18

Client: Souder, Miller & Associates

Project: Candelario Em Res

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

Client ID: PBW Batch ID: R51040 RunNo: 51040

Prep Date: Analysis Date: 5/3/2018 SeqNo: 1657292 Units: mg/L

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

Chloride ND 0.50

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

Client ID: LCSW Batch ID: R51040 RunNo: 51040

Prep Date: Analysis Date: 5/3/2018 SeqNo: 1657293 Units: mg/L

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

Chloride 4.5 0.50 5.000 0 90.6 90 110

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Page 5 of 9

Hall Environmental Analysis Laboratory, Inc.

WO#: **1805229**

04-May-18

Client: Souder, Miller & Associates

Project: Candelario Em Res

Sample ID LCS-37932 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range

Client ID: LCSW Batch ID: 37932 RunNo: 50978

Prep Date: 5/3/2018 Analysis Date: 5/3/2018 SeqNo: 1656856 Units: %Rec

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

Surr: DNOP 0.56 0.5000 112 76.7 135

Sample ID MB-37932 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range

Client ID: PBW Batch ID: 37932 RunNo: 50978

Prep Date: 5/3/2018 Analysis Date: 5/3/2018 SeqNo: 1656857 Units: %Rec

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

Surr: DNOP 1.2 1.000 117 76.7 135

Sample ID LCS-37933 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range

Client ID: LCSW Batch ID: 37933 RunNo: 50978

Prep Date: 5/3/2018 Analysis Date: 5/4/2018 SeqNo: 1657026 Units: mg/L

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

 Diesel Range Organics (DRO)
 5.3
 1.0
 5.000
 0
 106
 70
 130

 Surr: DNOP
 0.60
 0.5000
 119
 76.7
 135

Sample ID MB-37933 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range

Client ID: PBW Batch ID: 37933 RunNo: 50978

Prep Date: 5/3/2018 Analysis Date: 5/4/2018 SeqNo: 1657027 Units: mg/L

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

Diesel Range Organics (DRO) ND 1.0

Motor Oil Range Organics (MRO) ND 5.0

Surr: DNOP 1.2 1.000 121 76.7 135

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Page 6 of 9

Hall Environmental Analysis Laboratory, Inc.

WO#: **1805229**

04-May-18

Client: Souder, Miller & Associates

Project: Candelario Em Res

Sample ID 100ng Ics	SampT	ype: LC	:S4	TestCode: EPA Method 8260: Volatiles Short List								
Client ID: BatchQC	Batch	ID: C5	1035	F	RunNo: 5	1035						
Prep Date:	Date: Analysis Date: 5/3/2018				SeqNo: 1	657258						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	18	1.0	20.00	0	89.4	80	120					
Toluene	20	1.0	20.00	0	99.4	80	120					
Ethylbenzene	20	1.0	20.00	0	102	80	120					
Xylenes, Total	60	1.5	60.00	0	100	80	120					
Surr: 4-Bromofluorobenzene	9.5		10.00		95.3	70	130					
Surr: Toluene-d8	9.5		10.00		95.5	70	130					

Sample ID 1805229-003am	s SampT	уре: М	S4	TestCode: EPA Method 8260: Volatiles Short List								
Client ID: POE #1	Batcl	h ID: C 5	1035	F	RunNo: 51035							
Prep Date:	Analysis D	Date: 5/	/3/2018	8	SeqNo: 1	657266	Units: µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	20	1.0	20.00	0	98.2	80	120					
Toluene	21	1.0	20.00	0.06700	103	80	120					
Ethylbenzene	21	1.0	20.00	0	104	80	120					
Xylenes, Total	61	1.5	60.00	0.5020	101	80	120					
Surr: 4-Bromofluorobenzene	9.6		10.00		95.9	70	130					
Surr: Toluene-d8	9.7		10.00		97.2	70	130					

Sample ID 1805229-003ams	sd SampT	уре: М	SD4	Tes	tCode: E	PA Method	8260: Volatile	s Short L	.ist	
Client ID: POE #1	RunNo: 51035									
Prep Date: Analysis Date: 5/3/2018				8	SeqNo: 1657267 Units: μg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	101	80	120	3.17	20	
Toluene	20	1.0	20.00	0.06700	100	80	120	2.87	20	
Ethylbenzene	20	1.0	20.00	0	102	80	120	2.20	20	
Xylenes, Total	60	1.5	60.00	0.5020	98.8	80	120	2.37	20	
Surr: 4-Bromofluorobenzene	9.7		10.00		97.1	70	130	0	0	
Surr: Toluene-d8	9.7		10.00		97.3	70	130	0	0	

Sample ID rb2	SampType: MBLK TestCode: EPA Method 82				8260: Volatile	s Short L	.ist			
Client ID: PBW	Batch	1D: C5	1035	F	RunNo: 5	1035				
Prep Date:	Analysis D	ate: 5/	3/2018	S	SeqNo: 1	657269	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	1.5								

Qualifiers:

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **1805229**

04-May-18

Client: Souder, Miller & Associates

Project: Candelario Em Res

Sample ID rb2 SampType: MBLK TestCode: EPA Method 8260: Volatiles Short List

Client ID: PBW Batch ID: C51035 RunNo: 51035

Prep Date: Analysis Date: 5/3/2018 SeqNo: 1657269 Units: µg/L

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

 Surr: 4-Bromofluorobenzene
 11
 10.00
 114
 70
 130

 Surr: Toluene-d8
 9.7
 10.00
 96.7
 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 8 of 9

Hall Environmental Analysis Laboratory, Inc.

WO#: **1805229**

04-May-18

Client: Souder, Miller & Associates

Project: Candelario Em Res

Sample ID 1805229-002ams SampType: MS TestCode: EPA Method 8015D: Gasoline Range Client ID: **POE #2** Batch ID: **A51035** RunNo: 51035 Prep Date: Analysis Date: 5/3/2018 SeqNo: 1657123 Units: mg/L Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 0.45 0.050 n 89.4 0.5000 70 130 Surr: BFB 9.5 10.00 95.3 70 130

Sample ID 1805229-002amsd SampType: MSD TestCode: EPA Method 8015D: Gasoline Range Client ID: POE #2 Batch ID: **A51035** RunNo: 51035 Prep Date: Analysis Date: 5/4/2018 SeqNo: 1657124 Units: mg/L LowLimit Analyte Result **PQL** SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 0.44 0.050 0.5000 87.9 70 130 1.71 20 70 0 Surr: BFB 9.2 10.00 92.2 130

Sample ID 2.5ug gro lcs SampType: LCS TestCode: EPA Method 8015D: Gasoline Range Client ID: LCSW Batch ID: **A51035** RunNo: 51035 Prep Date: Analysis Date: 5/3/2018 SeqNo: 1657127 Units: mg/L Result SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte **PQL** LowLimit HighLimit Qual Gasoline Range Organics (GRO) 0.51 0.050 0.5000 101 70 130 Surr: BFB 9.5 10.00 95.2 70 130

Sample ID rb SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range Client ID: PBW Batch ID: **A51035** RunNo: 51035 Analysis Date: 5/3/2018 Prep Date: SeqNo: 1657128 Units: mg/L SPK value SPK Ref Val %REC Analyte Result PQL LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) ND 0.050 Surr: BFB 10 10.00 102 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 9 of 9



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

Received By: Isaiah Ortiz 5/3/2018 9:30:00 AM Completed By: Anne Thorne 5/3/2018 12:36:07 PM Reviewed By:	
Reviewed By: Chain of Custody 1. Is Chain of Custody complete? 2. How was the sample delivered? Log In 3. Was an attempt made to cool the samples? 4. Were all samples received at a temperature of >0° C to 6.0°C 7. Sample(s) in proper container(s)? 6. Sufficient sample volume for indicated test(s)? 7. Are samples (except VOA and ONG) properly preserved? 8. Was preservative added to bottles? 9. VOA vials have zero headspace? 10. Were any sample containers received broken? 11. Does paperwork match bottle labels? (Note discrepancies on chain of custody) 12. Are matrices correctly identified on Chain of Custody? 13. Is it clear what analyses were requested? 14. Were all holding times able to be met? (If no, notify customer for authorization.) Special Handling (if applicable) 15. Was client notified of all discrepancies with this order? Person Notified: Date	Ia
Chain of Custody 1. Is Chain of Custody complete? 2. How was the sample delivered? 2. How was the sample delivered? 4. Were all samples received at a temperature of >0° C to 6.0°C 5. Sample(s) in proper container(s)? 6. Sufficient sample volume for indicated test(s)? 7. Are samples (except VOA and ONG) properly preserved? 8. Was preservative added to bottles? 9. VOA vials have zero headspace? 10. Were any sample containers received broken? 11. Does paperwork match bottle labels? (Note discrepancies on chain of custody) 12. Are matrices correctly identified on Chain of Custody? 13. Is it clear what analyses were requested? 14. Were all holding times able to be met? (If no, notify customer for authorization.) Special Handling (if applicable) 15. Was client notified: Date	On M
1. Is Chain of Custody complete? 2. How was the sample delivered? Courier Log In 3. Was an attempt made to cool the samples? 4. Were all samples received at a temperature of >0° C to 6.0°C Yes ✓ 5. Sample(s) in proper container(s)? 6. Sufficient sample volume for indicated test(s)? 7. Are samples (except VOA and ONG) properly preserved? 8. Was preservative added to bottles? 9. VOA vials have zero headspace? 10. Were any sample containers received broken? 11. Does paperwork match bottle labels? (Note discrepancies on chain of custody) 12. Are matrices correctly identified on Chain of Custody? 13. Is it clear what analyses were requested? 14. Were all holding times able to be met? (If no, notify customer for authorization.) Special Handling (if applicable) 15. Was client notified of all discrepancies with this order? Person Notified: Date	and fine
2. How was the sample delivered? Log In 3. Was an attempt made to cool the samples? 4. Were all samples received at a temperature of >0° C to 6.0°C Yes ✓ 5. Sample(s) in proper container(s)? 6. Sufficient sample volume for indicated test(s)? 7. Are samples (except VOA and ONG) properly preserved? 8. Was preservative added to bottles? 9. VOA vials have zero headspace? 10. Were any sample containers received broken? 11. Does paperwork match bottle labels? (Note discrepancies on chain of custody) 12. Are matrices correctly identified on Chain of Custody? 13. Is it clear what analyses were requested? 14. Were all holding times able to be met? (If no, notify customer for authorization.) Special Handling (if applicable) 15. Was client notified of all discrepancies with this order? Person Notified: Date	No ☐ Not Present ☐
3. Was an attempt made to cool the samples? 4. Were all samples received at a temperature of >0° C to 6.0°C Yes 5. Sample(s) in proper container(s)? 6. Sufficient sample volume for indicated test(s)? 7. Are samples (except VOA and ONG) properly preserved? 8. Was preservative added to bottles? 9. VOA vials have zero headspace? 10. Were any sample containers received broken? 11. Does paperwork match bottle labels? (Note discrepancies on chain of custody) (2. Are matrices correctly identified on Chain of Custody? 13. Is it clear what analyses were requested? 14. Were all holding times able to be met? (If no, notify customer for authorization.) Special Handling (if applicable) 15. Was client notified of all discrepancies with this order? Person Notified: Date	
4. Were all samples received at a temperature of >0° C to 6.0°C 4. Were all samples received at a temperature of >0° C to 6.0°C 5. Sample(s) in proper container(s)? 6. Sufficient sample volume for indicated test(s)? 7. Are samples (except VOA and ONG) properly preserved? 8. Was preservative added to bottles? 9. VOA vials have zero headspace? 10. Were any sample containers received broken? 11. Does paperwork match bottle labels? (Note discrepancies on chain of custody) 12. Are matrices correctly identified on Chain of Custody? 13. Is it clear what analyses were requested? 14. Were all holding times able to be met? (If no, notify customer for authorization.) Special Handling (if applicable) 15. Was client notified of all discrepancies with this order? Person Notified: Date	
5. Sample(s) in proper container(s)? 6. Sufficient sample volume for indicated test(s)? 7. Are samples (except VOA and ONG) properly preserved? 8. Was preservative added to bottles? 9. VOA vials have zero headspace? 10. Were any sample containers received broken? 11. Does paperwork match bottle labels? (Note discrepancies on chain of custody) 12. Are matrices correctly identified on Chain of Custody? 13. Is it clear what analyses were requested? 14. Were all holding times able to be met? (If no, notify customer for authorization.) Special Handling (if applicable) 15. Was client notified of all discrepancies with this order? Person Notified: Date	No □ NA □
6. Sufficient sample volume for indicated test(s)? 7. Are samples (except VOA and ONG) properly preserved? 8. Was preservative added to bottles? 9. VOA vials have zero headspace? 10. Were any sample containers received broken? 11. Does paperwork match bottle labels? (Note discrepancies on chain of custody) 2. Are matrices correctly identified on Chain of Custody? 3. Is it clear what analyses were requested? 14. Were all holding times able to be met? (If no, notify customer for authorization.) Special Handling (if applicable) 15. Was client notified of all discrepancies with this order? Person Notified: Date	No NA
7. Are samples (except VOA and ONG) properly preserved? 8. Was preservative added to bottles? 9. VOA vials have zero headspace? 10. Were any sample containers received broken? 11. Does paperwork match bottle labels? (Note discrepancies on chain of custody) 12. Are matrices correctly identified on Chain of Custody? 13. Is it clear what analyses were requested? 14. Were all holding times able to be met? (If no, notify customer for authorization.) Special Handling (if applicable) 15. Was client notified of all discrepancies with this order? Person Notified: Date	No 🗆
8. Was preservative added to bottles? 9. VOA vials have zero headspace? 10. Were any sample containers received broken? 11. Does paperwork match bottle labels? (Note discrepancies on chain of custody) 2. Are matrices correctly identified on Chain of Custody? 3. Is it clear what analyses were requested? 4. Were all holding times able to be met? (If no, notify customer for authorization.) Special Handling (if applicable) 15. Was client notified of all discrepancies with this order? Person Notified: Date	No 🗆
9. VOA vials have zero headspace? 10. Were any sample containers received broken? 11. Does paperwork match bottle labels? (Note discrepancies on chain of custody) 12. Are matrices correctly identified on Chain of Custody? 13. Is it clear what analyses were requested? 14. Were all holding times able to be met? (If no, notify customer for authorization.) 15. Was client notified of all discrepancies with this order? Person Notified: Date	No 🗆
1. Does paperwork match bottle labels? (Note discrepancies on chain of custody) 2. Are matrices correctly identified on Chain of Custody? 3. Is it clear what analyses were requested? 4. Were all holding times able to be met? (If no, notify customer for authorization.) **Pecial Handling (if applicable)* Person Notified: Date	No ☑ NA □
1. Does paperwork match bottle labels? (Note discrepancies on chain of custody) 2. Are matrices correctly identified on Chain of Custody? 3. Is it clear what analyses were requested? 4. Were all holding times able to be met? (If no, notify customer for authorization.) Special Handling (if applicable) 15. Was client notified of all discrepancies with this order? Person Notified: Date	No No VOA Vials
(Note discrepancies on chain of custody) 2. Are matrices correctly identified on Chain of Custody? 3. Is it clear what analyses were requested? 4. Were all holding times able to be met? (If no, notify customer for authorization.) Special Handling (if applicable) 15. Was client notified of all discrepancies with this order? Person Notified: Date	No # of preserved
(Note discrepancies on chain of custody) 2. Are matrices correctly identified on Chain of Custody? 3. Is it clear what analyses were requested? 4. Were all holding times able to be met? (If no, notify customer for authorization.) Special Handling (if applicable) 15. Was client notified of all discrepancies with this order? Person Notified: Date	bottles checked No for pH:
3. Is it clear what analyses were requested? 4. Were all holding times able to be met? (If no, notify customer for authorization.) Special Handling (if applicable) 15. Was client notified of all discrepancies with this order? Person Notified: Date	(<2 or >12 unless noted)
4. Were all holding times able to be met? (If no, notify customer for authorization.) **Pecial Handling (if applicable)* 15. Was client notified of all discrepancies with this order? Person Notified: Date	No Adjusted?
(If no, notify customer for authorization.) Special Handling (if applicable) 15. Was client notified of all discrepancies with this order? Person Notified: Date	No 🗌
Person Notified: Date	No Checked by:
15. Was client notified of all discrepancies with this order? Person Notified: Date	
	No ☐ NA 🗹
	TO A CONTRACTOR AND AND A CONTRACTOR AND
	ne Fax In Person
Regarding:	address seem address opposite the second seem of the second seem of the second
Client Instructions:	that the second of the second
16. Additional remarks: Poured of POE#1 @ 1700	DRO Amber Into a 120 Unpies.
17. Cooler Information for a analysis /A-05/03/	gned By

□ Standard		ANAI VETE I ABODATOD	ENTAL
],, `		ANALTSIS LABOKA I OKY www.hallenvironmental.com	A LOKY
eland Em , RPS.	4901 Hawkins	4901 Hawkins NE - Albuquerque, NM 87109	6(
	Tel. 505-345-3975	Fax	
Project Manager:	λ)		
J. 11 9/12 22 4	uo se	OS'*C	
n comment	ыко ын (е	0 SIIV	
□ Yes □ No	1 Т + \ О <i>Я</i> Г.8Г	728 Ν _{.ε} (
Sample Temperature 23	q 4 (GE	or tals (AC) <u> </u>
Preservative HEAL No. Type 805279	BTEX + MT 8015B PPH (Metho	PAH's (8310 RCRA 8 Me Anions (R,C 8081 Pestici 8081 Pestici	Air Bubbles
102	X	X	19.46
792	×	X.	<i>C</i> 2
802	×	X	
has .	XX	X	
Date Time	_		
Lake	202	otal TPH & BTEX or	all A
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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

May 18, 2018

Austin Weyant Souder, Miller & Associates 201 S Halagueno Carlsbad, NM 88221

TEL: (575) 689-7040

FAX

RE: Candelario EMR OrderNo.: 1805497

Dear Austin Weyant:

Hall Environmental Analysis Laboratory received 16 sample(s) on 5/9/2018 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

Indest

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order **1805497**

, Inc. Date Reported: 5/18/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: SW24

Project: Candelario EMR
 Collection Date: 5/1/2018 1:29:00 PM

 Lab ID: 1805497-001
 Matrix: SOIL
 Received Date: 5/9/2018 9:30:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	220	30	mg/Kg	20	5/15/2018 10:21:51 AM	38095
EPA METHOD 8015M/D: DIESEL RAM	NGE ORGANICS	;			Analyst	TOM
Diesel Range Organics (DRO)	71	9.9	mg/Kg	1	5/13/2018 5:47:16 PM	38039
Motor Oil Range Organics (MRO)	89	50	mg/Kg	1	5/13/2018 5:47:16 PM	38039
Surr: DNOP	108	70-130	%Rec	1	5/13/2018 5:47:16 PM	38039
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/10/2018 8:36:51 PM	38023
Surr: BFB	79.9	15-316	%Rec	1	5/10/2018 8:36:51 PM	38023
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Methyl tert-butyl ether (MTBE)	ND	0.097	mg/Kg	1	5/10/2018 8:36:51 PM	38023
Benzene	ND	0.024	mg/Kg	1	5/10/2018 8:36:51 PM	38023
Toluene	ND	0.049	mg/Kg	1	5/10/2018 8:36:51 PM	38023
Ethylbenzene	ND	0.049	mg/Kg	1	5/10/2018 8:36:51 PM	38023
Xylenes, Total	ND	0.097	mg/Kg	1	5/10/2018 8:36:51 PM	38023
Surr: 4-Bromofluorobenzene	96.9	80-120	%Rec	1	5/10/2018 8:36:51 PM	38023

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
-	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 1 of 24
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Lab Order **1805497**

Date Reported: 5/18/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: SW10

Project: Candelario EMR
 Collection Date: 5/1/2018 12:41:00 PM

 Lab ID: 1805497-002
 Matrix: SOIL
 Received Date: 5/9/2018 9:30:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	1100	30	mg/Kg	20	5/15/2018 11:23:53 AM	38095
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANICS	;			Analyst	: Irm
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	5/12/2018 3:13:06 AM	38039
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	5/12/2018 3:13:06 AM	38039
Surr: DNOP	105	70-130	%Rec	1	5/12/2018 3:13:06 AM	38039
EPA METHOD 8015D: GASOLINE RA	ANGE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	5/10/2018 9:00:27 PM	38023
Surr: BFB	82.6	15-316	%Rec	1	5/10/2018 9:00:27 PM	38023
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Methyl tert-butyl ether (MTBE)	ND	0.092	mg/Kg	1	5/10/2018 9:00:27 PM	38023
Benzene	ND	0.023	mg/Kg	1	5/10/2018 9:00:27 PM	38023
Toluene	ND	0.046	mg/Kg	1	5/10/2018 9:00:27 PM	38023
Ethylbenzene	ND	0.046	mg/Kg	1	5/10/2018 9:00:27 PM	38023
Xylenes, Total	ND	0.092	mg/Kg	1	5/10/2018 9:00:27 PM	38023
Surr: 4-Bromofluorobenzene	99.6	80-120	%Rec	1	5/10/2018 9:00:27 PM	38023

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 2 of 24
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Lab Order **1805497**

Date Reported: 5/18/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: SW14

Project: Candelario EMR
 Collection Date: 5/1/2018 12:53:00 PM

 Lab ID: 1805497-003
 Matrix: SOIL
 Received Date: 5/9/2018 9:30:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	1700	75	mg/Kg	50	5/16/2018 10:39:07 AM	38095
EPA METHOD 8015M/D: DIESEL RAN	IGE ORGANICS	;			Analyst	: Irm
Diesel Range Organics (DRO)	26	10	mg/Kg	1	5/15/2018 5:01:11 AM	38039
Motor Oil Range Organics (MRO)	79	50	mg/Kg	1	5/15/2018 5:01:11 AM	38039
Surr: DNOP	115	70-130	%Rec	1	5/15/2018 5:01:11 AM	38039
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	5/10/2018 9:23:45 PM	38023
Surr: BFB	83.2	15-316	%Rec	1	5/10/2018 9:23:45 PM	38023
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Methyl tert-butyl ether (MTBE)	ND	0.094	mg/Kg	1	5/10/2018 9:23:45 PM	38023
Benzene	ND	0.023	mg/Kg	1	5/10/2018 9:23:45 PM	38023
Toluene	ND	0.047	mg/Kg	1	5/10/2018 9:23:45 PM	38023
Ethylbenzene	ND	0.047	mg/Kg	1	5/10/2018 9:23:45 PM	38023
Xylenes, Total	ND	0.094	mg/Kg	1	5/10/2018 9:23:45 PM	38023
Surr: 4-Bromofluorobenzene	101	80-120	%Rec	1	5/10/2018 9:23:45 PM	38023

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 3 of 24
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Lab Order 1805497

Date Reported: 5/18/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: SW9

 Project:
 Candelario EMR
 Collection Date: 5/1/2018 12:37:00 PM

 Lab ID:
 1805497-004
 Matrix: SOIL
 Received Date: 5/9/2018 9:30:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	1100	30	mg/Kg	20	5/15/2018 11:48:43 AM	38095
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS	;			Analyst	: Irm
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	5/12/2018 3:57:42 AM	38039
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	5/12/2018 3:57:42 AM	38039
Surr: DNOP	98.0	70-130	%Rec	1	5/12/2018 3:57:42 AM	38039
EPA METHOD 8015D: GASOLINE RANG	E				Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	5/10/2018 9:47:18 PM	38023
Surr: BFB	90.4	15-316	%Rec	1	5/10/2018 9:47:18 PM	38023
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Methyl tert-butyl ether (MTBE)	ND	0.097	mg/Kg	1	5/10/2018 9:47:18 PM	38023
Benzene	ND	0.024	mg/Kg	1	5/10/2018 9:47:18 PM	38023
Toluene	ND	0.048	mg/Kg	1	5/10/2018 9:47:18 PM	38023
Ethylbenzene	ND	0.048	mg/Kg	1	5/10/2018 9:47:18 PM	38023
Xylenes, Total	ND	0.097	mg/Kg	1	5/10/2018 9:47:18 PM	38023
Surr: 4-Bromofluorobenzene	101	80-120	%Rec	1	5/10/2018 9:47:18 PM	38023

Qualifiers: *	Value exceeds Maximum Contaminant Level.
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- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 4 of 24
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order **1805497**Date Reported: **5/18/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: SW8

Project: Candelario EMR
 Collection Date: 5/1/2018 12:32:00 PM

 Lab ID: 1805497-005
 Matrix: SOIL
 Received Date: 5/9/2018 9:30:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	1300	75	mg/Kg	50	5/16/2018 10:51:31 AM	38095
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS	;			Analyst	: Irm
Diesel Range Organics (DRO)	26	10	mg/Kg	1	5/12/2018 4:19:54 AM	38039
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	5/12/2018 4:19:54 AM	38039
Surr: DNOP	98.2	70-130	%Rec	1	5/12/2018 4:19:54 AM	38039
EPA METHOD 8015D: GASOLINE RANG	SE .				Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	5/10/2018 10:10:32 PM	38023
Surr: BFB	83.8	15-316	%Rec	1	5/10/2018 10:10:32 PM	38023
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Methyl tert-butyl ether (MTBE)	ND	0.095	mg/Kg	1	5/10/2018 10:10:32 PM	38023
Benzene	ND	0.024	mg/Kg	1	5/10/2018 10:10:32 PM	38023
Toluene	ND	0.047	mg/Kg	1	5/10/2018 10:10:32 PM	38023
Ethylbenzene	ND	0.047	mg/Kg	1	5/10/2018 10:10:32 PM	38023
Xylenes, Total	ND	0.095	mg/Kg	1	5/10/2018 10:10:32 PM	38023
Surr: 4-Bromofluorobenzene	101	80-120	%Rec	1	5/10/2018 10:10:32 PM	38023

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 5 of 24
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Lab Order **1805497**

Date Reported: 5/18/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: SW3

 Project:
 Candelario EMR
 Collection Date: 5/1/2018 12:09:00 PM

 Lab ID:
 1805497-006
 Matrix: SOIL
 Received Date: 5/9/2018 9:30:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	460	30	mg/Kg	20	5/15/2018 12:13:32 PM	38095
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS	;			Analyst	: Irm
Diesel Range Organics (DRO)	42	9.9	mg/Kg	1	5/12/2018 4:42:15 AM	38039
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	5/12/2018 4:42:15 AM	38039
Surr: DNOP	97.7	70-130	%Rec	1	5/12/2018 4:42:15 AM	38039
EPA METHOD 8015D: GASOLINE RAM	NGE				Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/10/2018 10:33:55 PM	38023
Surr: BFB	81.8	15-316	%Rec	1	5/10/2018 10:33:55 PM	38023
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Methyl tert-butyl ether (MTBE)	ND	0.099	mg/Kg	1	5/10/2018 10:33:55 PM	38023
Benzene	ND	0.025	mg/Kg	1	5/10/2018 10:33:55 PM	38023
Toluene	ND	0.049	mg/Kg	1	5/10/2018 10:33:55 PM	38023
Ethylbenzene	ND	0.049	mg/Kg	1	5/10/2018 10:33:55 PM	38023
Xylenes, Total	ND	0.099	mg/Kg	1	5/10/2018 10:33:55 PM	38023
Surr: 4-Bromofluorobenzene	99.1	80-120	%Rec	1	5/10/2018 10:33:55 PM	38023

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 6 of 24
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Lab Order **1805497**

Date Reported: 5/18/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: SW20

 Project:
 Candelario EMR
 Collection Date: 5/1/2018 1:15:00 PM

 Lab ID:
 1805497-007
 Matrix:
 SOIL
 Received Date: 5/9/2018 9:30:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	MRA
Chloride	3900	150	mg/Kg	100	5/16/2018 11:03:56 AM	38095
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS	;			Analyst:	TOM
Diesel Range Organics (DRO)	160	9.9	mg/Kg	1	5/13/2018 6:32:18 PM	38039
Motor Oil Range Organics (MRO)	160	49	mg/Kg	1	5/13/2018 6:32:18 PM	38039
Surr: DNOP	109	70-130	%Rec	1	5/13/2018 6:32:18 PM	38039
EPA METHOD 8015D: GASOLINE RAI	NGE				Analyst:	NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	5/10/2018 10:57:28 PM	38023
Surr: BFB	86.7	15-316	%Rec	1	5/10/2018 10:57:28 PM	38023
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
Methyl tert-butyl ether (MTBE)	ND	0.099	mg/Kg	1	5/10/2018 10:57:28 PM	38023
Benzene	ND	0.025	mg/Kg	1	5/10/2018 10:57:28 PM	38023
Toluene	ND	0.050	mg/Kg	1	5/10/2018 10:57:28 PM	38023
Ethylbenzene	ND	0.050	mg/Kg	1	5/10/2018 10:57:28 PM	38023
Xylenes, Total	ND	0.099	mg/Kg	1	5/10/2018 10:57:28 PM	38023
Surr: 4-Bromofluorobenzene	96.7	80-120	%Rec	1	5/10/2018 10:57:28 PM	38023

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 7 of 24
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Lab Order **1805497**Date Reported: **5/18/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: SW26

Project: Candelario EMR
 Collection Date: 5/1/2018 1:32:00 PM

 Lab ID: 1805497-008
 Matrix: SOIL
 Received Date: 5/9/2018 9:30:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	920	30	mg/Kg	20	5/15/2018 12:38:22 PM	38095
EPA METHOD 8015M/D: DIESEL RANGI	E ORGANICS	;			Analyst	TOM
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	5/13/2018 6:54:49 PM	38039
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	5/13/2018 6:54:49 PM	38039
Surr: DNOP	108	70-130	%Rec	1	5/13/2018 6:54:49 PM	38039
EPA METHOD 8015D: GASOLINE RANG	Ε				Analyst	NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	5/10/2018 11:20:42 PM	38023
Surr: BFB	82.9	15-316	%Rec	1	5/10/2018 11:20:42 PM	38023
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Methyl tert-butyl ether (MTBE)	ND	0.099	mg/Kg	1	5/10/2018 11:20:42 PM	38023
Benzene	ND	0.025	mg/Kg	1	5/10/2018 11:20:42 PM	38023
Toluene	ND	0.050	mg/Kg	1	5/10/2018 11:20:42 PM	38023
Ethylbenzene	ND	0.050	mg/Kg	1	5/10/2018 11:20:42 PM	38023
Xylenes, Total	ND	0.099	mg/Kg	1	5/10/2018 11:20:42 PM	38023
Surr: 4-Bromofluorobenzene	101	80-120	%Rec	1	5/10/2018 11:20:42 PM	38023

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 8 of 24
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Lab Order 1805497

Sample container temperature is out of limit as specified

Date Reported: 5/18/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: SW12

 Project:
 Candelario EMR
 Collection Date: 5/1/2018 12:47:00 PM

 Lab ID:
 1805497-009
 Matrix: SOIL
 Received Date: 5/9/2018 9:30:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	1200	75	mg/Kg	50	5/16/2018 11:16:21 AM	38095
EPA METHOD 8015M/D: DIESEL RAM	IGE ORGANICS	;			Analyst	: Irm
Diesel Range Organics (DRO)	74	9.9	mg/Kg	1	5/15/2018 5:23:30 AM	38039
Motor Oil Range Organics (MRO)	88	49	mg/Kg	1	5/15/2018 5:23:30 AM	38039
Surr: DNOP	120	70-130	%Rec	1	5/15/2018 5:23:30 AM	38039
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	5/10/2018 11:43:56 PM	38023
Surr: BFB	89.5	15-316	%Rec	1	5/10/2018 11:43:56 PM	38023
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Methyl tert-butyl ether (MTBE)	ND	0.093	mg/Kg	1	5/10/2018 11:43:56 PM	38023
Benzene	ND	0.023	mg/Kg	1	5/10/2018 11:43:56 PM	38023
Toluene	ND	0.047	mg/Kg	1	5/10/2018 11:43:56 PM	38023
Ethylbenzene	ND	0.047	mg/Kg	1	5/10/2018 11:43:56 PM	38023
Xylenes, Total	ND	0.093	mg/Kg	1	5/10/2018 11:43:56 PM	38023
Surr: 4-Bromofluorobenzene	102	80-120	%Rec	1	5/10/2018 11:43:56 PM	38023

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	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 9 of 24
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range

PQL Practical Quanitative Limit RL Reporting Detection Limit

S % Recovery outside of range due to dilution or matrix

Lab Order **1805497**

Date Reported: 5/18/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: SW2

 Project:
 Candelario EMR
 Collection Date: 5/1/2018 11:45:00 AM

 Lab ID:
 1805497-010
 Matrix: SOIL
 Received Date: 5/9/2018 9:30:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	4700	300	mg/Kg	200	5/16/2018 11:28:45 AM	38095
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS	;			Analyst	TOM
Diesel Range Organics (DRO)	62	10	mg/Kg	1	5/13/2018 7:39:29 PM	38039
Motor Oil Range Organics (MRO)	68	50	mg/Kg	1	5/13/2018 7:39:29 PM	38039
Surr: DNOP	105	70-130	%Rec	1	5/13/2018 7:39:29 PM	38039
EPA METHOD 8015D: GASOLINE RAI	NGE				Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	5/11/2018 1:17:39 AM	38023
Surr: BFB	87.1	15-316	%Rec	1	5/11/2018 1:17:39 AM	38023
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Methyl tert-butyl ether (MTBE)	ND	0.091	mg/Kg	1	5/11/2018 1:17:39 AM	38023
Benzene	ND	0.023	mg/Kg	1	5/11/2018 1:17:39 AM	38023
Toluene	ND	0.046	mg/Kg	1	5/11/2018 1:17:39 AM	38023
Ethylbenzene	ND	0.046	mg/Kg	1	5/11/2018 1:17:39 AM	38023
Xylenes, Total	ND	0.091	mg/Kg	1	5/11/2018 1:17:39 AM	38023
Surr: 4-Bromofluorobenzene	98.1	80-120	%Rec	1	5/11/2018 1:17:39 AM	38023

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	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 10 of 24
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	POL	Practical Quanitative Limit	RL	Reporting Detection Limit

W Sample container temperature is out of limit as specified

S % Recovery outside of range due to dilution or matrix

Lab Order **1805497**Date Reported: **5/18/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: SW17

Project: Candelario EMR
 Collection Date: 5/1/2018 1:02:00 PM

 Lab ID: 1805497-011
 Matrix: SOIL
 Received Date: 5/9/2018 9:30:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: MRA
Chloride	7700	300	mg/Kg	200	5/16/2018 11:41:10 AM	38095
EPA METHOD 8015D MOD: GASOL	INE RANGE				Analyst	: AG
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	5/10/2018 3:19:39 PM	38028
Surr: BFB	116	70-130	%Rec	1	5/10/2018 3:19:39 PM	38028
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANICS	3			Analyst	: Irm
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	5/14/2018 3:18:56 PM	38056
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	5/14/2018 3:18:56 PM	38056
Surr: DNOP	110	70-130	%Rec	1	5/14/2018 3:18:56 PM	38056
EPA METHOD 8260B: VOLATILES \$	SHORT LIST				Analyst	: AG
Methyl tert-butyl ether (MTBE)	ND	0.046	mg/Kg	1	5/10/2018 3:19:39 PM	38028
Benzene	ND	0.023	mg/Kg	1	5/10/2018 3:19:39 PM	38028
Toluene	ND	0.046	mg/Kg	1	5/10/2018 3:19:39 PM	38028
Ethylbenzene	ND	0.046	mg/Kg	1	5/10/2018 3:19:39 PM	38028
Xylenes, Total	ND	0.092	mg/Kg	1	5/10/2018 3:19:39 PM	38028
Surr: 4-Bromofluorobenzene	126	70-130	%Rec	1	5/10/2018 3:19:39 PM	38028
Surr: Toluene-d8	96.0	70-130	%Rec	1	5/10/2018 3:19:39 PM	38028

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 11 of 24
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Lab Order **1805497**Date Reported: **5/18/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: SW22

Project: Candelario EMR
 Collection Date: 5/1/2018 1:23:00 PM

 Lab ID: 1805497-012
 Matrix: SOIL
 Received Date: 5/9/2018 9:30:00 AM

Analyses	Result	PQL (Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	MRA
Chloride	1000	30		mg/Kg	20	5/15/2018 2:54:05 PM	38095
EPA METHOD 8015D MOD: GASOL	INE RANGE					Analyst	: AG
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	5/10/2018 3:42:52 PM	38028
Surr: BFB	123	70-130		%Rec	1	5/10/2018 3:42:52 PM	38028
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANICS	;				Analyst	: Irm
Diesel Range Organics (DRO)	54	9.9		mg/Kg	1	5/14/2018 4:25:33 PM	38056
Motor Oil Range Organics (MRO)	80	50		mg/Kg	1	5/14/2018 4:25:33 PM	38056
Surr: DNOP	109	70-130		%Rec	1	5/14/2018 4:25:33 PM	38056
EPA METHOD 8260B: VOLATILES \$	SHORT LIST					Analyst	: AG
Methyl tert-butyl ether (MTBE)	ND	0.048		mg/Kg	1	5/10/2018 3:42:52 PM	38028
Benzene	ND	0.024		mg/Kg	1	5/10/2018 3:42:52 PM	38028
Toluene	ND	0.048		mg/Kg	1	5/10/2018 3:42:52 PM	38028
Ethylbenzene	ND	0.048		mg/Kg	1	5/10/2018 3:42:52 PM	38028
Xylenes, Total	ND	0.096		mg/Kg	1	5/10/2018 3:42:52 PM	38028
Surr: 4-Bromofluorobenzene	134	70-130	S	%Rec	1	5/10/2018 3:42:52 PM	38028
Surr: Toluene-d8	90.9	70-130		%Rec	1	5/10/2018 3:42:52 PM	38028

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 12 of 24
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Lab Order **1805497**Date Reported: **5/18/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: SW6

 Project:
 Candelario EMR
 Collection Date: 5/1/2018 12:30:00 PM

 Lab ID:
 1805497-013
 Matrix: SOIL
 Received Date: 5/9/2018 9:30:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	2100	75	mg/Kg	50	5/16/2018 11:53:34 AM	38095
EPA METHOD 8015D MOD: GASOL	INE RANGE				Analyst	: AG
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	5/10/2018 4:05:57 PM	38028
Surr: BFB	117	70-130	%Rec	1	5/10/2018 4:05:57 PM	38028
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANICS	;			Analyst	: Irm
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	5/14/2018 4:47:41 PM	38056
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	5/14/2018 4:47:41 PM	38056
Surr: DNOP	107	70-130	%Rec	1	5/14/2018 4:47:41 PM	38056
EPA METHOD 8260B: VOLATILES S	SHORT LIST				Analyst	: AG
Methyl tert-butyl ether (MTBE)	ND	0.047	mg/Kg	1	5/10/2018 4:05:57 PM	38028
Benzene	ND	0.023	mg/Kg	1	5/10/2018 4:05:57 PM	38028
Toluene	ND	0.047	mg/Kg	1	5/10/2018 4:05:57 PM	38028
Ethylbenzene	ND	0.047	mg/Kg	1	5/10/2018 4:05:57 PM	38028
Xylenes, Total	ND	0.094	mg/Kg	1	5/10/2018 4:05:57 PM	38028
Surr: 4-Bromofluorobenzene	128	70-130	%Rec	1	5/10/2018 4:05:57 PM	38028
Surr: Toluene-d8	94.1	70-130	%Rec	1	5/10/2018 4:05:57 PM	38028

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit Page 13 of 24
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Lab Order **1805497**

Date Reported: 5/18/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: SW16

 Project:
 Candelario EMR
 Collection Date: 5/1/2018 12:57:00 PM

 Lab ID:
 1805497-014
 Matrix: SOIL
 Received Date: 5/9/2018 9:30:00 AM

Analyses	Result	PQL (Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	MRA
Chloride	19000	750		mg/Kg	500	5/16/2018 12:30:48 PM	38095
EPA METHOD 8015D MOD: GASOL	INE RANGE					Analyst	AG
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	5/10/2018 4:29:08 PM	38028
Surr: BFB	122	70-130		%Rec	1	5/10/2018 4:29:08 PM	38028
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANICS	3				Analyst	: Irm
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	5/14/2018 5:09:52 PM	38056
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	5/14/2018 5:09:52 PM	38056
Surr: DNOP	111	70-130		%Rec	1	5/14/2018 5:09:52 PM	38056
EPA METHOD 8260B: VOLATILES \$	SHORT LIST					Analyst	AG
Methyl tert-butyl ether (MTBE)	ND	0.048		mg/Kg	1	5/10/2018 4:29:08 PM	38028
Benzene	ND	0.024		mg/Kg	1	5/10/2018 4:29:08 PM	38028
Toluene	ND	0.048		mg/Kg	1	5/10/2018 4:29:08 PM	38028
Ethylbenzene	ND	0.048		mg/Kg	1	5/10/2018 4:29:08 PM	38028
Xylenes, Total	ND	0.096		mg/Kg	1	5/10/2018 4:29:08 PM	38028
Surr: 4-Bromofluorobenzene	133	70-130	S	%Rec	1	5/10/2018 4:29:08 PM	38028
Surr: Toluene-d8	94.2	70-130		%Rec	1	5/10/2018 4:29:08 PM	38028

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit Page 14 of 24
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Lab Order **1805497**Date Reported: **5/18/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: L10-2

 Project:
 Candelario EMR
 Collection Date: 5/1/2018 2:31:00 PM

 Lab ID:
 1805497-015
 Matrix: SOIL
 Received Date: 5/9/2018 9:30:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	16000	750	mg/Kg	500	5/16/2018 12:43:14 PM	38095
EPA METHOD 8015D MOD: GASOL	INE RANGE				Analyst	: AG
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	5/10/2018 4:52:16 PM	38028
Surr: BFB	117	70-130	%Rec	1	5/10/2018 4:52:16 PM	38028
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANICS	3			Analyst	: Irm
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	5/14/2018 5:31:56 PM	38056
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	5/14/2018 5:31:56 PM	38056
Surr: DNOP	110	70-130	%Rec	1	5/14/2018 5:31:56 PM	38056
EPA METHOD 8260B: VOLATILES S	SHORT LIST				Analyst	: AG
Methyl tert-butyl ether (MTBE)	ND	0.046	mg/Kg	1	5/10/2018 4:52:16 PM	38028
Benzene	ND	0.023	mg/Kg	1	5/10/2018 4:52:16 PM	38028
Toluene	ND	0.046	mg/Kg	1	5/10/2018 4:52:16 PM	38028
Ethylbenzene	ND	0.046	mg/Kg	1	5/10/2018 4:52:16 PM	38028
Xylenes, Total	ND	0.092	mg/Kg	1	5/10/2018 4:52:16 PM	38028
Surr: 4-Bromofluorobenzene	127	70-130	%Rec	1	5/10/2018 4:52:16 PM	38028
Surr: Toluene-d8	91.6	70-130	%Rec	1	5/10/2018 4:52:16 PM	38028

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	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 15 of 24
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit

W Sample container temperature is out of limit as specified

% Recovery outside of range due to dilution or matrix

Lab Order **1805497**Date Reported: **5/18/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: L11-1

Project: Candelario EMR
 Collection Date: 5/1/2018 2:58:00 PM

 Lab ID: 1805497-016
 Matrix: SOIL
 Received Date: 5/9/2018 9:30:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	27000	1500	mg/Kg	1E	5/16/2018 12:55:38 PM	38095
EPA METHOD 8015D MOD: GASOLIN	IE RANGE				Analyst	AG
Gasoline Range Organics (GRO)	12	4.8	mg/Kg	1	5/10/2018 5:15:27 PM	38028
Surr: BFB	113	70-130	%Rec	1	5/10/2018 5:15:27 PM	38028
EPA METHOD 8015M/D: DIESEL RAN	IGE ORGANICS	}			Analyst	TOM
Diesel Range Organics (DRO)	180	9.3	mg/Kg	1	5/16/2018 3:03:54 PM	38056
Motor Oil Range Organics (MRO)	130	47	mg/Kg	1	5/16/2018 3:03:54 PM	38056
Surr: DNOP	106	70-130	%Rec	1	5/16/2018 3:03:54 PM	38056
EPA METHOD 8260B: VOLATILES SH	ORT LIST				Analyst	AG
Methyl tert-butyl ether (MTBE)	ND	0.048	mg/Kg	1	5/10/2018 5:15:27 PM	38028
Benzene	ND	0.024	mg/Kg	1	5/10/2018 5:15:27 PM	38028
Toluene	ND	0.048	mg/Kg	1	5/10/2018 5:15:27 PM	38028
Ethylbenzene	ND	0.048	mg/Kg	1	5/10/2018 5:15:27 PM	38028
Xylenes, Total	ND	0.095	mg/Kg	1	5/10/2018 5:15:27 PM	38028
Surr: 4-Bromofluorobenzene	125	70-130	%Rec	1	5/10/2018 5:15:27 PM	38028
Surr: Toluene-d8	96.0	70-130	%Rec	1	5/10/2018 5:15:27 PM	38028

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 16 of 24
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#: **1805497**

18-May-18

Client: Souder, Miller & Associates

Project: Candelario EMR

Sample ID MB-38095 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 38095 RunNo: 51299

Prep Date: 5/14/2018 Analysis Date: 5/15/2018 SeqNo: 1667708 Units: mg/Kg

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

Chloride ND 1.5

Sample ID LCS-38095 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 38095 RunNo: 51299

Prep Date: 5/14/2018 Analysis Date: 5/15/2018 SeqNo: 1667709 Units: mg/Kg

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

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

D C----1---II N-+ I-- D-----

Page 17 of 24

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.

WO#: 1805497

18-May-18

Client: Souder, Miller & Associates

Project: Candelario EMR

Project: Candelar	10 EMR							
Sample ID LCS-38039	SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID:	38039	F	RunNo: 51216				
Prep Date: 5/10/2018	Analysis Date:	5/11/2018	5	SeqNo: 1664753	Units: mg/Kg			
Analyte	Result PQ	L SPK value	SPK Ref Val	%REC LowLimit	HighLimit %	RPD RPDLimit	Qual	
Diesel Range Organics (DRO)	48	10 50.00	0	96.4 70	130			
Surr: DNOP	4.8	5.000		96.4 70	130			
Sample ID MB-38039	SampType:	MBLK	Tes	tCode: EPA Method	d 8015M/D: Diesel	l Range Organics		
Client ID: PBS	Batch ID:	Batch ID: 38039 RunNo: 51216						
Prep Date: 5/10/2018	Analysis Date:	5/11/2018	8	SeqNo: 1664754	Units: mg/Kg			
Analyte	Result PQ	L SPK value	SPK Ref Val	%REC LowLimit	HighLimit %	RPD RPDLimit	Qual	
Diesel Range Organics (DRO)		10						
Motor Oil Range Organics (MRO)		50						
Surr: DNOP	9.9	10.00		99.2 70	130			
Sample ID MB-38056	SampType:	SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID:	38056	F	RunNo: 51235				
Prep Date: 5/10/2018	Analysis Date:	5/14/2018	8	SeqNo: 1666875	Units: mg/Kg			
Analyte	Result PQ	L SPK value	SPK Ref Val	%REC LowLimit	HighLimit %	RPD RPDLimit	Qual	
Diesel Range Organics (DRO)	ND	10						
Motor Oil Range Organics (MRO)		50						
Surr: DNOP	11	10.00		107 70	130			
Sample ID LCS-38056	SampType:	LCS	Tes	tCode: EPA Metho	d 8015M/D: Diesel	l Range Organics		
Client ID: LCSS	Batch ID:	38056	F	RunNo: 51235				
Prep Date: 5/10/2018	Analysis Date:	5/14/2018	8	SeqNo: 1666887	Units: mg/Kg			
Analyte	Result PQ	L SPK value	SPK Ref Val	%REC LowLimit	HighLimit %	RPD RPDLimit	Qual	
Diesel Range Organics (DRO)	44	10 50.00	0	88.7 70	130			
Surr: DNOP	5.0	5.000		99.8 70	130			
Sample ID 1805497-011AMS	SampType:	MS	Tes	tCode: EPA Method	d 8015M/D: Diesel	I Range Organics		
Client ID: SW17	Batch ID:	38056	F	RunNo: 51235				
Prep Date: 5/10/2018	Analysis Date:	5/14/2018	8	SeqNo: 1666890	Units: mg/Kg			
Analyte	Result PQ	L SPK value	SPK Ref Val	%REC LowLimit	HighLimit %	RPD RPDLimit	Qual	
Diesel Range Organics (DRO)		9.6 48.08	6.940	84.8 55.8	125			

Qualifiers:

Surr: DNOP

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

5.2

4.808

- ND Not Detected at the Reporting Limit
- Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank

70

130

E Value above quantitation range

108

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **1805497**

18-May-18

Client: Souder, Miller & Associates

Project: Candelario EMR

Sample ID	1805497-011AMSE	S ampTy	/pe: M \$	SD	Tes	tCode: El	PA Method	8015M/D: Die	sel Range	e Organics	
Client ID:	SW17	Batch	ID: 38	056	F	tunNo: 5	1235				
Prep Date:	5/10/2018	Analysis Da	ate: 5 /	/14/2018	S	eqNo: 1	666891	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range	Organics (DRO)	48	9.8	49.21	6.940	83.6	55.8	125	0.740	20	
Surr: DNOP		5.2		4.921		105	70	130	0	0	
Sample ID	MB-38113	SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics									
Client ID:	PBS	Batch	ID: 38113 RunNo: 51235								
Prep Date:	5/15/2018	Analysis Da	ate: 5/	/15/2018	S	SeqNo: 1	667045	Units: %Rec	;		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		10		10.00		104	70	130			
Sample ID	LCS-38113	SampTy	/pe: LC	s	Tes	Code: El	PA Method	8015M/D: Die	sel Range	e Organics	
Client ID:	LCSS	Batch	ID: 38	113	F	tunNo: 5	1235				
Prep Date:	5/15/2018	Analysis Da	ate: 5/	/15/2018	S	SeqNo: 1	667066	Units: %Rec	;		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		5.3		5.000		106	70	130			
Sample ID	LCS-38140	SampTy	/pe: LC	s	Tes	Code: El	PA Method	8015M/D: Die	sel Range	e Organics	
Client ID:	LCSS	Batch	ID: 38	140	F	tunNo: 5	1307				
Prep Date:	5/16/2018	Analysis Da	ate: 5 /	/16/2018	S	eqNo: 1	667893	Units: %Rec	;		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		4.4		5.000		88.8	70	130			

Sample ID MB-38140	SampType: MBLK	TestCode: EPA Method	l 8015M/D: Diesel Range Organi	cs
Client ID: PBS	Batch ID: 38140	RunNo: 51307		
Prep Date: 5/16/2018	Analysis Date: 5/16/2018	SeqNo: 1667894	Units: %Rec	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLin	nit Qual
Surr: DNOP	10 10.00	102 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
 - ntitation limits Page 19 of 24
- 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.

WO#: **1805497**

18-May-18

Client: Souder, Miller & Associates

Project: Candelario EMR

Sample ID MB-38023 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 38023 RunNo: 51171

Prep Date: 5/9/2018 Analysis Date: 5/10/2018 SeqNo: 1662961 Units: mg/Kg

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

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 890 1000 89.2 15 316

Sample ID LCS-38023 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 38023 RunNo: 51171

Prep Date: 5/9/2018 Analysis Date: 5/10/2018 SeqNo: 1662962 Units: mg/Kg

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 26 5.0 25.00 0 104 75.9 131 1100 1000 105 15 316 Surr: BFB

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 20 of 24

Hall Environmental Analysis Laboratory, Inc.

WO#: **1805497**

18-May-18

Client: Souder, Miller & Associates

Project: Candelario EMR

Sample ID MB-38023 SampType: MBLK TestCode: EPA Method 8021B: Volatiles **PBS** Client ID: Batch ID: 38023 RunNo: 51171 Prep Date: 5/9/2018 Analysis Date: 5/10/2018 SeqNo: 1663002 Units: mg/Kg Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Methyl tert-butyl ether (MTBE) 0.10 ND ND 0.025 Benzene Toluene ND 0.050 Ethylbenzene ND 0.050 Xylenes, Total ND 0.10 Surr: 4-Bromofluorobenzene 1.0 1.000 103 80 120

Sample ID LCS-38023	Samp	ype: LC	s	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID: LCSS	Batc	n ID: 38	023	F	RunNo: 5	1171				
Prep Date: 5/9/2018	Analysis [Date: 5/	10/2018	S	SeqNo: 1	663003	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	0.94	0.10	1.000	0	94.2	70.1	121			
Benzene	0.94	0.025	1.000	0	94.3	77.3	128			
Toluene	0.98	0.050	1.000	0	97.7	79.2	125			
Ethylbenzene	0.96	0.050	1.000	0	96.1	80.7	127			
Xylenes, Total	3.0	3.0 0.10 3.000			98.5					
Surr: 4-Bromofluorobenzene	1.0				102	80	120			

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

Sample pH Not In Range

RL Reporting Detection Limit

P

W Sample container temperature is out of limit as specified

Page 21 of 24

Hall Environmental Analysis Laboratory, Inc.

WO#: **1805497**

18-May-18

Client: Souder, Miller & Associates

Project: Candelario EMR

Sample ID 1805497-012ams	SampT	уре: М\$	64	Tes	tCode: E	PA Method	8260B: Vola	tiles Short	List			
Client ID: SW22	Batch	h ID: 38	028	F	RunNo: 5	1185						
Prep Date: 5/9/2018	Analysis D	Date: 5/	10/2018	5	SeqNo: 1	663116	Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	0.78	0.024	0.9728	0	80.6	80	120					
Toluene	0.90	0.049	0.9728	0	92.7	80	120					
Ethylbenzene	0.97	0.049	0.9728	0.005832	99.1	80	120					
Xylenes, Total	2.9	0.097	2.918	0.02089	98.3	80	120					
Surr: 4-Bromofluorobenzene	=				105	70	130					
Surr: Toluene-d8	0.4864	4 96.5 70 130										

Sample ID 1805497-012am	sd SampT	ype: MS	SD4	Tes	tCode: El	PA Method	8260B: Volat	iles Short	List	
Client ID: SW22	Batch	n ID: 38	028	F	RunNo: 5	1185				
Prep Date: 5/9/2018	Analysis D	ate: 5/	10/2018	8	SeqNo: 1	663117	Units: mg/K	ίg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.80	0.025	0.9872	0	81.3	80	120	2.43	0	
Toluene	0.92	0.049	0.9872	0	93.2	80	120	2.09	0	
Ethylbenzene	0.98	0.049	0.9872	0.005832	98.8	80	120	1.14	0	
Xylenes, Total	3.0	0.099	2.962	0.02089	99.3	80	120	2.45	0	
Surr: 4-Bromofluorobenzene	0.53		0.4936		108	70	130	0	0	
Surr: Toluene-d8	0.46		0.4936		93.8	70	130	0	0	

Sample ID Ics-38028	SampT	ype: LC	S4	Tes	tCode: El	PA Method	8260B: Volat	iles Short	List	
Client ID: BatchQC	Batch	n ID: 380	028	F	RunNo: 5	1185				
Prep Date: 5/9/2018	Analysis D	ate: 5/	10/2018	S	SeqNo: 1	663139	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.81	0.025	1.000	0	81.3	80	120			
Toluene	0.92	0.050	1.000	0	92.3	80	120			
Ethylbenzene	0.98	0.050	1.000	0	98.3	80	120			
Xylenes, Total	3.0	0.10	3.000	0	98.4	80	120			
Surr: 4-Bromofluorobenzene	0.53		0.5000		105	70	130			
Surr: Toluene-d8	0.47		0.5000		93.9	70	130			

Sample ID mb-38028	SampT	ype: ME	BLK	Tes	tCode: E	PA Method	8260B: Volat	iles Short	List	
Client ID: PBS	Batch	1D: 38	028	F	RunNo: 5	1185				
Prep Date: 5/9/2018	Analysis D	ate: 5/	10/2018	S	SeqNo: 1	663140	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	ND	0.050								
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								

Qualifiers:

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **1805497**

18-May-18

Client: Souder, Miller & Associates

Project: Candelario EMR

Sample ID mb-38028 SampType: MBLK TestCode: EPA Method 8260B: Volatiles Short List **PBS** Client ID: Batch ID: 38028 RunNo: 51185 SeqNo: 1663140 Prep Date: 5/9/2018 Analysis Date: 5/10/2018 Units: mg/Kg Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual

 Xylenes, Total
 ND
 0.10

 Surr: 4-Bromofluorobenzene
 0.64
 0.5000
 128
 70
 130

 Surr: Toluene-d8
 0.45
 0.5000
 90.0
 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 23 of 24

Hall Environmental Analysis Laboratory, Inc.

WO#: 1805497

18-May-18

Souder, Miller & Associates **Client:**

Project: Candelario EMR

Sample ID 1805497-011ams	SampT	ype: MS	5	Tes	tCode: El	PA Method	8015D Mod:	Gasoline	Range	
Client ID: SW17	Batch	n ID: 380	028	F	RunNo: 5	1185				
Prep Date: 5/9/2018	Analysis D	ate: 5/	10/2018	8	SeqNo: 1	663084	Units: mg/k	ζg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	20	4.8	24.08	0	85.0	64.7	142			
Surr: BFB	490		481.7		102	70	130			
Sample ID 1805497-011ams	d SampT	ype: MS	SD	Tes	tCode: EI	PA Method	8015D Mod:	Gasoline	Range	
Client ID: SW17	Batch	n ID: 380	028	F	RunNo: 5	1185				
Prep Date: 5/9/2018	Analysis D	ate: 5/	10/2018	8	SeqNo: 1	663085	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Analyte Gasoline Range Organics (GRO)	Result 21	PQL 4.8	SPK value 24.11	SPK Ref Val	%REC 87.8	LowLimit 64.7	HighLimit 142	%RPD 3.38	RPDLimit 20	Qual
										Qual
Gasoline Range Organics (GRO)	21 510		24.11 482.2	0	87.8 105	64.7 70	142	3.38	20 0	Qual
Gasoline Range Organics (GRO) Surr: BFB	21 510 SampT	4.8	24.11 482.2	0 Tes	87.8 105	64.7 70 PA Method	142 130	3.38	20 0	Qual

Sample ID Ics-38028	SampT	ype: LC	S	Tes	tCode: El	PA Method	8015D Mod:	Gasoline	Range	
Client ID: LCSS	Batch	1D: 38	028	F	RunNo: 5	1185				
Prep Date: 5/9/2018	Analysis D	ate: 5/	10/2018	8	SeqNo: 1	663109	Units: mg/k	ζg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	20	5.0	25.00	0	81.7	70	130			
Surr: BFB	510		500.0		103	70	130			

Sample ID mb-38028	Sampi	ype: wit	SLK	res	Code: EI	PA Wethod	80.120 เพอต:	Gasonne	Range	
Client ID: PBS	Batch	ID: 38	028	F	RunNo: 5	1185				
Prep Date: 5/9/2018	Analysis D	ate: 5/	10/2018	S	SeqNo: 1	663110	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	590		500.0		118	70	130			

Qualifiers:

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

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107

Sample Log-In Check List

Website: www.hallenvironmental.com

Client Name: SMA-CARLSBAD Work Order Number: 1805497 RcptNo: 1 Received By: Isaiah Ortiz 5/9/2018 9:30:00 AM Completed By: **Ashley Gallegos** 5/9/2018 11:58:33 AM Labered JB 03/09 Reviewed By: A 05/09/18 Chain of Custody Yes 🔽 No 🗌 1. Is Chain of Custody complete? Not Present 2. How was the sample delivered? Courier Loa In 3. Was an attempt made to cool the samples? No 🗆 NA 🗌 Yes 🗹 Were all samples received at a temperature of >0° C to 6.0°C Yes 🗹 NA 🗔 5. Sample(s) in proper container(s)? Yes 🗹 No 🗀 Sufficient sample volume for indicated test(s)? Yes 🗹 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? No 🗀 No VOA Vials 🗸 Yes Yes ∐ 10. Were any sample containers received broken? No 🔽 # of preserved bottles checked 11. Does paperwork match bottle labels? No 🗌 for pH: Yes 🗸 (Note discrepancies on chain of custody) (<2 or >12 unless noted) Adjusted? No \square 12. Are matrices correctly identified on Chain of Custody? Yes 🔽 No 🗌 13. Is it clear what analyses were requested? Yes 🔽 14. Were all holding times able to be met? Yes 🔽 No 🗔 Checked by (If no, notify customer for authorization.) Special Handling (if applicable) 15. Was client notified of all discrepancies with this order? Yes 🗌 No 🗀 NA 🗸 Person Notified: Date By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person Regarding: Client Instructions: 16. Additional remarks: 17. Cooler Information Cooler No Temp °C Condition Seal Intact Seal No Seal Date 1.8 Good

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Chair	Client: SNA		Mailing Address:	:	Phone #:	email or Fax#:	QA/QC Package:	☐ Standard	Accreditation	I NELAP	☐ EDD (Type)	Date Time	118 6120	12:41	12:53	12:37	12:32	13:09	1:15	1:32	12:47	11:45	70:1	# 1:23	<u>مه</u>	ate: Time:	8/10/8

	Chain-of-Custody Record	Turn-Around Time: ☐ Standard Rush 54ay.		HALL	ENVIE	NO.	HALL ENVIRONMENTA	<u> </u>
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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

May 21, 2018

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

FAX

RE: Candelario EMR OrderNo.: 1805498

Dear Austin Weyant:

Hall Environmental Analysis Laboratory received 36 sample(s) on 5/9/2018 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

Indest

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 5/21/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: HSW1

 Project:
 Candelario EMR
 Collection Date: 5/2/2018 10:35:00 AM

 Lab ID:
 1805498-001
 Matrix: SOIL
 Received Date: 5/9/2018 9:30:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	MRA
Chloride	840	30	mg/Kg	20	5/15/2018 10:21:17 AM	38115
EPA METHOD 8015D MOD: GASOLIN	IE RANGE				Analyst:	AG
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	5/10/2018 11:48:37 PM	38028
Surr: BFB	116	70-130	%Rec	1	5/10/2018 11:48:37 PM	38028
EPA METHOD 8015M/D: DIESEL RAM	IGE ORGANICS	3			Analyst:	Irm
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	5/14/2018 6:16:47 PM	38056
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	5/14/2018 6:16:47 PM	38056
Surr: DNOP	111	70-130	%Rec	1	5/14/2018 6:16:47 PM	38056
EPA METHOD 8260B: VOLATILES S	HORT LIST				Analyst:	AG
Methyl tert-butyl ether (MTBE)	ND	0.050	mg/Kg	1	5/10/2018 11:48:37 PM	38028
Benzene	ND	0.025	mg/Kg	1	5/10/2018 11:48:37 PM	38028
Toluene	ND	0.050	mg/Kg	1	5/10/2018 11:48:37 PM	38028
Ethylbenzene	ND	0.050	mg/Kg	1	5/10/2018 11:48:37 PM	38028
Xylenes, Total	ND	0.10	mg/Kg	1	5/10/2018 11:48:37 PM	38028
Surr: 4-Bromofluorobenzene	127	70-130	%Rec	1	5/10/2018 11:48:37 PM	38028

*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 1 of 43
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified
	D H ND	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	D Sample Diluted Due to Matrix E H Holding times for preparation or analysis exceeded J ND Not Detected at the Reporting Limit P PQL Practical Quanitative Limit RL

Date Reported: 5/21/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: HSW2-1

 Project:
 Candelario EMR
 Collection Date: 5/2/2018 12:00:00 PM

 Lab ID:
 1805498-002
 Matrix: SOIL
 Received Date: 5/9/2018 9:30:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	80	30	mg/Kg	20	5/15/2018 10:58:30 AM	38115
EPA METHOD 8015D MOD: GASOL	INE RANGE				Analyst	: AG
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/11/2018 12:11:42 AM	38028
Surr: BFB	111	70-130	%Rec	1	5/11/2018 12:11:42 AM	38028
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANICS	}			Analyst	: Irm
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	5/14/2018 6:39:06 PM	38056
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	5/14/2018 6:39:06 PM	38056
Surr: DNOP	112	70-130	%Rec	1	5/14/2018 6:39:06 PM	38056
EPA METHOD 8260B: VOLATILES S	SHORT LIST				Analyst	: AG
Methyl tert-butyl ether (MTBE)	ND	0.049	mg/Kg	1	5/11/2018 12:11:42 AM	38028
Benzene	ND	0.024	mg/Kg	1	5/11/2018 12:11:42 AM	38028
Toluene	ND	0.049	mg/Kg	1	5/11/2018 12:11:42 AM	38028
Ethylbenzene	ND	0.049	mg/Kg	1	5/11/2018 12:11:42 AM	38028
Xylenes, Total	ND	0.097	mg/Kg	1	5/11/2018 12:11:42 AM	38028
Surr: 4-Bromofluorobenzene	120	70-130	%Rec	1	5/11/2018 12:11:42 AM	38028
Surr: Toluene-d8	89.6	70-130	%Rec	1	5/11/2018 12:11:42 AM	38028

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 2 of 43
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Date Reported: 5/21/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: HBH1

 Project:
 Candelario EMR
 Collection Date: 5/2/2018 10:40:00 PM

 Lab ID:
 1805498-003
 Matrix: SOIL
 Received Date: 5/9/2018 9:30:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	smb
Chloride	11000	750	mg/Kg	500	5/16/2018 1:19:22 PM	38115
EPA METHOD 8015D MOD: GASOL	INE RANGE				Analyst	: AG
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	5/11/2018 12:34:54 AM	38028
Surr: BFB	119	70-130	%Rec	1	5/11/2018 12:34:54 AM	38028
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANICS	3			Analyst	: Irm
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	5/14/2018 7:01:16 PM	38056
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	5/14/2018 7:01:16 PM	38056
Surr: DNOP	103	70-130	%Rec	1	5/14/2018 7:01:16 PM	38056
EPA METHOD 8260B: VOLATILES \$	SHORT LIST				Analyst	: AG
Methyl tert-butyl ether (MTBE)	ND	0.047	mg/Kg	1	5/11/2018 12:34:54 AM	38028
Benzene	ND	0.023	mg/Kg	1	5/11/2018 12:34:54 AM	38028
Toluene	ND	0.047	mg/Kg	1	5/11/2018 12:34:54 AM	38028
Ethylbenzene	ND	0.047	mg/Kg	1	5/11/2018 12:34:54 AM	38028
Xylenes, Total	ND	0.093	mg/Kg	1	5/11/2018 12:34:54 AM	38028
Surr: 4-Bromofluorobenzene	130	70-130	%Rec	1	5/11/2018 12:34:54 AM	38028
Surr: Toluene-d8	96.9	70-130	%Rec	1	5/11/2018 12:34:54 AM	38028

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

Date Reported: 5/21/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: HSW3

Project: Candelario EMR
 Collection Date: 5/2/2018 11:00:00 AM

 Lab ID: 1805498-004
 Matrix: SOIL
 Received Date: 5/9/2018 9:30:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	1100	30	mg/Kg	20	5/15/2018 11:23:20 AM	38115
EPA METHOD 8015D MOD: GASOL	INE RANGE				Analyst	AG
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/11/2018 12:58:00 AM	38028
Surr: BFB	117	70-130	%Rec	1	5/11/2018 12:58:00 AM	38028
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANICS	3			Analyst	: Irm
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	5/14/2018 7:23:34 PM	38056
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	5/14/2018 7:23:34 PM	38056
Surr: DNOP	104	70-130	%Rec	1	5/14/2018 7:23:34 PM	38056
EPA METHOD 8260B: VOLATILES \$	SHORT LIST				Analyst	: AG
Methyl tert-butyl ether (MTBE)	ND	0.049	mg/Kg	1	5/11/2018 12:58:00 AM	38028
Benzene	ND	0.024	mg/Kg	1	5/11/2018 12:58:00 AM	38028
Toluene	ND	0.049	mg/Kg	1	5/11/2018 12:58:00 AM	38028
Ethylbenzene	ND	0.049	mg/Kg	1	5/11/2018 12:58:00 AM	38028
Xylenes, Total	ND	0.098	mg/Kg	1	5/11/2018 12:58:00 AM	38028
Surr: 4-Bromofluorobenzene	127	70-130	%Rec	1	5/11/2018 12:58:00 AM	38028
Surr: Toluene-d8	97.1	70-130	%Rec	1	5/11/2018 12:58:00 AM	38028

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 4 of 43
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Date Reported: 5/21/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: HSW4-1

 Project:
 Candelario EMR
 Collection Date: 5/2/2018 12:30:00 PM

 Lab ID:
 1805498-005
 Matrix: SOIL
 Received Date: 5/9/2018 9:30:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	720	30	mg/Kg	20	5/15/2018 11:35:45 AM	38115
EPA METHOD 8015D MOD: GASOLI	NE RANGE				Analyst	: AG
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	5/11/2018 1:21:05 AM	38028
Surr: BFB	114	70-130	%Rec	1	5/11/2018 1:21:05 AM	38028
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANICS	;			Analyst	: TOM
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	5/16/2018 1:35:29 PM	38056
Motor Oil Range Organics (MRO)	73	48	mg/Kg	1	5/16/2018 1:35:29 PM	38056
Surr: DNOP	70.0	70-130	%Rec	1	5/16/2018 1:35:29 PM	38056
EPA METHOD 8260B: VOLATILES S	SHORT LIST				Analyst	: AG
Methyl tert-butyl ether (MTBE)	ND	0.048	mg/Kg	1	5/11/2018 1:21:05 AM	38028
Benzene	ND	0.024	mg/Kg	1	5/11/2018 1:21:05 AM	38028
Toluene	ND	0.048	mg/Kg	1	5/11/2018 1:21:05 AM	38028
Ethylbenzene	ND	0.048	mg/Kg	1	5/11/2018 1:21:05 AM	38028
Xylenes, Total	ND	0.095	mg/Kg	1	5/11/2018 1:21:05 AM	38028
Surr: 4-Bromofluorobenzene	124	70-130	%Rec	1	5/11/2018 1:21:05 AM	38028
Surr: Toluene-d8	83.4	70-130	%Rec	1	5/11/2018 1:21:05 AM	38028

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 5 of 43
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Date Reported: 5/21/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: HSW5

Project: Candelario EMR
 Collection Date: 5/2/2018 11:20:00 AM

 Lab ID: 1805498-006
 Matrix: SOIL
 Received Date: 5/9/2018 9:30:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: MRA
Chloride	880	30	mg/Kg	20	5/15/2018 12:12:58 PM	38115
EPA METHOD 8015D MOD: GASOL	INE RANGE				Analyst	: AG
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	5/11/2018 1:44:07 AM	38028
Surr: BFB	117	70-130	%Rec	1	5/11/2018 1:44:07 AM	38028
EPA METHOD 8015M/D: DIESEL RA	ANGE ORGANICS	}			Analyst	: Irm
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	5/14/2018 8:08:02 PM	38056
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	5/14/2018 8:08:02 PM	38056
Surr: DNOP	102	70-130	%Rec	1	5/14/2018 8:08:02 PM	38056
EPA METHOD 8260B: VOLATILES	SHORT LIST				Analyst	: AG
Methyl tert-butyl ether (MTBE)	ND	0.047	mg/Kg	1	5/11/2018 1:44:07 AM	38028
Benzene	ND	0.023	mg/Kg	1	5/11/2018 1:44:07 AM	38028
Toluene	ND	0.047	mg/Kg	1	5/11/2018 1:44:07 AM	38028
Ethylbenzene	ND	0.047	mg/Kg	1	5/11/2018 1:44:07 AM	38028
Xylenes, Total	ND	0.094	mg/Kg	1	5/11/2018 1:44:07 AM	38028
Surr: 4-Bromofluorobenzene	127	70-130	%Rec	1	5/11/2018 1:44:07 AM	38028
Surr: Toluene-d8	94.7	70-130	%Rec	1	5/11/2018 1:44:07 AM	38028

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 6 of 43
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Date Reported: 5/21/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: HSW7

Project: Candelario EMR
 Collection Date: 5/2/2018 11:37:00 AM

 Lab ID: 1805498-007
 Matrix: SOIL
 Received Date: 5/9/2018 9:30:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	340	30	mg/Kg	20	5/15/2018 12:25:23 PM	38115
EPA METHOD 8015D MOD: GASOL	INE RANGE				Analyst	: AG
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/11/2018 2:07:14 AM	38028
Surr: BFB	119	70-130	%Rec	1	5/11/2018 2:07:14 AM	38028
EPA METHOD 8015M/D: DIESEL RA	ANGE ORGANICS	}			Analyst	: Irm
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	5/14/2018 8:30:22 PM	38056
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	5/14/2018 8:30:22 PM	38056
Surr: DNOP	107	70-130	%Rec	1	5/14/2018 8:30:22 PM	38056
EPA METHOD 8260B: VOLATILES	SHORT LIST				Analyst	: AG
Methyl tert-butyl ether (MTBE)	ND	0.049	mg/Kg	1	5/11/2018 2:07:14 AM	38028
Benzene	ND	0.024	mg/Kg	1	5/11/2018 2:07:14 AM	38028
Toluene	ND	0.049	mg/Kg	1	5/11/2018 2:07:14 AM	38028
Ethylbenzene	ND	0.049	mg/Kg	1	5/11/2018 2:07:14 AM	38028
Xylenes, Total	ND	0.098	mg/Kg	1	5/11/2018 2:07:14 AM	38028
Surr: 4-Bromofluorobenzene	129	70-130	%Rec	1	5/11/2018 2:07:14 AM	38028
Surr: Toluene-d8	93.2	70-130	%Rec	1	5/11/2018 2:07:14 AM	38028

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 7 of 43
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Date Reported: 5/21/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: HSW6-1

 Project:
 Candelario EMR
 Collection Date: 5/2/2018 1:00:00 PM

 Lab ID:
 1805498-008
 Matrix: SOIL
 Received Date: 5/9/2018 9:30:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	280	30	mg/Kg	20	5/15/2018 1:02:37 PM	38115
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS	;			Analyst	: Irm
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	5/15/2018 6:20:08 PM	38056
Motor Oil Range Organics (MRO)	63	48	mg/Kg	1	5/15/2018 6:20:08 PM	38056
Surr: DNOP	111	70-130	%Rec	1	5/15/2018 6:20:08 PM	38056
EPA METHOD 8015D: GASOLINE RAM	NGE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	5/11/2018 1:41:05 AM	38032
Surr: BFB	91.3	15-316	%Rec	1	5/11/2018 1:41:05 AM	38032
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Methyl tert-butyl ether (MTBE)	ND	0.092	mg/Kg	1	5/11/2018 1:41:05 AM	38032
Benzene	ND	0.023	mg/Kg	1	5/11/2018 1:41:05 AM	38032
Toluene	ND	0.046	mg/Kg	1	5/11/2018 1:41:05 AM	38032
Ethylbenzene	ND	0.046	mg/Kg	1	5/11/2018 1:41:05 AM	38032
Xylenes, Total	ND	0.092	mg/Kg	1	5/11/2018 1:41:05 AM	38032
Surr: 4-Bromofluorobenzene	102	80-120	%Rec	1	5/11/2018 1:41:05 AM	38032

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	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 8 of 43
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit

W Sample container temperature is out of limit as specified

% Recovery outside of range due to dilution or matrix

Date Reported: 5/21/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: HSW8-1

 Project:
 Candelario EMR
 Collection Date: 5/2/2018 1:23:00 PM

 Lab ID:
 1805498-009
 Matrix:
 SOIL
 Received Date: 5/9/2018 9:30:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	510	30	mg/Kg	20	5/15/2018 1:15:02 PM	38115
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS	;			Analyst	: Irm
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	5/15/2018 7:04:33 PM	38056
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	5/15/2018 7:04:33 PM	38056
Surr: DNOP	109	70-130	%Rec	1	5/15/2018 7:04:33 PM	38056
EPA METHOD 8015D: GASOLINE RAM	NGE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	5/11/2018 2:50:56 AM	38032
Surr: BFB	94.8	15-316	%Rec	1	5/11/2018 2:50:56 AM	38032
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Methyl tert-butyl ether (MTBE)	ND	0.096	mg/Kg	1	5/11/2018 2:50:56 AM	38032
Benzene	ND	0.024	mg/Kg	1	5/11/2018 2:50:56 AM	38032
Toluene	ND	0.048	mg/Kg	1	5/11/2018 2:50:56 AM	38032
Ethylbenzene	ND	0.048	mg/Kg	1	5/11/2018 2:50:56 AM	38032
Xylenes, Total	ND	0.096	mg/Kg	1	5/11/2018 2:50:56 AM	38032
Surr: 4-Bromofluorobenzene	104	80-120	%Rec	1	5/11/2018 2:50:56 AM	38032

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	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 9 of 43
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit

W Sample container temperature is out of limit as specified

% Recovery outside of range due to dilution or matrix

Date Reported: 5/21/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: HSW9

Project: Candelario EMR
 Collection Date: 5/2/2018 12:12:00 PM

 Lab ID: 1805498-010
 Matrix: SOIL
 Received Date: 5/9/2018 9:30:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	210	30	mg/Kg	20	5/15/2018 1:27:26 PM	38115
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS	;			Analyst	: Irm
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	5/14/2018 9:59:27 PM	38056
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	5/14/2018 9:59:27 PM	38056
Surr: DNOP	108	70-130	%Rec	1	5/14/2018 9:59:27 PM	38056
EPA METHOD 8015D: GASOLINE RANG	E				Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	5/11/2018 4:01:40 AM	38032
Surr: BFB	84.0	15-316	%Rec	1	5/11/2018 4:01:40 AM	38032
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Methyl tert-butyl ether (MTBE)	ND	0.095	mg/Kg	1	5/11/2018 4:01:40 AM	38032
Benzene	ND	0.024	mg/Kg	1	5/11/2018 4:01:40 AM	38032
Toluene	ND	0.048	mg/Kg	1	5/11/2018 4:01:40 AM	38032
Ethylbenzene	ND	0.048	mg/Kg	1	5/11/2018 4:01:40 AM	38032
Xylenes, Total	ND	0.095	mg/Kg	1	5/11/2018 4:01:40 AM	38032
Surr: 4-Bromofluorobenzene	101	80-120	%Rec	1	5/11/2018 4:01:40 AM	38032

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 10 of 43
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	\mathbf{W}	Sample container temperature is out of limit as specified

Date Reported: 5/21/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: HSW10-1

 Project:
 Candelario EMR
 Collection Date: 5/2/2018 2:00:00 PM

 Lab ID:
 1805498-011
 Matrix: SOIL
 Received Date: 5/9/2018 9:30:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	98	30	mg/Kg	20	5/15/2018 1:39:51 PM	38115
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS	3			Analyst	: TOM
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	5/16/2018 2:19:40 PM	38056
Motor Oil Range Organics (MRO)	120	49	mg/Kg	1	5/16/2018 2:19:40 PM	38056
Surr: DNOP	100	70-130	%Rec	1	5/16/2018 2:19:40 PM	38056
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	5/11/2018 4:25:17 AM	38032
Surr: BFB	85.0	15-316	%Rec	1	5/11/2018 4:25:17 AM	38032
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Methyl tert-butyl ether (MTBE)	ND	0.092	mg/Kg	1	5/11/2018 4:25:17 AM	38032
Benzene	ND	0.023	mg/Kg	1	5/11/2018 4:25:17 AM	38032
Toluene	ND	0.046	mg/Kg	1	5/11/2018 4:25:17 AM	38032
Ethylbenzene	ND	0.046	mg/Kg	1	5/11/2018 4:25:17 AM	38032
Xylenes, Total	ND	0.092	mg/Kg	1	5/11/2018 4:25:17 AM	38032
Surr: 4-Bromofluorobenzene	102	80-120	%Rec	1	5/11/2018 4:25:17 AM	38032

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 11 of 43
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 5/21/2018

CLIENT: Souder, Miller & Associates Client Sample ID: HSW14

 Project:
 Candelario EMR
 Collection Date: 5/2/2018 1:30:00 PM

 Lab ID:
 1805498-012
 Matrix: SOIL
 Received Date: 5/9/2018 9:30:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	smb
Chloride	1200	75	mg/Kg	50	5/16/2018 1:56:35 PM	38115
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS	;			Analyst	: Irm
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	5/15/2018 8:33:49 PM	38056
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	5/15/2018 8:33:49 PM	38056
Surr: DNOP	113	70-130	%Rec	1	5/15/2018 8:33:49 PM	38056
EPA METHOD 8015D: GASOLINE RANG	Ε				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	5/11/2018 4:48:54 AM	38032
Surr: BFB	90.8	15-316	%Rec	1	5/11/2018 4:48:54 AM	38032
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Methyl tert-butyl ether (MTBE)	ND	0.097	mg/Kg	1	5/11/2018 4:48:54 AM	38032
Benzene	ND	0.024	mg/Kg	1	5/11/2018 4:48:54 AM	38032
Toluene	ND	0.048	mg/Kg	1	5/11/2018 4:48:54 AM	38032
Ethylbenzene	ND	0.048	mg/Kg	1	5/11/2018 4:48:54 AM	38032
Xylenes, Total	ND	0.097	mg/Kg	1	5/11/2018 4:48:54 AM	38032
Surr: 4-Bromofluorobenzene	103	80-120	%Rec	1	5/11/2018 4:48:54 AM	38032

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 12 of 43
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Lab Order **1805498**Date Reported: **5/21/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: HBH11-1'

 Project:
 Candelario EMR
 Collection Date: 5/2/2018 2:47:00 PM

 Lab ID:
 1805498-013
 Matrix: SOIL
 Received Date: 5/9/2018 9:30:00 AM

Analyses	Result	PQL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analy	st: smb
Chloride	5200	300	mg/Kg	200 5/16/2018 2:08:59 PM	M 38115

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 limit Page 13 of 43
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc. Date Reported: 5/21/2018

CLIENT: Souder, Miller & Associates Client Sample ID: HBH7-2.5'

 Project:
 Candelario EMR
 Collection Date: 5/2/2018 12:50:00 PM

 Lab ID:
 1805498-014
 Matrix: SOIL
 Received Date: 5/9/2018 9:30:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	210	30	mg/Kg	20	5/15/2018 2:41:53 PM	38115
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANICS	;			Analyst	: Irm
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	5/14/2018 11:06:18 PM	38056
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	5/14/2018 11:06:18 PM	38056
Surr: DNOP	108	70-130	%Rec	1	5/14/2018 11:06:18 PM	38056
EPA METHOD 8015D: GASOLINE RA	ANGE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/11/2018 5:24:38 PM	38032
Surr: BFB	92.8	15-316	%Rec	1	5/11/2018 5:24:38 PM	38032
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Methyl tert-butyl ether (MTBE)	ND	0.097	mg/Kg	1	5/11/2018 5:24:38 PM	38032
Benzene	ND	0.024	mg/Kg	1	5/11/2018 5:24:38 PM	38032
Toluene	ND	0.049	mg/Kg	1	5/11/2018 5:24:38 PM	38032
Ethylbenzene	ND	0.049	mg/Kg	1	5/11/2018 5:24:38 PM	38032
Xylenes, Total	ND	0.097	mg/Kg	1	5/11/2018 5:24:38 PM	38032
Surr: 4-Bromofluorobenzene	104	80-120	%Rec	1	5/11/2018 5:24:38 PM	38032

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit Page 14 of 43
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Lab Order **1805498**

Date Reported: 5/21/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: HBH8-2'

 Project:
 Candelario EMR
 Collection Date: 5/2/2018 1:25:00 PM

 Lab ID:
 1805498-015
 Matrix:
 SOIL
 Received Date: 5/9/2018 9:30:00 AM

Analyses	Result	PQL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analy	yst: smb
Chloride	3400	150	mg/Kg	100 5/16/2018 2:21:23 P	M 38115

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

Qualifiers: Value exceeds Maximum Contaminant Level. Analyte detected in the associated Method Blank D Sample Diluted Due to Matrix Е Value above quantitation range Analyte detected below quantitation limits Page 15 of 43 Н Holding times for preparation or analysis exceeded J ND Not Detected at the Reporting Limit P Sample pH Not In Range PQL Practical Quanitative Limit RL Reporting Detection Limit % Recovery outside of range due to dilution or matrix Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 5/21/2018

CLIENT: Souder, Miller & Associates Client Sample ID: HBH9-2.5'

 Project:
 Candelario EMR
 Collection Date: 5/2/2018 1:45:00 PM

 Lab ID:
 1805498-016
 Matrix: SOIL
 Received Date: 5/9/2018 9:30:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	910	30	mg/Kg	20	5/15/2018 3:06:42 PM	38115
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS				Analyst	: Irm
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	5/15/2018 9:18:32 PM	38056
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	5/15/2018 9:18:32 PM	38056
Surr: DNOP	110	70-130	%Rec	1	5/15/2018 9:18:32 PM	38056
EPA METHOD 8015D: GASOLINE RAI	NGE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/11/2018 5:48:06 PM	38032
Surr: BFB	92.6	15-316	%Rec	1	5/11/2018 5:48:06 PM	38032
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Methyl tert-butyl ether (MTBE)	ND	0.097	mg/Kg	1	5/11/2018 5:48:06 PM	38032
Benzene	ND	0.024	mg/Kg	1	5/11/2018 5:48:06 PM	38032
Toluene	ND	0.049	mg/Kg	1	5/11/2018 5:48:06 PM	38032
Ethylbenzene	ND	0.049	mg/Kg	1	5/11/2018 5:48:06 PM	38032
Xylenes, Total	ND	0.097	mg/Kg	1	5/11/2018 5:48:06 PM	38032
Surr: 4-Bromofluorobenzene	104	80-120	%Rec	1	5/11/2018 5:48:06 PM	38032

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 16 of 43
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Lab Order **1805498**Date Reported: **5/21/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: HBH11-1.5'

Project: Candelario EMR
 Collection Date: 5/2/2018 3:00:00 PM

 Lab ID: 1805498-017
 Matrix: SOIL
 Received Date: 5/9/2018 9:30:00 AM

Analyses	Result	PQL Qua	l Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analy	/st: MRA
Chloride	450	30	mg/Kg	20	5/15/2018 3:19:06 PI	M 38115

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit Page 17 of 43
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified
				r

Date Reported: 5/21/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: HBH7-3'

 Project:
 Candelario EMR
 Collection Date: 5/2/2018 1:08:00 PM

 Lab ID:
 1805498-018
 Matrix: SOIL
 Received Date: 5/9/2018 9:30:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	790	30	mg/Kg	20	5/15/2018 3:31:31 PM	38115
EPA METHOD 8015M/D: DIESEL RAI	NGE ORGANICS	;			Analyst	: Irm
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	5/15/2018 12:34:52 AM	38069
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	5/15/2018 12:34:52 AM	38069
Surr: DNOP	110	70-130	%Rec	1	5/15/2018 12:34:52 AM	38069
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	5/12/2018 12:25:30 AM	38032
Surr: BFB	93.4	15-316	%Rec	1	5/12/2018 12:25:30 AM	38032
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Methyl tert-butyl ether (MTBE)	ND	0.095	mg/Kg	1	5/12/2018 12:25:30 AM	38032
Benzene	ND	0.024	mg/Kg	1	5/12/2018 12:25:30 AM	38032
Toluene	ND	0.048	mg/Kg	1	5/12/2018 12:25:30 AM	38032
Ethylbenzene	ND	0.048	mg/Kg	1	5/12/2018 12:25:30 AM	38032
Xylenes, Total	ND	0.095	mg/Kg	1	5/12/2018 12:25:30 AM	38032
Surr: 4-Bromofluorobenzene	104	80-120	%Rec	1	5/12/2018 12:25:30 AM	38032

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 18 of 43
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Lab Order **1805498**Date Reported: **5/21/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: HBH2-2'

Project: Candelario EMR
 Collection Date: 5/2/2018 10:40:00 AM

 Lab ID: 1805498-019
 Matrix: SOIL
 Received Date: 5/9/2018 9:30:00 AM

Analyses	Result	PQL Qua	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analy	yst: smb
Chloride	6700	300	mg/Kg	200 5/16/2018 2:33:48 P	M 38134

*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	Е	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 19 of 43
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified
	D H ND	 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 	D Sample Diluted Due to Matrix E H Holding times for preparation or analysis exceeded J ND Not Detected at the Reporting Limit P PQL Practical Quanitative Limit RL

Date Reported: 5/21/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: HBH4-3'

 Project:
 Candelario EMR
 Collection Date: 5/2/2018 11:30:00 AM

 Lab ID:
 1805498-020
 Matrix: SOIL
 Received Date: 5/9/2018 9:30:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	smb
Chloride	7900	300	mg/Kg	200	5/16/2018 2:46:13 PM	38115
EPA METHOD 8015M/D: DIESEL RANG	SE ORGANICS	3			Analyst	: Irm
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	5/15/2018 12:56:59 AM	38069
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	5/15/2018 12:56:59 AM	38069
Surr: DNOP	111	70-130	%Rec	1	5/15/2018 12:56:59 AM	38069
EPA METHOD 8015D: GASOLINE RAN	GE				Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	5/12/2018 12:48:48 AM	38032
Surr: BFB	91.2	15-316	%Rec	1	5/12/2018 12:48:48 AM	38032
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Methyl tert-butyl ether (MTBE)	ND	0.095	mg/Kg	1	5/12/2018 12:48:48 AM	38032
Benzene	ND	0.024	mg/Kg	1	5/12/2018 12:48:48 AM	38032
Toluene	ND	0.048	mg/Kg	1	5/12/2018 12:48:48 AM	38032
Ethylbenzene	ND	0.048	mg/Kg	1	5/12/2018 12:48:48 AM	38032
Xylenes, Total	ND	0.095	mg/Kg	1	5/12/2018 12:48:48 AM	38032
Surr: 4-Bromofluorobenzene	102	80-120	%Rec	1	5/12/2018 12:48:48 AM	38032

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

Lab Order **1805498**Date Reported: **5/21/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: HBH3-2'

 Project:
 Candelario EMR
 Collection Date: 5/2/2018 11:00:00 AM

 Lab ID:
 1805498-021
 Matrix: SOIL
 Received Date: 5/9/2018 9:30:00 AM

Analyses	Result	PQL Qua	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analy	/st: smb
Chloride	2000	75	mg/Kg	50 5/16/2018 2:58:37 PI	M 38134

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 21 of 43
	ND Not Detected at the Reporting Limit		P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Date Reported: 5/21/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: HBH5-3'

 Project:
 Candelario EMR
 Collection Date: 5/2/2018 11:50:00 AM

 Lab ID:
 1805498-022
 Matrix: SOIL
 Received Date: 5/9/2018 9:30:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	smb
Chloride	3400	150	mg/Kg	100	5/16/2018 3:11:02 PM	38134
EPA METHOD 8015M/D: DIESEL RAN	IGE ORGANICS	6			Analyst	: Irm
Diesel Range Organics (DRO)	ND	7.8	mg/Kg	1	5/15/2018 1:19:22 AM	38069
Motor Oil Range Organics (MRO)	ND	39	mg/Kg	1	5/15/2018 1:19:22 AM	38069
Surr: DNOP	111	70-130	%Rec	1	5/15/2018 1:19:22 AM	38069
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	5/12/2018 1:12:09 AM	38032
Surr: BFB	91.2	15-316	%Rec	1	5/12/2018 1:12:09 AM	38032
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Methyl tert-butyl ether (MTBE)	ND	0.094	mg/Kg	1	5/12/2018 1:12:09 AM	38032
Benzene	ND	0.023	mg/Kg	1	5/12/2018 1:12:09 AM	38032
Toluene	ND	0.047	mg/Kg	1	5/12/2018 1:12:09 AM	38032
Ethylbenzene	ND	0.047	mg/Kg	1	5/12/2018 1:12:09 AM	38032
Xylenes, Total	ND	0.094	mg/Kg	1	5/12/2018 1:12:09 AM	38032
Surr: 4-Bromofluorobenzene	103	80-120	%Rec	1	5/12/2018 1:12:09 AM	38032

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded		Analyte detected below quantitation limit Page 22 of 43
	ND Not Detected at the Reporting Limit		P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Date Reported: 5/21/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: HBH6-3.5'

 Project:
 Candelario EMR
 Collection Date: 5/2/2018 12:07:00 PM

 Lab ID:
 1805498-023
 Matrix: SOIL
 Received Date: 5/9/2018 9:30:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	490	30	mg/Kg	20	5/15/2018 5:23:01 PM	38134
EPA METHOD 8015M/D: DIESEL RAI	NGE ORGANICS	;			Analyst	TOM
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	5/13/2018 8:30:34 AM	38069
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	5/13/2018 8:30:34 AM	38069
Surr: DNOP	88.7	70-130	%Rec	1	5/13/2018 8:30:34 AM	38069
EPA METHOD 8015D: GASOLINE RA				Analyst	NSB	
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/12/2018 1:35:44 AM	38032
Surr: BFB	94.0	15-316	%Rec	1	5/12/2018 1:35:44 AM	38032
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Methyl tert-butyl ether (MTBE)	ND	0.098	mg/Kg	1	5/12/2018 1:35:44 AM	38032
Benzene	ND	0.024	mg/Kg	1	5/12/2018 1:35:44 AM	38032
Toluene	ND	0.049	mg/Kg	1	5/12/2018 1:35:44 AM	38032
Ethylbenzene	ND	0.049	mg/Kg	1	5/12/2018 1:35:44 AM	38032
Xylenes, Total	ND	0.098	mg/Kg	1	5/12/2018 1:35:44 AM	38032
Surr: 4-Bromofluorobenzene	105	80-120	%Rec	1	5/12/2018 1:35:44 AM	38032

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H Holding times for preparation or analysis exceededND Not Detected at the Reporting Limit		J	Analyte detected below quantitation limits Page 23 of 43
			P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Date Reported: 5/21/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: HBH10-0.5'

 Project:
 Candelario EMR
 Collection Date: 5/2/2018 2:00:00 PM

 Lab ID:
 1805498-024
 Matrix:
 SOIL
 Received Date: 5/9/2018 9:30:00 AM

Analyses	Result	Result PQL Qual Units			nalyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: MRA
Chloride	170	30	mg/Kg	20 5/15/201	18 5:35:26 PM	38134

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit Page 24 of 43
	ND Not Detected at the Reporting Limit		P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Date Reported: 5/21/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: HSW13

Project: Candelario EMR **Collection Date:** 5/2/2018 1:32:00 PM Matrix: SOIL Lab ID: 1805498-025 Received Date: 5/9/2018 9:30:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	280	30	mg/Kg	20	5/15/2018 5:47:50 PM	38134
EPA METHOD 8015M/D: DIESEL RANG	;			Analyst	TOM	
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	5/13/2018 8:52:51 AM	38069
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	5/13/2018 8:52:51 AM	38069
Surr: DNOP	92.1	70-130	%Rec	1	5/13/2018 8:52:51 AM	38069
EPA METHOD 8015D: GASOLINE RAN				Analyst	NSB	
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	5/12/2018 1:59:12 AM	38032
Surr: BFB	89.3	15-316	%Rec	1	5/12/2018 1:59:12 AM	38032
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Methyl tert-butyl ether (MTBE)	ND	0.096	mg/Kg	1	5/12/2018 1:59:12 AM	38032
Benzene	ND	0.024	mg/Kg	1	5/12/2018 1:59:12 AM	38032
Toluene	ND	0.048	mg/Kg	1	5/12/2018 1:59:12 AM	38032
Ethylbenzene	ND	0.048	mg/Kg	1	5/12/2018 1:59:12 AM	38032
Xylenes, Total	ND	0.096	mg/Kg	1	5/12/2018 1:59:12 AM	38032
Surr: 4-Bromofluorobenzene	101	80-120	%Rec	1	5/12/2018 1:59:12 AM	38032

Qualifiers: *		Value exceeds Maximum Contaminant Level.
	D	Sample Diluted Due to Matrix

- Η Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- E Value above quantitation range
- Analyte detected below quantitation limits Page 25 of 43 J
- P Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 5/21/2018

CLIENT: Souder, Miller & Associates Client Sample ID: HSW11

 Project:
 Candelario EMR
 Collection Date: 5/2/2018 2:15:00 PM

 Lab ID:
 1805498-026
 Matrix: SOIL
 Received Date: 5/9/2018 9:30:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	310	30	mg/Kg	20	5/15/2018 6:25:02 PM	38134
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS	;			Analyst	: TOM
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	5/13/2018 9:59:32 AM	38069
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	5/13/2018 9:59:32 AM	38069
Surr: DNOP	89.5	70-130	%Rec	1	5/13/2018 9:59:32 AM	38069
EPA METHOD 8015D: GASOLINE RAM				Analyst	: NSB	
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	5/12/2018 2:22:36 AM	38032
Surr: BFB	90.8	15-316	%Rec	1	5/12/2018 2:22:36 AM	38032
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Methyl tert-butyl ether (MTBE)	ND	0.097	mg/Kg	1	5/12/2018 2:22:36 AM	38032
Benzene	ND	0.024	mg/Kg	1	5/12/2018 2:22:36 AM	38032
Toluene	ND	0.048	mg/Kg	1	5/12/2018 2:22:36 AM	38032
Ethylbenzene	ND	0.048	mg/Kg	1	5/12/2018 2:22:36 AM	38032
Xylenes, Total	ND	0.097	mg/Kg	1	5/12/2018 2:22:36 AM	38032
Surr: 4-Bromofluorobenzene	103	80-120	%Rec	1	5/12/2018 2:22:36 AM	38032

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 26 of 43
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Lab Order 1805498 Date Reported: 5/21/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates **Client Sample ID:** HSW12

Project: Candelario EMR **Collection Date:** 5/2/2018 12:35:00 PM Matrix: SOIL Lab ID: 1805498-027 Received Date: 5/9/2018 9:30:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: MRA
Chloride	700	30	mg/Kg	20	5/15/2018 6:37:27 PM	38134
EPA METHOD 8015M/D: DIESEL RAM	IGE ORGANICS	;			Analyst	: TOM
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	5/13/2018 10:44:01 AM	38069
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	5/13/2018 10:44:01 AM	38069
Surr: DNOP	88.8	70-130	%Rec	1	5/13/2018 10:44:01 AM	38069
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	5/12/2018 2:46:06 AM	38032
Surr: BFB	89.6	15-316	%Rec	1	5/12/2018 2:46:06 AM	38032
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Methyl tert-butyl ether (MTBE)	ND	0.10	mg/Kg	1	5/12/2018 2:46:06 AM	38032
Benzene	ND	0.025	mg/Kg	1	5/12/2018 2:46:06 AM	38032
Toluene	ND	0.050	mg/Kg	1	5/12/2018 2:46:06 AM	38032
Ethylbenzene	ND	0.050	mg/Kg	1	5/12/2018 2:46:06 AM	38032
Xylenes, Total	ND	0.10	mg/Kg	1	5/12/2018 2:46:06 AM	38032
Surr: 4-Bromofluorobenzene	97.4	80-120	%Rec	1	5/12/2018 2:46:06 AM	38032

Qualifiers:	*	Val	ue exceed	s Maxi	imum (Contami	nant Level.

- D Sample Diluted Due to Matrix
- Η Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- E Value above quantitation range
- Analyte detected below quantitation limits Page 27 of 43 J
- P Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

Date Reported: 5/21/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: HSW16

 Project:
 Candelario EMR
 Collection Date: 5/2/2018 2:20:00 PM

 Lab ID:
 1805498-029
 Matrix: SOIL
 Received Date: 5/9/2018 9:30:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	smb
Chloride	1600	75	mg/Kg	50	5/16/2018 3:35:51 PM	38134
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS	;			Analyst	: Irm
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	5/15/2018 10:03:19 PM	38069
Motor Oil Range Organics (MRO)	81	49	mg/Kg	1	5/15/2018 10:03:19 PM	38069
Surr: DNOP	103	70-130	%Rec	1	5/15/2018 10:03:19 PM	38069
EPA METHOD 8015D: GASOLINE RAI	NGE				Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	5/12/2018 3:33:05 AM	38032
Surr: BFB	93.6	15-316	%Rec	1	5/12/2018 3:33:05 AM	38032
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Methyl tert-butyl ether (MTBE)	ND	0.097	mg/Kg	1	5/12/2018 3:33:05 AM	38032
Benzene	ND	0.024	mg/Kg	1	5/12/2018 3:33:05 AM	38032
Toluene	ND	0.048	mg/Kg	1	5/12/2018 3:33:05 AM	38032
Ethylbenzene	ND	0.048	mg/Kg	1	5/12/2018 3:33:05 AM	38032
Xylenes, Total	ND	0.097	mg/Kg	1	5/12/2018 3:33:05 AM	38032
Surr: 4-Bromofluorobenzene	103	80-120	%Rec	1	5/12/2018 3:33:05 AM	38032

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 28 of 43
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Date Reported: 5/21/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: HSW18

 Project:
 Candelario EMR
 Collection Date: 5/2/2018 3:00:00 PM

 Lab ID:
 1805498-030
 Matrix:
 SOIL
 Received Date: 5/9/2018 9:30:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	MRA
Chloride	1100	30	mg/Kg	20	5/15/2018 8:04:20 PM	38134
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS	6			Analyst:	: Irm
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	5/15/2018 10:47:51 PM	38069
Motor Oil Range Organics (MRO)	65	47	mg/Kg	1	5/15/2018 10:47:51 PM	38069
Surr: DNOP	92.8	70-130	%Rec	1	5/15/2018 10:47:51 PM	38069
EPA METHOD 8015D: GASOLINE RAM	NGE				Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/12/2018 3:56:36 AM	38032
Surr: BFB	90.0	15-316	%Rec	1	5/12/2018 3:56:36 AM	38032
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Methyl tert-butyl ether (MTBE)	ND	0.098	mg/Kg	1	5/12/2018 3:56:36 AM	38032
Benzene	ND	0.024	mg/Kg	1	5/12/2018 3:56:36 AM	38032
Toluene	ND	0.049	mg/Kg	1	5/12/2018 3:56:36 AM	38032
Ethylbenzene	ND	0.049	mg/Kg	1	5/12/2018 3:56:36 AM	38032
Xylenes, Total	ND	0.098	mg/Kg	1	5/12/2018 3:56:36 AM	38032
Surr: 4-Bromofluorobenzene	106	80-120	%Rec	1	5/12/2018 3:56:36 AM	38032

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit Page 29 of 43
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 5/21/2018

CLIENT: Souder, Miller & Associates Client Sample ID: L13-1

 Project:
 Candelario EMR
 Collection Date: 5/3/2018 1:15:00 PM

 Lab ID:
 1805498-031
 Matrix:
 SOIL
 Received Date: 5/9/2018 9:30:00 AM

Analyses	Result	PQL Q	ual Unit	s I	F	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	smb
Chloride	2000	75	mg/ł	(g	50	5/16/2018 3:48:15 PM	38134
EPA METHOD 8015M/D: DIESEL RANG	SE ORGANICS	;				Analyst	: Irm
Diesel Range Organics (DRO)	240	93	mg/ł	(g	10	5/15/2018 2:48:09 AM	38069
Motor Oil Range Organics (MRO)	1000	470	mg/ł	(g	10	5/15/2018 2:48:09 AM	38069
Surr: DNOP	0	70-130	S %Re	С	10	5/15/2018 2:48:09 AM	38069
EPA METHOD 8015D: GASOLINE RAN	GE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/ł	(g	1	5/12/2018 5:54:22 AM	38032
Surr: BFB	88.8	15-316	%Re	С	1	5/12/2018 5:54:22 AM	38032
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Methyl tert-butyl ether (MTBE)	ND	0.098	mg/ł	(g	1	5/12/2018 5:54:22 AM	38032
Benzene	ND	0.024	mg/ł	(g	1	5/12/2018 5:54:22 AM	38032
Toluene	ND	0.049	mg/ł	(g	1	5/12/2018 5:54:22 AM	38032
Ethylbenzene	ND	0.049	mg/ł	(g	1	5/12/2018 5:54:22 AM	38032
Xylenes, Total	ND	0.098	mg/ł	(g	1	5/12/2018 5:54:22 AM	38032
Surr: 4-Bromofluorobenzene	107	80-120	%Re	С	1	5/12/2018 5:54:22 AM	38032

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 30 of 43
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Date Reported: 5/21/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: S4-2.5

Project: Candelario EMR
 Collection Date: 5/3/2018 1:37:00 PM

 Lab ID: 1805498-032
 Matrix: SOIL
 Received Date: 5/9/2018 9:30:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	smb
Chloride	2200	75	mg/Kg	50	5/16/2018 4:25:29 PM	38134
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS	3			Analyst	TOM
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	5/13/2018 1:42:12 PM	38069
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	5/13/2018 1:42:12 PM	38069
Surr: DNOP	98.4	70-130	%Rec	1	5/13/2018 1:42:12 PM	38069
EPA METHOD 8015D: GASOLINE RANG	E				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	5/12/2018 6:17:39 AM	38032
Surr: BFB	85.9	15-316	%Rec	1	5/12/2018 6:17:39 AM	38032
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Methyl tert-butyl ether (MTBE)	ND	0.097	mg/Kg	1	5/12/2018 6:17:39 AM	38032
Benzene	ND	0.024	mg/Kg	1	5/12/2018 6:17:39 AM	38032
Toluene	ND	0.048	mg/Kg	1	5/12/2018 6:17:39 AM	38032
Ethylbenzene	ND	0.048	mg/Kg	1	5/12/2018 6:17:39 AM	38032
Xylenes, Total	ND	0.097	mg/Kg	1	5/12/2018 6:17:39 AM	38032
Surr: 4-Bromofluorobenzene	105	80-120	%Rec	1	5/12/2018 6:17:39 AM	38032

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 31 of 43
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Date Reported: 5/21/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: BG2

 Project:
 Candelario EMR
 Collection Date: 5/3/2018 2:00:00 PM

 Lab ID:
 1805498-033
 Matrix: SOIL
 Received Date: 5/9/2018 9:30:00 AM

Analyses	Result	PQL Qua	al Units	DF Date Analyz	ed Batch
EPA METHOD 300.0: ANIONS					Analyst: smb
Chloride	1100	75	mg/Kg	50 5/16/2018 4:3	7:53 PM 38134

*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 32 of 43
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified
	D H ND	 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 	D Sample Diluted Due to Matrix E H Holding times for preparation or analysis exceeded J ND Not Detected at the Reporting Limit P PQL Practical Quanitative Limit RL

Lab Order **1805498**Date Reported: **5/21/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: BG3

 Project:
 Candelario EMR
 Collection Date: 5/3/2018 2:45:00 PM

 Lab ID:
 1805498-034
 Matrix:
 SOIL
 Received Date: 5/9/2018 9:30:00 AM

Analyses	Result	PQL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				An	alyst: MRA
Chloride	ND	30	mg/Kg	20 5/15/2018 8:53:59	PM 38134

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

Qualifiers: Value exceeds Maximum Contaminant Level. Analyte detected in the associated Method Blank D Sample Diluted Due to Matrix Е Value above quantitation range Analyte detected below quantitation limits Page 33 of 43 Н Holding times for preparation or analysis exceeded J ND Not Detected at the Reporting Limit P Sample pH Not In Range PQL Practical Quanitative Limit RL Reporting Detection Limit % Recovery outside of range due to dilution or matrix Sample container temperature is out of limit as specified

Lab Order **1805498**

Date Reported: 5/21/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: BG5

 Project:
 Candelario EMR
 Collection Date: 5/3/2018 2:30:00 PM

 Lab ID:
 1805498-035
 Matrix: SOIL
 Received Date: 5/9/2018 9:30:00 AM

Analyses	Result	PQL Qu	al Units	DF Date Analyzed	Analyst: smb
EPA METHOD 300.0: ANIONS				Anal	yst: smb
Chloride	4300	150	mg/Kg	100 5/16/2018 4:50:18 P	M 38134

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit Page 34 of 43
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Date Reported: 5/21/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: L12-1

 Project:
 Candelario EMR
 Collection Date: 5/3/2018 12:30:00 PM

 Lab ID:
 1805498-036
 Matrix: SOIL
 Received Date: 5/9/2018 9:30:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	smb
Chloride	16000	750	mg/Kg	500	5/16/2018 5:02:42 PM	38134
EPA METHOD 8015M/D: DIESEL RAI	NGE ORGANICS	3			Analyst	: TOM
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	5/13/2018 2:04:19 PM	38069
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	5/13/2018 2:04:19 PM	38069
Surr: DNOP	103	70-130	%Rec	1	5/13/2018 2:04:19 PM	38069
EPA METHOD 8015D: GASOLINE RA	ANGE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	5/12/2018 6:41:08 AM	38032
Surr: BFB	84.5	15-316	%Rec	1	5/12/2018 6:41:08 AM	38032
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Methyl tert-butyl ether (MTBE)	ND	0.093	mg/Kg	1	5/12/2018 6:41:08 AM	38032
Benzene	ND	0.023	mg/Kg	1	5/12/2018 6:41:08 AM	38032
Toluene	ND	0.047	mg/Kg	1	5/12/2018 6:41:08 AM	38032
Ethylbenzene	ND	0.047	mg/Kg	1	5/12/2018 6:41:08 AM	38032
Xylenes, Total	ND	0.093	mg/Kg	1	5/12/2018 6:41:08 AM	38032
Surr: 4-Bromofluorobenzene	105	80-120	%Rec	1	5/12/2018 6:41:08 AM	38032

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 35 of 43
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#: **1805498**

29-May-18

Client: Souder, Miller & Associates

Project: Candelario EMR

Sample ID MB-38134 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 38134 RunNo: 51301

Prep Date: 5/15/2018 Analysis Date: 5/15/2018 SeqNo: 1667748 Units: mg/Kg

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

Chloride ND 1.5

Sample ID LCS-38134 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 38134 RunNo: 51301

Prep Date: 5/15/2018 Analysis Date: 5/15/2018 SeqNo: 1667749 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 94.4 90 110

Sample ID MB-38115 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 38115 RunNo: 51286

Prep Date: 5/15/2018 Analysis Date: 5/15/2018 SeqNo: 1668095 Units: mg/Kg

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

Chloride ND 1.5

Sample ID LCS-38115 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 38115 RunNo: 51286

Prep Date: 5/15/2018 Analysis Date: 5/15/2018 SeqNo: 1668096 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 95.1 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 36 of 43

Hall Environmental Analysis Laboratory, Inc.

WO#: 1805498

29-May-18

Client: Souder, Miller & Associates

Project. Candelario EMR

Project: Cande	elario EMR			
Sample ID 1805498-025A	MS SampType: MS	TestCode: EPA Metho	d 8015M/D: Diesel Range Organics	
Client ID: HSW13	Batch ID: 38069	RunNo: 51227		
Prep Date: 5/11/2018	Analysis Date: 5/13/2018	SeqNo: 1665161	Units: mg/Kg	
Analyte	Result PQL SPK valu	e SPK Ref Val %REC LowLimi	t HighLimit %RPD RPDLimit	Qual
Diesel Range Organics (DRO)	57 9.8 49.0			
Surr: DNOP	5.5 4.90	2 111 70	130	
Sample ID 1805498-025Al	MSD SampType: MSD	TestCode: EPA Metho	d 8015M/D: Diesel Range Organics	
Client ID: HSW13	Batch ID: 38069	RunNo: 51227		
Prep Date: 5/11/2018	Analysis Date: 5/13/2018	SeqNo: 1665162	Units: mg/Kg	
Analyte	Result PQL SPK valu	e SPK Ref Val %REC LowLimi	t HighLimit %RPD RPDLimit	Qual
Diesel Range Organics (DRO)	46 9.8 49.0	7 0 92.8 55.8	3 125 22.8 20	R
Surr: DNOP	4.0 4.90	7 82.0 70	0 130 0 0	
Sample ID MB-38069	SampType: MBLK	TestCode: EPA Metho	d 8015M/D: Diesel Range Organics	
Client ID: PBS	Batch ID: 38069	RunNo: 51227		
Prep Date: 5/11/2018	Analysis Date: 5/13/2018	SeqNo: 1665208	Units: mg/Kg	
Analyte	Result PQL SPK valu	e SPK Ref Val %REC LowLimi	t HighLimit %RPD RPDLimit	Qual
Diesel Range Organics (DRO)	ND 10			
Motor Oil Range Organics (MRO)	ND 50			
Surr: DNOP	7.5 10.0	0 75.2 70) 130 	
Sample ID MB-38056	SampType: MBLK	TestCode: EPA Metho	d 8015M/D: Diesel Range Organics	
Client ID: PBS	Batch ID: 38056	RunNo: 51235		
Prep Date: 5/10/2018	Analysis Date: 5/14/2018	SeqNo: 1666875	Units: mg/Kg	
Analyte	Result PQL SPK valu	e SPK Ref Val %REC LowLimi	t HighLimit %RPD RPDLimit	Qual
Diesel Range Organics (DRO)	ND 10			
Motor Oil Range Organics (MRO)	ND 50			
Surr: DNOP	11 10.0	0 107 70) 130	
Sample ID LCS-38056	SampType: LCS	TestCode: EPA Metho	d 8015M/D: Diesel Range Organics	
Client ID: LCSS	Batch ID: 38056	RunNo: 51235		
Prep Date: 5/10/2018	Analysis Date: 5/14/2018	SeqNo: 1666887	Units: mg/Kg	

Qualifiers:

Analyte

Surr: DNOP

Diesel Range Organics (DRO)

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

Result

44

5.0

10

- ND Not Detected at the Reporting Limit
- Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank

LowLimit

70

70

HighLimit

130

130

%RPD

E Value above quantitation range

%REC

88.7

99.8

- J Analyte detected below quantitation limits
- Page 37 of 43

RPDLimit

Qual

P Sample pH Not In Range

SPK value SPK Ref Val

50.00

5.000

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

Hall Environmental Analysis Laboratory, Inc.

WO#: **1805498**

29-May-18

Client: Souder, Miller & Associates

Project: Candelario EMR

Sample ID LCS-38069 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 38069 RunNo: 51235

Prep Date: 5/11/2018 Analysis Date: 5/15/2018 SeqNo: 1666995 Units: mg/Kg

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

 Diesel Range Organics (DRO)
 45
 10
 50.00
 0
 89.4
 70
 130

 Surr: DNOP
 5.2
 5.000
 104
 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 38 of 43

Hall Environmental Analysis Laboratory, Inc.

WO#: 1805498

29-May-18

Client: Souder, Miller & Associates

Project: Candelario EMR

Sample ID MB-38032 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: **PBS** Batch ID: 38032 RunNo: 51171

Prep Date: 5/9/2018 Analysis Date: 5/10/2018 SeqNo: 1662989 Units: mg/Kg

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

Gasoline Range Organics (GRO) 5.0 ND

1000 83.0 Surr: BFB 830 15 316

Sample ID LCS-38032 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 38032 RunNo: 51171

Analysis Date: 5/10/2018 Prep Date: 5/9/2018 SeqNo: 1662990 Units: mg/Kg

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

Gasoline Range Organics (GRO) 24 5.0 25.00 95.4 75.9 131 Surr: BFB 940 1000 94.4 15 316

Sample ID 1805498-008AMS SampType: MS TestCode: EPA Method 8015D: Gasoline Range

Client ID: **HSW6-1** Batch ID: 38032 RunNo: 51171

Prep Date: 5/9/2018 Analysis Date: 5/11/2018 SeqNo: 1662992 Units: mg/Kg

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

Gasoline Range Organics (GRO) 27 4.9 24.68 111 77.8 128 Surr: BFB 1000 987.2 106 15 316

Sample ID 1805498-008AMSD SampType: MSD TestCode: EPA Method 8015D: Gasoline Range

Client ID: **HSW6-1** Batch ID: 38032 RunNo: 51171

Analysis Date: 5/11/2018 Prep Date: 5/9/2018 SeqNo: 1662993 Units: mg/Kg

%REC Analyte Result **PQL** SPK value SPK Ref Val LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 25 4.9 24.58 0 102 77.8 128 9.31 20 Surr: BFB 1000 983.3 102 15 316 0 0

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Holding times for preparation or analysis exceeded Η

ND Not Detected at the Reporting Limit

POL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

В Analyte detected in the associated Method Blank

Е Value above quantitation range

J

Analyte detected below quantitation limits

Page 39 of 43

P Sample pH Not In Range

RLReporting Detection Limit

Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#: **1805498**

29-May-18

Client: Souder, Miller & Associates

Project: Candelario EMR

Sample ID MB-38032 SampType: MBLK TestCode: EPA Method 8021B: Volatiles Client ID: **PBS** Batch ID: 38032 RunNo: 51171 Prep Date: 5/9/2018 Analysis Date: 5/10/2018 SeqNo: 1663030 Units: mg/Kg Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Methyl tert-butyl ether (MTBE) 0.10 ND Benzene ND 0.025 Toluene ND 0.050 Ethylbenzene ND 0.050 Xylenes, Total ND 0.10 1.000 Surr: 4-Bromofluorobenzene 1.0 100 80 120

Sample ID LCS-38032 SampType: LCS TestCode: EPA Method 8021B: Volatiles Client ID: **LCSS** Batch ID: 38032 RunNo: 51171 Prep Date: 5/9/2018 Analysis Date: 5/10/2018 SeqNo: 1663031 Units: mg/Kg %REC **PQL** SPK value SPK Ref Val LowLimit HighLimit %RPD **RPDLimit** Analyte Result Qual Methyl tert-butyl ether (MTBE) 0.95 0.10 1.000 95.4 70.1 121 0.93 0.025 1.000 0 93.2 77.3 128 Benzene 0 95.4 79.2 Toluene 0.95 0.050 1.000 125 0 94.6 80.7 127 Ethylbenzene 0.95 0.050 1.000 Xylenes, Total 2.9 0.10 3.000 0 97.0 81.6 129 Surr: 4-Bromofluorobenzene 1.0 1.000 104 80 120

Sample ID 1805498-009AMS SampType: MS TestCode: EPA Method 8021B: Volatiles Client ID: **HSW8-1** Batch ID: 38032 RunNo: 51171 Prep Date: 5/9/2018 Analysis Date: 5/11/2018 SeqNo: 1663034 Units: mg/Kg Result **PQL** SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Qual LowLimit Methyl tert-butyl ether (MTBE) 0.91 0.095 0.9470 95.6 56.9 130 0 0.94 0.9470 0 99.5 68.5 Benzene 0.024 133 Toluene 0.047 0.9470 0.02017 103 75 1.0 130 Ethylbenzene 1.0 0.047 0.9470 0.02507 104 79.4 128 3.0 0.095 0.05062 105 77.3 Xylenes, Total 2.841 131 Surr: 4-Bromofluorobenzene 0.99 0.9470 104 80 120

Sample ID 1805498-009AMS	D SampT	ype: MS	SD	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: HSW8-1	Batch	1D: 38	032	F	RunNo: 5	1171				
Prep Date: 5/9/2018	Analysis D	ate: 5/	11/2018	S	SeqNo: 1	663035	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	0.94	0.098	0.9804	0	96.0	56.9	130	3.93	20	
Benzene	0.99	0.025	0.9804	0	101	68.5	133	4.45	20	
Toluene	1.0	0.049	0.9804	0.02017	103	75	130	3.31	20	
Ethylbenzene	1.0	0.049	0.9804	0.02507	104	79.4	128	3.34	20	

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

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Hall Environmental Analysis Laboratory, Inc.

WO#: **1805498**

29-May-18

Client: Souder, Miller & Associates

Project: Candelario EMR

Sample ID 1805498-009AMSD SampType: MSD TestCode: EPA Method 8021B: Volatiles

Client ID: **HSW8-1** Batch ID: **38032** RunNo: **51171**

Prep Date: 5/9/2018 Analysis Date: 5/11/2018 SegNo: 1663035 Units: mg/Kg

Frep Date. 3/3/2016	Allalysis L	ale. 3	11/2016		eqivo. I	003033	Offics. Hig/N	y			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Xylenes, Total	3.1	0.098	2.941	0.05062	105	77.3	131	3.50	20		Ξ
Surr: 4-Bromofluorobenzene	1.0		0.9804		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
- 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

at the associated Method Blank

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Hall Environmental Analysis Laboratory, Inc.

WO#: **1805498**

29-May-18

Client: Souder, Miller & Associates

Project: Candelario EMR

Sample ID Ics-38028	Batch ID: 38028 Analysis Date: 5/10/2018 Result PQL SPK value 0.81 0.025 1.00 0.92 0.050 1.00 0.98 0.050 1.00			TestCode: EPA Method 8260B: Volatiles Short List										
Client ID: BatchQC	Batch	n ID: 38	028	F	RunNo: 5	1185								
Prep Date: 5/9/2018	Analysis D	oate: 5/	10/2018	8	SeqNo: 1	663139	Units: mg/k	(g						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual				
Benzene	0.81	0.025	1.000	0	81.3	80	120							
Toluene	0.92	0.050	1.000	0	92.3	80	120							
Ethylbenzene	0.98	0.050	1.000	0	98.3	80	120							
Xylenes, Total	3.0	0.10	3.000	0	98.4	80	120							
Surr: 4-Bromofluorobenzene	0.53		0.5000		105	70	130							
Surr: Toluene-d8	0.47		0.5000		93.9	70	130							

Sample ID mb-38028	SampT	уре: МЕ	3LK	Tes	tCode: El	PA Method	8260B: Volat	iles Short	List	
Client ID: PBS	Batch	n ID: 380	028	F	RunNo: 5	1185				
Prep Date: 5/9/2018	Analysis D)ate: 5/	10/2018	S	SeqNo: 1	663140	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	ND	0.050								
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.64		0.5000		128	70	130			
Surr: Toluene-d8	0.45		0.5000		90.0	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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **1805498**

29-May-18

Client: Souder, Miller & Associates

Project: Candelario EMR

Sample ID Ics-38028 SampType: LCS TestCode: EPA Method 8015D Mod: Gasoline Range

Client ID: LCSS Batch ID: 38028 RunNo: 51185

Prep Date: 5/9/2018 Analysis Date: 5/10/2018 SeqNo: 1663109 Units: mg/Kg

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 20 5.0 25.00 0 81.7 70

 Gasoline Range Organics (GRO)
 20
 5.0
 25.00
 0
 81.7
 70
 130

 Surr: BFB
 510
 500.0
 103
 70
 130

Sample ID mb-38028 SampType: MBLK TestCode: EPA Method 8015D Mod: Gasoline Range

Client ID: PBS Batch ID: 38028 RunNo: 51185

Prep Date: 5/9/2018 Analysis Date: 5/10/2018 SeqNo: 1663110 Units: mg/Kg

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

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 590 500.0 118 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

That ye detected in the associated without Blank

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4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: SMA-CARLSBAD Work Order Number: 1805498 RcptNo: 1 Received By: Isaiah Ortiz 5/9/2018 9:30:00 AM 5/9/2018 12:06:04 PM Completed By: **Ashley Gallegos** 5/9/10 Labella ' Reviewed By: ____ Chain of Custody 1. Is Chain of Custody complete? Yes 🗸 No 🗌 Not Present 2. How was the sample delivered? Courier Log In 3. Was an attempt made to cool the samples? Yes 🗹 No 🗔 NA 🗌 Were all samples received at a temperature of >0° C to 6.0°C No ∐ Yes 🔽 NA 🗌 Sample(s) in proper container(s)? Yes 🗹 No 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? No 🔽 Yes 🗌 NA 🗌 9. VOA vials have zero headspace? Yes No 🔲 No VOA Vials 🗹 Yes 10. Were any sample containers received broken? No 🔽 # of preserved bottles checked 11. Does paperwork match bottle labels? Yes 🗸 No 🗌 for pH: (Note discrepancies on chain of custody) (<2 or >12 ymjess noted) 12. Are matrices correctly identified on Chain of Custody? Adjusted? Yes 🗸 No 🗆 13. Is it clear what analyses were requested? Yes 🗹 No 🗌 14. Were all holding times able to be met? Checked by: Yes 🔽 No 🗌 (If no, notify customer for authorization.) Special Handling (if applicable) 15. Was client notified of all discrepancies with this order? Yes No 🗌 NA 🗹 Person Notified: Date By Whom: Via: eMail Phone Fax In Person Regarding: Client Instructions: 16. Additional remarks: 17. Cooler Information Cooler No | Temp °C | Condition Seal Intact | Seal No Seal Date

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Good

Yes

	HALL ENVIRONMENTAL	ANALTSIS LABORATORY	ä	nawkins NE - Albuqu	505-345-3975 Fax	Analysis Request	(†0	S' [†] O	1) 70 SII 70 SP P	. 40 7. 40 7. 58 7. 58 7. 58 7. 64	or als als 365	PH 8015B PH (Method PH's (8310 CRA 8 Met nions (PC) 200 (VOA) 200 (Semi-V	[4] [5] [6] [7] [7] [7] [7] [7] [7] [7] [7] [7] [7												Leit		
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Chain-of-C	Client: SMA Caribad		Mailing Address:		Phone #:	email or Fav#:	OA/OC Backage:	Grackage: ☐ Standard	Accreditation		□ EDD (Type)	Date Time Matrix	5/2/18 10:35 Soil	1 00:7/	10: 60	11:00	1.2:30	11:20	11:37	1:00	1:23	12:12	2:B	Date: Time: Belinguished by:	8 3:00	Date: Time: Relinguation	

Chain-of-Custody Record	Turn-Around Time:													
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Mailing Address:	Candeland	ENK		1901 F	4901 Hawkins NF	AN S	Albi		Albuquerane NM 87109	_ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	7109			
	Project #:			Tel. 5	Tel. 505-345-3975	-3975		Fax 50	505-345-4107	4	2 2			
Phone #:							Analysis		Request	1,5				
email or Fax#:	Project Manager:													
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If necessary, sample, submitted to Hall Environmental may be sub	submitted to Hall Environmental may be subcontracted to other accredited laboratories.	This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.	oossibility	. Any su	b-contrac	ted data	will be c	early no	stated or	η the a	nalytica	l report		

SS:	Standard Rush 5day Project Name: Candelan's End Project Name: Candelan's End Project Wanager: Candelan's End Project #: Project	### AND 418.1) #### AND 418.10 #### AND 418.10 #### AND 418.10 #### AND 418.10 ### And 418.1) ### Bubbles (Y or N) ### Bubbles (Y or N)
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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

May 17, 2018

Austin Weyant Souder, Miller & Associates 201 S Halagueno Carlsbad, NM 88221

TEL: (575) 689-7040

FAX

RE: Candelario EMR W OrderNo.: 1805501

Dear Austin Weyant:

Hall Environmental Analysis Laboratory received 4 sample(s) on 5/9/2018 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

Indest

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order **1805501**Date Reported: **5/17/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: POE#1

Project:Candelario EMR WCollection Date: 5/7/2018 9:30:00 AMLab ID:1805501-001Matrix: AQUEOUSReceived Date: 5/9/2018 9:30:00 AM

Analyses	Result	PQL	Qual	Units	DF Date Analyzed Batch	h
EPA METHOD 300.0: ANIONS					Analyst: MRA	
Chloride	1200	50	*	mg/L	100 5/11/2018 10:33:16 AM R512	22
SM2540C MOD: TOTAL DISSOLVED	SOLIDS				Analyst: sat	
Total Dissolved Solids	4610	40.0	*D	mg/L	1 5/11/2018 12:48:00 PM 38053	3
EPA METHOD 8015D: GASOLINE R	ANGE				Analyst: AG	
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1 5/14/2018 12:57:58 PM A5126	64
Surr: BFB	102	70-130		%Rec	1 5/14/2018 12:57:58 PM A5126	64
EPA METHOD 8015M/D: DIESEL RA	NGE				Analyst: Irm	
Diesel Range Organics (DRO)	ND	1.0		mg/L	1 5/15/2018 7:35:43 AM 38072	2
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1 5/15/2018 7:35:43 AM 38072	2
Surr: DNOP	129	76.7-135		%Rec	1 5/15/2018 7:35:43 AM 38072	2
EPA METHOD 8260: VOLATILES SH	ORT LIST				Analyst: AG	
Benzene	ND	1.0		μg/L	1 5/14/2018 12:57:58 PM C5120	64
Toluene	ND	1.0		μg/L	1 5/14/2018 12:57:58 PM C512	64
Ethylbenzene	ND	1.0		μg/L	1 5/14/2018 12:57:58 PM C512	64
Methyl tert-butyl ether (MTBE)	ND	1.0		μg/L	1 5/14/2018 12:57:58 PM C512	64
1,2,4-Trimethylbenzene	ND	1.0		μg/L	1 5/14/2018 12:57:58 PM C512	64
1,3,5-Trimethylbenzene	ND	1.0		μg/L	1 5/14/2018 12:57:58 PM C512	64
Xylenes, Total	ND	1.5		μg/L	1 5/14/2018 12:57:58 PM C512	64
Surr: 4-Bromofluorobenzene	111	70-130		%Rec	1 5/14/2018 12:57:58 PM C512	64
Surr: Toluene-d8	99.0	70-130		%Rec	1 5/14/2018 12:57:58 PM C5120	64

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 1 of 9
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Lab Order **1805501**

Date Reported: 5/17/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: POE#2

Project:Candelario EMR WCollection Date: 5/7/2018 9:45:00 AMLab ID:1805501-002Matrix: AQUEOUSReceived Date: 5/9/2018 9:30:00 AM

Analyses	Result	PQL (Qual	Units	DF	Date Analyze	d	Batch
EPA METHOD 300.0: ANIONS							Analyst:	MRA
Chloride	1200	50	*	mg/L	100	5/11/2018 10:5	9:00 AM	R51222
SM2540C MOD: TOTAL DISSOLVE	D SOLIDS						Analyst:	sat
Total Dissolved Solids	4580	40.0	*D	mg/L	1	5/11/2018 12:4	8:00 PM	38053

*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 2 of 9
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	\mathbf{W}	Sample container temperature is out of limit as specified
	D H ND PQL	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	D Sample Diluted Due to Matrix E H Holding times for preparation or analysis exceeded J ND Not Detected at the Reporting Limit P PQL Practical Quanitative Limit RL

Lab Order **1805501**

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 5/17/2018

CLIENT: Souder, Miller & Associates Client Sample ID: Upstream

Project:Candelario EMR WCollection Date: 5/7/2018 9:55:00 AMLab ID:1805501-003Matrix: AQUEOUSReceived Date: 5/9/2018 9:30:00 AM

Analyses	Result	PQL	Qual	Units	DF Date Analyzed Ba	atch
EPA METHOD 300.0: ANIONS					Analyst: M	RA
Chloride	1400	50	*	mg/L	100 5/11/2018 11:24:42 AM R	51222
SM2540C MOD: TOTAL DISSOLVED	SOLIDS				Analyst: s a	at
Total Dissolved Solids	4980	40.0	*D	mg/L	1 5/11/2018 12:48:00 PM 38	3053
EPA METHOD 8015D: GASOLINE R	ANGE				Analyst: A 0	G
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1 5/14/2018 1:21:01 PM A5	51264
Surr: BFB	106	70-130		%Rec	1 5/14/2018 1:21:01 PM A5	51264
EPA METHOD 8015M/D: DIESEL RA	NGE				Analyst: Irr	m
Diesel Range Organics (DRO)	ND	1.0		mg/L	1 5/15/2018 7:57:49 AM 38	3072
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1 5/15/2018 7:57:49 AM 38	3072
Surr: DNOP	137	76.7-135	S	%Rec	1 5/15/2018 7:57:49 AM 38	3072
EPA METHOD 8260: VOLATILES SH	ORT LIST				Analyst: A	G
Benzene	ND	1.0		μg/L	1 5/14/2018 1:21:01 PM C5	51264
Toluene	ND	1.0		μg/L	1 5/14/2018 1:21:01 PM C5	51264
Ethylbenzene	ND	1.0		μg/L	1 5/14/2018 1:21:01 PM C5	51264
Methyl tert-butyl ether (MTBE)	ND	1.0		μg/L	1 5/14/2018 1:21:01 PM C5	51264
1,2,4-Trimethylbenzene	ND	1.0		μg/L	1 5/14/2018 1:21:01 PM C5	51264
1,3,5-Trimethylbenzene	ND	1.0		μg/L	1 5/14/2018 1:21:01 PM C5	51264
Xylenes, Total	ND	1.5		μg/L	1 5/14/2018 1:21:01 PM C5	51264
Surr: 4-Bromofluorobenzene	115	70-130		%Rec	1 5/14/2018 1:21:01 PM C5	51264
Surr: Toluene-d8	99.8	70-130		%Rec	1 5/14/2018 1:21:01 PM C5	51264

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 3 of 9
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Lab Order **1805501**

Date Reported: 5/17/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: Downstream

Project: Candelario EMR W
 Collection Date: 5/7/2018 10:10:00 AM

 Lab ID: 1805501-004
 Matrix: AQUEOUS
 Received Date: 5/9/2018 9:30:00 AM

Analyses	Result	PQL (Qual	Units	DF Date Analyzed Batch	ı_
EPA METHOD 300.0: ANIONS					Analyst: MRA	
Chloride	1300	50	*	mg/L	100 5/11/2018 11:50:26 AM R5122	22
SM2540C MOD: TOTAL DISSOLVE	D SOLIDS				Analyst: sat	
Total Dissolved Solids	4610	40.0	*D	mg/L	1 5/11/2018 12:48:00 PM 38053	í

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 4 of 9
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#: **1805501**

17-May-18

Client: Souder, Miller & Associates

Project: Candelario EMR W

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

Client ID: PBW Batch ID: R51222 RunNo: 51222

Prep Date: Analysis Date: 5/11/2018 SeqNo: 1664966 Units: mg/L

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

Chloride ND 0.50

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

Client ID: LCSW Batch ID: R51222 RunNo: 51222

Prep Date: Analysis Date: 5/11/2018 SeqNo: 1664967 Units: mg/L

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

Chloride 4.6 0.50 5.000 0 92.5 90 110

Qualifiers:

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **1805501**

17-May-18

Client: Souder, Miller & Associates

Project: Candelario EMR W

Sample ID MB-38072 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range PBW Client ID: Batch ID: 38072 RunNo: 51235 Prep Date: 5/11/2018 SeqNo: 1667033 Analysis Date: 5/15/2018 Units: mg/L Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) ND 1.0 Motor Oil Range Organics (MRO) ND 5.0 Surr: DNOP 1.2 1.000 124 76.7 135

Sample ID LCS-38072	SampT	ype: LC	s	Tes	tCode: E	PA Method	8015M/D: Die	esel Range	9	
Client ID: LCSW	Batch	1D: 38	072	F	RunNo: 5	1235				
Prep Date: 5/11/2018	Analysis D	ate: 5/	15/2018	S	SeqNo: 1	667034	Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	4.7	1.0	5.000	0	94.5	70	130			
Surr: DNOP	0.57		0.5000		115	76.7	135			

Qualifiers:

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **1805501**

17-May-18

Client: Souder, Miller & Associates

Project: Candelario EMR W

Sample ID rb	SampT	уре: МЕ	BLK	TestCode: EPA Method 8260: Volatiles Short List							
Client ID: PBW	Batch	Batch ID: C51264 RunNo: 51264									
Prep Date:	Analysis D	ate: 5/	14/2018	S	SeqNo: 1	666393	Units: µg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	ND	1.0									
Toluene	ND	1.0									
Ethylbenzene	ND	1.0									
Methyl tert-butyl ether (MTBE)	ND	1.0									
1,2,4-Trimethylbenzene	ND	1.0									
1,3,5-Trimethylbenzene	ND	1.0									
Xylenes, Total	ND	1.5									
Surr: 4-Bromofluorobenzene	11		10.00		113	70	130				
Surr: Toluene-d8	10		10.00		102	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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **1805501**

17-May-18

Client: Souder, Miller & Associates

Project: Candelario EMR W

Sample ID 2.5ug gro Ics SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSW Batch ID: A51264 RunNo: 51264

Prep Date: Analysis Date: 5/14/2018 SeqNo: 1666370 Units: mg/L

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 0.46 0.050 0.5000 0 91.4 70 130

 Gasoline Range Organics (GRO)
 0.46
 0.050
 0.5000
 0
 91.4
 70
 130

 Surr: BFB
 9.2
 10.00
 92.0
 70
 130

Sample ID rb SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBW Batch ID: A51264 RunNo: 51264

Prep Date: Analysis Date: 5/14/2018 SeqNo: 1666372 Units: mg/L

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

Gasoline Range Organics (GRO) ND 0.050

Surr: BFB 10 10.00 103 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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **1805501**

17-May-18

Client: Souder, Miller & Associates

Project: Candelario EMR W

Sample ID MB-38053 SampType: MBLK TestCode: SM2540C MOD: Total Dissolved Solids

Client ID: PBW Batch ID: 38053 RunNo: 51208

Prep Date: 5/10/2018 Analysis Date: 5/11/2018 SeqNo: 1664365 Units: mg/L

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

Total Dissolved Solids ND 20.0

Sample ID LCS-38053 SampType: LCS TestCode: SM2540C MOD: Total Dissolved Solids

Client ID: LCSW Batch ID: 38053 RunNo: 51208

Prep Date: 5/10/2018 Analysis Date: 5/11/2018 SeqNo: 1664366 Units: mg/L

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

Total Dissolved Solids 995 20.0 1000 0 99.5 80 120

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: SMA-CARLSBAD Work Order Number: 1805501 RcptNo: 1 Received By: Isaiah Ortiz 5/9/2018 9:30:00 AM **Ashley Gallegos** Completed By: 5/9/2018 12:21:20 PM Reviewed By: Labeled ᢦᠵ᠐ Chain of Custody No 🗌 1. Is Chain of Custody complete? Yes 🔽 Not Present 2. How was the sample delivered? Courier Log In Was an attempt made to cool the samples? Yes 🔽 No 🗌 NA 🗌 4. Were all samples received at a temperature of >0° C to 6.0°C No 🗌 Yes 🗸 NA 🗌 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? No 🗆 Yes 🗸 8. Was preservative added to bottles? Yes 🗌 No 🗸 NA 🗌 9. VOA vials have zero headspace? Yes 🗸 No 🗌 No VOA Vials Yes □ 10. Were any sample containers received broken? No 🗸 # of preserved bottles check 11. Does paperwork match bottle labels? Yes 🗸 No 🗌 for pH: (Note discrepancies on chain of custody) (Nunless noted) No 🗌 12. Are matrices correctly identified on Chain of Custody? Yes 🗸 13. Is it clear what analyses were requested? Yes 🗸 No 🗔 14. Were all holding times able to be met? Yes 🗹 No 🗌 Checked by: (If no, notify customer for authorization.) Special Handling (if applicable) 15. Was client notified of all discrepancies with this order? Yes 🗌 No 🗌 NA 🔽 Person Notified: Date By Whom: Via: eMail Phone Fax Regarding: Client Instructions: from POG #2 Were 16. Additional remarks: Both Ulcul5 Vial down strem received broken OW Loom - LB slalie 17. Cooler Information Cooler No Temp °C Condition | Seal Intact | Seal No | Seal Date Good

Turn-Around Time:	□ Standard \ Rush 5day □ □ HALL ENVIRONMENTAL	 #	Candelland EMK-W 4901 Hawkins NF - Alburance IN 87100		Analysis	(A)	OS THE NAME OF THE	SO)	N S S S S S S S S S S S S S S S S S S S	C C C C C C C C C C	Container Type and # HEAL No. Type and # HEAL No. Type and # Type Type Type Type Type Type Type Type	¥ X			" + + + + + + + + + + + + + + + + + + +	11.650	That is a second of the second				Received by: Sale Time Remarks: Remarks: Rectork	Recolved to Court & Date Time Can Sandyle 16 m an main duel	If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.
Chain-of-Custody Record		ď	Mailing Address:	Pro	Phone #:	email or Fax#: Pro	ige:	☐ Standard ☐ Level 4 (Full Validation)	Accreditation Sar	□ EDD (Type)	Date Time Matrix Sample Request ID C	aguens DOF 41	1. 9:45 " PDE#2	1, 9:55 " Upstream	: 10:10 " Downstram			7			7 3:00 M	Date: Time: Relingsthed by: Signal Amount Recent Recent	If necessary, samples submitted to Hall Environmental may be subcontract



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

May 17, 2018

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

FAX

RE: Candelario EMR W OrderNo.: 1805503

Dear Austin Weyant:

Hall Environmental Analysis Laboratory received 4 sample(s) on 5/9/2018 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

Indest

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order **1805503**Date Reported: **5/17/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: POE#1

 Project:
 Candelario EMR W
 Collection Date: 5/2/2018 10:07:00 AM

 Lab ID:
 1805503-001
 Matrix: AQUEOUS
 Received Date: 5/9/2018 9:30:00 AM

Analyses	Result	PQL	Qual	Units	DF Date Analyzed Ba	atch
EPA METHOD 300.0: ANIONS					Analyst: M I	RA
Chloride	1200	50	*	mg/L	100 5/14/2018 10:55:23 AM R5	51273
SM2540C MOD: TOTAL DISSOLVED	SOLIDS				Analyst: sa	at
Total Dissolved Solids	4700	20.0	*	mg/L	1 5/10/2018 5:00:00 PM 38	3029
EPA METHOD 8015D: GASOLINE R	ANGE				Analyst: A (G
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1 5/11/2018 10:14:10 AM A5	51228
Surr: BFB	108	70-130		%Rec	1 5/11/2018 10:14:10 AM A5	51228
EPA METHOD 8015M/D: DIESEL RA	NGE				Analyst: Irr	m
Diesel Range Organics (DRO)	ND	1.0	Н	mg/L	1 5/15/2018 8:19:55 AM 38	3072
Motor Oil Range Organics (MRO)	ND	5.0	Н	mg/L	1 5/15/2018 8:19:55 AM 38	3072
Surr: DNOP	119	76.7-135	Н	%Rec	1 5/15/2018 8:19:55 AM 38	3072
EPA METHOD 8260: VOLATILES SH	ORT LIST				Analyst: A0	G
Benzene	ND	1.0		μg/L	1 5/11/2018 10:14:10 AM C5	51228
Toluene	ND	1.0		μg/L	1 5/11/2018 10:14:10 AM C5	51228
Ethylbenzene	ND	1.0		μg/L	1 5/11/2018 10:14:10 AM C5	51228
Methyl tert-butyl ether (MTBE)	ND	1.0		μg/L	1 5/11/2018 10:14:10 AM C5	51228
1,2,4-Trimethylbenzene	ND	1.0		μg/L	1 5/11/2018 10:14:10 AM C5	51228
1,3,5-Trimethylbenzene	ND	1.0		μg/L	1 5/11/2018 10:14:10 AM C5	51228
Xylenes, Total	ND	1.5		μg/L	1 5/11/2018 10:14:10 AM C5	51228
Surr: 4-Bromofluorobenzene	117	70-130		%Rec	1 5/11/2018 10:14:10 AM C5	51228
Surr: Toluene-d8	100	70-130		%Rec	1 5/11/2018 10:14:10 AM C5	51228

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 1 of 10
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Lab Order **1805503**

Date Reported: 5/17/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: POE#2

Project: Candelario EMR W
 Collection Date: 5/2/2018 10:22:00 AM

 Lab ID: 1805503-002
 Matrix: AQUEOUS
 Received Date: 5/9/2018 9:30:00 AM

Analyses	Result	PQL	Qual	Units	DF Date Analyzed Batch	h_
EPA METHOD 300.0: ANIONS					Analyst: MRA	
Chloride	1200	50	*	mg/L	100 5/14/2018 11:21:06 AM R512	273
SM2540C MOD: TOTAL DISSOLVED	SOLIDS				Analyst: sat	
Total Dissolved Solids	4770	20.0	*	mg/L	1 5/10/2018 5:00:00 PM 3802	9
EPA METHOD 8015D: GASOLINE RA	ANGE				Analyst: AG	
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1 5/11/2018 10:37:13 AM A512	28
Surr: BFB	105	70-130		%Rec	1 5/11/2018 10:37:13 AM A512	28
EPA METHOD 8015M/D: DIESEL RA	NGE				Analyst: Irm	
Diesel Range Organics (DRO)	ND	1.0	Н	mg/L	1 5/15/2018 11:05:12 AM 3807	2
Motor Oil Range Organics (MRO)	ND	5.0	Н	mg/L	1 5/15/2018 11:05:12 AM 3807	2
Surr: DNOP	120	76.7-135	Н	%Rec	1 5/15/2018 11:05:12 AM 3807	2
EPA METHOD 8260: VOLATILES SH	IORT LIST				Analyst: AG	
Benzene	ND	1.0		μg/L	1 5/11/2018 10:37:13 AM C512	228
Toluene	ND	1.0		μg/L	1 5/11/2018 10:37:13 AM C512	228
Ethylbenzene	ND	1.0		μg/L	1 5/11/2018 10:37:13 AM C512	228
Methyl tert-butyl ether (MTBE)	ND	1.0		μg/L	1 5/11/2018 10:37:13 AM C512	228
1,2,4-Trimethylbenzene	ND	1.0		μg/L	1 5/11/2018 10:37:13 AM C512	228
1,3,5-Trimethylbenzene	ND	1.0		μg/L	1 5/11/2018 10:37:13 AM C512	228
Xylenes, Total	ND	1.5		μg/L	1 5/11/2018 10:37:13 AM C512	228
Surr: 4-Bromofluorobenzene	114	70-130		%Rec	1 5/11/2018 10:37:13 AM C512	228
Surr: Toluene-d8	103	70-130		%Rec	1 5/11/2018 10:37:13 AM C512	28

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 2 of 10
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Lab Order **1805503**

Date Reported: 5/17/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: Upstream

Project: Candelario EMR W
 Collection Date: 5/2/2018 10:45:00 AM

 Lab ID: 1805503-003
 Matrix: AQUEOUS
 Received Date: 5/9/2018 9:30:00 AM

Analyses	Result	PQL	Qual	Units	DF Date Analyzed Batc	h
EPA METHOD 300.0: ANIONS					Analyst: MR	1
Chloride	1200	50	*	mg/L	100 5/14/2018 11:46:50 AM R512	273
SM2540C MOD: TOTAL DISSOLVED	SOLIDS				Analyst: sat	
Total Dissolved Solids	4720	20.0	*	mg/L	1 5/10/2018 5:00:00 PM 3802	:9
EPA METHOD 8015D: GASOLINE RA	ANGE				Analyst: AG	
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1 5/11/2018 11:00:20 AM A512	228
Surr: BFB	103	70-130		%Rec	1 5/11/2018 11:00:20 AM A512	228
EPA METHOD 8015M/D: DIESEL RA	NGE				Analyst: Irm	
Diesel Range Organics (DRO)	ND	1.0	Н	mg/L	1 5/15/2018 11:27:25 AM 3807	2
Motor Oil Range Organics (MRO)	ND	5.0	Н	mg/L	1 5/15/2018 11:27:25 AM 3807	2
Surr: DNOP	124	76.7-135	Н	%Rec	1 5/15/2018 11:27:25 AM 3807	2
EPA METHOD 8260: VOLATILES SH	ORT LIST				Analyst: AG	
Benzene	ND	1.0		μg/L	1 5/11/2018 11:00:20 AM C512	228
Toluene	ND	1.0		μg/L	1 5/11/2018 11:00:20 AM C512	228
Ethylbenzene	ND	1.0		μg/L	1 5/11/2018 11:00:20 AM C512	228
Methyl tert-butyl ether (MTBE)	ND	1.0		μg/L	1 5/11/2018 11:00:20 AM C512	228
1,2,4-Trimethylbenzene	ND	1.0		μg/L	1 5/11/2018 11:00:20 AM C512	228
1,3,5-Trimethylbenzene	ND	1.0		μg/L	1 5/11/2018 11:00:20 AM C512	228
Xylenes, Total	ND	1.5		μg/L	1 5/11/2018 11:00:20 AM C512	228
Surr: 4-Bromofluorobenzene	112	70-130		%Rec	1 5/11/2018 11:00:20 AM C512	228
Surr: Toluene-d8	101	70-130		%Rec	1 5/11/2018 11:00:20 AM C512	228

*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 3 of 10
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified
	D H ND	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	D Sample Diluted Due to Matrix E H Holding times for preparation or analysis exceeded J ND Not Detected at the Reporting Limit P PQL Practical Quanitative Limit RL

Lab Order 1805503

Date Reported: 5/17/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: Downstream

Project: Candelario EMR W
 Collection Date: 5/2/2018 10:32:00 AM

 Lab ID: 1805503-004
 Matrix: AQUEOUS
 Received Date: 5/9/2018 9:30:00 AM

Analyses	Result	PQL	Qual	Units	DF Date Analyzed Batch
EPA METHOD 300.0: ANIONS					Analyst: MRA
Chloride	1200	50	*	mg/L	100 5/14/2018 12:12:34 PM R5127
SM2540C MOD: TOTAL DISSOLVED	SOLIDS				Analyst: sat
Total Dissolved Solids	4760	20.0	*	mg/L	1 5/10/2018 5:00:00 PM 38029
EPA METHOD 8015D: GASOLINE RA	ANGE				Analyst: AG
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1 5/11/2018 11:23:25 AM A5122
Surr: BFB	104	70-130		%Rec	1 5/11/2018 11:23:25 AM A5122
EPA METHOD 8015M/D: DIESEL RA	NGE				Analyst: Irm
Diesel Range Organics (DRO)	ND	1.0	Н	mg/L	1 5/15/2018 11:49:38 AM 38072
Motor Oil Range Organics (MRO)	ND	5.0	Н	mg/L	1 5/15/2018 11:49:38 AM 38072
Surr: DNOP	115	76.7-135	Н	%Rec	1 5/15/2018 11:49:38 AM 38072
EPA METHOD 8260: VOLATILES SH	IORT LIST				Analyst: AG
Benzene	ND	1.0		μg/L	1 5/11/2018 11:23:25 AM C5122
Toluene	ND	1.0		μg/L	1 5/11/2018 11:23:25 AM C5122
Ethylbenzene	ND	1.0		μg/L	1 5/11/2018 11:23:25 AM C5122
Methyl tert-butyl ether (MTBE)	ND	1.0		μg/L	1 5/11/2018 11:23:25 AM C5122
1,2,4-Trimethylbenzene	ND	1.0		μg/L	1 5/11/2018 11:23:25 AM C5122
1,3,5-Trimethylbenzene	ND	1.0		μg/L	1 5/11/2018 11:23:25 AM C5122
Xylenes, Total	ND	1.5		μg/L	1 5/11/2018 11:23:25 AM C5122
Surr: 4-Bromofluorobenzene	113	70-130		%Rec	1 5/11/2018 11:23:25 AM C5122
Surr: Toluene-d8	99.7	70-130		%Rec	1 5/11/2018 11:23:25 AM C5122

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 4 of 10
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#: **1805503**

17-May-18

Client: Souder, Miller & Associates

Project: Candelario EMR W

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

Client ID: PBW Batch ID: R51273 RunNo: 51273

Prep Date: Analysis Date: 5/14/2018 SeqNo: 1666732 Units: mg/L

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

Chloride ND 0.50

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

Client ID: LCSW Batch ID: R51273 RunNo: 51273

Prep Date: Analysis Date: 5/14/2018 SeqNo: 1666733 Units: mg/L

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

Chloride 4.6 0.50 5.000 0 91.8 90 110

Qualifiers:

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

antitation range

Page 5 of 10

Hall Environmental Analysis Laboratory, Inc.

WO#: **1805503**

17-May-18

Client: Souder, Miller & Associates

Project: Candelario EMR W

Sample ID MB-38072 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Client ID: PBW Batch ID: 38072 RunNo: 51235 Analysis Date: 5/15/2018 Prep Date: 5/11/2018 SeqNo: 1667033 Units: mg/L Analyte **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) ND 1.0 Motor Oil Range Organics (MRO) ND 5.0 Surr: DNOP 1.2 1.000 124 76.7 135

Sample ID LCS-38072 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Client ID: LCSW Batch ID: 38072 RunNo: 51235 Analysis Date: 5/15/2018 Prep Date: 5/11/2018 SeqNo: 1667034 Units: mg/L Analyte **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 1.0 0 94.5 70 4.7 5.000 130 Surr: DNOP 0.57 0.5000 115 76.7 135

Qualifiers:

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

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Hall Environmental Analysis Laboratory, Inc.

SampType: LCS4

WO#: **1805503**

17-May-18

Client: Souder, Miller & Associates

Project: Candelario EMR W

Sample ID 100ng lcs

1 3		71 -	_										
Client ID: BatchQC	Batcl	n ID: C5	1228	F	RunNo: 5	1228							
Prep Date:	Analysis D	Date: 5/	11/2018	8	SeqNo: 1	665319	Units: µg/L						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Benzene	19	1.0	20.00	0	93.2	80	120						
Toluene	19	1.0	20.00	0	96.7	80	120						
Ethylbenzene	20	1.0	20.00	0	99.5	80	120						
Methyl tert-butyl ether (MTBE)	18	1.0	20.00	0	89.2	80	120						
1,2,4-Trimethylbenzene	20	1.0	20.00	0	102	80	120						
1,3,5-Trimethylbenzene	20	1.0	20.00	0	98.6	80	120						
Xylenes, Total	59	1.5	60.00	0	97.9	80	120						
Surr: 4-Bromofluorobenzene	10		10.00		100	70	130						
Surr: Toluene-d8	10		10.00		103	70	130						
Sample ID rb	SampT	ype: ME	BLK	Tes	tCode: E l	PA Method	8260: Volatil	es Short I	List				
Client ID: PBW	Batcl	n ID: C5	1228	F	RunNo: 5	1228							
Prep Date:	Analysis D	Date: 5/	11/2018	8	SeqNo: 1	665345	Units: µg/L						
Analyta	Pocult	PΩI	SPK value	SDK Dof Val	% DEC	Lowl imit	Highl imit	% PDD	PDDI imit	Oual			

TestCode: EPA Method 8260: Volatiles Short List

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Methyl tert-butyl ether (MTBE)	ND	1.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,3,5-Trimethylbenzene	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 4-Bromofluorobenzene	11		10.00		110	70	130			
Surr: Toluene-d8	9.4		10.00		94.3	70	130			

Sample ID 1805503-002ams	SampT	ype: MS	64	Tes	tCode: El	PA Method	8260: Volatile	es Short L	_ist	
Client ID: POE#2	Batch	n ID: C5	1228	F	RunNo: 5	1228				
Prep Date:	Analysis D	ate: 5/	11/2018	S	SeqNo: 1	665890	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	19	1.0	20.00	0	95.5	80	120			
Toluene	20	1.0	20.00	0.07180	101	80	120			
Ethylbenzene	20	1.0	20.00	0	102	80	120			
Methyl tert-butyl ether (MTBE)	13	1.0	20.00	0.3734	62.9	80	120			S
1,2,4-Trimethylbenzene	21	1.0	20.00	0	105	80	120			
1,3,5-Trimethylbenzene	20	1.0	20.00	0	98.8	80	120			
Xylenes, Total	58	1.5	60.00	0.3898	96.4	80	120			
Surr: 4-Bromofluorobenzene	9.7		10.00		96.7	70	130			
Surr: Toluene-d8	10		10.00		103	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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **1805503**

17-May-18

Client: Souder, Miller & Associates

Project: Candelario EMR W

Sample ID 1805503-002amso	d SampT	ype: MS	SD4	TestCode: EPA Method 8260: Volatiles Short List									
Client ID: POE#2	Batch	n ID: C5	1228	F	RunNo: 5								
Prep Date:	Analysis D	ate: 5/	11/2018	8	SeqNo: 1								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Benzene	19	1.0	20.00	0	93.9	80	120	1.75	20				
Toluene	20	1.0	20.00	0.07180	98.9	80	120	2.30	20				
Ethylbenzene	20	1.0	20.00	0	100	80	120	2.06	20				
Methyl tert-butyl ether (MTBE)	13	1.0	20.00	0.3734	63.6	80	120	1.12	20	S			
1,2,4-Trimethylbenzene	21	1.0	20.00	0	104	80	120	1.19	20				
1,3,5-Trimethylbenzene	20	1.0	20.00	0	98.5	80	120	0.283	20				
Xylenes, Total	59	1.5	60.00	0.3898	97.8	80	120	1.44	20				
Surr: 4-Bromofluorobenzene	9.6		10.00		96.0	70	130	0	0				
Surr: Toluene-d8	10		10.00		104	70	130	0	0				

Qualifiers:

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: 1805503

17-May-18

Client: Souder, Miller & Associates

Project. Candelario EMR W

Sample ID	2.5ug gro lcs	SampT	ype: LC	s	Test	Code: El	PA Method	8015D: Gaso	line Rang	е			
Client ID:	LCSW	Batch	ID: A5	1228	R	unNo: 5	1228						
Prep Date:		Analysis D	ate: 5/	11/2018	S	eqNo: 1	665264	Units: mg/L					
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
_	e Organics (GRO)	0.46	0.050	0.5000	0	92.6	70	130					
Surr: BFB		9.3		10.00		92.9	70	130					
Sample ID	2.5ug gro lcs2	SampT	ype: LC	s	TestCode: EPA Method 8015D: Gasoline Range								
Client ID:	LCSW	Batch	ID: B5	1228	RunNo: 51228								
Prep Date:		Analysis D	ate: 5/	11/2018	S	eqNo: 1	;						
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Surr: BFB		9.2		10.00		91.6	70	130					
Sample ID	rb	SampT	уре: МЕ	BLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID:	PBW	Batch	ID: A5	1228	RunNo: 51228								
Prep Date:		Analysis D	ate: 5/	11/2018	S	eqNo: 1	665266	Units: mg/L					
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
•	e Organics (GRO)	ND	0.050										
Surr: BFB		10		10.00		101	70	130					
Sample ID	rb2	SampT	ype: ME	RI K	Tool								
	1651	Code: El	PA Method	8015D: Gaso	line Rang	е							
Client ID:	PBW	Batch	ID: B5			unNo: 5		8015D: Gaso	line Rang	e			
Client ID: Prep Date:	PBW	Batch Analysis D		1228	R		1228	8015D: Gaso Units: %Rec	_	e			
	PBW			1228 11/2018	R	unNo: 5	1228		_	e RPDLimit	Qual		
Prep Date:	PBW	Analysis D	ate: 5/	1228 11/2018	R	unNo: 5	1228 665267	Units: %Rec	:		Qual		
Prep Date: Analyte Surr: BFB	PBW 1805503-001ams	Analysis D Result 10	ate: 5/	11/2018 SPK value 10.00	SPK Ref Val	unNo: 5 eqNo: 1 0 %REC 104	1228 665267 LowLimit 70	Units: %Rec	%RPD	RPDLimit	Qual		
Prep Date: Analyte Surr: BFB	1805503-001ams	Analysis D Result 10 SampT	ate: 5/	11/2018 SPK value 10.00	SPK Ref Val	unNo: 5 eqNo: 1 0 %REC 104	1228 665267 LowLimit 70 PA Method	Units: %Rec HighLimit 130	%RPD	RPDLimit	Qual		
Prep Date: Analyte Surr: BFB Sample ID	1805503-001ams	Analysis D Result 10 SampT	PQL ype: M\$ ID: A5	11228 111/2018 SPK value 10.00	SPK Ref Val Test	unNo: 5 eqNo: 10 %REC 104 Code: El	1228 665267 LowLimit 70 PA Method 1228	Units: %Rec HighLimit 130	%RPD	RPDLimit	Qual		
Prep Date: Analyte Surr: BFB Sample ID Client ID:	1805503-001ams	Analysis D Result 10 SampT Batch	PQL ype: M\$ ID: A5	11/2018 SPK value 10.00	SPK Ref Val Test	unNo: 5: eqNo: 10 %REC 104 Code: EI unNo: 5: eqNo: 10	1228 665267 LowLimit 70 PA Method 1228	Units: %Rec HighLimit 130 8015D: Gaso	%RPD	RPDLimit	Qual		
Prep Date: Analyte Surr: BFB Sample ID Client ID: Prep Date: Analyte	1805503-001ams	Analysis D Result 10 SampT Batch Analysis D	ype: MS	11/2018 SPK value 10.00	SPK Ref Val Test	unNo: 5 eqNo: 10 %REC 104 Code: El unNo: 5 eqNo: 10 %REC 102	1228 665267 LowLimit 70 PA Method 1228 665825	Units: %Rec HighLimit 130 8015D: Gaso Units: mg/L	%RPD	RPDLimit e			
Prep Date: Analyte Surr: BFB Sample ID Client ID: Prep Date: Analyte	1805503-001ams POE#1	Analysis D Result 10 SampT Batch Analysis D Result	PQL PQL ype: MS ID: A5 ate: 5/	11/2018 SPK value 10.00 6 1228 11/2018 SPK value	SPK Ref Val Test R S SPK Ref Val	unNo: 5 eqNo: 10 %REC 104 Code: EI unNo: 5 eqNo: 10 %REC	1228 665267 LowLimit 70 PA Method 1228 665825 LowLimit	Units: %Rec HighLimit 130 8015D: Gaso Units: mg/L HighLimit	%RPD	RPDLimit e			
Prep Date: Analyte Surr: BFB Sample ID Client ID: Prep Date: Analyte Gasoline Rang Surr: BFB	1805503-001ams POE#1	Analysis D Result 10 SampT Batch Analysis D Result 0.51 10	PQL PQL ype: MS ID: A5 ate: 5/	SPK value 10.00 10.00 10.00 S 1228 11/2018 SPK value 0.5000 10.00	SPK Ref Val Test R S SPK Ref Val 0	unNo: 5 eqNo: 10 %REC 104 Code: El unNo: 5 eqNo: 10 %REC 102 102	1228 665267 LowLimit 70 PA Method 1228 665825 LowLimit 70 70	Units: %Rec HighLimit 130 8015D: Gaso Units: mg/L HighLimit 130	%RPD	RPDLimit e RPDLimit			
Prep Date: Analyte Surr: BFB Sample ID Client ID: Prep Date: Analyte Gasoline Rang Surr: BFB	1805503-001ams POE#1 e Organics (GRO)	Analysis D Result 10 SampT Batch Analysis D Result 0.51 10 SampT	ype: MS ID: A5 ate: 5/ PQL 0.050	SPK value 10.00 3 1228 11/2018 SPK value 0.5000 10.00	SPK Ref Val Test SPK Ref Val 0 Test	unNo: 5 eqNo: 10 %REC 104 Code: El unNo: 5 eqNo: 10 %REC 102 102	1228 665267 LowLimit 70 PA Method 1228 665825 LowLimit 70 70	Units: %Rec HighLimit 130 8015D: Gaso Units: mg/L HighLimit 130 130	%RPD	RPDLimit e RPDLimit			
Prep Date: Analyte Surr: BFB Sample ID Client ID: Prep Date: Analyte Gasoline Rang Surr: BFB Sample ID	1805503-001ams POE#1 e Organics (GRO)	Analysis D Result 10 SampT Batch Analysis D Result 0.51 10 SampT	ype: MS ID: A5 PQL 0.050	SPK value 10.00 10.00 10.00 10.00 10.00 10.00	SPK Ref Val Test R S SPK Ref Val 0	unNo: 5: eqNo: 10 %REC 104 Code: EI unNo: 5: eqNo: 10 %REC 102 102 Code: EI	1228 665267 LowLimit 70 PA Method 1228 665825 LowLimit 70 70 PA Method 1228	Units: %Rec HighLimit 130 8015D: Gaso Units: mg/L HighLimit 130 130	%RPD	RPDLimit e RPDLimit			
Prep Date: Analyte Surr: BFB Sample ID Client ID: Prep Date: Analyte Gasoline Rang Surr: BFB Sample ID Client ID:	1805503-001ams POE#1 e Organics (GRO)	Analysis D Result 10 SampT Batch Analysis D Result 0.51 10 SampT Batch	ype: MS ID: A5 PQL 0.050	SPK value 10.00 10.00 3 1228 11/2018 SPK value 0.5000 10.00	SPK Ref Val Test R S SPK Ref Val 0	unNo: 5: eqNo: 10 %REC 104 Code: EI unNo: 5: eqNo: 10 %REC 102 102 Code: EI unNo: 5: eqNo: 10	1228 665267 LowLimit 70 PA Method 1228 665825 LowLimit 70 70 PA Method 1228	Units: %Rec HighLimit 130 8015D: Gaso Units: mg/L HighLimit 130 130 8015D: Gaso	%RPD	RPDLimit e RPDLimit			
Prep Date: Analyte Surr: BFB Sample ID Client ID: Prep Date: Analyte Gasoline Rang Surr: BFB Sample ID Client ID: Prep Date: Analyte Analyte	1805503-001ams POE#1 e Organics (GRO)	Analysis D Result 10 SampT Batch Analysis D Result 0.51 10 SampT Batch Analysis D	ype: MS ID: A5 ate: 5/ PQL 0.050 ype: MS ID: A5 ate: 5/	SPK value 10.00 10.00 3 1228 11/2018 SPK value 0.5000 10.00	SPK Ref Val Test R S SPK Ref Val 0 Test R S	unNo: 5: eqNo: 10 %REC 104 Code: EI unNo: 5: eqNo: 10 %REC 102 102 Code: EI unNo: 5: eqNo: 10	1228 665267 LowLimit 70 PA Method 1228 665825 LowLimit 70 70 PA Method 1228 665826	Units: %Rec HighLimit 130 8015D: Gaso Units: mg/L HighLimit 130 130 8015D: Gaso Units: mg/L	%RPD line Rang %RPD	RPDLimit e RPDLimit	Qual		

Qualifiers:

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

Page 9 of 10

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

Hall Environmental Analysis Laboratory, Inc.

WO#: 1805503

17-May-18

Client: Souder, Miller & Associates

Project: Candelario EMR W

Sample ID MB-38029 SampType: MBLK TestCode: SM2540C MOD: Total Dissolved Solids

Client ID: PBW Batch ID: 38029 RunNo: 51182

Prep Date: 5/9/2018 Analysis Date: 5/10/2018 SeqNo: 1662892 Units: mg/L

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

Total Dissolved Solids ND 20.0

Sample ID LCS-38029 SampType: LCS TestCode: SM2540C MOD: Total Dissolved Solids

Client ID: LCSW Batch ID: 38029 RunNo: 51182

Prep Date: 5/9/2018 Analysis Date: 5/10/2018 SeqNo: 1662893 Units: mg/L

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

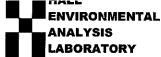
Total Dissolved Solids 1010 20.0 1000 0 101 80 120

Qualifiers:

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

7 Maryte detected in the associated Method Blain

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4901 Hawkins NE Albuquerque, NM 87109

Sample Log-In Check List

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com Client Name: SMA-CARLSBAD Work Order Number: 1805503 RcptNo: 1 Received By: isaiah Ortiz 5/9/2018 9:30:00 AM Completed By: **Ashley Gallegos** 5/9/2018 12:25:56 PM Reviewed By: ZI() Chain of Custody No 🗆 Yes 🗸 Is Chain of Custody complete? Not Present 2. How was the sample delivered? Courier Log In 3. Was an attempt made to cool the samples? NA 🗌 Yes 🔽 No 🗌 4. Were all samples received at a temperature of >0° C to 6.0°C No 🗌 NA 🗆 Yes 🗹 No 🗌 5. Sample(s) in proper container(s)? Yes 🗸 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? No 🔽 Yes 🔲 NA 🗌 9. VOA vials have zero headspace? Yes 🗹 No 🗌 No VOA Vials Yes 10. Were any sample containers received broken? No 🗹 # of preserved bottles check 11. Does paperwork match bottle labels? Yes 🔽 No 🗌 for pH: of >12 unless noted) (Note discrepancies on chain of custody) Adjusted? 12. Are matrices correctly identified on Chain of Custody? Yes 🗸 No 🗀 13. Is it clear what analyses were requested? Yes 🗹 No \square 14. Were all holding times able to be met? No 🗌 hecked by: Yes 🗸 (If no, notify customer for authorization.) Special Handling (if applicable) Yes 🗌 15. Was client notified of all discrepancies with this order? No 🗌 NA 🔽 Person Notified: Date By Whom: Via: ☐ eMail ☐ Phone ☐ Fax In Person Regarding: Client Instructions:

16. Additional remarks:

17. Cooler Information

ŀ	Cooler No	lemp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
	1	3.9	Good	Yes			

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-	4		.,							Matrix									\perp	Relinquished by:	P. A.
Chain-of-Custody Record	Client UNA -		Mailing Address:			-ax#:	QA/QC Package: Standard	tion	☐ EDD (Type)	Time	Lard	10:22	10:45	10:32						Time:	Time: Relinguished by: Received by Coultre
$\dot{\circ}$	اريا		ing A		Phone #:	email or Fax#:	QA/QC Packa □ Standard	Accreditation) aa									-		_\	
	Clie		Mail		Pho	ema	QA/C	Acc		Date	27 72	- × -	2	2						Date:	



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

May 22, 2018

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

FAX

RE: Candelario EMR W OrderNo.: 1805504

Dear Austin Weyant:

Hall Environmental Analysis Laboratory received 4 sample(s) on 5/9/2018 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 5/22/2018

CLIENT: Souder, Miller & Associates Client Sample ID: POE#1

Project: Candelario EMR W
 Collection Date: 5/3/2018 10:27:00 AM

 Lab ID: 1805504-001
 Matrix: AQUEOUS
 Received Date: 5/9/2018 9:30:00 AM

Analyses	Result	PQL	Qual	Units	DF Date Analyzed Bate	ch
EPA METHOD 300.0: ANIONS					Analyst: MR	A
Chloride	1200	50	*	mg/L	100 5/14/2018 11:03:56 AM R51	270
SM2540C MOD: TOTAL DISSOLVED	SOLIDS				Analyst: sat	
Total Dissolved Solids	4770	20.0	*	mg/L	1 5/10/2018 5:00:00 PM 3802	29
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst: AG	
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1 5/11/2018 1:18:43 PM A51:	228
Surr: BFB	103	70-130		%Rec	1 5/11/2018 1:18:43 PM A51:	228
EPA METHOD 8015M/D: DIESEL RAM	IGE				Analyst: Irm	
Diesel Range Organics (DRO)	ND	1.0	Н	mg/L	1 5/15/2018 12:11:42 PM 3807	72
Motor Oil Range Organics (MRO)	ND	5.0	Н	mg/L	1 5/15/2018 12:11:42 PM 3807	72
Surr: DNOP	115	76.7-135	Н	%Rec	1 5/15/2018 12:11:42 PM 3807	72
EPA METHOD 8260: VOLATILES SHO	ORT LIST				Analyst: AG	
Benzene	ND	1.0		μg/L	1 5/11/2018 1:18:43 PM C51	228
Toluene	ND	1.0		μg/L	1 5/11/2018 1:18:43 PM C51	228
Ethylbenzene	ND	1.0		μg/L	1 5/11/2018 1:18:43 PM C51	228
Methyl tert-butyl ether (MTBE)	ND	1.0		μg/L	1 5/11/2018 1:18:43 PM C51	228
1,2,4-Trimethylbenzene	ND	1.0		μg/L	1 5/11/2018 1:18:43 PM C51	228
1,3,5-Trimethylbenzene	ND	1.0		μg/L	1 5/11/2018 1:18:43 PM C51	228
Xylenes, Total	ND	1.5		μg/L	1 5/11/2018 1:18:43 PM C51	228
Surr: 4-Bromofluorobenzene	112	70-130		%Rec	1 5/11/2018 1:18:43 PM C51	228
Surr: Toluene-d8	96.4	70-130		%Rec	1 5/11/2018 1:18:43 PM C51	228

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 1 of 9
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 5/22/2018

CLIENT: Souder, Miller & Associates Client Sample ID: POE#2

Project:Candelario EMR WCollection Date: 5/3/2018 10:15:00 AMLab ID:1805504-002Matrix: AQUEOUSReceived Date: 5/9/2018 9:30:00 AM

Analyses	Result	PQL	Qual	Units	DF Date Analyzed Bate	ch
EPA METHOD 300.0: ANIONS					Analyst: MR	Α
Chloride	1200	50	*	mg/L	100 5/14/2018 11:28:45 AM R51:	270
SM2540C MOD: TOTAL DISSOLVED	SOLIDS				Analyst: sat	
Total Dissolved Solids	4700	20.0	*	mg/L	1 5/10/2018 5:00:00 PM 3802	29
EPA METHOD 8015D: GASOLINE RA	ANGE				Analyst: AG	
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1 5/11/2018 1:41:50 PM A51:	228
Surr: BFB	107	70-130		%Rec	1 5/11/2018 1:41:50 PM A51:	228
EPA METHOD 8015M/D: DIESEL RA	NGE				Analyst: Irm	
Diesel Range Organics (DRO)	ND	1.0	Н	mg/L	1 5/15/2018 12:34:01 PM 3807	72
Motor Oil Range Organics (MRO)	ND	5.0	Н	mg/L	1 5/15/2018 12:34:01 PM 3807	72
Surr: DNOP	111	76.7-135	Н	%Rec	1 5/15/2018 12:34:01 PM 3807	72
EPA METHOD 8260: VOLATILES SH	ORT LIST				Analyst: AG	
Benzene	ND	1.0		μg/L	1 5/11/2018 1:41:50 PM C51:	228
Toluene	ND	1.0		μg/L	1 5/11/2018 1:41:50 PM C51:	228
Ethylbenzene	ND	1.0		μg/L	1 5/11/2018 1:41:50 PM C51:	228
Methyl tert-butyl ether (MTBE)	ND	1.0		μg/L	1 5/11/2018 1:41:50 PM C51:	228
1,2,4-Trimethylbenzene	ND	1.0		μg/L	1 5/11/2018 1:41:50 PM C51:	228
1,3,5-Trimethylbenzene	ND	1.0		μg/L	1 5/11/2018 1:41:50 PM C51:	228
Xylenes, Total	ND	1.5		μg/L	1 5/11/2018 1:41:50 PM C51:	228
Surr: 4-Bromofluorobenzene	117	70-130		%Rec	1 5/11/2018 1:41:50 PM C51:	228
Surr: Toluene-d8	103	70-130		%Rec	1 5/11/2018 1:41:50 PM C51:	228

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank				
	D	Sample Diluted Due to Matrix	E	Value above quantitation range				
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 2 of 9				
	D Sample Dilute H Holding times ND Not Detected a PQL Practical Quan	Not Detected at the Reporting Limit	P	Sample pH Not In Range				
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit				
	S	Sample Diluted Due to Matrix	W	Sample container temperature is out of limit as specified				

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 5/22/2018

CLIENT: Souder, Miller & Associates Client Sample ID: Upstream

Project:Candelario EMR WCollection Date: 5/3/2018 10:55:00 AMLab ID:1805504-003Matrix: AQUEOUSReceived Date: 5/9/2018 9:30:00 AM

Analyses	Result	PQL	Qual	Units	DF Date Analyzed Batc	h
EPA METHOD 300.0: ANIONS					Analyst: MR	\
Chloride	1100	50	*	mg/L	100 5/14/2018 11:53:35 AM R512	270
SM2540C MOD: TOTAL DISSOLVED	SOLIDS				Analyst: sat	
Total Dissolved Solids	4990	20.0	*	mg/L	1 5/10/2018 5:00:00 PM 3802	9
EPA METHOD 8015D: GASOLINE RA	ANGE				Analyst: AG	
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1 5/11/2018 2:04:55 PM A512	228
Surr: BFB	106	70-130		%Rec	1 5/11/2018 2:04:55 PM A512	28
EPA METHOD 8015M/D: DIESEL RA	NGE				Analyst: Irm	
Diesel Range Organics (DRO)	ND	1.0	Н	mg/L	1 5/15/2018 12:56:06 PM 3807	2
Motor Oil Range Organics (MRO)	ND	5.0	Н	mg/L	1 5/15/2018 12:56:06 PM 3807	2
Surr: DNOP	112	76.7-135	Н	%Rec	1 5/15/2018 12:56:06 PM 3807	2
EPA METHOD 8260: VOLATILES SH	ORT LIST				Analyst: AG	
Benzene	ND	1.0		μg/L	1 5/11/2018 2:04:55 PM C512	228
Toluene	ND	1.0		μg/L	1 5/11/2018 2:04:55 PM C512	228
Ethylbenzene	ND	1.0		μg/L	1 5/11/2018 2:04:55 PM C512	228
Methyl tert-butyl ether (MTBE)	ND	1.0		μg/L	1 5/11/2018 2:04:55 PM C512	228
1,2,4-Trimethylbenzene	ND	1.0		μg/L	1 5/11/2018 2:04:55 PM C512	228
1,3,5-Trimethylbenzene	ND	1.0		μg/L	1 5/11/2018 2:04:55 PM C512	228
Xylenes, Total	ND	1.5		μg/L	1 5/11/2018 2:04:55 PM C512	228
Surr: 4-Bromofluorobenzene	116	70-130		%Rec	1 5/11/2018 2:04:55 PM C512	228
Surr: Toluene-d8	102	70-130		%Rec	1 5/11/2018 2:04:55 PM C512	228

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 3 of 9
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc. Date Reported: 5/22/2018

CLIENT: Souder, Miller & Associates Client Sample ID: Downstream

Project:Candelario EMR WCollection Date: 5/3/2018 11:18:00 AMLab ID:1805504-004Matrix: AQUEOUSReceived Date: 5/9/2018 9:30:00 AM

Analyses	Result	PQL	Qual	Units	DF Date A	nalyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	MRA
Chloride	1400	50	*	mg/L	100 5/14/20	18 12:18:23 PM	R51270
SM2540C MOD: TOTAL DISSOLVED	SOLIDS					Analyst	sat
Total Dissolved Solids	4740	20.0	*	mg/L	1 5/10/20	18 5:00:00 PM	38029
EPA METHOD 8015D: GASOLINE R	ANGE					Analyst	: AG
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1 5/11/20	18 2:28:06 PM	A51228
Surr: BFB	108	70-130		%Rec	1 5/11/20	18 2:28:06 PM	A51228
EPA METHOD 8015M/D: DIESEL RA	NGE					Analyst	: Irm
Diesel Range Organics (DRO)	ND	1.0	Н	mg/L	1 5/15/20	18 1:18:20 PM	38072
Motor Oil Range Organics (MRO)	ND	5.0	Н	mg/L	1 5/15/20	18 1:18:20 PM	38072
Surr: DNOP	112	76.7-135	Н	%Rec	1 5/15/20	18 1:18:20 PM	38072
EPA METHOD 8260: VOLATILES SH	ORT LIST					Analyst	: AG
Benzene	ND	1.0		μg/L	1 5/11/20	18 2:28:06 PM	C51228
Toluene	ND	1.0		μg/L	1 5/11/20	18 2:28:06 PM	C51228
Ethylbenzene	ND	1.0		μg/L	1 5/11/20	18 2:28:06 PM	C51228
Methyl tert-butyl ether (MTBE)	ND	1.0		μg/L	1 5/11/20	18 2:28:06 PM	C51228
1,2,4-Trimethylbenzene	ND	1.0		μg/L	1 5/11/20	18 2:28:06 PM	C51228
1,3,5-Trimethylbenzene	ND	1.0		μg/L	1 5/11/20	18 2:28:06 PM	C51228
Xylenes, Total	ND	1.5		μg/L	1 5/11/20	18 2:28:06 PM	C51228
Surr: 4-Bromofluorobenzene	118	70-130		%Rec	1 5/11/20	18 2:28:06 PM	C51228
Surr: Toluene-d8	104	70-130		%Rec	1 5/11/20	18 2:28:06 PM	C51228

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank				
	D	Sample Diluted Due to Matrix	E	Value above quantitation range				
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 4 of 9				
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range				
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit				
	S	Sample Diluted Due to Matrix	W	Sample container temperature is out of limit as specified				

Hall Environmental Analysis Laboratory, Inc.

WO#: 1805504

22-May-18

Client: Souder, Miller & Associates

Project: Candelario EMR W

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

Client ID: PBW Batch ID: R51270 RunNo: 51270

Prep Date: Analysis Date: 5/14/2018 SeqNo: 1666618 Units: mg/L

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

Chloride ND 0.50

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

Client ID: LCSW Batch ID: R51270 RunNo: 51270

Prep Date: Analysis Date: 5/14/2018 SeqNo: 1666619 Units: mg/L

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

Chloride 4.7 0.50 5.000 0 93.1 90 110

Qualifiers:

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **1805504**

22-May-18

Client: Souder, Miller & Associates

Project: Candelario EMR W

Sample ID MB-38072 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Client ID: PBW Batch ID: 38072 RunNo: 51235 Analysis Date: 5/15/2018 Prep Date: 5/11/2018 SeqNo: 1667033 Units: mg/L Analyte **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) ND 1.0 Motor Oil Range Organics (MRO) ND 5.0 Surr: DNOP 1.2 1.000 124 76.7 135

Sample ID LCS-38072 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Client ID: LCSW Batch ID: 38072 RunNo: 51235 Analysis Date: 5/15/2018 Prep Date: 5/11/2018 SeqNo: 1667034 Units: mg/L Analyte **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 4.7 1.0 0 94.5 70 5.000 130 Surr: DNOP 0.57 0.5000 115 76.7 135

Qualifiers:

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **1805504**

22-May-18

Client: Souder, Miller & Associates

Project: Candelario EMR W

Sample ID 100ng Ics	SampT	ype: LC	S4	TestCode: EPA Method 8260: Volatiles Short List											
Client ID: BatchQC	Point ID: BatchQC Batch ID: C51228 IP Date: Analysis Date: 5/11/2018 IP Date: Result PQL SPK v IP PQL SPK v PQL SPK v IP PQL 1.0 20 IP PQL 1.0 20					RunNo: 51228									
Prep Date:	Analysis D	ate: 5/	11/2018	S	SeqNo: 1	665319	Units: µg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual					
Benzene	19	1.0	20.00	0	93.2	80	120								
Toluene	19	1.0	20.00	0	96.7	80	120								
Ethylbenzene	20	1.0	20.00	0	99.5	80	120								
Methyl tert-butyl ether (MTBE)	18	1.0	20.00	0	89.2	80	120								
1,2,4-Trimethylbenzene	20	1.0	20.00	0	102	80	120								
1,3,5-Trimethylbenzene	20	1.0	20.00	0	98.6	80	120								
Xylenes, Total	59	1.5	60.00	0	97.9	80	120								
Surr: 4-Bromofluorobenzene	10		10.00		100	70	130								
Surr: Toluene-d8	10		10.00		103	70	130								

Sample ID rb	SampT	ype: M E	BLK	Tes	tCode: El	PA Method	8260: Volatile	es Short L	_ist	
Client ID: PBW	Batch	n ID: C5	1228	F	RunNo: 5	1228				
Prep Date:	Analysis D	ate: 5/	11/2018	8	SeqNo: 1	665345	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Methyl tert-butyl ether (MTBE)	ND	1.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,3,5-Trimethylbenzene	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 4-Bromofluorobenzene	11		10.00		110	70	130			
Surr: Toluene-d8	9.4		10.00		94.3	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 7 of 9

Hall Environmental Analysis Laboratory, Inc.

WO#: 1805504

22-May-18

Client: Souder, Miller & Associates

Project: Candelario EMR W

Sample ID 2.5ug gro lcs SampType: LCS TestCode: EPA Method 8015D: Gasoline Range Client ID: LCSW Batch ID: **A51228** RunNo: 51228 Analysis Date: 5/11/2018 Prep Date: SeqNo: 1665264 Units: mg/L

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 0.46 0.050 0.5000 0 92.6 70 130 Surr: BFB 92.9 70 9.3 10.00 130

TestCode: EPA Method 8015D: Gasoline Range Sample ID rb SampType: MBLK Client ID: PBW Batch ID: **A51228** RunNo: 51228 Prep Date: Analysis Date: 5/11/2018 SeqNo: 1665266 Units: mg/L

HighLimit

%RPD

RPDLimit

Qual

Analyte SPK value SPK Ref Val %REC LowLimit Gasoline Range Organics (GRO) ND 0.050

Result

10 10.00 101 70 Surr: BFB 130

PQL

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Η Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

POL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

В Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

Sample container temperature is out of limit as specified

Page 8 of 9

Hall Environmental Analysis Laboratory, Inc.

WO#: **1805504**

22-May-18

Client: Souder, Miller & Associates

Project: Candelario EMR W

Sample ID MB-38029 SampType: MBLK TestCode: SM2540C MOD: Total Dissolved Solids

Client ID: PBW Batch ID: 38029 RunNo: 51182

Prep Date: 5/9/2018 Analysis Date: 5/10/2018 SeqNo: 1662892 Units: mg/L

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

Total Dissolved Solids ND 20.0

Sample ID LCS-38029 SampType: LCS TestCode: SM2540C MOD: Total Dissolved Solids

Client ID: LCSW Batch ID: 38029 RunNo: 51182

Prep Date: 5/9/2018 Analysis Date: 5/10/2018 SeqNo: 1662893 Units: mg/L

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

Total Dissolved Solids 1010 20.0 1000 0 101 80 120

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Page 9 of 9



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 Orde	r Number: 1805504		RcptNo:	1
Received By:	Isaiah Ortiz	5/9/2018 9:30	0:00 AM	ICA	-	
Completed By:	Ashley Gallegos	5/9/2018 12:2	28:48 PM	A		
Reviewed By:	30	5/9/19	Labeled	j pa,	LB	
Chain of Cust	<u>tody</u>			<u> </u>		And the state of t
1. Is Chain of Cu	ustody complete?		Yes 🗹	No 🗌	Not Present	
2. How was the	sample delivered?		Courier			
<u>Log In</u>						•
	pt made to cool the samp	les?	Yes 🗹	No 🗆	NA 🗆	
4. Were all samp	les received at a tempera	ture of >0° C to 6.0°	C Yes 🗹	No 🗌	NA 🗆	
5. Sample(s) in p	proper container(s)?		Yes 🗹	No 🗆		
6. Sufficient same	ole volume for indicated te	est(s)?	Yes 🔽	No 🗆	•	
7. Are samples (e	except VOA and ONG) pro	perly preserved?	Yes 🗹	No 🗆		
8. Was preservati	ive added to bottles?		Yes 🗌	No 🗹	NA 🗆	
9. VOA vials have	e zero headspace?		Yes 🗹	No 🗌	No VOA Vials	
10. Were any sam	ple containers received be	roken?	Yes 🗌	No 🗹	# of preserved	
11 Does paperwor	k match bottle labels?			,	bottles checked / (^
	ncies on chain of custody)	•	Yes 🗹	No 📙	for pH: (<2/6+>	2 unless noted)
12. Are matrices co	orrectly identified on Chair	of Custody?	Yes 🗸	No 🗌	Adjusted?	
	analyses were requested?	?	Yes 🗹	No 🗌		
	g times able to be met? stomer for authorization.)		Yes 🗹	No 🗌	Checked by:	
	ng (if applicable)			_	_	
15, vvas client noti	fied of all discrepancies w	vith this order?	Yes 📙	No L	NA 🗹	
Person N	1		Date			
By Whon	Language Commission of the Com		Via: 🦳 eMail 🗌 Ph	none 🗌 Fax	☐ In Person	•
Regardin Client Ins	structions:					
16. Additional rem						
17. <u>Cooler Inform</u> Cooler No	nation Temp °C Condition	Seal Intact Seal	No Seal Date {			
		Yes	ocal Pale	Signed By		

	TRush 5 day		1946 : FMR - H 4901 Hawkins NE - Albumerans NM 87400	۰	Analysis	(0)	OS'*(S	Miss (Secondary Secondary	(1.8 (1.8 (1.4 (1.4 (1.4 (1.4 (1.4 (1.4 (1.4 (1.4	25 70 14 t 1 14 t 1 10 O 1	Preservative Type	8 8 8 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	×	*	メ					Sale Time Remarks: Each Samples containers are in	18 930 Roccott	accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report
Turn-Around Time:	□ Standard	Project Name:	Cande	Project #:		Project Manager:	7	MASTIN	Sampler: ,	Sample Temperature	Container Type and #	MIC.	11	n/ ar	'Vice 'and	Ē		:	:	Received by:	1.0	tracted to other a
Chain-of-Custody Record	in 18 bach							☐ Level 4 (Full Validation)			Sample Request ID	5. PO£#1	POE#2	# Wostman	Dovonstran							Submitted to Half Environmental may be subcontracted to other accreating laboratories
1-of-Cu	A-Ca		S:						□ Other		Matrix	agueous.	. 64	1	3 2.					Kelinguished by:	^ / 1	Hample Carbonit
Chain	Olient: (M)		Mailing Address:		Phone #:	email or Fax#:	QA/QC Package:	□ Standard	Accreditation □ NELAP	□ EDD (Type)	te Time	4:01 81	10:15	10.55	81:11		-		j	3:00 Time:	130	lames vacaseau il
	Clie		Mail		Pho	ema	QA/C	S □	Acc.		Date	8/8/18	agent Lightin		tru-			ļ		Ogte School	TO THE	_



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

May 22, 2018

Austin Weyant Souder, Miller & Associates 201 S Halagueno Carlsbad, NM 88221

TEL: (575) 689-7040

FAX

RE: Candelario EMR W OrderNo.: 1805506

Dear Austin Weyant:

Hall Environmental Analysis Laboratory received 4 sample(s) on 5/9/2018 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order **1805506**Date Reported: **5/22/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: POE#1

Project: Candelario EMR W
 Collection Date: 5/4/2018 10:09:00 AM

 Lab ID: 1805506-001
 Matrix: AQUEOUS
 Received Date: 5/9/2018 9:30:00 AM

Analyses	Result	PQL	Qual	Units	DF Date Analyzed B	atch
EPA METHOD 300.0: ANIONS					Analyst: N	/IRA
Chloride	1300	50	*	mg/L	100 5/11/2018 12:41:51 PM R	R51222
SM2540C MOD: TOTAL DISSOLVED	SOLIDS				Analyst: s	at
Total Dissolved Solids	4600	40.0	*D	mg/L	1 5/11/2018 12:48:00 PM 3	88053
EPA METHOD 8015D: GASOLINE R	ANGE				Analyst: A	AG
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1 5/11/2018 2:51:13 PM A	A51228
Surr: BFB	109	70-130		%Rec	1 5/11/2018 2:51:13 PM A	A51228
EPA METHOD 8015M/D: DIESEL RA	NGE				Analyst: Ir	rm
Diesel Range Organics (DRO)	ND	1.0		mg/L	1 5/15/2018 1:40:19 PM 3	88072
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1 5/15/2018 1:40:19 PM 3	38072
Surr: DNOP	113	76.7-135		%Rec	1 5/15/2018 1:40:19 PM 3	88072
EPA METHOD 8260: VOLATILES SH	HORT LIST				Analyst: A	\G
Benzene	ND	1.0		μg/L	1 5/11/2018 2:51:13 PM C	C51228
Toluene	ND	1.0		μg/L	1 5/11/2018 2:51:13 PM C	C51228
Ethylbenzene	ND	1.0		μg/L	1 5/11/2018 2:51:13 PM C	C51228
Methyl tert-butyl ether (MTBE)	ND	1.0		μg/L	1 5/11/2018 2:51:13 PM C	C51228
1,2,4-Trimethylbenzene	ND	1.0		μg/L	1 5/11/2018 2:51:13 PM C	C51228
1,3,5-Trimethylbenzene	ND	1.0		μg/L	1 5/11/2018 2:51:13 PM C	C51228
Xylenes, Total	ND	1.5		μg/L	1 5/11/2018 2:51:13 PM C	C51228
Surr: 4-Bromofluorobenzene	119	70-130		%Rec	1 5/11/2018 2:51:13 PM C	C51228
Surr: Toluene-d8	101	70-130		%Rec	1 5/11/2018 2:51:13 PM C	C51228

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank		
	D	Sample Diluted Due to Matrix	E	Value above quantitation range		
	Н	Holding times for preparation or analysis exceeded	d J Analyte detected below quantitation limits Pa			
	ND	Not Detected at the Reporting Limit	Sample pH Not In Range Page 1 of 9			
	Reporting Detection Limit					
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified		

Lab Order **1805506**Date Reported: **5/22/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: POE#2

Project:Candelario EMR WCollection Date: 5/4/2018 10:17:00 AMLab ID:1805506-002Matrix: AQUEOUSReceived Date: 5/9/2018 9:30:00 AM

Analyses	Result	PQL	Qual	Units	DF Date Analyzed Batc	h
EPA METHOD 300.0: ANIONS					Analyst: MR	A
Chloride	1200	50	*	mg/L	100 5/11/2018 1:07:35 PM R512	222
SM2540C MOD: TOTAL DISSOLVED	SOLIDS				Analyst: sat	
Total Dissolved Solids	4520	40.0	*D	mg/L	1 5/11/2018 12:48:00 PM 3805	3
EPA METHOD 8015D: GASOLINE RA	ANGE				Analyst: AG	
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1 5/11/2018 3:14:18 PM A512	228
Surr: BFB	107	70-130		%Rec	1 5/11/2018 3:14:18 PM A512	228
EPA METHOD 8015M/D: DIESEL RA	NGE				Analyst: Irm	
Diesel Range Organics (DRO)	ND	1.0		mg/L	1 5/15/2018 2:02:30 PM 3807	2
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1 5/15/2018 2:02:30 PM 3807	2
Surr: DNOP	117	76.7-135		%Rec	1 5/15/2018 2:02:30 PM 3807	2
EPA METHOD 8260: VOLATILES SH	ORT LIST				Analyst: AG	
Benzene	ND	1.0		μg/L	1 5/11/2018 3:14:18 PM C512	228
Toluene	ND	1.0		μg/L	1 5/11/2018 3:14:18 PM C512	228
Ethylbenzene	ND	1.0		μg/L	1 5/11/2018 3:14:18 PM C512	228
Methyl tert-butyl ether (MTBE)	ND	1.0		μg/L	1 5/11/2018 3:14:18 PM C512	228
1,2,4-Trimethylbenzene	ND	1.0		μg/L	1 5/11/2018 3:14:18 PM C512	228
1,3,5-Trimethylbenzene	ND	1.0		μg/L	1 5/11/2018 3:14:18 PM C512	228
Xylenes, Total	ND	1.5		μg/L	1 5/11/2018 3:14:18 PM C512	228
Surr: 4-Bromofluorobenzene	116	70-130		%Rec	1 5/11/2018 3:14:18 PM C512	228
Surr: Toluene-d8	101	70-130		%Rec	1 5/11/2018 3:14:18 PM C512	228

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank			
	D	Sample Diluted Due to Matrix	E	Value above quantitation range			
	H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limits						
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range Page 2 of 9			
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit			
	S	% Recovery outside of range due to dilution or matrix	W	V Sample container temperature is out of limit as specified			

Lab Order **1805506**Date Reported: **5/22/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: Upstream

Project:Candelario EMR WCollection Date: 5/4/2018 10:39:00 AMLab ID:1805506-003Matrix: AQUEOUSReceived Date: 5/9/2018 9:30:00 AM

Analyses	Result	PQL	Qual	Units	DF Date Analyzed Ba	atch
EPA METHOD 300.0: ANIONS					Analyst: M	IRA
Chloride	1300	50	*	mg/L	100 5/14/2018 1:08:01 PM R	51270
SM2540C MOD: TOTAL DISSOLVED	SOLIDS				Analyst: sa	at
Total Dissolved Solids	4770	40.0	*D	mg/L	1 5/11/2018 12:48:00 PM 38	8053
EPA METHOD 8015D: GASOLINE R	ANGE				Analyst: A	G
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1 5/11/2018 3:37:22 PM As	51228
Surr: BFB	106	70-130		%Rec	1 5/11/2018 3:37:22 PM A	51228
EPA METHOD 8015M/D: DIESEL RA	NGE				Analyst: Irr	m
Diesel Range Organics (DRO)	ND	1.0		mg/L	1 5/15/2018 2:24:30 PM 38	8072
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1 5/15/2018 2:24:30 PM 38	8072
Surr: DNOP	117	76.7-135		%Rec	1 5/15/2018 2:24:30 PM 38	8072
EPA METHOD 8260: VOLATILES SH	HORT LIST				Analyst: A	G
Benzene	ND	1.0		μg/L	1 5/11/2018 3:37:22 PM C	51228
Toluene	ND	1.0		μg/L	1 5/11/2018 3:37:22 PM C	51228
Ethylbenzene	ND	1.0		μg/L	1 5/11/2018 3:37:22 PM C	51228
Methyl tert-butyl ether (MTBE)	ND	1.0		μg/L	1 5/11/2018 3:37:22 PM C	51228
1,2,4-Trimethylbenzene	ND	1.0		μg/L	1 5/11/2018 3:37:22 PM C	51228
1,3,5-Trimethylbenzene	ND	1.0		μg/L	1 5/11/2018 3:37:22 PM C	51228
Xylenes, Total	ND	1.5		μg/L	1 5/11/2018 3:37:22 PM C	51228
Surr: 4-Bromofluorobenzene	115	70-130		%Rec	1 5/11/2018 3:37:22 PM C	51228
Surr: Toluene-d8	103	70-130		%Rec	1 5/11/2018 3:37:22 PM C	51228

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 3 of 9
	ND Not Detected at the Reporting Limit			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

Lab Order **1805506**Date Reported: **5/22/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: Downstream

Project: Candelario EMR W
 Collection Date: 5/4/2018 10:24:00 AM

 Lab ID: 1805506-004
 Matrix: AQUEOUS
 Received Date: 5/9/2018 9:30:00 AM

Analyses	Result	PQL	Qual	Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	MRA
Chloride	1300	50	*	mg/L	100 5/14/2018 1:32:50 PM	R51270
SM2540C MOD: TOTAL DISSOLVED	SOLIDS				Analyst:	sat
Total Dissolved Solids	4630	40.0	*D	mg/L	1 5/11/2018 12:48:00 PM	38053
EPA METHOD 8015D: GASOLINE R.	ANGE				Analyst:	AG
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1 5/11/2018 4:00:36 PM	A51228
Surr: BFB	110	70-130		%Rec	1 5/11/2018 4:00:36 PM	A51228
EPA METHOD 8015M/D: DIESEL RA	NGE				Analyst:	Irm
Diesel Range Organics (DRO)	ND	1.0		mg/L	1 5/15/2018 2:46:38 PM	38072
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1 5/15/2018 2:46:38 PM	38072
Surr: DNOP	122	76.7-135		%Rec	1 5/15/2018 2:46:38 PM	38072
EPA METHOD 8260: VOLATILES SH	ORT LIST				Analyst:	AG
Benzene	ND	1.0		μg/L	1 5/11/2018 4:00:36 PM	C51228
Toluene	ND	1.0		μg/L	1 5/11/2018 4:00:36 PM	C51228
Ethylbenzene	ND	1.0		μg/L	1 5/11/2018 4:00:36 PM	C51228
Methyl tert-butyl ether (MTBE)	ND	1.0		μg/L	1 5/11/2018 4:00:36 PM	C51228
1,2,4-Trimethylbenzene	ND	1.0		μg/L	1 5/11/2018 4:00:36 PM	C51228
1,3,5-Trimethylbenzene	ND	1.0		μg/L	1 5/11/2018 4:00:36 PM	C51228
Xylenes, Total	ND	1.5		μg/L	1 5/11/2018 4:00:36 PM	C51228
Surr: 4-Bromofluorobenzene	120	70-130		%Rec	1 5/11/2018 4:00:36 PM	C51228
Surr: Toluene-d8	102	70-130		%Rec	1 5/11/2018 4:00:36 PM	C51228

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank			
	D	Sample Diluted Due to Matrix	E	Value above quantitation range			
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 4 of 9			
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range			
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit			
	S	% Recovery outside of range due to dilution or matrix	W	V Sample container temperature is out of limit as specified			

Hall Environmental Analysis Laboratory, Inc.

WO#: **1805506**

22-May-18

Client: Souder, Miller & Associates

Project: Candelario EMR W

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

Client ID: PBW Batch ID: R51222 RunNo: 51222

Prep Date: Analysis Date: 5/11/2018 SeqNo: 1664966 Units: mg/L

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

Chloride ND 0.50

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

Client ID: LCSW Batch ID: R51222 RunNo: 51222

Prep Date: Analysis Date: 5/11/2018 SeqNo: 1664967 Units: mg/L

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

 Chloride
 4.6
 0.50
 5.000
 0
 92.5
 90
 110

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

Client ID: PBW Batch ID: R51270 RunNo: 51270

Prep Date: Analysis Date: 5/14/2018 SeqNo: 1666618 Units: mg/L

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

Chloride ND 0.50

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

Client ID: LCSW Batch ID: R51270 RunNo: 51270

Prep Date: Analysis Date: 5/14/2018 SeqNo: 1666619 Units: mg/L

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

Chloride 4.7 0.50 5.000 0 93.1 90 110

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Page 5 of 9

Hall Environmental Analysis Laboratory, Inc.

WO#: **1805506**

22-May-18

Client: Souder, Miller & Associates

Project: Candelario EMR W

Sample ID MB-38072 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Client ID: PBW Batch ID: 38072 RunNo: 51235 Analysis Date: 5/15/2018 Prep Date: 5/11/2018 SeqNo: 1667033 Units: mg/L Analyte **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) ND 1.0 Motor Oil Range Organics (MRO) ND 5.0 Surr: DNOP 1.2 1.000 124 76.7 135

Sample ID LCS-38072 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Client ID: LCSW Batch ID: 38072 RunNo: 51235 Analysis Date: 5/15/2018 Prep Date: 5/11/2018 SeqNo: 1667034 Units: mg/L Analyte **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 4.7 1.0 0 94.5 70 5.000 130 Surr: DNOP 0.57 0.5000 115 76.7 135

Qualifiers:

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

Page 6 of 9

Hall Environmental Analysis Laboratory, Inc.

WO#:

1805506 22-May-18

Client: Souder, Miller & Associates

Project: Candelario EMR W

Sample ID 100ng Ics	SampT	ype: LC	:S4	PA Method	8260: Volatiles Short List					
Client ID: BatchQC	Batch	n ID: C5	1228	F	RunNo: 5	1228				
Prep Date:	Analysis D	ate: 5/	11/2018	SeqNo: 1665319			Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	19	1.0	20.00	0	93.2	80	120			
Toluene	19	1.0	20.00	0	96.7	80	120			
Ethylbenzene	20	1.0	20.00	0	99.5	80	120			
Methyl tert-butyl ether (MTBE)	18	1.0	20.00	0	89.2	80	120			
1,2,4-Trimethylbenzene	20	1.0	20.00	0	102	80	120			
1,3,5-Trimethylbenzene	20	1.0	20.00	0	98.6	80	120			
Xylenes, Total	59	1.5	60.00	0	97.9	80	120			
Surr: 4-Bromofluorobenzene	10		10.00		100	70	130			
Surr: Toluene-d8	10		10.00		103	70	130			

Sample ID rb	SampT	ype: ME	BLK	TestCode: EPA Meth			hod 8260: Volatiles Short List					
Client ID: PBW	Batch	n ID: C5	1228	F	RunNo: 5	1228						
Prep Date:	Analysis D	ate: 5/	11/2018	8	SeqNo: 1	665345	Units: µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	ND	1.0										
Toluene	ND	1.0										
Ethylbenzene	ND	1.0										
Methyl tert-butyl ether (MTBE)	ND	1.0										
1,2,4-Trimethylbenzene	ND	1.0										
1,3,5-Trimethylbenzene	ND	1.0										
Xylenes, Total	ND	1.5										
Surr: 4-Bromofluorobenzene	11		10.00		110	70	130					
Surr: Toluene-d8	9.4		10.00		94.3	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 7 of 9

Hall Environmental Analysis Laboratory, Inc.

WO#: **1805506**

22-May-18

Client: Souder, Miller & Associates

Project: Candelario EMR W

Sample ID 2.5ug gro lcs SampType: LCS TestCode: EPA Method 8015D: Gasoline Range Client ID: LCSW Batch ID: **A51228** RunNo: 51228 Analysis Date: 5/11/2018 Prep Date: SeqNo: 1665264 Units: mg/L Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual

 Gasoline Range Organics (GRO)
 0.46
 0.050
 0.5000
 0
 92.6
 70
 130

 Surr: BFB
 9.3
 10.00
 92.9
 70
 130

Sample ID rb SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBW Batch ID: A51228 RunNo: 51228

Prep Date: Analysis Date: 5/11/2018 SeqNo: 1665266 Units: mg/L

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

Gasoline Range Organics (GRO) ND 0.050

Surr: BFB 10 10.00 101 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 8 of 9

Hall Environmental Analysis Laboratory, Inc.

WO#: **1805506**

22-May-18

Client: Souder, Miller & Associates

Project: Candelario EMR W

Sample ID MB-38053 SampType: MBLK TestCode: SM2540C MOD: Total Dissolved Solids

Client ID: PBW Batch ID: 38053 RunNo: 51208

Prep Date: 5/10/2018 Analysis Date: 5/11/2018 SeqNo: 1664365 Units: mg/L

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

Total Dissolved Solids ND 20.0

Sample ID LCS-38053 SampType: LCS TestCode: SM2540C MOD: Total Dissolved Solids

Client ID: LCSW Batch ID: 38053 RunNo: 51208

Prep Date: 5/10/2018 Analysis Date: 5/11/2018 SeqNo: 1664366 Units: mg/L

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

Total Dissolved Solids 995 20.0 1000 0 99.5 80 120

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Page 9 of 9



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

Sample Log-In Check List

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Client Name: SMA-CARLSBAD	Work Order Number	1805506		RcptNo: 1	
Received By: Isaiah Ortiz	5/9/2018 9:30:00 AM		IO		
Completed By: Ashley Gallegos	5/9/2018 12:34:27 PM	I	A		
Reviewed By: MW 5/9/18			· (11 -	•
, , , , , , , , , , , , , , , , , , ,		Labe	red b	1	
Chain of Custody					
1. Is Chain of Custody complete?		Yes 🗹	No 🗌	Not Present ☐	
2. How was the sample delivered?		Courier			
<u>Log In</u>			_	_	
3. Was an attempt made to cool the samples?		Yes 🗹	No 🗔	NA 🗆	
4		** **;	[
4. Were all samples received at a temperature	of >0° C to 6.0°C	Yes 🗹	No L	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	y preserved?	Yes 🔽	No 🗆		
8. Was preservative added to bottles?		Yes 🗌	No 🗹	NA 🗆	e. Se
9. VOA vials have zero headspace?	•	Yes 🗹	No □ N	lo VOA Vials	
10. Were any sample containers received broker	1?	Yes	No 🗹	· · · · · · · · · · · · · · · · · · ·	
				of preserved ottles checked	10/10
11. Does paperwork match bottle labels?		Yes 🗹	No 🗌 📗 fo	or pH:	unless noted)
(Note discrepancies on chain of custody) 2. Are matrices correctly identified on Chain of (Cuetody?	Yes 🗸	No 🗆	Adjusted?	uniess noteu)
[3] Is it clear what analyses were requested?	Sustouy:	Yes 🗹	No 🗆		
14. Were all holding times able to be met?		Yes 🗹	No 🗆	Checked by:	
(If no, notify customer for authorization.)		4		_	
Special Handling (if applicable)					
15. Was client notified of all discrepancies with t	his order?	Yes 🗌	No 🗆	NA 🗹	
Person Notified:	Date				
By Whom:	Via:	eMail 🔲 F	hone Fax	In Person	
Regarding:				-	
Client Instructions:					
16. Additional remarks:					
17. Cooler Information					
			and the second s		

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	Cooler N	Town DC	Candition	Seal Intact Seal No Seal Date	A
	COOLETING	i leimb C	Condition	Sear intact Sear No Sear Date	Signed By
	1	2.6	Good	Yes	

Chain-of-Custody Record	Turn-Around Time:							3	} 2	-	
Client: (MM) - Ca. 15bad.	Z Standard □XRush	n 5 day		ANAL	AL A	SIS			HALL ENVIKONMENIAL ANALYSIS LABORATORY	אֱ ץ	
	<u></u>		:		w.haller	www.hallenvironmental.com	ntal.co				
Mailing Address:	Candelario	EMP-W	4901	4901 Hawkins NE	ı	Albuquerque, NM 87109	ue, NN	 A 871(60		
	Project #:		Tel.	Tel. 505-345-3975	10	Fax 50	505-345-4107	4107			
Phone #:					Ana	Analysis Request	quest				
email or Fax#:	Project Manager:		(ʎju	(0)					57		
QA/QC Package: □ Standard □ Level 4 (Full Validation)	Aush W	Seyont	o seĐ)		(SMIS		6.00.1	· (*	7/(
ر D Other) N©	HqT +	(1.81	S 0728	°ZON'EC	7000 //) 245) 245	(1/ 1/	(NI IC
□ EDD (Type)		3.6 The second second	38	⊅ po	10 C	ONŰ			291)
Date Time Matrix Sample Request ID	Container Preservative Type and # Type	HEAL NO.	BTEX + MT BTEX + MT B315B	TPH (Metho	PAH's (831) RCRA 8 Me)∃) snoinA	8081 Pestic	imə2) 0728	uc has	20lddug viA	eəlddu B ir
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Date: Time: Reinquished by: Date: Time: Reinquished by:	Received W. (Courie	5/8/8 SM Date Time	Kemarks: each bic	San J	Ple is	. <	indi	è	indir. Sanduit	4.7	
If necessary, samples submitted to Hall Environmental may be subcontracted to other accredi	ted lat	This serves as r	possibility. Any	sub-contracte	ed data will	oe clearly n	stated on	the anal	ytical report.		Ī



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

May 21, 2018

Austin Weyant Souder, Miller & Associates 201 S Halagueno Carlsbad, NM 88221

TEL: (575) 689-7040

FAX

RE: Candelario EMR OrderNo.: 1805508

Dear Austin Weyant:

Hall Environmental Analysis Laboratory received 7 sample(s) on 5/9/2018 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

Indest

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order **1805508**

Date Reported: 5/21/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: L8-0.5'

 Project:
 Candelario EMR
 Collection Date: 5/3/2018 10:00:00 AM

 Lab ID:
 1805508-001
 Matrix: SOIL
 Received Date: 5/9/2018 9:30:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	MRA
Chloride	160	30	mg/Kg	20	5/15/2018 9:31:12 PM	38134
EPA METHOD 8015D MOD: GASOLI	NE RANGE				Analyst	AG
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/10/2018 5:38:39 PM	38028
Surr: BFB	119	70-130	%Rec	1	5/10/2018 5:38:39 PM	38028
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANICS	;			Analyst	TOM
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	5/13/2018 3:40:58 AM	38069
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	5/13/2018 3:40:58 AM	38069
Surr: DNOP	86.6	70-130	%Rec	1	5/13/2018 3:40:58 AM	38069
EPA METHOD 8260B: VOLATILES S	SHORT LIST				Analyst	AG
Methyl tert-butyl ether (MTBE)	ND	0.049	mg/Kg	1	5/10/2018 5:38:39 PM	38028
Benzene	ND	0.024	mg/Kg	1	5/10/2018 5:38:39 PM	38028
Toluene	ND	0.049	mg/Kg	1	5/10/2018 5:38:39 PM	38028
Ethylbenzene	ND	0.049	mg/Kg	1	5/10/2018 5:38:39 PM	38028
Xylenes, Total	ND	0.097	mg/Kg	1	5/10/2018 5:38:39 PM	38028
Surr: 4-Bromofluorobenzene	130	70-130	%Rec	1	5/10/2018 5:38:39 PM	38028
Surr: Toluene-d8	95.1	70-130	%Rec	1	5/10/2018 5:38:39 PM	38028

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 1 of 11
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Lab Order **1805508**Date Reported: **5/21/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: L1-0.5'

 Project:
 Candelario EMR
 Collection Date: 5/3/2018 11:00:00 AM

 Lab ID:
 1805508-002
 Matrix: SOIL
 Received Date: 5/9/2018 9:30:00 AM

Analyses	Result	PQL (Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	MRA
Chloride	850	30		mg/Kg	20	5/15/2018 9:43:37 PM	38134
EPA METHOD 8015D MOD: GASOL	INE RANGE					Analyst	: AG
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	5/10/2018 6:01:54 PM	38028
Surr: BFB	128	70-130		%Rec	1	5/10/2018 6:01:54 PM	38028
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANICS	;				Analyst	: TOM
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	5/13/2018 4:03:25 AM	38069
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	5/13/2018 4:03:25 AM	38069
Surr: DNOP	90.9	70-130		%Rec	1	5/13/2018 4:03:25 AM	38069
EPA METHOD 8260B: VOLATILES	SHORT LIST					Analyst	: AG
Methyl tert-butyl ether (MTBE)	ND	0.048		mg/Kg	1	5/10/2018 6:01:54 PM	38028
Benzene	ND	0.024		mg/Kg	1	5/10/2018 6:01:54 PM	38028
Toluene	ND	0.048		mg/Kg	1	5/10/2018 6:01:54 PM	38028
Ethylbenzene	ND	0.048		mg/Kg	1	5/10/2018 6:01:54 PM	38028
Xylenes, Total	ND	0.097		mg/Kg	1	5/10/2018 6:01:54 PM	38028
Surr: 4-Bromofluorobenzene	139	70-130	S	%Rec	1	5/10/2018 6:01:54 PM	38028
Surr: Toluene-d8	94.1	70-130		%Rec	1	5/10/2018 6:01:54 PM	38028

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 2 of 11
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Lab Order **1805508**Date Reported: **5/21/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: L7-0.5'

 Project:
 Candelario EMR
 Collection Date: 5/3/2018 9:50:00 AM

 Lab ID:
 1805508-003
 Matrix: SOIL
 Received Date: 5/9/2018 9:30:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	smb
Chloride	4200	150	mg/Kg	100	5/16/2018 11:27:43 AM	38134
EPA METHOD 8015D MOD: GASOL	INE RANGE				Analyst	: AG
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	5/10/2018 6:25:05 PM	38028
Surr: BFB	117	70-130	%Rec	1	5/10/2018 6:25:05 PM	38028
EPA METHOD 8015M/D: DIESEL RA	ANGE ORGANICS	}			Analyst	: TOM
Diesel Range Organics (DRO)	15	9.6	mg/Kg	1	5/13/2018 4:25:35 AM	38069
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	5/13/2018 4:25:35 AM	38069
Surr: DNOP	101	70-130	%Rec	1	5/13/2018 4:25:35 AM	38069
EPA METHOD 8260B: VOLATILES	SHORT LIST				Analyst	: AG
Methyl tert-butyl ether (MTBE)	ND	0.047	mg/Kg	1	5/10/2018 6:25:05 PM	38028
Benzene	ND	0.024	mg/Kg	1	5/10/2018 6:25:05 PM	38028
Toluene	ND	0.047	mg/Kg	1	5/10/2018 6:25:05 PM	38028
Ethylbenzene	ND	0.047	mg/Kg	1	5/10/2018 6:25:05 PM	38028
Xylenes, Total	ND	0.095	mg/Kg	1	5/10/2018 6:25:05 PM	38028
Surr: 4-Bromofluorobenzene	128	70-130	%Rec	1	5/10/2018 6:25:05 PM	38028
Surr: Toluene-d8	94.4	70-130	%Rec	1	5/10/2018 6:25:05 PM	38028

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 3 of 11
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Lab Order **1805508**Date Reported: **5/21/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: L4-1

 Project:
 Candelario EMR
 Collection Date: 5/3/2018 11:20:00 AM

 Lab ID:
 1805508-004
 Matrix: SOIL
 Received Date: 5/9/2018 9:30:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	smb
Chloride	19000	750	mg/Kg	500	5/16/2018 11:40:07 AM	38135
EPA METHOD 8015D MOD: GASOLI	NE RANGE				Analyst	: AG
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	5/10/2018 6:48:17 PM	38028
Surr: BFB	114	70-130	%Rec	1	5/10/2018 6:48:17 PM	38028
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANICS	3			Analyst	TOM
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	5/13/2018 4:47:58 AM	38069
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	5/13/2018 4:47:58 AM	38069
Surr: DNOP	92.8	70-130	%Rec	1	5/13/2018 4:47:58 AM	38069
EPA METHOD 8260B: VOLATILES S	HORT LIST				Analyst	: AG
Methyl tert-butyl ether (MTBE)	ND	0.050	mg/Kg	1	5/10/2018 6:48:17 PM	38028
Benzene	ND	0.025	mg/Kg	1	5/10/2018 6:48:17 PM	38028
Toluene	ND	0.050	mg/Kg	1	5/10/2018 6:48:17 PM	38028
Ethylbenzene	ND	0.050	mg/Kg	1	5/10/2018 6:48:17 PM	38028
Xylenes, Total	ND	0.099	mg/Kg	1	5/10/2018 6:48:17 PM	38028
Surr: 4-Bromofluorobenzene	124	70-130	%Rec	1	5/10/2018 6:48:17 PM	38028
Surr: Toluene-d8	91.6	70-130	%Rec	1	5/10/2018 6:48:17 PM	38028

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

Qualifiers: Value exceeds Maximum Contaminant Level. Analyte detected in the associated Method Blank D Sample Diluted Due to Matrix Е Value above quantitation range Analyte detected below quantitation limits Page 4 of 11 Н Holding times for preparation or analysis exceeded J ND Not Detected at the Reporting Limit P Sample pH Not In Range PQL Practical Quanitative Limit RL Reporting Detection Limit % Recovery outside of range due to dilution or matrix Sample container temperature is out of limit as specified

Lab Order **1805508**Date Reported: **5/21/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: L2-1.5'

Project: Candelario EMR
 Collection Date: 5/3/2018 10:37:00 AM

 Lab ID: 1805508-005
 Matrix: SOIL
 Received Date: 5/9/2018 9:30:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	320	30	mg/Kg	20	5/15/2018 11:10:30 PM	38135
EPA METHOD 8015D MOD: GASOL	INE RANGE				Analyst	: AG
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	5/10/2018 7:11:21 PM	38028
Surr: BFB	114	70-130	%Rec	1	5/10/2018 7:11:21 PM	38028
EPA METHOD 8015M/D: DIESEL RA	ANGE ORGANICS	}			Analyst	: TOM
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	5/13/2018 5:10:17 AM	38069
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	5/13/2018 5:10:17 AM	38069
Surr: DNOP	96.9	70-130	%Rec	1	5/13/2018 5:10:17 AM	38069
EPA METHOD 8260B: VOLATILES	SHORT LIST				Analyst	: AG
Methyl tert-butyl ether (MTBE)	ND	0.048	mg/Kg	1	5/10/2018 7:11:21 PM	38028
Benzene	ND	0.024	mg/Kg	1	5/10/2018 7:11:21 PM	38028
Toluene	ND	0.048	mg/Kg	1	5/10/2018 7:11:21 PM	38028
Ethylbenzene	ND	0.048	mg/Kg	1	5/10/2018 7:11:21 PM	38028
Xylenes, Total	ND	0.096	mg/Kg	1	5/10/2018 7:11:21 PM	38028
Surr: 4-Bromofluorobenzene	124	70-130	%Rec	1	5/10/2018 7:11:21 PM	38028
Surr: Toluene-d8	94.7	70-130	%Rec	1	5/10/2018 7:11:21 PM	38028

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 5 of 11
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Lab Order 1805508

Date Reported: 5/21/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: L9-West-0.5'

 Project:
 Candelario EMR
 Collection Date: 5/3/2018 10:30:00 AM

 Lab ID:
 1805508-006
 Matrix: SOIL
 Received Date: 5/9/2018 9:30:00 AM

Analyses	Result	PQL Qu	al Units	DF I	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: smb
Chloride	8000	750	mg/Kg	500	5/16/2018 11:52:31 AM	38135
EPA METHOD 8015D MOD: GASOLI	NE RANGE				Analyst	: AG
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	5/10/2018 7:34:28 PM	38028
Surr: BFB	116	70-130	%Rec	1	5/10/2018 7:34:28 PM	38028
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANICS	3			Analyst	: TOM
Diesel Range Organics (DRO)	ND	9.0	mg/Kg	1	5/13/2018 5:32:34 AM	38069
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	5/13/2018 5:32:34 AM	38069
Surr: DNOP	96.6	70-130	%Rec	1	5/13/2018 5:32:34 AM	38069
EPA METHOD 8260B: VOLATILES S	HORT LIST				Analyst	: AG
Methyl tert-butyl ether (MTBE)	ND	0.050	mg/Kg	1	5/10/2018 7:34:28 PM	38028
Benzene	ND	0.025	mg/Kg	1	5/10/2018 7:34:28 PM	38028
Toluene	ND	0.050	mg/Kg	1	5/10/2018 7:34:28 PM	38028
Ethylbenzene	ND	0.050	mg/Kg	1	5/10/2018 7:34:28 PM	38028
Xylenes, Total	ND	0.10	mg/Kg	1	5/10/2018 7:34:28 PM	38028
Surr: 4-Bromofluorobenzene	126	70-130	%Rec	1	5/10/2018 7:34:28 PM	38028
Surr: Toluene-d8	93.2	70-130	%Rec	1	5/10/2018 7:34:28 PM	38028

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

Qualifiers: Value exceeds Maximum Contaminant Level. Analyte detected in the associated Method Blank D Sample Diluted Due to Matrix Е Value above quantitation range Analyte detected below quantitation limits Page 6 of 11 Н Holding times for preparation or analysis exceeded J ND Not Detected at the Reporting Limit P Sample pH Not In Range PQL Practical Quanitative Limit RL Reporting Detection Limit % Recovery outside of range due to dilution or matrix Sample container temperature is out of limit as specified

Lab Order **1805508**Date Reported: **5/21/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: L6-1'

 Project:
 Candelario EMR
 Collection Date: 5/3/2018 9:45:00 AM

 Lab ID:
 1805508-007
 Matrix: SOIL
 Received Date: 5/9/2018 9:30:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: smb
Chloride	1600	75	mg/Kg	50	5/16/2018 12:04:55 PM	38135
EPA METHOD 8015D MOD: GASOL	INE RANGE				Analyst	: AG
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/10/2018 7:57:34 PM	38028
Surr: BFB	114	70-130	%Rec	1	5/10/2018 7:57:34 PM	38028
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANICS	3			Analyst	: TOM
Diesel Range Organics (DRO)	ND	9.1	mg/Kg	1	5/13/2018 5:54:45 AM	38069
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	5/13/2018 5:54:45 AM	38069
Surr: DNOP	97.5	70-130	%Rec	1	5/13/2018 5:54:45 AM	38069
EPA METHOD 8260B: VOLATILES	SHORT LIST				Analyst	: AG
Methyl tert-butyl ether (MTBE)	ND	0.049	mg/Kg	1	5/10/2018 7:57:34 PM	38028
Benzene	ND	0.024	mg/Kg	1	5/10/2018 7:57:34 PM	38028
Toluene	ND	0.049	mg/Kg	1	5/10/2018 7:57:34 PM	38028
Ethylbenzene	ND	0.049	mg/Kg	1	5/10/2018 7:57:34 PM	38028
Xylenes, Total	ND	0.097	mg/Kg	1	5/10/2018 7:57:34 PM	38028
Surr: 4-Bromofluorobenzene	124	70-130	%Rec	1	5/10/2018 7:57:34 PM	38028
Surr: Toluene-d8	86.4	70-130	%Rec	1	5/10/2018 7:57:34 PM	38028

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

Qualifiers: Value exceeds Maximum Contaminant Level. Analyte detected in the associated Method Blank D Sample Diluted Due to Matrix Е Value above quantitation range Analyte detected below quantitation limits Page 7 of 11 Н Holding times for preparation or analysis exceeded J ND Not Detected at the Reporting Limit P Sample pH Not In Range PQL Practical Quanitative Limit RL Reporting Detection Limit

Sample container temperature is out of limit as specified

% Recovery outside of range due to dilution or matrix

Hall Environmental Analysis Laboratory, Inc.

WO#: **1805508**

21-May-18

Client: Souder, Miller & Associates

Project: Candelario EMR

Sample ID MB-38134 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 38134 RunNo: 51301

Prep Date: 5/15/2018 Analysis Date: 5/15/2018 SeqNo: 1667748 Units: mg/Kg

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

Chloride ND 1.5

Sample ID LCS-38134 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 38134 RunNo: 51301

Prep Date: 5/15/2018 Analysis Date: 5/15/2018 SeqNo: 1667749 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 94.4 90 110

Sample ID MB-38135 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 38135 RunNo: 51301

Prep Date: 5/15/2018 Analysis Date: 5/15/2018 SeqNo: 1667780 Units: mg/Kg

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

Chloride ND 1.5

Sample ID LCS-38135 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 38135 RunNo: 51301

Prep Date: 5/15/2018 Analysis Date: 5/15/2018 SeqNo: 1667781 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 95.1 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 8 of 11

Hall Environmental Analysis Laboratory, Inc.

5.2

WO#: 1805508

21-May-18

Client: Souder, Miller & Associates

Project: Candelario EMR

Sample ID MB-38069 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: **PBS** Batch ID: 38069 RunNo: 51227 Analysis Date: 5/13/2018 Prep Date: 5/11/2018 SeqNo: 1665208 Units: mg/Kg Analyte **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) ND 10 Motor Oil Range Organics (MRO) ND 50 Surr: DNOP 7.5 10.00 75.2 70 130

Sample ID LCS-38069 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: LCSS Batch ID: 38069 RunNo: 51235 Analysis Date: 5/15/2018 Prep Date: 5/11/2018 SeqNo: 1666995 Units: mg/Kg Analyte SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 45 10 89.4 70 50.00 130

104

70

130

5.000

Qualifiers:

Surr: DNOP

- * 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 9 of 11

Hall Environmental Analysis Laboratory, Inc.

WO#: **1805508**

21-May-18

Client: Souder, Miller & Associates

Project: Candelario EMR

Sample ID Ics-38028	SampType: LCS4 TestCode: EPA Method 8				8260B: Vola	tiles Short	List			
Client ID: BatchQC	Batch ID: 38028 RunNo: 51185									
Prep Date: 5/9/2018	Analysis D	lysis Date: 5/10/2018 SeqNo: 1663139			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.81	0.025	1.000	0	81.3	80	120			
Toluene	0.92	0.050	1.000	0	92.3	80	120			
Ethylbenzene	0.98	0.050	1.000	0	98.3	80	120			
Xylenes, Total	3.0	0.10	3.000	0	98.4	80	120			
Surr: 4-Bromofluorobenzene	0.53		0.5000		105	70	130			
Surr: Toluene-d8	0.47		0.5000		93.9	70	130			

Sample ID mb-38028	1 71				TestCode: EPA Method 8260B: Volatiles Short List					
Client ID: PBS					RunNo: 51185					
Prep Date: 5/9/2018	Analysis D	Date: 5/	10/2018	5	SeqNo: 1	663140	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	ND	0.050								
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.64		0.5000		128	70	130			
Surr: Toluene-d8	0.45		0.5000		90.0	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 10 of 11

Hall Environmental Analysis Laboratory, Inc.

WO#: **1805508**

21-May-18

Client: Souder, Miller & Associates

Project: Candelario EMR

Sample ID Ics-38028 SampType: LCS TestCode: EPA Method 8015D Mod: Gasoline Range

Client ID: LCSS Batch ID: 38028 RunNo: 51185

Prep Date: 5/9/2018 Analysis Date: 5/10/2018 SeqNo: 1663109 Units: mg/Kg

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 20 5.0 25.00 0 81.7 70 130

Surr: BFB 510 500.0 103 70 130

Sample ID mb-38028 SampType: MBLK TestCode: EPA Method 8015D Mod: Gasoline Range

Client ID: PBS Batch ID: 38028 RunNo: 51185

Prep Date: 5/9/2018 Analysis Date: 5/10/2018 SeqNo: 1663110 Units: mg/Kg

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

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 590 500.0 118 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

itation range

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name:	SMA-CARLSBAD	Work Order Num	nber: 1805508		RcptNo: 1			
Received By:	Isaiah Ortiz	5/9/2018 9:30:00 A	M	IO				
Completed By:	Ashley Gallegos	5/9/2018 12:41:03	PM	A		0 /		
Reviewed By:	A) 05/0	9/18	Labele	d by	· JB	05/0a/18		
Chain of Cus	tody (
1. Is Chain of Co	ustody complete?		Yes 🗹	No 🗌	Not Present			
2. How was the	sample delivered?		Client					
Log In 3. Was an attem	npt made to cool the samp	les?	Yes 🗹	No 🗆	na 🗆			
4. Were all samp	oles received at a tempera	ture of >0° C to 6.0°C	Yes 🗹	No 🗆	na 🗆			
5. Sample(s) in p	proper container(s)?		Yes 🗹	No 🗆		•		
6. Sufficient sam	ple volume for indicated to	est(s)?	Yes 🗹	No 🗆				
7. Are samples (except VOA and ONG) pro	pperly preserved?	Yes 🗹	No 🗆				
8. Was preservat	tive added to bottles?		Yes 🗌	No 🗹	NA 🗆	/		
9. VOA vials have	e zero headspace?	11 11	Yes	No □ I	No VOA Vials 🗹	X		
10. Were any sam	nple containers received b	roken?	Yes	No 🗹	· · · · · · · · · · · · · · · · · · ·			
	rk match bottle labels?		Yes 🗹		# of preserved bottles checked for pH:	09/00		
	ncies on chain of custody				(<2 or >1 Adjusted?	2 unless noted)		
	orrectly identified on Chair analyses were requested		Yes ☑ Yes ☑	No ☐ No ☐	A LOGICIO) -		
	ng times able to be met?	•	Yes ✓	No 🗆	Checked by:			
	stomer for authorization.)							
Special Handli	ng (if applicable)							
15. Was client not	tified of all discrepancies v	vith this order?	Yes 🗌	No 🗆	NA 🗹			
Person I	Notified:	Date			:			
By Who	m:	Via:	eMail P	hone Fax	In Person			
Regardir	ng:				:			
Client In	structions:							
16. Additional ren	narks:							
17. <u>Cooler Inform</u> Cooler No	nation Temp °C Condition 1.8 Good	Seal Intact Seal No Yes	Seal Date	Signed By				

Chain-of-Custody Record	Turn-Around Time:	
Client: CMP - Car Whed	Standard Rush Schaul	HALL ENVIRONMENTAL
		www.hallenvironmental.com
Mailing Address:	landerand And	4901 Hawkins NE - Albumerine NM 87109
	Project #:	10
Phone #:		Analysis
email or Fax#:	Project Manager:	(V)
QA/QC Package:	A. 4. 8. 8.	AM (s
☐ Standard ☐ Level 4 (Full Validation)	Tusin except	(Gas
Accreditation	Sampler: $\lambda ULS/UM$	H9T (1) 4.1) 5270 S (1.4) 5200 S
□ EDD (Type)	perature: /, \$	(GR ++150) 141/3/00/3/10
F	ative	+ MTE Agrae Aethoo Aethoo Bano Bano Aethoo Bano Aethoo Aet
Date Matrix Sample Request ID	# 1	BTEX - BTEX - BTEX - BTEX - BOB (N BOB1 P Anions 3081 P S260B S270 (9
of 1001 63 425	Jaco 5 -00	33
93/18/00 ROLK 68-0.51		× ×
11:00 11-0.5	600	
9:50 17-0.51	<i>ħ00-</i>	×
11.20 14-13	1 -005	× ×
12-1.51	000	<u>х</u>
10.30 CAWEST -0.51	LOQ .	ト ト メ
20.45 b (6-11	800	× ×
te: Time: R	Receive Pby Time	Remarks:
5/8/18 5 10 11/2	2	Post att.
* * * * * * * * * * * * * * * * * * *	<u></u> ₹	noch Samples in Indiv. Sondanich
	ontracted to other accredited laboratories. This serves as notice of this	submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.



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

May 23, 2018

Austin Weyant Souder, Miller & Associates 201 S Halagueno Carlsbad, NM 88221

TEL: (575) 689-7040

FAX

RE: Candelario EMR OrderNo.: 1805661

Dear Austin Weyant:

Hall Environmental Analysis Laboratory received 10 sample(s) on 5/11/2018 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

Indest

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order 1805661

Date Reported: 5/23/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: S1-0.5'

 Project:
 Candelario EMR
 Collection Date: 5/7/2018 1:30:00 PM

 Lab ID:
 1805661-001
 Matrix: SOIL
 Received Date: 5/11/2018 9:50:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: MRA
Chloride	19000	1500	mg/Kg	1E	5/18/2018 2:45:58 PM	38174
EPA METHOD 8015M/D: DIESEL RAI	NGE ORGANICS	3			Analyst	: Irm
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	5/17/2018 9:41:11 PM	38103
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	5/17/2018 9:41:11 PM	38103
Surr: DNOP	108	70-130	%Rec	1	5/17/2018 9:41:11 PM	38103
EPA METHOD 8015D: GASOLINE RA	ANGE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	5/14/2018 7:20:13 PM	38079
Surr: BFB	81.9	15-316	%Rec	1	5/14/2018 7:20:13 PM	38079
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Methyl tert-butyl ether (MTBE)	ND	0.094	mg/Kg	1	5/14/2018 7:20:13 PM	38079
Benzene	ND	0.024	mg/Kg	1	5/14/2018 7:20:13 PM	38079
Toluene	ND	0.047	mg/Kg	1	5/14/2018 7:20:13 PM	38079
Ethylbenzene	ND	0.047	mg/Kg	1	5/14/2018 7:20:13 PM	38079
Xylenes, Total	ND	0.094	mg/Kg	1	5/14/2018 7:20:13 PM	38079
Surr: 4-Bromofluorobenzene	99.9	80-120	%Rec	1	5/14/2018 7:20:13 PM	38079

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

Lab Order **1805661**

Date Reported: 5/23/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: S1-1'

 Project:
 Candelario EMR
 Collection Date: 5/7/2018 1:38:00 PM

 Lab ID:
 1805661-002
 Matrix: SOIL
 Received Date: 5/11/2018 9:50:00 AM

Analyses	Result	PQL Qua	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analy	/st: MRA
Chloride	24000	1500	mg/Kg	1E 5/18/2018 2:58:22 PI	M 38174

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 2 of 15
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Lab Order **1805661**

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 5/23/2018

CLIENT: Souder, Miller & Associates Client Sample ID: S1-2'

 Project:
 Candelario EMR
 Collection Date: 5/7/2018 1:40:00 PM

 Lab ID:
 1805661-003
 Matrix: SOIL
 Received Date: 5/11/2018 9:50:00 AM

Analyses	Result	PQL Qua	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Anal	yst: MRA
Chloride	7600	300	mg/Kg	200 5/18/2018 1:56:21 P	M 38197

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 3 of 15
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Lab Order **1805661**Date Reported: **5/23/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: S2-0.5'

 Project:
 Candelario EMR
 Collection Date: 5/7/2018 1:42:00 PM

 Lab ID:
 1805661-004
 Matrix: SOIL
 Received Date: 5/11/2018 9:50:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	3800	150	mg/Kg	100	5/18/2018 3:10:47 PM	38174
EPA METHOD 8015M/D: DIESEL RAI	NGE ORGANICS	;			Analyst	: Irm
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	5/17/2018 10:03:25 PM	38103
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	5/17/2018 10:03:25 PM	38103
Surr: DNOP	99.6	70-130	%Rec	1	5/17/2018 10:03:25 PM	38103
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	5/14/2018 7:43:32 PM	38079
Surr: BFB	85.1	15-316	%Rec	1	5/14/2018 7:43:32 PM	38079
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Methyl tert-butyl ether (MTBE)	ND	0.099	mg/Kg	1	5/14/2018 7:43:32 PM	38079
Benzene	ND	0.025	mg/Kg	1	5/14/2018 7:43:32 PM	38079
Toluene	ND	0.050	mg/Kg	1	5/14/2018 7:43:32 PM	38079
Ethylbenzene	ND	0.050	mg/Kg	1	5/14/2018 7:43:32 PM	38079
Xylenes, Total	ND	0.099	mg/Kg	1	5/14/2018 7:43:32 PM	38079
Surr: 4-Bromofluorobenzene	102	80-120	%Rec	1	5/14/2018 7:43:32 PM	38079

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 4 of 15
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Lab Order **1805661**

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 5/23/2018

CLIENT: Souder, Miller & Associates Client Sample ID: S2-1'

 Project:
 Candelario EMR
 Collection Date: 5/7/2018 1:46:00 PM

 Lab ID:
 1805661-005
 Matrix: SOIL
 Received Date: 5/11/2018 9:50:00 AM

Analyses	Result	PQL Qua	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analy	st: MRA
Chloride	230	30	mg/Kg	20	5/17/2018 5:35:11 PM	1 38174

Method Blank
on limits Page 5 of 15
1 age 3 of 13
ut of limit as specified

Lab Order **1805661**

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 5/23/2018

CLIENT: Souder, Miller & Associates Client Sample ID: S2-2'

 Project:
 Candelario EMR
 Collection Date: 5/7/2018 1:48:00 PM

 Lab ID:
 1805661-006
 Matrix: SOIL
 Received Date: 5/11/2018 9:50:00 AM

Analyses	Result	PQL Qua	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Anal	yst: MRA
Chloride	1100	30	mg/Kg	20 5/17/2018 5:47:36 P	M 38174

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

Lab Order **1805661**

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 5/23/2018

CLIENT: Souder, Miller & Associates Client Sample ID: S3-0.5'

 Project:
 Candelario EMR
 Collection Date: 5/7/2018 1:50:00 PM

 Lab ID:
 1805661-007
 Matrix: SOIL
 Received Date: 5/11/2018 9:50:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	9900	750	mg/Kg	500	5/18/2018 2:33:34 PM	38197
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS	;			Analyst	: Irm
Diesel Range Organics (DRO)	22	9.9	mg/Kg	1	5/17/2018 10:25:35 PM	38103
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	5/17/2018 10:25:35 PM	38103
Surr: DNOP	102	70-130	%Rec	1	5/17/2018 10:25:35 PM	38103
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/14/2018 8:07:02 PM	38079
Surr: BFB	82.6	15-316	%Rec	1	5/14/2018 8:07:02 PM	38079
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Methyl tert-butyl ether (MTBE)	ND	0.098	mg/Kg	1	5/14/2018 8:07:02 PM	38079
Benzene	ND	0.025	mg/Kg	1	5/14/2018 8:07:02 PM	38079
Toluene	ND	0.049	mg/Kg	1	5/14/2018 8:07:02 PM	38079
Ethylbenzene	ND	0.049	mg/Kg	1	5/14/2018 8:07:02 PM	38079
Xylenes, Total	ND	0.098	mg/Kg	1	5/14/2018 8:07:02 PM	38079
Surr: 4-Bromofluorobenzene	99.6	80-120	%Rec	1	5/14/2018 8:07:02 PM	38079

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 7 of 15
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Lab Order **1805661**

Date Reported: 5/23/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: S3-1'

 Project:
 Candelario EMR
 Collection Date: 5/7/2018 1:53:00 PM

 Lab ID:
 1805661-008
 Matrix: SOIL
 Received Date: 5/11/2018 9:50:00 AM

Analyses	Result	PQL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Anal	yst: MRA
Chloride	260	30	mg/Kg	20 5/18/2018 12:54:19	PM 38197

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

Lab Order 1805661

Date Reported: 5/23/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: S3-2'

 Project:
 Candelario EMR
 Collection Date: 5/7/2018 2:00:00 PM

 Lab ID:
 1805661-009
 Matrix: SOIL
 Received Date: 5/11/2018 9:50:00 AM

Analyses	Result	PQL Qua	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analy	st: MRA
Chloride	35	30	mg/Kg	20	5/18/2018 1:06:43 PM	1 38197

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

Lab Order 1805661

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 5/23/2018

CLIENT: Souder, Miller & Associates Client Sample ID: BG6

 Project:
 Candelario EMR
 Collection Date: 5/7/2018 2:15:00 PM

 Lab ID:
 1805661-010
 Matrix: SOIL
 Received Date: 5/11/2018 9:50:00 AM

Analyses	Result	PQL Qua	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Anal	lyst: MRA
Chloride	ND	30	mg/Kg	20 5/18/2018 1:19:07 F	PM 38197

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

Qualifiers: Value exceeds Maximum Contaminant Level. Analyte detected in the associated Method Blank D Sample Diluted Due to Matrix Е Value above quantitation range Analyte detected below quantitation limits Page 10 of 15 Н Holding times for preparation or analysis exceeded J ND Not Detected at the Reporting Limit P Sample pH Not In Range PQL Practical Quanitative Limit RL Reporting Detection Limit % Recovery outside of range due to dilution or matrix Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#: 1805661

23-May-18

Client: Souder, Miller & Associates

Project: Candelario EMR

Sample ID MB-38174 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: **PBS** Batch ID: 38174 RunNo: 51341

Prep Date: 5/17/2018 Analysis Date: 5/17/2018 SeqNo: 1671534 Units: mg/Kg

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

Chloride ND 1.5

Sample ID LCS-38174 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 38174 RunNo: 51341

Prep Date: 5/17/2018 Analysis Date: 5/17/2018 SeqNo: 1671535 Units: mg/Kg

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

Chloride 14 1.5 15.00 95.8 110

Sample ID MB-38197 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: **PBS** Batch ID: 38197 RunNo: 51380

Prep Date: Analysis Date: 5/18/2018 SeqNo: 1672244 Units: mg/Kg 5/18/2018

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

Chloride ND 1.5

Sample ID LCS-38197 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 38197 RunNo: 51380

Units: mg/Kg Prep Date: 5/18/2018 Analysis Date: 5/18/2018 SeqNo: 1672245

Analyte Result **PQL** SPK value SPK Ref Val %REC I owl imit HighLimit %RPD **RPDLimit** Qual

91.9 90 Chloride 14 1.5 15.00 0 110

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Η Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

POL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

В Analyte detected in the associated Method Blank

Е Value above quantitation range

J Analyte detected below quantitation limits

Page 11 of 15

P Sample pH Not In Range

RLReporting Detection Limit

Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#: **1805661**

23-May-18

Client: Souder, Miller & Associates

Project: Candelario EMR

Sample ID MB-38103 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: **PBS** Batch ID: 38103 RunNo: 51327 Analysis Date: 5/17/2018 Prep Date: 5/14/2018 SeqNo: 1669940 Units: mg/Kg Analyte **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) ND 10 Motor Oil Range Organics (MRO) ND 50 Surr: DNOP 9.3 10.00 92.8 70 130

Sample ID LCS-38103 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: LCSS Batch ID: 38103 RunNo: 51327 Analysis Date: 5/17/2018 Prep Date: 5/14/2018 SeqNo: 1669941 Units: mg/Kg Analyte SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 50 10 99.4 70 50.00 130 Surr: DNOP 4.6 5.000 92.2 70 130

Qualifiers:

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

e quantitation range

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Hall Environmental Analysis Laboratory, Inc.

WO#: **1805661**

23-May-18

Client: Souder, Miller & Associates

Project: Candelario EMR

Sample ID MB-38079 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 38079 RunNo: 51246

Prep Date: 5/11/2018 Analysis Date: 5/14/2018 SeqNo: 1666086 Units: mg/Kg

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

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 930 1000 93.4 15 316

Sample ID LCS-38079 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 38079 RunNo: 51246

Prep Date: 5/11/2018 Analysis Date: 5/14/2018 SeqNo: 1666087 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Gasoline Range Organics (GRO) 26 5.0 25.00 0 104 75.9 131

 Gasoline Range Organics (GRO)
 26
 5.0
 25.00
 0
 104
 75.9
 131

 Surr: BFB
 1000
 1000
 105
 15
 316

Sample ID 1805661-004AMS SampType: MS TestCode: EPA Method 8015D: Gasoline Range

Client ID: **\$2-0.5'** Batch ID: **38079** RunNo: **51246**

Prep Date: 5/11/2018 Analysis Date: 5/14/2018 SeqNo: 1666093 Units: mg/Kg

%REC SPK value SPK Ref Val %RPD **RPDLimit** Analyte Result **PQL** LowLimit HighLimit Qual Gasoline Range Organics (GRO) 24 4.8 24.13 101 77.8 128 Surr: BFB 1000 965.3 105 15 316

Sample ID 1805661-004AMSD SampType: MSD TestCode: EPA Method 8015D: Gasoline Range

Client ID: S2-0.5' Batch ID: 38079 RunNo: 51246

Prep Date: 5/11/2018 Analysis Date: 5/14/2018 SeqNo: 1666094 Units: mg/Kg

%REC Analyte Result **PQL** SPK value SPK Ref Val LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 23 4.8 24.22 93.6 77.8 128 7.49 20 Surr: BFB 940 969.0 97.4 15 316 0 0

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

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Hall Environmental Analysis Laboratory, Inc.

WO#: **1805661**

23-May-18

Client: Souder, Miller & Associates

Project: Candelario EMR

Sample ID MB-38079 SampType: MBLK TestCode: EPA Method 8021B: Volatiles Client ID: PBS Batch ID: 38079 RunNo: 51246 Analysis Date: 5/14/2018 Prep Date: 5/11/2018 SeqNo: 1666130 Units: mg/Kg Analyte **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Methyl tert-butyl ether (MTBE) ND 0.10 0.025 Benzene ND 0.050 Toluene ND Ethylbenzene ND 0.050 Xylenes, Total ND 0.10 Surr: 4-Bromofluorobenzene 1.1 1.000 106 80 120

Sample ID LCS-38079 SampType: LCS TestCode: EPA Method 8021B: Volatiles Client ID: LCSS Batch ID: 38079 RunNo: 51246 Prep Date: 5/11/2018 Analysis Date: 5/14/2018 SeqNo: 1666140 Units: mg/Kg %REC Result **PQL** SPK value SPK Ref Val LowLimit HighLimit %RPD **RPDLimit** Analyte Qual Methyl tert-butyl ether (MTBE) 0.90 0.10 1.000 90.2 70.1 121 0.94 0.025 1.000 0 94.3 77.3 128 Benzene 0.97 0.050 1.000 0 97.3 79.2 Toluene 125 0.050 0 95.7 80.7 127 Ethylbenzene 0.96 1.000 Xylenes, Total 2.9 0.10 3.000 0 98.3 81.6 129 Surr: 4-Bromofluorobenzene 1.1 1.000 107 80 120

Sample ID 1805661-001AMS	SampT	ype: MS	3	Tes	tCode: E	PA Method	8021B: Volat	tiles		
Client ID: \$1-0.5'	Batch	n ID: 38	079	F	RunNo: 5	1246				
Prep Date: 5/11/2018	Analysis D	ate: 5/	14/2018	8	SeqNo: 1	666143	Units: mg/K	ζg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	0.91	0.095	0.9479	0	96.3	56.9	130			
Benzene	0.94	0.024	0.9479	0.01143	98.1	68.5	133			
Toluene	1.0	0.047	0.9479	0.01454	104	75	130			
Ethylbenzene	0.99	0.047	0.9479	0	104	79.4	128			
Xylenes, Total	3.0	0.095	2.844	0	107	77.3	131			
Surr: 4-Bromofluorobenzene	1.0		0.9479		106	80	120			

Sample ID 1805661-001AMS	D SampT	ype: MS	SD	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: \$1-0.5'	Batch	ID: 38	079	F	RunNo: 5	1246				
Prep Date: 5/11/2018	Analysis D	ate: 5/	14/2018	S	SeqNo: 1	666144	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	0.90	0.098	0.9775	0	92.0	56.9	130	1.50	20	
Benzene	0.93	0.024	0.9775	0.01143	94.4	68.5	133	0.780	20	
Toluene	0.98	0.049	0.9775	0.01454	98.4	75	130	1.98	20	
Ethylbenzene	0.98	0.049	0.9775	0	99.9	79.4	128	1.25	20	

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

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Hall Environmental Analysis Laboratory, Inc.

WO#: **1805661**

23-May-18

Client: Souder, Miller & Associates

Project: Candelario EMR

Sample ID 1805661-001AMSD SampType: MSD TestCode: EPA Method 8021B: Volatiles

Client ID: **\$1-0.5'** Batch ID: **38079** RunNo: **51246**

Prep Date: 5/11/2018 Analysis Date: 5/14/2018 SegNo: 1666144 Units: mg/Kg

Prep Date. 3/11/2016	Allalysis L	Jale. 31	14/2010	3	eqivo. I	000144	Offics. Hig/N	y			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Xylenes, Total	3.0	0.098	2.933	0	102	77.3	131	1.35	20		
Surr: 4-Bromofluorobenzene	1.0		0.9775		105	80	120	0	0		

Qualifiers:

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

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: SMA-CARLSBAD	Work Order Numb	per: 1805661		RcptNo	: 1
Received By: Isaiah Ortiz	5/11/2018 9:50:00 /	AM.	I	-	
Completed By: Ashley Gallegos	5/11/2018 11:59:01	AM	A		
Reviewed By: of 5/4		peled	ph:		
Chain of Custody	•				
1. Is Chain of Custody complete?		Yes 🔽	No 🗌	Not Present	
2. How was the sample delivered?		Courier			
<u>Log In</u>					
Was an attempt made to cool the sar	nples?	Yes 🗸	No 🗔	NA 🗆	
4. Were all samples received at a temper	erature of >0° C to 6.0°C	Yes 🗹	No 🗆	NA □	+ + -
5. Sample(s) in proper container(s)?		Yes 🗹	No 🗌		
6. Sufficient sample volume for indicated	i 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 🗹	$+^{*}I_{I}$ $+$
10. Were any sample containers received	broken?	Yes 🗆	No 🗹	# of preserved	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custo	dy)	Yes 🗹	No 🗆	bottles checked for pH: (<2 or	>12 unless noted)
12. Are matrices correctly identified on Ch	ain of Custody?	Yes 🗹	No 🗀	Adjusted?	
13. Is it clear what analyses were request	ed?	Yes 🗹	No 🗌	*	
14. Were all holding times able to be met' (If no, notify customer for authorization		Yes 🗹	No 🗆	Checked by:	
Special Handling (if applicable)					
15. Was client notified of all discrepancie	s with this order?	Yes 🗌	No 🗀	NA 🗹	
Person Notified:	Date	CONTRACTOR OF THE STATE OF THE			
By Whom:	Via:	eMail	Phone Fax	In Person	
Regarding:					
Client Instructions:					
16. Additional remarks:					ı
17. Cooler Information Cooler No Temp °C Condition 1 0.3 Good	n Seal Intact Seal No Yes	Seal Date	Signed By		

Chain-of-Custody Record	Turn-Around Time:			ľ									
Client: SMA Carlsbad	Standard	Rush 5 day		- `	TAN S	HALL ENVIRONMENTAL	ENVIRONMENTAL	2 <u>3</u>	Žδ			¥ è	. >
					700000	MALISTS LAD) 1	5	<i>,</i>	Ž	-
Mailing Address:	Candelanio EM	io the	49(4901 Hawkins NE	ins NE	3 1	Albuquerque, NM 87109	ue, N		7109			
	Project #:		Ę	Tel. 505-345-3975	45-397		Fax 50	505-345-4107	410	7			
Phone #:						Analy	Analysis Request	dnes	بد				
email or Fax#:	Project Manager:			(0)		_							
4/QC Package:	Michs 4	7				(0)/		0.50				<u> </u>	
Accreditation) My Complex					MIC (1.70					
□ NELAP □ Other	On Ice:	9N				1/70		00.1	(/				(M 1
□ EDD (Type)	Temp	50											o Y)
Date Time Matrix Sample Request ID	Container Preservative Type and # Type	ive HEAL No.	ITM + X3T8 ITM + X3T8	LPH 8015B	onteM) 803	2 KB 8 Wet	Anions (RCI	AOV) 809S8	-imə2) 0728				ir Bubbles (
5/7/18 1:30 soil 51-0.5,	402.	100-		┸		-				Q	 		/
1-18 1 81-11	•	7007	*	*			7	70	9	8		4	├ -
1:40 (Refect) SI - 2.	(BAS)	-03					7	<i>γ</i>		1/2,	Z		
1:42 52-0:5'		400-	×	7			×			حي			
1-52-1:		-065			_		+						
1.48 52-21		2000		8.7			+						
1:50 53-0.51		7007	*	7			×						
1:53 53 - 1	<u> </u>	-00\$					→		-				_
2:00 53 -2		600					. 🗸						
1 2-15 4 BG10.	~ - A						X						
												+	
Date: Time: Relinquished by:	Received by:	Pate Time	Remarks:	-	7],	+] .	_	-	_	_
5/10/18 Open Maryan	. \	5/10/18 OFID	Loca	Col	X	+ 1·							
State: Time: Relinduished bit	Recorded by:	$\leq L_{II}/_{IS}$ qs_O		•									
If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.	contracted to other accredited labora	atories. This serves as notice of this	possibility. A	ny sub-con	racted da	ta will be	learly no	tated on	the ar	nalyticał	report.		



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

June 08, 2018

Austin Weyant Souder, Miller & Associates 201 S Halagueno Carlsbad, NM 88221

TEL: (575) 689-7040

FAX

RE: Candelario RMR OrderNo.: 1805G07

Dear Austin Weyant:

Hall Environmental Analysis Laboratory received 1 sample(s) on 5/31/2018 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

Indest

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order **1805G07**Date Reported: **6/8/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: BG4

 Project:
 Candelario RMR
 Collection Date: 5/3/2018 2:30:00 PM

 Lab ID:
 1805G07-001
 Matrix: SOIL
 Received Date: 5/31/2018 9:50:00 AM

Analyses	Result	PQL (Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analy	st: MRA
Chloride	250	30	Н	mg/Kg	20	6/5/2018 6:33:07 PM	38484

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	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 1 of 2
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#: **1805G07**

08-Jun-18

Client: Souder, Miller & Associates

Project: Candelario RMR

Sample ID MB-38484 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: **PBS** Batch ID: **38484** RunNo: **51782**

Prep Date: 6/5/2018 Analysis Date: 6/5/2018 SeqNo: 1690475 Units: mg/Kg

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

Chloride ND 1.5

Sample ID LCS-38484 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 38484 RunNo: 51782

Prep Date: 6/5/2018 Analysis Date: 6/5/2018 SeqNo: 1690476 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 93.8 90 110

Qualifiers:

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

Page 2 of 2



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name SMA-CARLSBAD Work Order Number: 1805G07 RcptNo: 1 5/31/2018 9:50:00 AM Received By: Jazzmine Burkhead 5/31/2018 11:52:44 AM Completed By Erin Melendrez Reviewed By: LB. Chain of Custody Yes 🗹 No 🗔 Not Present 1. Is Chain of Custody complete? 2. How was the sample delivered? Courier Yes 🛂 NA 🗔 3. Was an attempt made to cool the samples? No NA : 4. Were all samples received at a temperature of >0° C to 6.0°C Yes 🔽 Yes 🔽 5. Sample(s) in proper container(s)? Yes 🔽 6. Sufficient sample volume for indicated test(s)? 7. Are samples (except VOA and ONG) properly preserved? Yes Νo NA 🗌 Yes 🗌 No 8. Was preservative added to bottles? Yes 🗀 Nο No VOA Vials 🗹 9. VOA vials have zero headspace? No 🗸 Yes 10. Were any sample containers received broken? # of preserved bottles checked for pH: 11. Does paperwork match bottle labels? Yes 🗸 No 🗀 unless noted) (Note discrepancies on chain of custody) Adjusted No 12 Are matrices correctly identified on Chain of Custody? No 13. Is it clear what analyses were requested? Yes hecked by Yes 🔽 No [14. Were all holding times able to be met? (If no, notify customer for authorization.) Special Handling (if applicable) NA 🗹 Yes 🗌 15. Was client notified of all discrepancies with this order? No 🗀 Person Notified Date: By Whom: Via: Phone Fax Regarding: Client Instructions: Additional remarks: 17. Cooler Information Temp ℃ I Cooler No Condition Seal Intact | Seal No Seal Date Signed By 5.4 Good!

Chain-of-Custody Record	Turn-Around Time:	
Client SMA - Carlsbad	□ Standard Kush S of & Ly	ANALYSTS I ABODATODY
		1 40
Mailing Address:	Candelano Kink	4901 Hawkins NE - Albuquerque, NM 87109
		10
Phone #:		Analysis
email or Fax#;	Project Manager:	(V)()
QA/QC Package: Standard □ Level 4 (Full Validation)	Austin Wegant	no ssĐ) N / MR (SMI:
Accreditation	Sampler: Aul S	HqT - (1.8 (1.4) (1.4) (200,6) (4.1)
□ EDD (Type)	Temperature: 5, 4	(CR (CR (CR (CR (CR (CR (CR (CR (CR (CR
Date Time Matrix Sample Request ID	Container Preservative HEAL No. Type and #	BTEX + MT BTEX + MT BTPH 8015B TPH (Metho PDB (Metho RCRA 8 Me Mic Bubbles BZ60B (VOA BZ60B (VOA BZ60B (VOA BZ60B (VOA
3/3/18030 AUTI RG4	42.	*
Date: Time: Relinquished by:	Received by Time 5/30/18 898	Remarks:
Time: Relingshed by	Received by: Con Sty Date Time Time O5/3/18 08:50	
If necessary, samples submitted to Hall Environmental may be sub	ntal may be subcontracted (blother accredited laboratones. This serves as notice of this i	possibility. Any sub-contracted data will be clearly notated on the analytical report.



September 29, 2016

#5B26934-BG8

NMOCD District II Mike Bratcher 811 S. First St. Artesia, NM 88210

SUBJECT: UPDATE ON THE EMERGENCY RESPONSE ASSOCIATED WITH THE SCB 5B TO CANDELARIO 4" POLYLINE, EDDY COUNTY, NEW MEXICO

Dear Mr. Bratcher:

On behalf of Rockcliff Operating New Mexico LLC (Rockcliff), Souder, Miller & Associates (SMA) prepared this update to the Remediation Report that describes the remediation activities that have taken place since the submission of the report to all involved parties on 7/4/2018. Figure 1 illustrates the updated site and sample location map.

Table 1 summarizes information regarding the release.

	Table 1: Release Information	on and Closure	Criteria							
Name	SCB 5B to Candelario 4" Polyline	Company	Rockcliff Operating New Mexico LLC							
API Number	N/A	Location	32.294911, -104.043545							
Incident Number	n	nAB1813056113								
Estimated Date of Release	April 26, 2018 – April 29, 2018	Date Reported to NMOCD	April 30, 2018							
Land Owner	Mosaic Potash	Reported To	NMOCD II							
Source of Release	Produced Water Transfer Line									
Released Volume	Produced Water & Crude Oil	Released Material	Approx. 720 bbls PW & Approx. 7.2 bbls Crude Oil							
Recovered Volume	Approx. 385 bbls	Net Release	Approx. 342.2 bbls							
NMOCD Closure Criteria	<50 feet to groundwater									
SMA Response Dates	Initial: April 30 – May 4, May 7, May 15	5, 2018, July 12 &	20 2018, August 23 & 24, 2018							

1.0 Background

On April 26, 2018, a third party, ran over the 4" polyline that transfers produced water from the SCB #5B CTB to the Candelario SWD #1 disposal well, which caused a failure in the line. Emergency Response Initial action was conducted by SMA and the operator, and included source elimination and site security as well as site stabilization activities.

2.0 Site Information and Closure Criteria

Based on the information presented herein and the previously submitted Remediation Report, the applicable NMOCD Closure Criteria for this site remains for groundwater depth of less than 50 feet bgs.

The area associated with the SCB 5B to Candelario 4" Polyline 2 is located approximately 1.5 miles from Loving, New Mexico on private land, adjacent to the Pecos River. SMA searched the New Mexico State Engineers' Office's (NMOSE) database for water wells in the area and found 2 wells within 1000 feet, both with a depth to groundwater at 31 feet, and 102 wells within 3 miles of the site with an average depth to ground water at 40 feet.

3.0 Summary of Work Activities and Findings

3.1 Source Excavation

As mentioned in the approved Remediation Report, the source of the release, where the poly-pipe was struck by equipment is represented by sample locations S1-S4. After the river was secured during initial action, a delineation was completed for these sample locations to 2 feet bgs (Table 2).

On July 12, 2018, SMA arrived on site to guide the further delineation and excavation of the area surrounding the source. Six composite sidewall samples were collected, obtaining lateral delineation and ensuring the removal of impacted material. Sample location S1 (the source) was vertically extended to refusal at conglomerate rock, which occurred at 3 feet bgs.

As the release area surrounding the source overlapped a county road, SMA worked with BLM and the County to ensure the road remained closed until the remediation had been completed. As per the stipulations of approval, an email notification was sent to NMOCD and BLM announcing that confirmation samples were being collected from the open excavation. BLM Agent visually inspection the open excavation. After verbal approval from the BLM and review of our laboratory analysis, the excavation was backfilled with clean material to restore the road and surrounding area to its previous contours. The impacted material was hauled off to disposal at Lea Land LLC, an NMCOD approved facility. All waste manifests concerning this addition work, as well as work done during the initial action can be found in Appendix C.

A total of 8 soil samples were collected for laboratory analysis for total chloride using EPA Method 300.0. Table 2 itemizes the samples alongside the samples that were previously collected in the vicinity. Locations for all samples are depicted on Figure 1. Laboratory samples were collected in accordance with the submitted Remediation Plan. Samples were placed into laboratory supplied glassware, labeled, and maintained on ice until delivery to Hall Environmental Analysis Laboratory in Albuquerque, New Mexico (Appendix A).

3.2 Hydro-Excavation

As stated in the approved Remediation Report, the release ran from the polyline across Fisherman's Lane and split into two individual paths. One path flowed over the edge of the ravine to the northeast,

briefly diverging and then merging before entering the river. This first path is represented by the collection of sample sites L1-L9. The sample points collected on this northeast path are of the removed and disposed of soil and not of the conglomerated rock material that remains today. It was proposed that a hydro excavation be performed to wash the remaining bedrock in the northeast flow path, as well as the portions of surface bedrock that scattered the low river crossing.

On August 23, 2018, SMA arrived on site to complete the hydro excavation as per the approved work plan. SMA personnel and their contractors placed 50 feet of absorbent booms around each work area ("cell") as well as re-established berms with clean soil which prevented any runoff into the river. As the cells were being hydro excavated, a vacuum truck was placed at the lowest lying area of each boomed cell collecting the fluid. On August 24, 2018, SMA personnel returned to complete the hydro excavation process. All collected fluid was disposed of in a Class 2 Injection Well in accordance with NMOCD guidance for RCRA exempt material. SMA also used fresh water, in conjunction with NMOCD regulation (as defined by NMAC 20.6.2.3103 and NMOCD Fresh Water Stations Memo 8/08) and collected water quality field screens from the source using an electrical conductivity (EC) meter that can be seen in Table 3.

There was a total of five (5) cells (Cells 1-5) established as plausible candidates for the hydro excavation. Two of these cells were based on previous excavation attempts that ended in refusal surrounding sample locations L4 – L5 (Cell 1) and L12 & L14 (Cell 4). The remaining cells (Cells 2, 3 and 5) were also established due to the natural presence of conglomerate bed rock on the surface of the release area.

After all fluid was collected in each cell, a composite bedrock sample was taken from within the work area. A total of 5 bedrock samples were collected for laboratory analysis for total chloride using EPA Method 300.0; benzene, toluene, ethylbenzene and total xylenes (BTEX) using EPA Method 8021B; and motor, diesel and gasoline range organics (MRO, DRO, and GRO) by EPA Method 8015D. Table 3 itemizes the samples alongside the samples that were previously collected in the vicinity. Locations for all samples are depicted on Figure 2. Laboratory samples were collected in accordance with the submitted Remediation Plan. Samples were placed into laboratory supplied glassware, labeled, and maintained on ice until delivery to Hall Environmental Analysis Laboratory in Albuquerque, New Mexico (Appendix A).

4.0 Conclusions

Due to the varying geology in the area, the sample analysis has been compared to its associated background sample that was established per each of the NRCS soil types (Soil Map attached as Figure 1) represented in the release area as well as samples that were collected surrounding the cells (Cell 1 & Cell 4). The majority of the field samples collected on August 23 and August 24, 2018 after hydro excavation show a decrease in chloride concentration since the initial action (seen in Table 2).

Cells 2, 3 and 5 show concentrations in the 2000 mg/kg range which is only slightly elevated from a background in the area (BG2) and the natural chloride concentration of the Pecos River. The chloride concentration of Cell 1 is 4500 mg/kg post-hydrovac, 42% to 62% lower than the refusal samples collected in sample locations L4 and L5. Lab analysis shows a chloride concentration of 9600 mg/kg for Cell 4. This specific soil type, Sandy Arno-Harkey Complex, shows a background of 9800 mg/kg (BG1). According to the NRCS Web soil survey, this soil type is a moderate to strongly saline soil with EC's ranging from 8.0 to 32.0 mmhos/cm. This consistent chloride concentration, pre and post hydro excavation (decreasing only 2%), suggests the chloride present in this soil type is not as soluble as the surrounding soil types. This data is also confirmed by the properties and qualities described in the

attached NRCS Soil Report illustrating this soil type with a very high potential runoff class and inability to affectively absorb/leach water.

5.0 Scope and Limitations

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

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

Submitted by: SOUDER, MILLER & ASSOCIATES

Reviewed by:

Melodie Sanjari Staff Scientist

M. Janyan

Shawna Chubbuck Senior Scientist

Shauna Chubbuck

ATTACHMENTS:

Figures:

Figure 1: Updated Site and Sample Location Map of Source Excavation Figure 2: Updated Site and Sample Location Map of Hydro-Excavation

Tables:

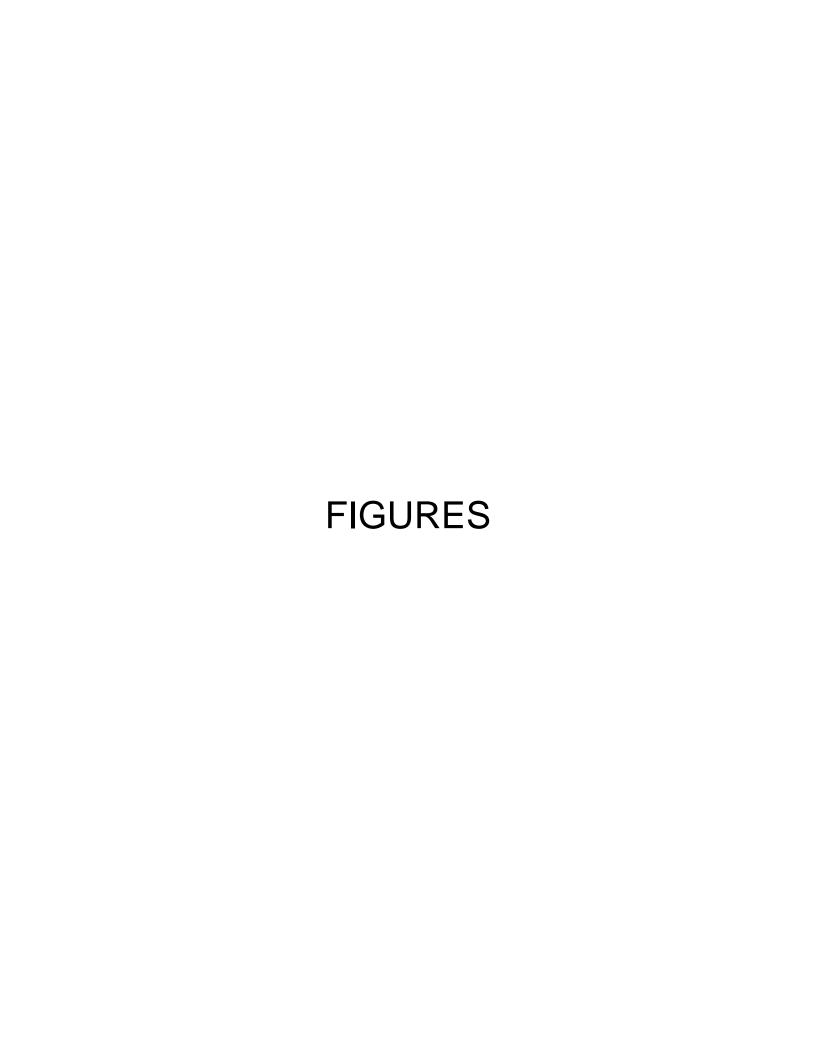
Table 2: Updated Summary of Sample Results

Appendices:

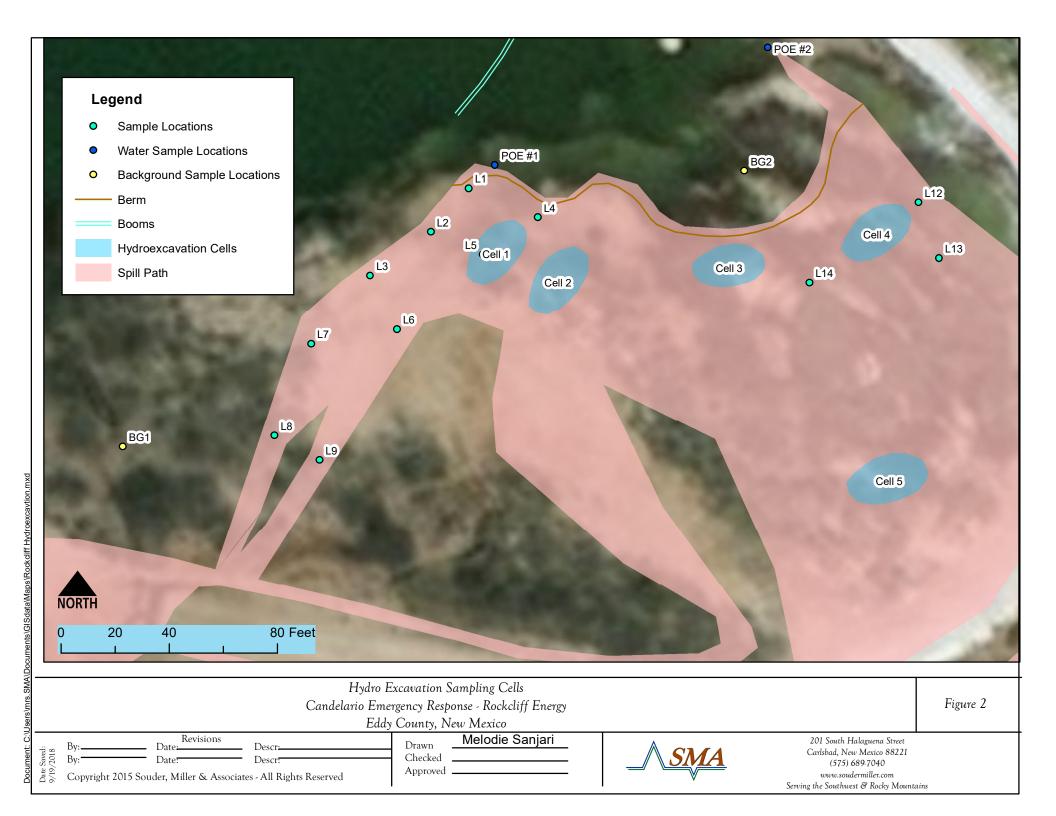
Appendix A: NRCS Soil Report (Map & Soil Data)

Appendix B: Laboratory Analytical Reports

Appendix C: Waste Manifests





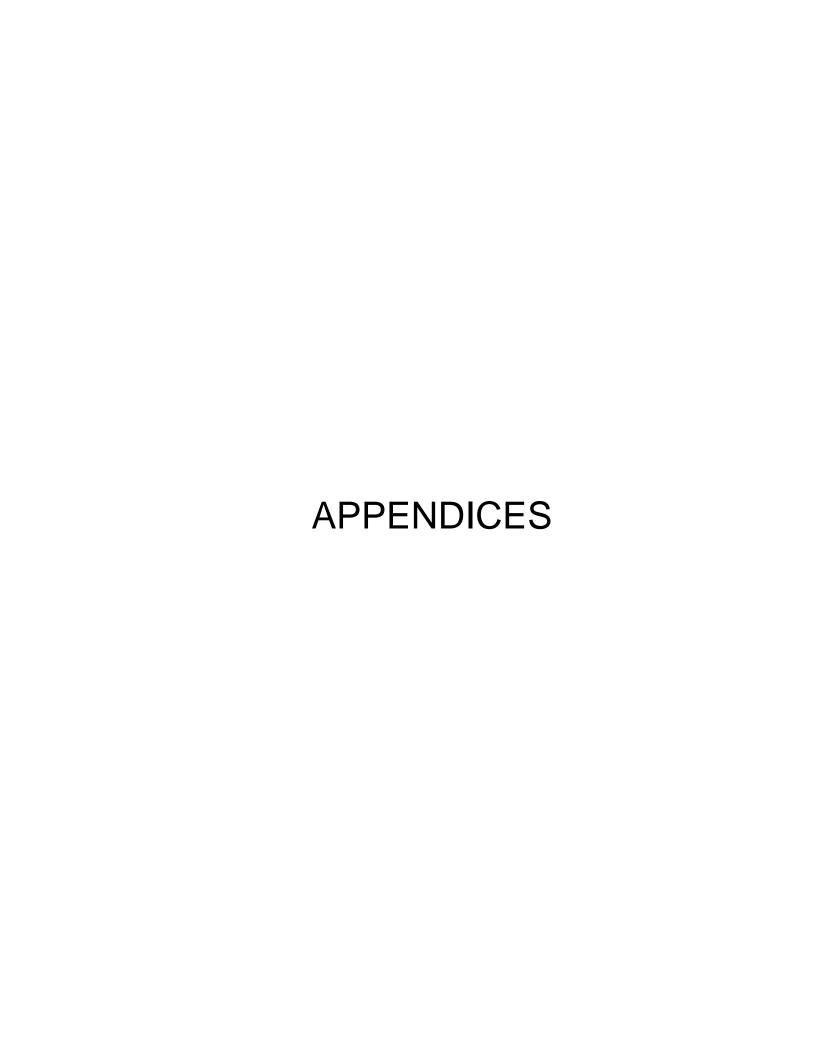




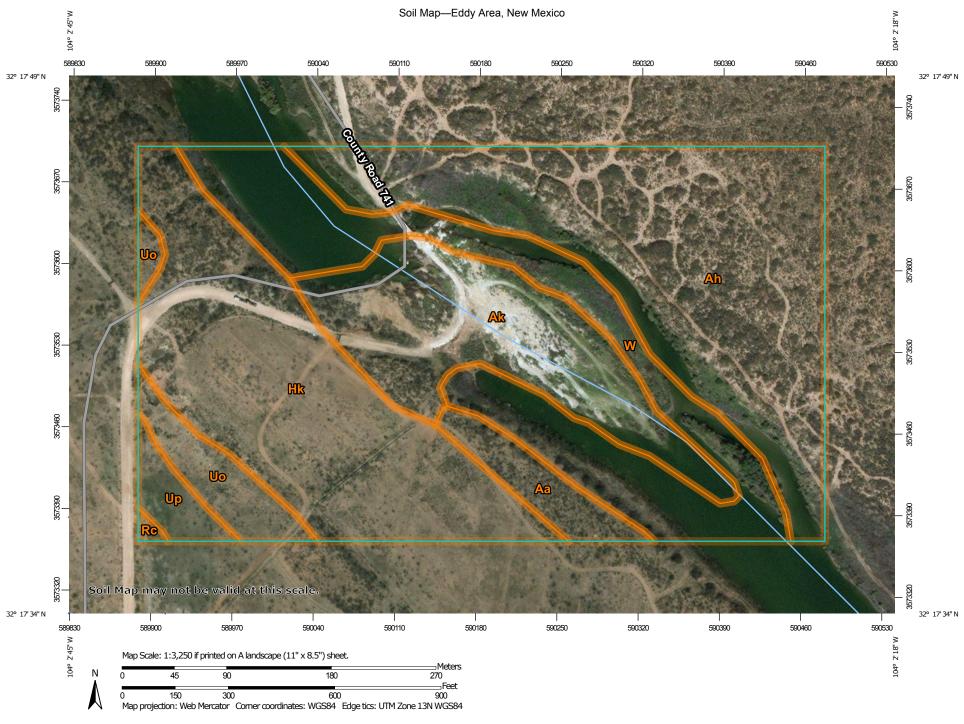
Candelario Emergency Response Sample Summary Table

Sample Number on Figure	Sample Date	Depth (feet bgs)	Completed Action	BTEX	Benzene	GRO	DRO	MRO	Total TPH	Cl- Screens	Cl- Labs	Soil Type
				mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	(ppm)	mg/Kg	
NMOCD	RRAL's for Site	Ranking of 20		50 mg/Kg	10 mg/Kg				100 mg/Kg			
L1	5/3/2018	0.5	excavated	<0.217	<0.024	<4.8	<9.4	<47	<61.2	12170	850	
L2	5/3/2018	1.5	excavated	<0.216	<0.024	<4.8	<9.6	<48	<62.4	8014	320	
L3	4/30/2018	1	excavated	<0.221	<0.025	<4.9	41	<47	41	7003	6500	
L4	5/3/2018	1	excavated	<0.224	<0.025	<5.0	<9.4	<47	<61.4	>28700	19000	
L5	4/30/2018	1	excavated	<0.210	<0.023	5.9	69	<49	74.9	>28700	72000	
L6	5/3/2018	1	excavated	<0.219	<0.024	<4.9	<9.1	<45	<59		1600	
L7	5/3/2018	0.5	excavated	<0.213	<0.024	<4.7	15	<48	15		4200	
L8	5/3/2018	0.5	excavated	<0.219	<0.024	<4.9	<10	<50	<64.9		160	
L9	4/30/2018	0.5	excavated	<0.221	0.025	<4.9	<9.5	<47	<61.4		5400	
L9 West	5/3/2018	0.5	excavated	<0.225	<0.025	<5.0	<9.0	<45	<59		8000	
	5/1/2018	1	excavated									
L10	5/1/2018	2	excavated	<0.207	<0.023	<4.6	<9.6	<48	<62.2		16000	
	5/1/2018	3	excavated	<0.179	<0.020	<4.0	<9.8	<49	<62.8		4900	
	5/1/2018	1	excavated	<0.215	0.024	12	130	<47	132		27000	
L11	5/1/2018	1.5	excavated									1
	5/1/2018	2	excavated	<0.143	<0.016	<3.2	23	<47	23		3800	
	5/1/2018	0.5	excavated									
L12	5/1/2018	1	excavated	<0.21	<0.023	<4.7	<9.6	<48	<62.3		16000	
	5/1/2018	2	excavated	<0.145	<0.016	<3.2	<9.0	<45	<57.2	15000	8800	
	5/1/2018	0.5	excavated									
L13	5/3/2018	1	excavated	<0.22	<0.024	<4.9	240	1000	1240		2000	
	5/1/2018	2	excavated	<0.180	<0.020	<4.0	<9.3	<47	<60.3	4420	5800	
L14	5/3/2018	2.5	excavated							4030		
Cell 1	8/23/2018	surface rock	hydro-excav.	<0.217	<0.024	<4.8	<9.7	<48	<62.5		4500	
Cell 2	8/24/2018	surface rock	hydro-excav.	<0.217	<0.024	<4.8	<9.8	<49	<63.6		2000	
Cell 3	8/24/2018	surface rock	hydro-excav.	<0.212	<0.024	<4.7	<10	<50	<64.7		2200	
Cell 4	8/24/2018	surface rock	hydro-excav.	<0.224	<0.025	<5.0	<10	<51	<66.0		9600	
Cell 5	8/24/2018	surface rock	hydro-excav.	<0.225	<0.025	<5.0	<9.8	<49	<63.8		2300	
BG1	4/30/2018	background									9800	Arno-Harkey Complex (sandy)
BG2	5/3/2018	background									1100	Arno-Harkey Complex
			I	1					1			Complex
	8/23/2018									1300		
Hydrovac. Water Source	8/24/2018					-	-			1220		
												•
		0.5	excavated	<0.212	<0.024	<4.7	<9.9	<49	<63.6		19000	
	5/7/2018	1	excavated								24000	
S1 (Source)		2	excavated								7600	
	7/20/2018	2.5	excavated								3000	
	7/20/2010	3	excavated								1300	
		0.5	excavated	<0.224	<0.025	<5.0	<10	<50	<65.0		3800	
S2	5/7/2018	1	excavated								230	
		2	excavated								1100	
		0.5	excavated	<0.221	<0.025	<4.9	22	<49	22		9900	
S3	5/7/2018	1	excavated								260	
		2	excavated								35	
S4	5/3/2018	2.5	excavated	<0.217	<0.024	<4.8	<9.4	<47	<61.2		2200	
SW1	7/12/2018	sidewall	in-situ								39	
SW2	7/12/2018	sidewall	in-situ								150	
SW3	7/12/2018	sidewall	in-situ			-					32	
SW4	7/12/2018	sidewall	in-situ	-		-	-				<30	
SW5	7/12/2018	sidewall	in-situ								120	
CIAIC	7/12/2018	sidewall	in-situ								<30	Harkey Very Fir
SW6	.,,											

⁻⁻ not analyzed excavated



NRCS Soil Map & Data



MAP LEGEND

Area of Interest (AOI)

Area of Interest (AOI)

Soils

Soil Map Unit Polygons



Soil Map Unit Points

Special Point Features

Blowout

Borrow Pit

36 Clay Spot

Closed Depression

Gravel Pit

Gravelly Spot

Landfill ۵

Lava Flow Marsh or swamp

Mine or Quarry

Miscellaneous Water

Perennial Water

Rock Outcrop

Saline Spot Sandy Spot

Severely Eroded Spot 0

Sinkhole ٥

Slide or Slip

Sodic Spot

â Stony Spot

00 Very Stony Spot

Spoil Area

Wet Spot Other

Special Line Features

Water Features

Δ

Streams and Canals

Transportation

Rails ---

Interstate Highways

US Routes

Major Roads

Local Roads

Background

Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20.000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Eddy Area, New Mexico Survey Area Data: Version 13, Sep 9, 2017

Soil map units are labeled (as space allows) for map scales 1:50.000 or larger.

Date(s) aerial images were photographed: Apr 21, 2013—Mar 16. 2017

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
Aa	Anthony sandy loam, 0 to 1 percent slopes	1.7	3.3%
Ah	Anthony sandy loam, 0 to 1 percent slopes	15.3	30.8%
Ak	Arno-Harkey complex, saline, 0 to 1 percent slopes	7.8	15.6%
Hk	Harkey very fine sandy loam, 0 to 1 percent slopes	12.4	25.0%
Rc	Reagan loam, 0 to 1 percent slopes	0.1	0.2%
Uo	Upton gravelly loam, 0 to 9 percent slopes	2.0	4.1%
Up	Upton soils, 0 to 1 percent slopes	1.0	2.0%
W	Water	9.4	19.0%
Totals for Area of Interest		49.7	100.0%

Eddy Area, New Mexico

Ak—Arno-Harkey complex, saline, 0 to 1 percent slopes

Map Unit Setting

National map unit symbol: 1w3y Elevation: 3,000 to 4,200 feet

Mean annual precipitation: 10 to 16 inches
Mean annual air temperature: 60 to 64 degrees F

Frost-free period: 180 to 220 days

Farmland classification: Not prime farmland

Map Unit Composition

Arno and similar soils: 50 percent Harkey and similar soils: 25 percent Minor components: 2 percent

Estimates are based on observations, descriptions, and transects of

the mapunit.

Description of Arno

Setting

Landform: Alluvial fans, flood plains

Landform position (three-dimensional): Rise, talf

Down-slope shape: Linear Across-slope shape: Linear Parent material: Alluvium

Typical profile

H1 - 0 to 9 inches: silty clay loam H2 - 9 to 60 inches: silty clay

Properties and qualities

Slope: 0 to 1 percent

Depth to restrictive feature: More than 80 inches Natural drainage class: Moderately well drained

Runoff class: Very high

Capacity of the most limiting layer to transmit water (Ksat): Very

low to moderately low (0.00 to 0.06 in/hr) Depth to water table: More than 80 inches

Frequency of flooding: Occasional Frequency of ponding: None

Calcium carbonate, maximum in profile: 15 percent

Gypsum, maximum in profile: 5 percent

Salinity, maximum in profile: Moderately saline to strongly saline

(8.0 to 32.0 mmhos/cm)

Sodium adsorption ratio, maximum in profile: 1.0

Available water storage in profile: Low (about 5.7 inches)

Interpretive groups

Land capability classification (irrigated): 6s Land capability classification (nonirrigated): 7s Hydrologic Soil Group: D

Ecological site: Salty Bottomland (R042XC033NM)

Hydric soil rating: No

Description of Harkey

Setting

Landform: Alluvial fans, flood plains

Landform position (three-dimensional): Rise, talf

Down-slope shape: Linear, convex Across-slope shape: Linear

Parent material: Alluvium derived from sedimentary rock

Typical profile

H1 - 0 to 9 inches: very fine sandy loam H2 - 9 to 60 inches: very fine sandy loam

Properties and qualities

Slope: 0 to 1 percent

Depth to restrictive feature: More than 80 inches

Natural drainage class: Well drained

Runoff class: Low

Capacity of the most limiting layer to transmit water (Ksat):

Moderately high to high (0.60 to 2.00 in/hr) Depth to water table: About 48 to 72 inches

Frequency of flooding: Occasional Frequency of ponding: None

Calcium carbonate, maximum in profile: 30 percent

Gypsum, maximum in profile: 2 percent

Salinity, maximum in profile: Slightly saline to strongly saline (4.0 to

16.0 mmhos/cm)

Sodium adsorption ratio, maximum in profile: 13.0

Available water storage in profile: Low (about 6.0 inches)

Interpretive groups

Land capability classification (irrigated): 2s Land capability classification (nonirrigated): 7s

Hydrologic Soil Group: B

Ecological site: Salt Flats (R042XC036NM)

Hydric soil rating: No

Minor Components

Anthony

Percent of map unit: 1 percent Landform: Alluvial fans, flood plains

Landform position (three-dimensional): Rise, talf

Down-slope shape: Linear, convex

Across-slope shape: Linear

Ecological site: Sandy (R042XC004NM)

Hydric soil rating: Yes

Pima variant

Percent of map unit: 1 percent



Landform: Alluvial fans, alluvial flats, flood plains Landform position (three-dimensional): Rise, talf

Down-slope shape: Linear, convex Across-slope shape: Linear, convex

Ecological site: Bottomland (R042XC017NM)

Hydric soil rating: Yes

Data Source Information

Soil Survey Area: Eddy Area, New Mexico Survey Area Data: Version 13, Sep 9, 2017





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

August 06, 2018

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

FAX

RE: Candelario OrderNo.: 1807C41

Dear Austin Weyant:

Hall Environmental Analysis Laboratory received 9 sample(s) on 7/24/2018 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

Indest

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order: **1807C41**Date Reported: **8/6/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Lab Order: 1807C41 **Project:** Candelario Lab ID: 1807C41-001 **Collection Date:** 7/20/2018 10:30:00 AM Client Sample ID: S1-2.5' Matrix: SOIL PQL Qual Units DF Date Analyzed **Analyses** Result **Batch ID EPA METHOD 300.0: ANIONS** Analyst: JRR Chloride 3000 150 100 7/30/2018 9:16:48 PM 39452 mg/Kg Lab ID: 1807C41-002 Collection Date: 7/20/2018 11:00:00 AM Client Sample ID: Matrix: SOIL Result PQL Qual Units DF Date Analyzed Analyses **Batch ID EPA METHOD 300.0: ANIONS** Analyst: JRR Chloride 1300 75 mg/Kg 50 7/30/2018 9:29:13 PM 39452 Lab ID: 1807C41-004 **Collection Date:** 7/12/2018 9:00:00 AM Matrix: SOIL Client Sample ID: SW1 Result POL Qual Units DF Date Analyzed Analyses **Batch ID EPA METHOD 300.0: ANIONS** Analyst: MRA Chloride 39 30 mg/Kg 20 7/27/2018 3:54:03 PM 39452 **Collection Date:** 7/12/2018 9:15:00 AM Lab ID: 1807C41-005 Matrix: SOIL Client Sample ID: SW2 **Analyses** Result **POL Qual Units** DF Date Analyzed **Batch ID EPA METHOD 300.0: ANIONS** Analyst: MRA Chloride 150 30 20 7/27/2018 4:06:28 PM mg/Kg 39452 Lab ID: 1807C41-006 **Collection Date:** 7/12/2018 9:30:00 AM Client Sample ID: SW3 Matrix: SOIL **Analyses** Result PQL Qual Units DF Date Analyzed **Batch ID EPA METHOD 300.0: ANIONS** Analyst: MRA Chloride 32 30 20 7/27/2018 4:18:53 PM 39452 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
- 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 Detection Limit

Page 1 of 3

Analytical Report

Lab Order: **1807C41**Date Reported: **8/6/2018**

Analyst: MRA

39452

Page 2 of 3

20 7/27/2018 5:20:56 PM

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Lab Order: 1807C41 **Project:** Candelario **Collection Date:** 7/12/2018 9:45:00 AM Lab ID: 1807C41-007 Client Sample ID: SW4 Matrix: SOIL Result PQL Qual Units DF Date Analyzed **Analyses Batch ID EPA METHOD 300.0: ANIONS** Analyst: MRA Chloride ND 30 mg/Kg 20 7/27/2018 4:56:06 PM 39452 Lab ID: 1807C41-008 Collection Date: 7/12/2018 10:00:00 AM Client Sample ID: Matrix: SOIL Result PQL Qual Units DF Date Analyzed Analyses **Batch ID EPA METHOD 300.0: ANIONS** Analyst: MRA 20 7/27/2018 5:08:32 PM Chloride 120 30 mg/Kg 39452 Lab ID: 1807C41-009 **Collection Date:** 7/12/2018 10:30:00 AM Client Sample ID: SW6 Matrix: SOIL Result PQL Qual Units DF Date Analyzed Analyses **Batch ID**

ND

30

mg/Kg

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

Qualifiers:

EPA METHOD 300.0: ANIONS

Chloride

- 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 Detection Limit

Hall Environmental Analysis Laboratory, Inc.

WO#: 1807C41

06-Aug-18

Client: Souder, Miller & Associates

Project: Candelario

Sample ID MB-39452 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 39452 RunNo: 53018

Prep Date: 7/27/2018 Analysis Date: 7/27/2018 SeqNo: 1744997 Units: mg/Kg

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

Chloride ND 1.5

Sample ID LCS-39452 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 39452 RunNo: 53018

Prep Date: 7/27/2018 Analysis Date: 7/27/2018 SeqNo: 1744998 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 96.6 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

Reporting Detection Limit

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL

W Sample container temperature is out of limit as specified

Page 3 of 3



Hali 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

SMA-CARLSBAD Client Name: Work Order Number: 1807C41 RcptNo: 1 Received By: Isaiah Ortiz 7/24/2018 9:15:00 AM Completed By: Ashley Gallegos 7/24/2018 12:57:18 PM JA1507/24/18 labeled Reviewed By: 7/24/18 Chain of Custody 1. Is Chain of Custody complete? Yes V No _ Not Present How was the sample delivered? Courier Log In 3. Was an attempt made to cool the samples? Yes V No _ NA 🗌 No . Were all samples received at a temperature of >0° C to 6.0°C. NA 🗌 5. Sample(s) in proper container(s)? No 🗌 Yes V No 🗌 Sufficient sample volume for indicated test(s)? No 7. Are samples (except VOA and ONG) properly preserved? Yes V No V 8. Was preservative added to bottles? NA 🗌 9. VOA vials have zero headspace? No VOA Vials V Yes No _ Yes No V 10. Were any sample containers received broken? (<2 or >12 unless poled) # of preserved bottles checked for pH: 11. Does paperwork match bottle labels? Yes V No (Note discrepancies on chain of custody) Adjusted? 12. Are matrices correctly identified on Chain of Custody? No 13. Is it clear what analyses were requested? No ~ Checked by 14. Were all holding times able to be met? No (If no, notify customer for authorization.) Special Handling (if applicable) 15. Was client notified of all discrepancies with this order? Yes __ NA V No _ Person Notified: Date: By Whom: Via: eMail Phone Fax In Person Regarding: Client Instructions: 16. Additional remarks: 17. Cooler Information Cooler No Temp °C Condition Seal Intact Seal No Seal Date 2.3 Good Yes

Client: (MA	A Charle		_					Ī		Z	5	۵	1	į	
	3	Cansbud.	□ Standard		W Rush 5 d lW	П		<	4	3	. 0	25			HALL ENVIRONMENTAL
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			Project #:				Tel 50	505-345-3975	3075			, 2/c	EIQUE, ININI 07	200	
Phone #:								3	A	Analysis Request	is Re	due	1 #		
email or Fax#:			Project Manager:	ger:		_		H			(7	L			
QA/QC Package:									(9	US		20.00			
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□ EDD (Type)			Sample Temperature:	perature: 2.	3						25.64	_			
Date Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL NO.	1 1TM + X3T8 3TM + X3T8	82108 H9T	TPH (Metho	0168) s'HA9	RCRA 8 Mei	Anions (F,Cl 3081 Pestici	AOV) 809S8	-imə2) 0728		
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CLIENT: Souder, Miller & Associates Client Sample ID: Cell 1

 Project:
 Candelario EMR
 Collection Date: 8/23/2018 10:00:00 AM

 Lab ID:
 1808H37-001
 Matrix: SOIL
 Received Date: 8/29/2018 11:20:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	4500	150	mg/Kg	100	0 8/31/2018 1:37:22 PM	40085
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: Irm
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	8/31/2018 11:48:05 AM	40075
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	8/31/2018 11:48:05 AM	40075
Surr: DNOP	104	50.6-138	%Rec	1	8/31/2018 11:48:05 AM	40075
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	8/30/2018 12:24:54 PM	40054
Surr: BFB	92.0	15-316	%Rec	1	8/30/2018 12:24:54 PM	40054
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	8/30/2018 12:24:54 PM	40054
Toluene	ND	0.048	mg/Kg	1	8/30/2018 12:24:54 PM	40054
Ethylbenzene	ND	0.048	mg/Kg	1	8/30/2018 12:24:54 PM	40054
Xylenes, Total	ND	0.097	mg/Kg	1	8/30/2018 12:24:54 PM	40054
Surr: 4-Bromofluorobenzene	91.1	80-120	%Rec	1	8/30/2018 12:24:54 PM	40054

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 1 of 0
- 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: Cell 2

 Project:
 Candelario EMR
 Collection Date: 8/24/2018 9:00:00 AM

 Lab ID:
 1808H37-002
 Matrix: SOIL
 Received Date: 8/29/2018 11:20:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	2000	75	mg/Kg	50	8/31/2018 1:49:46 PM	40085
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	Irm
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	8/31/2018 12:12:50 PM	40075
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	8/31/2018 12:12:50 PM	40075
Surr: DNOP	97.7	50.6-138	%Rec	1	8/31/2018 12:12:50 PM	40075
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	8/30/2018 12:48:15 PM	40054
Surr: BFB	90.2	15-316	%Rec	1	8/30/2018 12:48:15 PM	40054
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.024	mg/Kg	1	8/30/2018 12:48:15 PM	40054
Toluene	ND	0.048	mg/Kg	1	8/30/2018 12:48:15 PM	40054
Ethylbenzene	ND	0.048	mg/Kg	1	8/30/2018 12:48:15 PM	40054
Xylenes, Total	ND	0.097	mg/Kg	1	8/30/2018 12:48:15 PM	40054
Surr: 4-Bromofluorobenzene	89.1	80-120	%Rec	1	8/30/2018 12:48:15 PM	40054

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 0
- 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: Cell 3

 Project:
 Candelario EMR
 Collection Date: 8/24/2018 9:45:00 AM

 Lab ID:
 1808H37-003
 Matrix: SOIL
 Received Date: 8/29/2018 11:20:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	MRA
Chloride	2200	75	mg/Kg	50	8/31/2018 2:02:11 PM	40085
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	Irm
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	8/31/2018 12:37:49 PM	40075
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	8/31/2018 12:37:49 PM	40075
Surr: DNOP	102	50.6-138	%Rec	1	8/31/2018 12:37:49 PM	40075
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	8/30/2018 1:11:35 PM	40054
Surr: BFB	93.7	15-316	%Rec	1	8/30/2018 1:11:35 PM	40054
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
Benzene	ND	0.024	mg/Kg	1	8/30/2018 1:11:35 PM	40054
Toluene	ND	0.047	mg/Kg	1	8/30/2018 1:11:35 PM	40054
Ethylbenzene	ND	0.047	mg/Kg	1	8/30/2018 1:11:35 PM	40054
Xylenes, Total	ND	0.094	mg/Kg	1	8/30/2018 1:11:35 PM	40054
Surr: 4-Bromofluorobenzene	91.7	80-120	%Rec	1	8/30/2018 1:11:35 PM	40054

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

Qualifiers: Value exceeds Maximum Contaminant Level. Analyte detected in the associated Method Blank D Sample Diluted Due to Matrix Е Value above quantitation range Analyte detected below quantitation limits Н Holding times for preparation or analysis exceeded J Page 3 of 0 Not Detected at the Reporting Limit Sample pH Not In Range ND P PQL Practical Quanitative Limit Reporting Detection Limit RL% Recovery outside of range due to dilution or matrix Sample container temperature is out of limit as specified

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

 Project:
 Candelario EMR
 Collection Date: 8/24/2018 10:30:00 AM

 Lab ID:
 1808H37-004
 Matrix: SOIL
 Received Date: 8/29/2018 11:20:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	MRA
Chloride	9600	300	mg/Kg	200	8/31/2018 2:14:35 PM	40085
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst:	Irm
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	8/31/2018 1:02:29 PM	40075
Motor Oil Range Organics (MRO)	ND	51	mg/Kg	1	8/31/2018 1:02:29 PM	40075
Surr: DNOP	97.2	50.6-138	%Rec	1	8/31/2018 1:02:29 PM	40075
EPA METHOD 8015D: GASOLINE RANGE					Analyst:	NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	8/30/2018 1:34:56 PM	40054
Surr: BFB	92.0	15-316	%Rec	1	8/30/2018 1:34:56 PM	40054
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
Benzene	ND	0.025	mg/Kg	1	8/30/2018 1:34:56 PM	40054
Toluene	ND	0.050	mg/Kg	1	8/30/2018 1:34:56 PM	40054
Ethylbenzene	ND	0.050	mg/Kg	1	8/30/2018 1:34:56 PM	40054
Xylenes, Total	ND	0.099	mg/Kg	1	8/30/2018 1:34:56 PM	40054
Surr: 4-Bromofluorobenzene	90.8	80-120	%Rec	1	8/30/2018 1:34:56 PM	40054

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 4 of 0

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: Cell 5

 Project:
 Candelario EMR
 Collection Date: 8/24/2018 11:20:00 AM

 Lab ID:
 1808H37-005
 Matrix: SOIL
 Received Date: 8/29/2018 11:20:00 AM

Analyses	Result	PQL	Qual Un	its I	F	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	MRA
Chloride	2300	75	mg	g/Kg	50	8/31/2018 2:26:59 PM	40085
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS					Analyst:	Irm
Diesel Range Organics (DRO)	ND	9.8	mg	g/Kg	1	8/31/2018 1:27:21 PM	40075
Motor Oil Range Organics (MRO)	ND	49	mg	J/Kg	1	8/31/2018 1:27:21 PM	40075
Surr: DNOP	103	50.6-138	%F	Rec	1	8/31/2018 1:27:21 PM	40075
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	NSB
Gasoline Range Organics (GRO)	ND	5.0	mg	g/Kg	1	8/30/2018 5:05:39 PM	40054
Surr: BFB	94.0	15-316	%F	Rec	1	8/30/2018 5:05:39 PM	40054
EPA METHOD 8021B: VOLATILES						Analyst:	NSB
Benzene	ND	0.025	mg	g/Kg	1	8/30/2018 5:05:39 PM	40054
Toluene	ND	0.050	mg	J/Kg	1	8/30/2018 5:05:39 PM	40054
Ethylbenzene	ND	0.050	mg	J/Kg	1	8/30/2018 5:05:39 PM	40054
Xylenes, Total	ND	0.10	mg	J/Kg	1	8/30/2018 5:05:39 PM	40054
Surr: 4-Bromofluorobenzene	94.2	80-120	%F	Rec	1	8/30/2018 5:05:39 PM	40054

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 5 of 0

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified



Rockcliff Energy LLC Weights Statement - Total

	mber	Lease Name	Weight (lbs)	Weight (Tons)
	2878 Rockcliff Tr	· ·	79 080 87 240	39 54 43 62
5/3/2018 12:	2879 Rockcliff Tr	ansfer Line	95 590 261 910	,47 80 ° 130 96

EDA LAND DISPOSAL SITE NEW MEXICO MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048 LEA LAND, LLC 1300 WEST MAIN STREET + OKLAHOMA CITY, OK 73106 - PHONE (405) 236-4257 arean 2. TRATLER NO 5. PICK-UP DATE 4. ADDRESS 3. COMPANY NAME 5/2018 1301 McKinney St. # 1300 MIR Energy, LLC 6. TNRCCLD, NO CITY PHONE NO. Houston a grant make a TX and the grant TX 1000 S CONTAINERS NAME OF DESCRIPTION OF WASTE SHIPPED No. MALENTE OK SPECIAL INSTRUC MARKET TRANSPER LISE IN CASE OF PARTOWNES AND CERTIFIC ATTOM: (BERTIFIC ATTOM: 1 Hereby declare that the contents of this consignment in market, and are in all respects in proper condition for a self-build national government regulations, including applicable state regulations, and are the same: SIGNATURE PRINTED/TYPED NAME TRANSPORTER (2) 17. TRANSPORTER (1) 16. NAME: NAME: TEXAS I.D. NO. TEXAS LD. NO. LUIS N.CASE OF EMERGENCY CONTACT: 19 TRANSPORTER (2) Anthowledgement of receipt of in PRINTED/TYPED NAME PRINTED/TYPED NAME SIGNATURE. PHONE: ADDRESS: 575-887-4048 Mile Marker 64, U.S. Hwy 62/180. Lea Land, LLC 30 Miles East of Carlsbad, NM D F 20. COMMENTS PERMIT NO. WM-01-035 - New Mexico 21 DISPOSAL FACILITY'S CERTIFICATION: 1 Hereby certify that the above described wastes were delivered to fills facility; that the facility a sutherized and permitted to receive such wastes. CELL NO. DATE SALES AUTHORIZED SIGNATURE TRANSPORTERS COPPLYA. DISPOSAL SITE: COPIES 2'& 9

COPY 1

CIBA LAND DISPOSABISHTE NEW MEXICO MILE MARKER #64 US HWY 62/180 < 30 MILES BAST OF CARLSBAD, NM . PHONE (575) 887-4048 LEA LAND, ELC 1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257 2. TRAILER NO I. PAGE_ NO: A PIČKETIP DATE GRAZNIJA 1901 Md Greey St. # 1900 6 INRCC LD. NO. **DESCRIPTION OF WASTE SHIPPED** BATOR'S CERTIFICATION; I Hereby declare that the contents of this consignment are fully and ked, marked, and labeled, and are in all respects in prop onal and national government regulations, including applicable state regulations, and are the same materials previously a PRINTED/TYPED NAME TRANSPORTER (I) TRANSPORTER (2) NAME: NAME: TEXAS I.D. NO. TEXAS I.D. NO. LUIS IN CASE OF EMERGENCY CONTACT 1815 R. SPORTER (11) Administration of recept of material 19. TRANSPORTER (2) Actaiow leagurent of receipt of material PRINTED/TYPED NAME MINATURE ADDRESS: Lea Land, LLC Mile Marker 64, U.S. Hwy 62/180. 575-887-4048 30 Miles East of Carlsbad, NM PERMIT NO. 20. COMMENTS WM-01-035 - New Mexico

Generalisa espies las

RIZED SIGNATURE

DISPOSAL SITE: COPIES 2 & 3

21 DISPOSAL FACILITY'S CERTIFICATION: I Hereby certify that the above described wastes were delivered to dis facility that the

CELL NO.

TRANSPORTERS CORPRA

PER LAND DISPOSAL SITE NEW MEXICO MILE MARKER #64 US HWY 62/180 • 30 MILES BAST OF CARLSBAD, NM • PHOME (575) 887-4048 LEA LAND, LLC 1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257 I. PAGE ACCOUNTY ON THE CITY STATE 6 TNRCC LD NO (7(3) 261-0000... 77010 7. NAME OR DESCRIPTION OF WASTE SHIPPED. ang and are classified, packed, marked, and labeled, and are in all respects in proper condu-al and national government regulations; including applicable state regulations, and use the PRINTED/TYPED NAME SIGNATURE TRANSPORTER (1) TRANSPORTER (2) R NAME: NAME: N TEXAS LD. NO. TEXAS LD: NO. CASE OF EMERGENCY CONTACT (a) TRANSPORTER (1): Auknowsengment of receipt of material MPAULANS AND CONTROL OF THE STATE OF THE STA PRINTED/TYPED NAME PRINTED/TYPED NAME A SUNATURE ADDRESS: PHONE: Lea Land LLC Mile Marker 64, U.S. Hwy 62/180, 575-887-4048 30 Miles East of Carlsbad NM BERMET NO. 20. COMMENTS WM-01-035 - New Mexico 21 DISPOSAL FACILITY'S CERTIFICATION: 1 Hereby certify that the above described wastes were delivered to this facility, that the facility is universed and permitted to receive such wastes. AUTOCRIZED IGNATURE

GENERAL COPPES 1 & 6

DISPOSAL SITE: COPIES 2 & 3

TRANSPORTERS CORES 4.8.5

Rockcliff Energy LLC Weights Statement - Total

Receive Date	Manifest Number	Lease Name	Weight (lbs.)	Weight (Tons)
Receive Dine	THILDU			
5/4/2018	122888	Rockcliff Transfer Line	124,520	62.26
5/4/2018	122889	Rockcliff Transfer Line	117,940	58.97
5/4/2018	122894	Rockcliff Transfer Line	39,280	19.64
5/4/2018	122895	Rockcliff Transfer Line	29,680	14.84
5/7/2018	122896	Rockcliff Transfer Line	74,000	37.00
5/7/2018	122897	Rockcliff Transfer Line	72,860	36.43
5/7/2018	122898	Rockcliff Transfer Line	129,080	64.54
5/7/2018	122899	Rockcliff Transfer Line	151,100	75.55
5/8/2018	122923	Rockcliff Transfer Line	60,880	30.44
5/8/2018	122924	Rockcliff Transfer Line	66,580	33.29
5/8/2018	122925	Rockcliff Transfer Line	134,760	67.38
5/8/2018	122926	Rockcliff Transfer Line	110,640	55.32
5/9/2018	122944	Rockcliff Transfer Line	49,080	24.54
5/9/2018	122945	Rockcliff Transfer Line	88,300	44.15
5/9/2018	122946	Rockcliff Transfer Line	51,540	25.77
5/9/2018	122947	Rockcliff Transfer Line	110,540	55.27
		TO	TALS: 1,410,780	705.39
			lbs.	Tons

Mile Market # 64 US Highway 62/180 30 miles East of Carlsbad, NM * (505) 887-4048

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

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GENERATOR: COPIES 1 & 6

NAME

1300 WEST MAIN	The second secon	MA CITY, OK 73106 • PI	HONE (405)	236-4257	Pe	rax	as
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3, COMPANY NAME Rockcliff Energy, LLC	4. ADDRESS 1801 McKinne	ey St. #1300	se on Living Spe		C-UP DATE /4/2018		
PHONE NO	CITY	STATE TX	ZIP 77010		.CC I.D. NO.		
7. NAME OR DESCRIPTION OF WASTE SHI			8. CONTAIN	NERS 9	O. TOTAL UANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID
8.4 - 4.4 4.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4				14			

Non-Regulated, Non Hazardous Waste			1	СМ		
b.						
c.						
40820 45920	37	780				
12. COMMENTS OR SPECIAL INSTRUCTIONS: ROCKCLIFF TRANSFER LINE	-10	1240	520		13. WASTE P	ROFILE NO.
737 (71.07	OPERA	ENCY OD SE	III CO	NTACT		

: 1	TOE DIVITATION TO DISCOUNTING
α	15.GENERATOR'S CERTIFICATION: I Hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC
	land the second

R	PRINTED/TYPED NAME	SIGNATURE DATE
T	16. TRANSPORTER (1)	17. TRANSPORTER (2)
A	NAME: C. & M. SERVICES	NAME:

N TEXAS I.D. NO. TEXAS I.D. NO. S LUIS IN CASE OF EMERGENCY CONTACT: IN CASE OF EMERGENCY CONTACT: P (575) 441-2880 O

PHONE NO

EMERGENCY PHONE: 19. TRANSPORTER (2): Acknowledgment of receipt of material 18. TRANSPORTER (1): Acknowledgment of receipt of material

PRINTED/TYPED NAME PRINTED/TYPED NAME

5/4/2018 SIGNATURE SIGNATURE

PHONE: ADDRESS: Mile Marker 64, U.S. Hwy 62/180, 575-887-4048 Lea Land, LLC 30 Miles East of Carlsbad, NM

F Α 20. COMMENTS PERMIT NO. C WM-01-035 - New Mexico

I 21 DISPOSAL FACILITY'S CERTIFICATION: I Hereby certify that the above described wastes were delivered to this facility, that the

I authorized and permitted to receive such wastes. T

DATE 5/4/2018 ... CELL NO.

DRIZED SIGNATURE

DISPOSAL SITE: COPIES 2 & 3

24-HOUR EMERGENCY NO.

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

JERAZZARADO)OSSAMASIUBIANASTUD	DSTI NO	122889	1. PAC	EOF_	2. TRAIL	ER NO.	<u> </u>
3. COMPANY NAME Rockdiff Energy, LLC	4. ADDRESS	ey St. # 1300		5. P	ICK-UP DATE 5/4/2018		
PHONE NO. (713) 351-0500	CITY Houston	STATE TX	770	10	NRCC I.D. NO		
7. NAME OR DESCRIPTION OF WASTE SHIPPE	D:		8. CONT	TAINERS Type	9. TOTAL QUANTITY	10. UNIT Wt/Vol.	11. TEX WASTE
Non-Regulated, Non Hazardous Wast		e e e e e e e e e e e e e e e e e e e	. 1.	СМ			
b.							
c.							
1 28 NAD 25110	<u>\</u>	4710					
12. COMMENTS OR SPECIAL INSTRUCTIONS: ROCKCLIFF TRANSFER LINE	, <u>-</u> -	11ml	 }		13. WASTE P	ROFILE N	О.
	OF CT	IP III	14	JTP A COTT	<u> </u>		
14. IN CANAME JOE ONTIVEROS	PHONE NO	RGENCY OR SPIL	L, COI	VIAUI	24-HOUR	R EMERGE	NCY NO
15. GENERATOR'S CERTIFICATION: shipping name and are classified, packed, marked, ar international and national government regulations, in	od labeled, and are i	in all respects in proper co	ondition to	er transport	by highway acc	cording to a	ipplicable
PRINTED/TYPED NAME		SIGNATURE					DATE
16. TRANSPORTER (1) NAME: C & M SERVICE:	S	17. NAME:	Tì	RANSPO	ORTER (2)		
NAME: CONTROL OF THE PARTY OF T	The state of the s	125-14113.					er i de
por Englishment and Rich all con-		TEXAS ID NO					
TEXAS I.D. NO.	LUIS	TEXAS I.D. NO. IN CASE OF EM	ERGENC	Y CONTA	.CT:		
IN CASE OF EMERGENCY CONTACT:	5) 441-2880	IN CASE OF EM	HONE:				
IN CASE OF EMERGENCY CONTACT:	5) 441-2880	IN CASE OF EM	HONE:			receipt of	material
IN CASE OF EMERGENCY CONTACT: EMERGENCY PHONE: 18. TRANSPORTER (1): Acknowledgment	5) 441-2880 of receipt of mater	IN CASE OF EM	HONE: RTER	(2): Ackn		receipt of I	material
IN CASE OF EMERGENCY CONTACT: EMERGENCY PHONE: 18. TRANSPORTER (1): Acknowledgment	5) 441-2880 of receipt of mater	IN CASE OF EMI EMERGENCY PI 19. TRANSPO	HONE: RTER	(2): Ackn	owledgment of	freceipt of t	material
IN CASE OF EMERGENCY CONTACT:	5) 441-2880 of receipt of mater	IN CASE OF EMI EMERGENCY PI 19. TRANSPO PRINTED/TYPE	HONE: RTER	(2): Ackn	owledgment of	DATE	
IN CASE OF EMERGENCY CONTACT: EMERGENCY PHONE: 18. TRANSPORTER (1): Acknowledgment	of receipt of mater do Z A DATE ADDRESS:	IN CASE OF EMI EMERGENCY PI 19. TRANSPO PRINTED/TYPE	HONE: ORTER D NAME	(2): Ackn	nowledgment of	DATE	
IN CASE OF EMERGENCY CONTACT: EMERGENCY PHONE: 18. TRANSPORTER (1): Acknowledgment PRINTED/TYPED NAME J. S. J. H. M. SIGNATURE YES J. H. M.	of receipt of mater do 2 a DATE ADDRESS: A 3	IN CASE OF EMI EMERGENCY PI 19. TRANSPO PRINTED/TYPE 5/4/2018 SIGNATURE Mile Marker 64, U	HONE: ORTER D NAME	(2): Ackn	nowledgment of	DATE	
IN CASE OF EMERGENCY CONTACT: EMERGENCY PHONE: 18. TRANSPORTER (1): Acknowledgment PRINTED/TYPED NAME Jesus Head SIGNATURE Jesus Headola. Lea Land, LLC PERMIT NO. WM-01-035 - New Mean 21. DISPOSAL FACILITY'S CERTIFIED Security is authorized and permitted to receive such	of receipt of mater do 2 a DATE ADDRESS: ADDRESS: ACCO CATION: 1 Her	IN CASE OF EMI EMERGENCY PI 19. TRANSPO PRINTED/TYPE 5/4/2018 SIGNATURE //ile Marker 64, U 0 Miles East of C 20. COMMENTS	HONE: ORTER D NAME J.S. Hw. Carlsba	(2): Ackn vy 62/1: d, NM	PHONE	DATE :: 575-8	87-404
IN CASE OF EMERGENCY CONTACT: EMERGENCY PHONE: 18. TRANSPORTER (1): Acknowledgment PRINTED/TYPED NAME J. S.W. Head SIGNATURE J. S.W. Headotta. Lea Land, LLC PERMIT NO. WM-01-035 - New Med 21. DISPOSAL FACILITY'S CERTIFIE	of receipt of mater do 2 a DATE ADDRESS: ADDRESS: ACCO CATION: 1 Her	IN CASE OF EMI EMERGENCY PI 19. TRANSPO PRINTED/TYPE 5/4/2018 SIGNATURE //ile Marker 64, U 0 Miles East of C 20. COMMENTS	HONE: ORTER D NAME J.S. Hw. Carlsba	(2): Ackn vy 62/1: d, NM	PHONE ere delivered to	DATE 575-8 this facility	87-404

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

	51.1, 51. 70.55	HONE (4	105) 236-42	257	MI	NS
THAZZAVRIDZOJUS WASTIEMMANNI DIESTIC NO	122894	1. PAG	GEOF_	2. TRAIL	ER NO.	
3. COMPANY NAME 4. ADDRESS 1301 McKinney			5. P	ICK-UP DATE 5/4/2018		
PHONE NO. (713) 351-0500 CITY	STATE TX	770		NRCC I.D. NO).	
7. NAME OR DESCRIPTION OF WASTE SHIPPED:		8. CON No.	TAINERS Type	9. TOTAL QUANTITY	10. UNIT Wt/Vol.	11, TEXA WASTE II
Non-Regulated, Non Hazardous Waste		1	CM			
c.						
* 20 300 18.98D						
12. COMMENTS OR SPECIAL INSTRUCTIONS: ROCKCLIFF TRANSFER LINE	3972	$\overline{\cap}$		13. WASTE F	PROFILE N	Ю.
14 IN CASE OF EMERGI	ENCY OR SPIL	L, CO	NTACT	J		
NAME ONTIVEROS 575-887-4048				24-HOUI	R EMERGE	NCY NO.
				biotronoù abb.		applicable EA LAND, I
PRINTED/TYPED NAME	SIGNATURE					DATE
16. TRANSPORTER (1)	SIGNATURE			ORTER (2)		on Lake, I
16. TRANSPORTER (1) NAME: C. & M. SERVICES PROMOTOR OF THE P	SIGNATURE 17. NAME:					on Lake, I
16. TRANSPORTER (1) NAME: C. & M. SERVICES TEXAS I.D. NO.	SIGNATURE	Т	RANSPO	ORTER (2)		on Lake, I
16. TRANSPORTER (1) NAME: C. & M. SERVICES. TEXAS I.D. NO. IN CASE OF EMERGENCY CONTACT: (575) 441-2880	I7. NAME: TEXAS I.D. NO. IN CASE OF EMERGENCY P	T ERGENC HONE:	RANSPO	ORTER (2)		DATE
16. TRANSPORTER (1) NAME: C. & M. SERVICES. TEXAS I.D. NO. IN CASE OF EMERGENCY CONTACT:	I7. NAME: TEXAS I.D. NO. IN CASE OF EM	T ERGENC HONE:	RANSPO	ORTER (2)		DATE
16. TRANSPORTER (1) NAME: C. & M. SERVICES TEXAS LD. NO. IN CASE OF EMERGENCY CONTACT: EMERGENCY PHONE: 18. TRANSPORTER (1): Acknowledgment of receipt of material PRINTED/TYPED NAME LUIS 18. TRANSPORTER (1): Acknowledgment of receipt of material	I7. NAME: TEXAS I.D. NO. IN CASE OF EM EMERGENCY P 19. TRANSPO	T ERGENC HONE: DRTER	RANSPO	ORTER (2)		DATE
16. TRANSPORTER (1) NAME: C. & M. SERVICES TEXAS I.D. NO. IN CASE OF EMERGENCY CONTACT: EMERGENCY PHONE: 18. TRANSPORTER (1): Acknowledgment of receipt of material PRINTED/TYPED NAME LUIS 18. TRANSPORTER (1): Acknowledgment of receipt of material	I7. NAME: TEXAS I.D. NO. IN CASE OF EM EMERGENCY P 19. TRANSPO	T ERGENC HONE: DRTER	RANSPO	ORTER (2)		DATE
16. TRANSPORTER (1) NAME: C. & M. SERVICES TEXAS I.D. NO. IN CASE OF EMERGENCY CONTACT: EMERGENCY PHONE: 18. TRANSPORTER (1): Acknowledgment of receipt of material PRINTED/TYPED NAME SIGNATURE DATE ADDRESS: Lea Land, LLC Mile	17. NAME: TEXAS I.D. NO. IN CASE OF EM EMERGENCY P 19. TRANSPO PRINTED/TYPE 20.18. Marker 64, U	THE TERMINATE OF THE TE	RANSPO	ORTER (2) ACT: nowledgment of	f receipt of a	DATE material
16. TRANSPORTER (1) NAME: C. & M. SERVICES TEXAS I.D. NO. IN CASE OF EMERGENCY CONTACT: EMERGENCY PHONE: 18. TRANSPORTER (1): Acknowledgment of receipt of material PRINTED/TYPED NAME DATE ADDRESS: Lea Land, LLC Mile 30 N	17. NAME: TEXAS I.D. NO. IN CASE OF EM EMERGENCY P 19. TRANSPO PRINTED/TYPE 2018	THE TERMINATE OF THE TE	RANSPO	ORTER (2) ACT: nowledgment of	f receipt of a	DATE
16. TRANSPORTER (1) NAME: C. & M. SERVICES TEXAS I.D. NO. IN CASE OF EMERGENCY CONTACT: EMERGENCY PHONE: 18. TRANSPORTER (1): Acknowledgment of receipt of material PRINTED/TYPED NAME SIGNATURE DATE ADDRESS: Lea Land, LLC Mile	17. NAME: TEXAS I.D. NO. IN CASE OF EM EMERGENCY P 19. TRANSPO PRINTED/TYPE 2018 SIGNATURE Marker 64, U Miles East of C	THE TERMINATE OF THE TE	RANSPO	ORTER (2) ACT: nowledgment of	f receipt of a	DATE material
16. TRANSPORTER (1) NAME: TEXAS I.D. NO. IN CASE OF EMERGENCY CONTACT: EMERGENCY PHONE: 18. TRANSPORTER (1): Acknowledgment of receipt of material PRINTED/TYPED NAME DATE ADDRESS: Lea Land, LLC PERMIT NO.	17. NAME: TEXAS I.D. NO. IN CASE OF EM EMERGENCY P 19. TRANSPO PRINTED/TYPE 20.18 Marker 64, U Ailes East of C 20. COMMENTS	ERGENC HONE: DRTER D NAME	CY CONTA (2): Acki	ORTER (2) ACT: moveledgment of PHONE 80,	DATE 3:	DATE material 87-4048

GENERATOR: COPIES 1 & 6

DISPOSAL SITE: COPIES 2 & 3

TRANSPORTERS: COPIES 4 & 5

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC 1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 14. ADDRESS 1301 McKinney St. # 1300 CITY STATE	• PHONE (405) 236-4 GEOF	257	°ΥΩΉ	fas
B. COMPANY NAME Rockdiff Energy, LLC 4. ADDRESS 1301 McKinney St. # 1300	1. PA	GE OF			<u> </u>
3. COMPANY NAME 4. ADDRESS Rackdiff Energy, LLC 1301 McKinney St. # 1300	<u> </u>	OD TOL	2. TRAII	ER NO.	10
PHONE NO. STATE		5. I	PICK-UP DATE 6/4/2018		<u> </u>
(7.13).351-0500			NRCC I.D. NC).	
7. NAME OR DESCRIPTION OF WASTE SHIPPED:	8, CON No.	TAINERS Type	9. TOTAL QUANTITY	10. UNIT Wt/Vol.	11. TEX. WASTE I
Non-Regulated, Non Hazardous Waste	ec / 1	СМ			
15,420 14,260					
12. COMMENTS OR SPECIAL INSTRUCTIONS: ROCKCLIFF TRANSFER LINE	187		13. WASTE P	ROFILE N	Ο.
4. IN CASE OF EMERGENCY OR SP	ILL, CO	TACT			<u> </u>
VAME PHONE NO JOE ONTIVEROS 575-887-4048		- :	24-HOUR	EMERGE	NCY NO.
PRINTED/TYPED NAME SIGNATURE					DATE
16. TRANSPORTER (1) 17.	Tì	RANSPO	ORTER (2)		
NAME: C & M SERVICES NAME:					
TEXAS I.D. NO. TEXAS I.D. NO.).				
IN CASE OF EMERGENCY CONTACT: IN CASE OF E	MERGENC	Y CONTA	CT:	·	
EMERGENCY PHONE: (575).441-2880 EMERGENCY 18. TRANSPORTER (1): Acknowledgment of receipt of material 19. TRANSP		(2): Ackn	owledgment of	receipt of n	naterial
5/4/2018	ED NAME				
SIGNATURE DATE SIGNATURE	<u> </u>			DATE	
Lea Land, LLC ADDRESS: Mile Marker 64, 30 Miles East of		· .	30, PHONE:	1,7	87-4048
PERMIT NO. 20. COMMENTS WM-01-035 - New Mexico		or Take			
21.DISPOSAL FACILITY'S CERTIFICATION: 1 Hereby certify that the abo	ve described	wastes we	re delivered to	this facility,	, that the
facility is authorized and permitted to receive such wastes.		-		er e	

GENERATOR: COPIES L& 6

DISPOSAL SITE: COPIES 2 & 3

TRANSPORTERS: COPIES 4 & 5

LEA LAND DISPOSAL SITE NEW MEXICO MILE MARKER #64 US WWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

	LEA LAI		HONE (4	05) 236-42	57 Pe	v071	25
(O)	HUAVZAYRID OLUS MYASTDE MYANKUPLESTI. NO	122896	1. PAC	GEOF_			09
	3. COMPANY NAME 4. ADDRESS			5. P	ICK-UP DATE		
G	Rockdiff Energy, LLC 1304 McKinney PHONE NO.	St. #4300 STATE	aran - Maya N S	ZIP 6. T	5/7/2018 NRCC I.D. NO		
E	(713).351-0500 Houston 7. NAME OR DESCRIPTION OF WASTE SHIPPED:	TX	770 8. CON No.	AD TAINERS Type	9, TOTAL QUANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID#
N	a. Non-Regulated, Non Hazardous Waste		1	СМ			
E	c.						
R	* 2000 2874D 25.25	Ω	*				
77	12. COMMENTS OR SPECIAL INSTRUCTIONS:	- M1"	ハ ス		13. WASTE I	PROFILE N	О.
(A 11,6	ROCKCLIFF TRANSFER LINE	p 741		ATITLE A CHICAL			
T	14. IN CASE OF EMERGINAME NAME PHONE NO JOE ONTIVEROS 575-887-4048	ENCY OR SPIL	L, CO	NIACI	24-HQUI	R EMERGE	NCY NO.
0	15.GENERATOR'S CERTIFICATION: I Hereby declare that shipping name and are classified, packed, marked, and labeled, and are in all international and national government regulations, including applicable states.	respects in proper Co	าเรติเมือก ส	าร เรรมรากกร	ov nigoway ac	coluing to a	(Divited Die
R	PRINTED/TYPED NAME	SIGNATURE					DATE
T R A	16. TRANSPORTER (1) NAME: C.&M.SERVICES	17. NAME:	T)	RANSPO	ORTER (2)		
N S	TEXAS I.D. NO. IN CASE OF EMERGENCY CONTACT: LUIS	TEXAS I.D. NO. IN CASE OF EM	ERGENC	Y CONTA	CT:		
P	IN CASE OF EMPLOYEE	EMERGENCY P			<u> </u>	· ·	
R T	18. TRANSPORTER (1): Acknowledgment of receipt of material	19. TRANSPO	RTER		owledgment o	freceipt of	material
E R S	PRINTED/TYPED NAME FOR VETOR	PRINTED/TYPE 20 18 6NATURE	D NAME		¥.	DATE	
	SIGNATORE	W-MONATORD_		(Har	PHONE		
D F	Eva Dalla,	e Marker 64, U			- 1		87-4048
I A S C P I	PERMIT NO. WM-01-035 - New Mexico	20. COMMENTS					
O I S I A T	21. DISPOSAL FACILITY'S CERTIFICATION: I Hereby facility is authorized and permitted to receive such wastes.	certify that the above	describe	d wastes w	ere delivered to	this facility	y, that the
L Y	AUTIORIZED SIGNATURE	CELL NO.	ar as drawalished	DA	TE 5/7/201	3 .61.	1 55 8

And Market

LEA LAND DISPOSAL SITE NEW MEXICO MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

MILE MARKER #04 US IIV					, == , , , , , , , , , , , , , , , , ,		
1300 WEST MAIN	LEA LA	ND, LLC A CITY, OK 73106 • P	HONE (4	i05) 236-42	257 D.p	101 #	<u>n</u> s
HAYAYAY BUROXOXOXOXIA BUROXOXIA BUROXIYA	IIEIRSSTE NO	122897	1. PAC	GEOF_	2. TRAIL	ER NO.	- []
3, COMPANY NAME	4. ADDRESS	الحائد الناحة		5. P	PICK-UP DATE		
Rockdiff Energy, LLC	1301 McKinney				6/7/2018		
PHONE NO.		STATE		ZIP 6. T	TNRCC I.D. NO).	
(713) 351-0500	Houston	TX	770 8. CON	110 TAINERS	9. TOTAL	10. UNIT	11. TE
7. NAME OR DESCRIPTION OF WASTE SHIP	PPED:		No.	Type	QUANTITY	₩t/Vol.	WASTE
Non-Regulated, Non Hazardous Wa	iste	المتراجع ويواري والمعتبوس أرار فواتن		. CM			
grant radionary constitutional section for the Constitution of the							
<u> </u>							
					1.0		
24.780 26.14T) 21.9.	40					
12. COMMENTS OR SPECIAL INSTRUCTION	NS:				13. WASTE P	ROFILE N	Ο.
ROCKCLIFF TRANSFER LINE		72861	<u>)</u>	<u> </u>			
14. IN.	CASE OF EMERG			NTACT			
NAME	PHONE NO				24-HOU	REMERGE	NCY NO
JOE ONTIVEROS	575-997-4048						
15.GENERATOR'S CERTIFICATIOn shipping name and are classified, packed, marked international and national government regulations.	I and labeled and are in a	all respects in proper co ate regulations, and are	ondition fo	or transport	t by highway acc	cording to a	A LANE
PRINTED/TYPED NAME		SIGNATURE					DATE
16. TRANSPORTER (1)	17.	Tì	RANSPO	ORTER (2)	 -	
NAME: C.&.M. SERVIC	`ES	NAME:					
TEXAS I.D. NO.	J. L. J. Carpage	TEXAS I.D. NO.					
IN CASE OF EMERGENCY CONTACT:	LUIS		ERGENC	Y CONTA	CT:		
	575) 441-2880	EMERGENCY PI					
EMERGENCY PHONE: (5 18. TRANSPORTER (1): Acknowledgm					nowledgment of	receipt of r	material
PRINTED/TYPED NAME / Roy La	Pkran	PRINTED/TYPE	D NAME	<u>.</u>			<u> </u>
INTRIPED I FED NAMEL 1995 to							
SIGNATURY Kapolo FI	DATE:	//2016GNATURE				DATE	
	ADDRESS:				PHONE		D# 40
Lea Land, LLC		le Marker 64, U			80,	575-8	o/-404
		Miles East of C	_arisba	u, NM			<u> </u>
PERMIT NO. WM-01-035 - New M		20. COMMENTS		4			
21.DISPOSAL FACILITY'S CERTI facility is authorized and permitted to receive so	FICATION: I Hereby uch wastes.	y certify that the above	describe	d wastes w	ere delivered to	this facility	, that the
AUTIORIZED SIGNATURE	A	CELL NO.		DA	TE	Т	TIME 1
MOTHORIZED STORMS OVE /	11			1	5/7/2018	3 1	7 31 S

GENERATOR: COPIES 1 & 6

DISPOSAL SITE: COPIES 2 & 3

TRANSPORTERS: COPIES 4 & 5

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

	LEA LAND, 1300 WEST MAIN STREET • OKLAHOMA CITY		HONE (4	05) 236-42	57 Per	040	is		
N(O)N	THE ON TESTINE MANAGEMENT NO 12	2898	1. PAC	GEOF_	2. TRAIL	ER NO.	2013		
- 1	3. COMPANY NAME 4. ADDRESS				ICK-UP DATE				
G.	Rockdiff Energy, LLC 1301 McKinney St. #				6/7/2018 NRCC LD: NO	4			
	(713) 351-0500	ana arat di							
_	7. NAME OR DESCRIPTION OF WASTE SHIPPED:	A STATE OF THE PROPERTY OF THE		TAINERS Type	9. TOTAL QUANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #		
N	a. Non-Regulated, Non Hazardous Waste		1	СМ	ZOSHTARA E		1D T		
ļ	b.								
E	C								
	d AL FOR AN AVA	\ <u>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</u>							
R	12. COMMENTS OR SPECIAL INSTRUCTIONS:	עע			13, WASTE P	ROFILE NO	0.		
A	ROCKCLIFF TRANSFER LINE	o 120	19, WASTE PROFILE NO.						
	14. IN CASE OF EMERGENC		لكستناب				<u></u>		
T	NAME PHONE NO JOE ONTIVEROS 575-887-4048				24-HOUR	EMERGEI	NCY NO.		
o	15. GENERATOR'S CERTIFICATION: 1 Hereby declare that the conshipping name and are classified, packed, marked, and labeled, and are in all respectinternational and national government regulations, including applicable state regulations.	cts in proper cor	ndition fo	r transport	by highway acc	cording to a	pplicable		
R	PRINTED/TYPED NAME SIGN	NATURE					DATE		
Т	16. TRANSPORTER (1) 17.		TF	RANSPO	RTER (2)				
R A	NAME: C. & M. SERVICES NAI	МЕ:							
N	Se de delle company e consultate de	XAS I.D. NO.							
S P	IN CASE OF EMERGENCY CONTACT: LUIS IN C	CASE OF EME	RGENC	Y CONTAC	CT:				
O R	Difference in the contract of	ERGENCY PH TRANSPO			wyledomont -f	recaint of	naterial		
T E	(I KANSPO: INTED/TYPED		(=). AUKII		.coope of th			
R S	SIGNATURE DATE: 5/7/2018					DATE	· · · · · · · · · · · · · · · · · · ·		
	ADDRESS:	· · · · · · · · · · · · · · · · · · ·			PHONE:				
D F	1	rker 64, U.		-	80,	575-88	37-4048		
I A		East of Comments	arisbac	<u>1, NM</u>					
S C P I	PERMIT NO. WM-01-035 - New Mexico	-convince 10		<u>.</u>					
O L S I A T	21.DISPOSAL FACILITY'S CERTIFICATION: I Hereby certify facility is authorized and permitted to receive such wastes.	that the above o	described	wastes we	re delivered to 1	this facility,	that the		
L Y	AUTHORIZED SIGNATURE CI	ELL NO.	enthicitives a new	DAT	E 5/7/2018	T	ME 15		

GENERATOR: COPIES 1 & 6

DISPOSAL SITE: COPIES 2 & 3

TRANSPORTERS: COPIES 4 & 5

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

	LEA LA		PHONE (4	05) 236-42	257	~11	J'S
N(O)N	ABIVANISHEN VAN SHERINAN VALERESSIE NO	122899	1. PAG	E_OF_	2. TRAII	ER NO.	OI.
G	3, COMPANY NAME 4. ADDRESS Rockcliff Energy, LLC PHONE NO. CITY (713) 361-0500 Houston	St. # 1300 STATE	z 770'	IP 6. T	5/7/2018 NRCC I.D. NO		
E	(713) 351-0500 Houston 7. NAME OR DESCRIPTION OF WASTE SHIPPED:	PART AND SECTION SECT	8. CONT	AINERS	9. TOTAL	10. UNIT	11. TEXAS
N	Non-Regulated, Non Hazardous Waste		No.	Туре СМ	QUANTITY	Wt/Vol,	WASTE ID#
40.0							
E	c.						
R	51940 475100 51	400					
	12. COMMENTS OR SPECIAL INSTRUCTIONS:				13. WASTE P	ROFILE N	Ο.
A		0 151,1	00				
T	I4. IN CASE OF EMERG NAME PHONE NO JOE ONTIVEROS 575-887-4048	ENCY OR SPIL	L, CON	TACT	24-HOUR	EMERGE	NCY NO.
o	15.GENERATOR'S CERTIFICATION: I Hereby declare that shipping name and are classified, packed, marked, and labeled, and are in al international and national government regulations, including applicable state	l respects in proper co	endition for	r transport	by highway ac	cording to a	pplicable
R	PRINTED/TYPED NAME	SIGNATURE					DATE
T R	16. TRANSPORTER (1)	17.	TR	ANSPO	ORTER (2)		
A	NAME: <u>C & M SERVICES</u>	NAME:					
N S	TEXAS I.D. NO. DI CASE OF EMERGENCY CONTACT: LUIS	TEXAS I.D. NO. IN CASE OF EMI					
P	IN CASE OF EMERGENCY CONTACT: LUIS EMERGENCY PHONE: (575) 441-2880	EMERGENCY PI		CONTA	·		
R T	18. TRANSPORTER (1): Acknowledgment of receipt of material	19. TRANSPO		2): Ackn	owledgment of	receipt of r	naterial
E R	PRINTED/TYPED NAME Sesui Hendoza	PRINTED/TYPE	D NAME				
S	SIGNATURE STATE STATE STATE STATE	2018 NATURE				DATE	<u> </u>
D F	Lea Land, LLC Address:	e Marker 64, U Viles East of C			30, PHONE		87-4048
I A S C P I	PERMIT NO. WM-01-035 - New Mexico	20. COMMENTS					
O L S I A T	21.DISPOSAL FACILITY'S CERTIFICATION: 1 Hereby facility s authorized and permitted to receive such wastes.	certify that the above	described	wastes we	re delivered to	this facility	, that the
L Y	AUTHORIZED SIGNATURE	CELL NO.		DAT	^E 6/7/2018		TME 35

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC 1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257 eraza's ANCONNEHRAVZANRIDXONUSANVANSTUBAYRARAD BUESVIR NO 1. PAGE 122923 2. TRAILER NO. 3. COMPANY NAME 5. PICK-UP DATE Rockdiff Energy, LLC 1301 McKinney St. # 1300 G 5/8/2018 PHONE NO. STATE ZIP 6. TNRCC LD. NO. (713) 351-0500 Houston TX 77010 Ė 8. CONTAINERS 9. TOTAL 10, UNIT 7. NAME OR DESCRIPTION OF WASTE SHIPPED: Wt/Vol. QUANTITY WASTE ID# No. Type N Non-Regulated, Non Hazardous Waste 4. CM E R 12. COMMENTS OR SPECIAL INSTRUCTIONS: 13. WASTE PROFILE NO. ROCKCLIFF TRANSFER LINE A IN CASE OF EMERGENCY OR SPILL, CONTACT PHONE NO 24-HOUR EMERGENCY NO. NAME T 575-987-4048 JOE ONTIVEROS 15.GENERATOR'S CERTIFICATION: I Hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable O international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC SIGNATURE DATE PRINTED/TYPED NAME R TRANSPORTER (1) 17. TRANSPORTER (2) 16. T R C & M SERVICES NAME: NAME: Ä N TEXAS I.D. NO. TEXAS I.D. NO. S LUIS. IN CASE OF EMERGENCY CONTACT: P IN CASE OF EMERGENCY CONTACT: (575) 441-2880 O EMERGENCY PHONE: EMERGENCY PHONE R (1): Acknowledgment of receipt of material 19. TRANSPORTER (2): Acknowledgment of receipt of material 18. TRANSPORTER T E PRINTED/TYPED NA PRINTED/TYPED NAME R 5/8/2018 SIGNATURE S SIGNATUR DATE ADDRESS: PHONE: Lea Land, LLC Mile Marker 64, U.S. Hwy 62/180, 575-887-4048 D F 30 Miles East of Carlsbad, NM I A 20. COMMENTS PERMIT NO. S C WM-01-035 - New Mexico I P 0 \mathbf{L} 21 DISPOSAL FACILITY'S CERTIFICATION: I Hereby certify that the above described wastes were delivered to this facility, that the S T facility is authorized and permitted to receive such wastes. T ¥ HORIZED SIGNATURE CELL NO. DATE 5/8/2018

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

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		i, ADDRESS 1301 McKinney	St. #1300	l'actorie on	5. P	ICK-UP DATE 5/8/2018			
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E	(713) 351-0608	Houston		770	10				
· · F	7. NAME OR DESCRIPTION OF WASTE SHIPPED	:		8. CONT No.	AINERS Type	9. TOTAL QUANTITY	io. UNIT Wt/Vol.	11. TEXAS WASTE ID#	
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T	14. IN CASE OF EMERGENCY OR SPILL, CONTACT NAME ONTIVEROS 575-887-4048 14. IN CASE OF EMERGENCY OR SPILL, CONTACT 24-HOUR EMERGENCY NO.								
o	15.GENERATOR'S CERTIFICATION: I shipping name and are classified, packed, marked, and international and national government regulations, inc	labeled and are in al	l respects in proper co	ndition fo	r transport	by highway acc	ording to a	pplicable	
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S P	IN CASE OF EMERGENCY CONTACT:	LUIS/	IN CASE OF EME	MERGENCY CONTACT:					
O	EMERGENCY PHONE; (575)	441-2880	EMERGENCY PH						
R T	18. TRANSPORTER (1): Acknowledgment of	f receipt of material	19. TRANSPO	RTER ((2): Ackno	owledgment of	receipt of n	naterial	
E R	PRINTED/TYPED NAME Kago in form	ام ل	PRINTED/TYPED	NAME.					
S	SIGNATURY Reg. Tin	DATE 5/8/	2018 SIGNATURE				DATE		
		ADDRESS:				PHONE:	1.5		
D F	Lea Land, LLC		Marker 64, U. Ailes East of C			80,	575-88	7-4048	
I A S C	PERMIT NO.	332	20. COMMENTS		.,				
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LY	AUTHORIZED SIGNATURE	oja sapantennoj novo spira pojeto e	CELL NO.		DAT	^E 5/8/2018	dissi /	ME }>.^>	
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MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

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G	3. COMPANY NAME Rockcliff Energy, LLC	St. #1300 STATE	ZIP	5/	-UP DATE 8/2018 CC I.D. NO		
E	7. NAME OR DESCRIPTION OF WASTE SHIPPED:		77010 8. CONTAINI No. Ty		TOTAL JANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #
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A	12. COMMENTS OR SPECIAL INSTRUCTIONS: ROCKCLIFF TRANSFER LINE	1347	W	13	. WASTE P	ROFILE N	Э.
Т	14. IN CASE OF EMERGINAME PHONE NO		L, CONTA	CT	24-HOUR	EMERGE	NCY NO.
o	15. GENERATOR'S CERTIFICATION: I Hereby declare that the shipping name and are classified, packed, marked, and labeled, and are in all international and national government regulations, including applicable states.	he contents of this co	ndition for tran	sport by	highway acc	cording to a	pplicable
R	PRINTED/TYPED NAME	SIGNATURE					DATE
T R A N S	16. TRANSPORTER (1) NAME: C & M SERVICES. TEXAS I.D. NO. LUIS	17. NAME: TEXAS I.D. NO. IN CASE OF EMP			FER (2)		
P O	IN CASE OF EMERGENCY CONTACT: EMERGENCY PHONE: (575) 441-2880	EMERGENCY PH		MIACI:			
R T E R	18. TRANSPORTER (1): Acknowledgment of receipt of material PRINTED/TYPED NAME Jesus Mendora	19. TRANSPO PRINTED/TYPEI	RTER (2):	Acknowl	edgment of	receipt of n	naterial
S	SIGNATURE JOSÍN HEADONA DATE	SIGNATURE				DATE	
D F		Marker 64, U			PHONE		37-4048
I A S C P I	PERMIT NO. WM-01-035 - New Mexico	20. COMMENTS					
O L S I A T	21.DISPOSAL FACILITY'S CERTIFICATION: 1 Hereby facility is authorized and permitted to receive such wastes.	certify that the above	described wast	es were d	elivered to	this facility	that the
LY	AUTHORIZED SIGNATURE	CELL NO.		DATE	5/8/2018		ime 35

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC 1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257 1. PAGE ___OF_ 2. TRAILER NO. 3. COMPANY NAME Rockdiff Energy, LLC 4 ADDRESS 1301 McKinney St. #.1300 CITY 6. TNRCC I.D. NO. (713).351-0500 see show regions intends the south Houston 77010 E 8. CONTAINERS 9. TOTAL 10. UNIT 11. TEXAS 7. NAME OR DESCRIPTION OF WASTE SHIPPED: QUANTITY Wt/Vol. WASTE ID# No. Non-Regulated, Non Hazardous Waste CM N E R 12. COMMENTS OR SPECIAL INSTRUCTIONS: 13. WASTE PROFILE NO. ROCKCLIFE TRANSFER LINE Α IN CASE OF EMERGENCY OR SPILL, CONTACT 24-HOUR EMERGENCY NO. PHONE NO. 048 LOE ONTIVEROS Т 15.GENERATOR'S CERTIFICATION: I Hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable O international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC SIGNATURE DATE PRINTED/TYPED NAME R TRANSPORTER (2) TRANSPORTER (1) 17. T 16. R C.&M.SERVICES NAME: NAME: Ä N TEXAS I.D. NO. TEXAS I.D. NO. S LUIS IN CASE OF EMERGENCY CONTACT: P IN CASE OF EMERGENCY CONTACT: (575) 441-2880 : 0 **EMERGENCY PHONE: EMERGENCY PHONE:** Ŕ 19. TRANSPORTER (2): Acknowledgment of receipt of material 18. TRANSPORTER (1): Acknowledgment of receipt of material T E PRINTED/TYPED NAME PRINTED/TYPED NAME R DATE 5/8/2018 SIGNATURE Š SIGNATUR ADDRESS: PHONE: Mile Marker 64, U.S. Hwy 62/180, 575-887-4048 Lea Land, LLC F D 30 Miles East of Carlsbad, NM A 20. COMMENTS PERMIT NO. C S WM-01-035 - New Mexico 1 O 21.DISPOSAL FACILITY'S CERTIFICATION: I Hereby certify that the above described wastes were delivered to this facility, that the S I facility is authorized and permitted to receive such wastes. T Y DATE 5/8/2018 TIME Coloradiana de la constante

GENERATOR COPIES 1 & 6

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

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	3, COMPANY NAME Rockcliff Energy, LLC 1301 McKinney		Listania (n. 1841).	5. P	ICK-UP DATE 5/9/2018			
	PHONE NO. (713) 351-0500 Houston	STATE TX			NRCC I.D. NC).		
E	7. NAME OR DESCRIPTION OF WASTE SHIPPED:		8, CON No.	TAINERS Type	9. TOTAL QUANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #	
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	14. IN CASE OF EMERG	ENCY OR SPIL	L, COI	NTACT				
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N S	TEXAS I.D. NO. IN CASE OF EMERGENCY CONTACT:	TEXAS I.D. NO. IN CASE OF EM						
P O	IN CASE OF EMERGENCY CONTACT: (575) 441-2880	EMERGENCY PI		John				
R T	18. TRANSPORTER (1): Acknowledgment of receipt of material	19. TRANSPO	RTER	(2): Ackn	owledgment of	receipt of 1	naterial	
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D F		e Marker 64, U Miles East of C		•	PHONE		87-4048	
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O L S I A T	21.DISPOSAL FACILITY'S CERTIFICATION: 1 Hereby facility is authorized and permitted to receive such wastes.	certify that the above	described	l wastes wo	ere delivered to		<u> </u>	
L Y	AUTHORIZED SIGNATURE	CELL NO.	erif aleria, p	DAT	^E 5/9/2016	Т	ME, 30	

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

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G		McKinney	/ St. # 1300		5.	PICK-UP I 5/9/2 0			
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É	(713):351-0500 Hous	tons 🗫		770	"	-111100 111	-1101		
	7. NAME OR DESCRIPTION OF WASTE SHIPPED:			8. CONT No.	AINERS Type	9. TOTA QUANT			11. TEXAS WASTE ID#
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A		IN	<u> </u>)			<u> </u>		
			ENCY OR SPILI	L, CON	TACT				
T	NAME JOE ONTIVEROS 575-6	NE NO 387-4048	0.5-			24-H	OUR EME	RGE	NCY NO.
0	15.GENERATOR'S CERTIFICATION: 1 Hereby shipping name and are classified, packed, marked, and labeled	t, and are in al	l respects in proper con	idition for	r transpo	rt by highwa	y according	g to a	opiicable
	international and national government regulations, including a	applicable sta	te regulations, and are i	the same	material	s previously	approved b	y LE	A LAND, LLC
R	PRINTED/TYPED NAME		SIGNATURE						DATE
Т	16. TRANSPORTER (1)		17.	TR	ANSP	ORTER	(2)		
R A	NAME: C.&M.SERVICES		NAME:						
N S	TEXAS I.D. NO.	LUS	TEXAS I.D. NO.						
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R	EMERGENCY PHONE:		EMERGENCY PHO		714				
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S	SIGNATURE DATE	and a 5/9/	2018 SIGNATURE				DATE		
	ADD	DRESS:				PHO	DNE:		
D F	Lea Land, LLC	and the second of the second	Marker 64, U.S			80,	575	5-88	7-4048
I A		30 P	Ailes East of Ca	DECELO	, INIVI	نطب			<u></u>
S C P I	WM-01-035 - New Mexico		20. COMMENTS						
O L S I A T	21 DISPOSAL FACILITY'S CERTIFICATION facility is authorized and permitted to receive such wastes.	N: I Hereby	certify that the above d	escribed	wastes w	ere delivere	d to this fac	cility,	that the
LY	AUTHORIZED SIGNATURE	person sansaga are san	CELL NO.	P icaNi ≃Haris	DA	TE 5/9/2	018	T	y 35
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MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

	1300 WEST MAIN ST	4 44	AND, LLC 4A CITY, OK 73106 • 1	HONE (405) 236-42	257 Par	04N	' 3
N(0)N	ŢijŖŶŶĸĸĸŖĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸ	EST NO	122946	1. PA	GEOF_	2. TRAII	ER NO.	
G. W.	3. COMPANY NAME Rockdiff Energy, LLC	4. ADDRESS 430/1 McKinne	ey St. #4300;	ylda sisa ing sa ing	5. P	ICK-UP DATE 5/9/2018	vart _e :	
E	PHONE NO. (7.13).351-0500	CITY	STATE			NRCC I.D. NO).	
a i Tr iografia	7. NAME OR DESCRIPTION OF WASTE SHIPPI	ED:		8, CON No.	TAINERS Type	9. TOTAL QUANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #
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ana America	12. COMMENTS OR SPECIAL INSTRUCTIONS ROCKCLIFF TRANSFER LINE					13. WASTE P	ROFILE N	O .
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T	14. IN CANAME JOE ONTIVEROS	PHONE NO	GENCY OR SPIL	L, CO	NTACT	24-HOUR	EMERGE	NCY NO.
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T	16, TRANSPORTER (1)		17.	TI	RANSPO	RTER (2)		
R A	NAME: C & M SERVICE	S	NAME:					
N S	TEXAS I.D. NO.	LUIS	TEXAS I.D. NO.					
P O	IN CASE OF EMERGENCY CONTACT:	5) 441-2880	IN CASE OF EMI		Y CONTAC	CT:		
R	EMERGENCY PHONE: 18. TRANSPORTER (1): Acknowledgment		EMERGENCY PI		(2): Ackno	owledgment of	receipt of n	naterial
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D F	Lea Land, LLC	all a firm and a second	ile Marker 64, U Miles East of C	Acres 1	•	PHONE:		37-4048
I A S C P I	PERMIT NO. WM-01-035 - New Me		20. COMMENTS					
O L	21.DISPOSAL FACILITY'S CERTIFIC facility is authorized and permitted to receive such		y certify that the above	described	wastes we	re delivered to	this facility	that the
A T L Y	facility is authorized and permitted to receive such	Wasies.			1000		- 11 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	

GENERATOR: COPIES 1 & 6

DISPOSAL SITE: COPIES 2 & 3

TRANSPORTERS: COPIES 4 & 5

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

1300 WEST M	AIN STREET • OKLAHOM	A CITY, OK 73106 • I	PHONE (4	105) 236-4	257 - 1-61	10.Z	<u> </u>	
AJ KARTERI IZVAV <i>KA</i> KĀJŪKOZO BIJVĀASVĀNIELIS	NO TESTICION	122947	1. PAG	GEOF	2. TRAII	LER NO.	01	
3. COMPANY NAME ROCKCHIEF ENERGY LLC	4. ADDRESS 1301 McKinney	y St. # 1300		5. 1	PICK-UP DATE 5/9/2018			
PHONE NO. (713) 351-050D	CITY	STATE TX	770		TNRCC L.D. NO).		
7. NAME OR DESCRIPTION OF WASTES	SHIPPED:		8, CON	TAINERS Type	9. TOTAL QUANTITY	10. UNIT	11: TEXA	
Non-Regulated, Non Hazardous	Waste		1	CM	QUARTITI	W W VOI.	WAGILI	
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12, COMMENTS OR SPECIAL INSTRUCTOR ROCKCLIFF TRANSFER LINE	TIONS:		<u>. </u>		13. WASTE P	ROFILE N	Ю.	
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NAME ONTIVEROS	576-887-4048				24-HOUR	EMERGE	NCY NO.	
16 TRANSPORTER	<u> </u>	17.	TI	RANSPO	ORTER (2)			
16. TRANSPORTER		17.	TI	RANSPO	ORTER (2)			
NAME: C&M SER	VICES.	NAME:						
TEXAS I.D. NO.	LUIS	TEXAS I.D. NO.	•					
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Lea Land, LLC	Lea Land, LLC Mile Marker 64, U.S. Hwy 62/180, 575-887-40 30 Miles East of Carlsbad, NM							
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WM-01-035 - New	Mexico							
21.DISPOSAL FACILITY'S CER		certify that the above	described	wastes we	re delivered to	this facility	that the	
facility is authorized and permitted to receive	e such wastes.	T		1				
AUTHORIZED SIGNATURE	h	CELL NO.		DAT	re 5/9/2019	T	$\stackrel{\text{IME}}{\uparrow}$ $\stackrel{\text{J}}{\downarrow}$	
	6 V 7 M / 1112	1		1	Section 1		1	

Rockcliff Energy LLC Weights Statement - Total

Receive Date	Manifest Number	Lease Name	Weight (lbs.)	Weight (Tons)
7/19/2018	125146	Rockcliff Transfer Line	138,620	69.31
7/19/2018	125147	Rockcliff Transfer Line	173,760	86.88
7/19/2018	125148	Rockcliff Transfer Line	172,040	86.02
7/19/2018	125152	Rockcliff Transfer Line	158,680	79.34
7/19/2018	125160	Rockdiff Transfer Line	77,160	38.58
		TOTA	LS: 720,260	360.13
			lbs.	Tons

LEA LAND DISPOSAL SUIE NEW MEXICO MEDICAL SUIE NEW MEXICO

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COMPANY NA/IB Ruckelle Energy, LLC Phonesio.	4 ADDRESS 1200 McKjareg: chty	and the second second		30 6. T	CE OF DATE THE CE LD NO		a .
(7 18) 38 to 080000 7. teams cir description of wasted	irlovetor intriku		8. COM	1 1 1 1 m	D TOPPALL QUANTIFY	IG UNIT	11 TEWAS WASTEID #
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WE ON VEROS	N CASE OF EMERG MIGNESO 575-987-4649	NCV OIL SPU	15,600	V.,	. 10	, Elvigleği	
LEGENERATOR'S CERTIFICAT shipping name undere classified, packed, mai international and national government regular	ION: I Fictory declare that a fixed, and labeled, and are it all tions, including applicable stat	the state of the second	onalgnatier ondfilen.if e ihe same	itais Ailly irlininspoo materials	anikastorately by highway us převičusly app	described cording do coved by L	Andreas and the second
PRINTED/TYRED NAME		SIGNATURES	ir Tein Bei	F. 1. 128			DATE
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EMERCENCY PHONE 18. TRANSPORTER (1): Accounted PRINTED TYPE O MAME TO		EMERGERICYS 10. TRANSPO PRINCIPLY PI THOMATURE	PRPER PO MAME		iowie demonit o	n Bai is al	e y
Les Land LLC	ADDRESS Mili	e Monkei 64, 9 Viles Bast of	J.S., Jilin Çarlişbir	vy 52/1 d. NM	SQ. PRON	***	187-4048
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A MANAGER SERVICES A	mez A Mar	OMLL NO.		100	A/NEZZON		Tir

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	TO THE TOTAL STATE OF THE PARTY		TURNON - OF		0.4
G ,,	Rockelit Energy, LLC. BHONE NO.	WY She Merika	A-1000 X 68	7/10/2018 ENRCCID NO.	or Avere A regn
To a	(743) 361-0500 Heuston 7. Name or description of waste supped:		77070 8 CONTADIBAS No. Type	9 TOTAL 10 C	
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A.	12, COMMUNIS OR SHECKAL INSTRUCTIONS: ROCKGLIFF THANSFER LINE:	WAR THE	des hans	13 WASTES BROEF	
	IA IN CASE OF PAYERS	ency or spir	***	ZAĘJOĽA KAŬI	ROBROT NO.
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io Ra T	EMBROWNICY PHONE (575) 44 1-2880 TRANSPORTER (1) i Asknowledgment distribution in the constraint of th	L EMBRGENCY P	RIEBR (Z)PAGE	nowiedgment of Teled	is de material
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LEA LAND DISPOSAL SITE NEW MEXICO MILE MARKER 264-187 BWY 62/280 - 2014/ILES EAST OF CARLESBAD, DIA-7240/18 (5757) 887-40/49

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CHENTRATOR COPIES 1 & 6

DISPOSAL SITE, COPIES 2 & 3

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