

Jason Michelson Project Manager Chevron Environmental Management Company 1500 Louisiana Street, #38116

Houston, Texas 77002 Work: 832-854-5601 Cell: 281-660-8564 jmichelson@chevron.com

May 30, 2019

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

Re: Candelario 24 #1 SWD Battery Site Deferral Request NMOCD Case No. 2RP-4201 Eddy County, New Mexico

Dear whom it concerns,

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

- Candelario 24 #1 SWD Battery May 30, 2019 Site Deferral Letter
- Candelario 24 #1 Remediation Closure Report (Sounder Miller and Associates (SMA) Report)

The Report was prepared by SMA on behalf of Rockcliff Operating New Mexico LLC and previously submitted to the New Mexico Oil Conservation District (NMOCD) on September 27, 2018. Chevron acquired the lease for this well location in October 2018.

The Site Deferral Request was prepared by Arcadis U.S., Inc. (Arcadis) on behalf of Chevron Environmental Management Company (CEMC). A review of NMOCD online records did not identify an NMOCD response to the SMA report. The referenced well and facilities are slated for abandonment. CEMC is requesting written NMOCD approval for deferral of additional site remediation activities until the well is plugged and associated facilities are abandoned.

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,

Encl. Candelario 24 #1 SWD - Site Deferral Letter

Candelario 24 #1 Remediation Closure Report (SMA Report)

C.C. Brett Krehbiel, Arcadis

ason Michelson



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 3530 Fax 720 344 3535 www.arcadis.com

Subject:

Site Deferral Request
Candelario 24 #1 SWD Battery
NMOCD Case No. 2RP-4201
Eddy County, New Mexico

Dear Mr. Hamlet:

On behalf of Chevron Environmental Management Company (CEMC), Arcadis U.S., Inc. (Arcadis) prepared this Site Deferral Request (Request) for the Candelario 24 #1 well, API No. 30-015-26536, located in Eddy County, New Mexico. Rockcliff Operating New Mexico LLC (Rockcliff), the previous owner of this well, notified the New Mexico Oil Conservation District (NMOCD) of a release on May 9, 2017 (2RP-4201). On behalf of Rockcliff, Sounder Miller and Associates (SMA) submitted a report documenting initial cleanup activities, dated September 27, 2018 (Attachment 1). The purpose of this request is to provide a brief summary of the SMA report, and to request written confirmation of deferral from the NMOCD.

ENVIRONMENT

Date:

May 30, 2019

Contact:

Rebecca Andresen

Phone:

206-726-4717

Email

Rebecca.Andresen@arcadis .com

Our ref:

B0049810.0000

SITE DESCRIPTION AND BACKGROUND

The following Site description and background section provides an overview of the Site location and description, as well as the investigation that was conducted on May 9, 2017 through September 15, 2018.

The Site is located approximately two (2) miles east of Loving, New Mexico. The site is in Unit D, Section 24, Township 23S, Range 28E, Eddy County, New Mexico, on private land.

On May 9, 2017, a release was discovered at the Site due to equipment failure of a one-inch ball valve on the triplex pump. The produced water was contained inside the earthen firewall. Initial response included Rockliff personal shutting off

the triplex pump to replace the one-inch valve and coordinate with a vacuum truck to remove standing fluids. Approximately 25 bbls were recovered and disposed of at an NMOCD approved facility. Rockcliff coordinated and submitted the initial C-141 form with Ms. Weaver at NMOCD.

On March 28, 2018, SMA collected two (2) soil borings within the bermed tank battery. A total of seven (7) samples were collected for laboratory analysis for total chloride using EPA Method 300.0. A total of five (5) soil samples were collected for 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.

Results of the soil investigation indicated that chloride impacts extend to between 5 and 14 feet deep. Impacted soil was excavated and removed to a depth of 4 feet below ground surface (bgs). After the initial excavation, Rockcliff constructed a new SWD facility between August 13, 17, and 23, 2018. The new tank battery is located over the former site and encompasses a smaller area with a liner.

Composite sidewall samples were collected by SMA from the boundaries of the old facility after the new facility was constructed. Confirmation samples were comprised of five-point composites of the walls (SW1 – SW10). The laboratory results for the confirmation samples indicate that impacts extend beyond the excavation (and former tank battery footprint). The new tank battery had been completed in the area requiring additional remediation, the SMA report requested deferral of further remediation until the well is no longer in use and the facilities are removed. A written response from the NMOCD was not found in available files for this site.

This letter is to renew the request for a deferral until the wells and facility are abandoned. Once the Site has been abandoned, further investigations will be completed. SMA's closure report is included in Attachment 1.

If you have any questions or comments, please contact Rebecca Andresen at 206.726.4717 or by email at rebecca.andresen@arcadis.com.

Sincerely,

Arcadis U.S., Inc.

Rebecca Andresen

Vice President

Mr. Rob Hamlet May 30, 2019

Copies: Jason Michelson, Chevron/ CEMC Brett Krehbiel, Arcadis

Enclosures:

Attachments

1 Souder, Miller & Associates Remediation Closure Report



September 27, 2018

#5E26934-BG5

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

SUBJECT: Remediation Closure Report for the Candelario #1 SWD Release (2RP-4201), Eddy County, New Mexico

Dear Mr. Bratcher:

On behalf of Rockcliff Operating New Mexico LLC (Rockcliff), Souder, Miller & Associates (SMA) has prepared this Remediation Closure Report that describes the remediation of a release of liquids related to oil and gas production activities at the Candelario #1 SWD site. The site is in Unit D, Section 24, Township 23S, Range 28E, Eddy County, New Mexico, on private land. Figure 1 illustrates the vicinity and site location on an USGS 7.5-minute quadrangle map.

Table 1 summarizes release information and closure criteria.

	Table 1: Release Information	on and Closure C	riteria				
Name	Candelario #1 SWD	Company	Rockcliff Operating New Mexico LLC				
API Number	30-015-26536	Location	32.292740 -104.047156				
Incident Number		2RP-4201					
Estimated Date of Release	May 9, 2017	Date Reported to NMOCD	May 9, 2017				
Land Owner	Private (Mosaic Potash)	Reported To	NMOCD District II				
Source of Release	Equipment Failure (Ball Valve washed	out on Triplex Pur	mp)				
Released Volume	30 bbls	Released Material	Produced Water				
Recovered Volume	25 bbls	Net Release	5 bbls				
NMOCD Closure Criteria	<50 feet to groundwater	·					
SMA Response Dates	3/28/2018, 8/13/2018, 8/17/2018, 8/23/	/2018, 9/15/2018					

1.0 Background

On May 9, 2017, a release was discovered at the Candelario #1 SWD site due to equipment failure. The 1-inch ball valve on the triplex pump washed out, causing the pump to fail and approximately 30 bbl of produced water to release within the earthen firewall. Initial response activities were conducted by Rockcliff, and included source elimination with the installation of a new valve and containment and site stabilization activities via a vacuum truck to remove standing fluids. These activities recovered

approximately 25 barrels of fluid which was hauled to and disposed of at an NMOCD approved facility. Figure 1 illustrates the site vicinity and wellhead protection area, Figure 2 illustrates surface water and other ranking criteria within a 300-foot radius in the vicinity, and Figure 3 illustrates the site and sample locations. The initial and final C-141 form is included in Appendix A.

2.0 Site Information and Closure Criteria

The Candelario #1 SWD is located approximately two (2) miles east of Loving, New Mexico on privately-owned land. As summarized in Table 2 and illustrated in Figure 1, depth to groundwater in the area is estimated to be 29 feet below grade surface (bgs). There are five known water sources within ½-mile of the location, according to the New Mexico Office of the State Engineer (NMOSE) online water well database (https://gis.ose.state.nm.us/gisapps/ose_pod_locations/; accessed 9/12/2018). The nearest surface water is the Pecos River located approximately 1340 feet to the northeast of the location.

Based on the information presented herein, the applicable NMOCD Closure Criteria for this site is for a groundwater depth of less than 50 feet bgs. Table 2 demonstrates the Closure Criteria applicable to this location. Pertinent well data is attached in Appendix B.

3.0 Release Characterization Activities and Findings

On March 28, 2018, SMA personnel arrived on site in response to the release associated with Candelario #1 SWD. SMA performed site delineation activities by collecting soil samples from two (2) soil borings within the bermed tank battery.

Soil boring locations (B1 and B2) were investigated using a hollow-stem auger drill rig, to depths of 19 and 24 feet bgs. A minimum of three samples were collected at each sampling location. A total of 7 samples were collected for laboratory analysis for total chloride using EPA Method 300.0; and five samples were collected for laboratory analysis of benzene, toluene, ethylbenzene and total xylenes (BTEX) using EPA Method 8021B; and motor, diesel and gasoline range organics (MRO, DRO, and GRO) by EPA Method 8015D. Table 3 itemizes the samples and field as well as identifying any variances from the typical specification of two samples per boring. Locations of the soil borings are depicted on Figure 3.

Laboratory samples were collected in accordance with the sampling protocol included in Appendix C. Samples were placed into laboratory supplied glassware, labeled, and maintained on ice until delivery to Hall Environmental Analysis Laboratory in Albuquerque, New Mexico (Appendix D).

Visual observations indicated that the impacted area was within the footprint of the tank battery (an area approx. 120 by 80). Results of the soil investigation indicated that chloride impacts extended to between 5 and 14 feet deep.

SMA and Rockcliff determined that, based upon the results, an effective remediation and source removal would be the re-building of the battery containment, which included excavation to 4 feet bgs and removal of contaminated soil (including the earthen berms) in the impacted area, as well as the placement of a liner. A downsized and upgraded containment was constructed within the former tank battery (Figure 3). Photos are included in Appendix C.

4.0 Soil Remediation Summary

SMA returned to the site periodically to oversee the excavation of contaminated soil and construction of the new facility (August 13, 17 and 23, 2018). After the construction of the new containment was

completed and all impacted materials from within the previous containment to a depth of four feet was disposed of, composite sidewall samples were collected from the boundaries of the old facility. NMOCD was notified on September 13, 2018 that closure samples were expected to be collected in two (2) business days.

The confirmation samples were collected from within the excavation in accordance with the sampling protocol included in Appendix C. Confirmation samples were comprised of five-point composites of the walls (SW1 – SW10). However, upon receipt of the laboratory results for the confirmation samples, it appears that impacts extend beyond the excavation (and former tank battery footprint) extents. SMA believes these impacts could be due to a historic release not associated with this RP. Further, SMA believes that the impacts of the current release have been effectively remediated with the placement of an impregnated bentonite liner across the former tank battery area, and a new tank battery with a polyurethane liner in the smaller footprint. This report serves as documentation of the impacted material that was removed and disposed of during the course of construction and of the placement of a liner over the previous and current battery containment areas.

To address the historic release impacts, SMA recommends further lateral remediation of the previous facility's boundary occur during final reclamation activities at the facilities.

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

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

5.0 Scope and Limitations

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

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

Submitted by: SOUDER, MILLER & ASSOCIATES

Reviewed by:

Melodie R. Sanjari Staff Scientist

M. Janyan

Shawna Chubbuck Senior Scientist

Shawna Chubbuck

ATTACHMENTS:

Figures:

Figure 1: Vicinity and Well Head Protection Map

Figure 2: Surface Water Map

Figure 3: Site and Sample Location Map

Tables:

Table 2: NMOCD Closure Criteria Justification

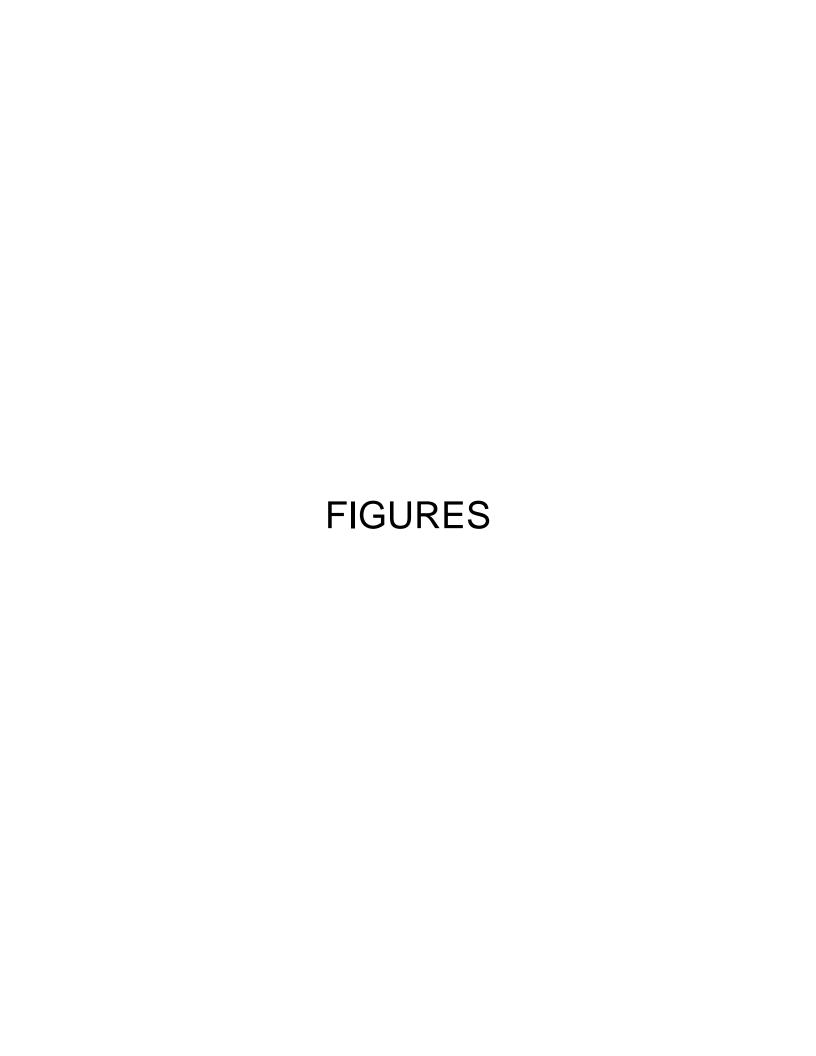
Table 3: Summary of Sample Results

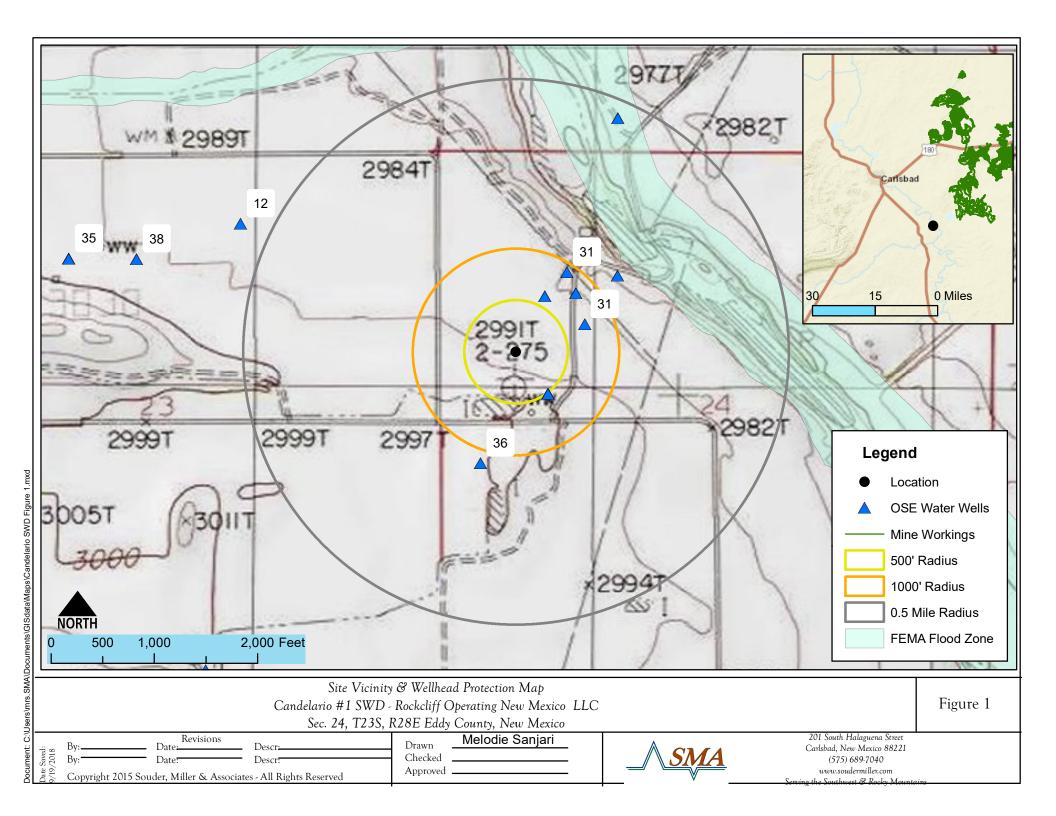
Appendices:

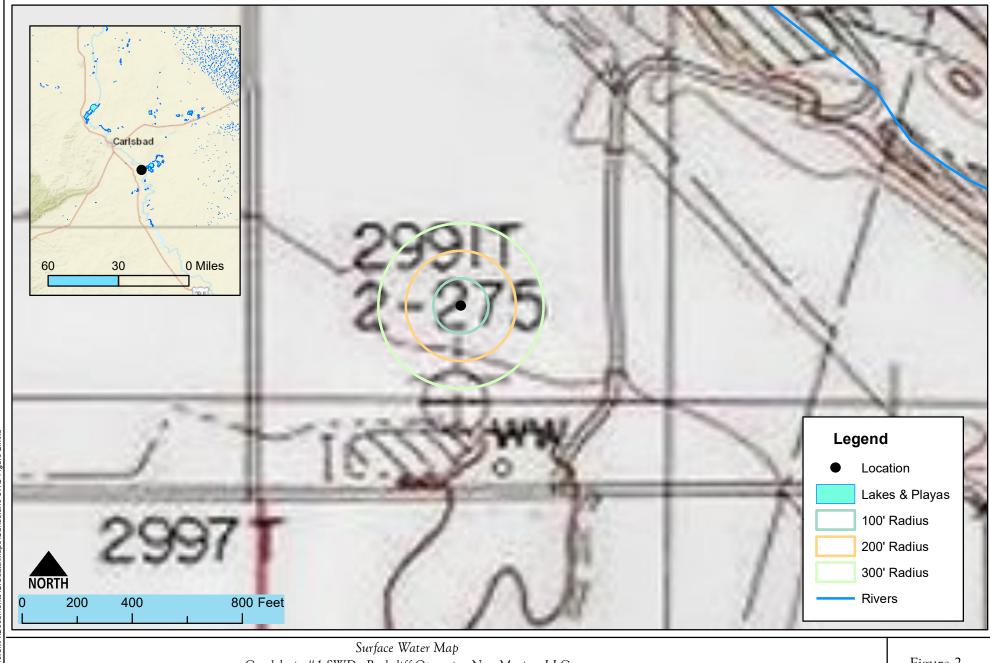
Appendix A: Form C141

Appendix B: NMOSE Wells Report

Appendix C: Sampling Protocol and Photo Log Appendix D: Laboratory Analytical Reports







Candelario #1 SWD - Rockcliff Operating New Mexico LLC Sec. 24, T23S, R28E Eddy County, New Mexico

Figure 2

Revisions Descr: Date: Copyright 2015 Souder, Miller & Associates - All Rights Reserved

Melodie Sanjari Drawn Checked Approved



201 South Halaguena Street Carlsbad, New Mexico 88221 (575) 689-7040 www.soudermiller.com



Candelario #1 SWD - Rockcliff Operating New Mexico LLC Sec. 24, T23S, R28E Eddy County, New Mexico

Melodie Sanjari Drawn Descr: Date: Checked Approved Copyright 2015 Souder, Miller & Associates - All Rights Reserved



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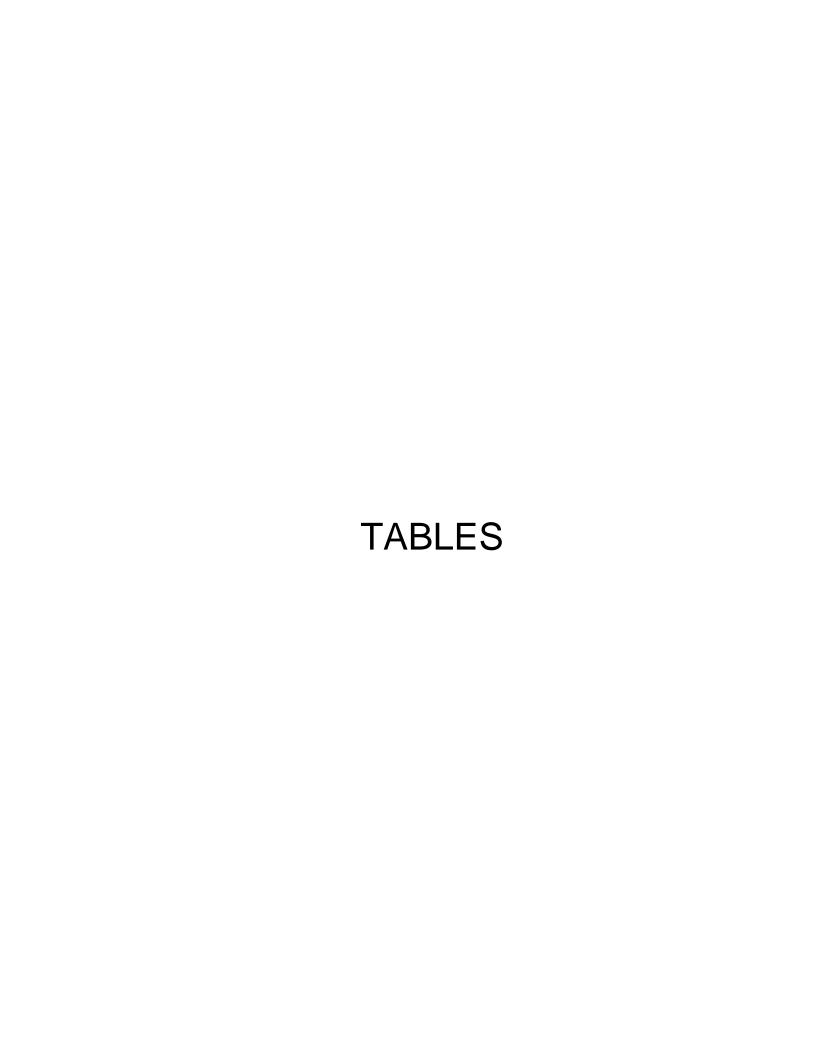


Table 2: NMOCD Closure Criteria

Site Information (19.15.29.11.A(2, 3, and 4) NMA(C)	Source/Notes
Depth to Groundwater (feet bgs)	29	OSE
Hortizontal Distance From All Water Sources Within 1/2 Mile (ft)	1342, 5 OSE Wells	USGS 7.5 Quad., Refer to Append. B
Hortizontal Distance to Nearest Significant Watercourse (ft)	1342	Pecos River

Closure Criteria (19.15	29 12 B(4) and	Table 1 NMAC)				
Closure Citteria (13.13	.23.12.D(4) and	· · · · · · · · · · · · · · · · · · ·	ure Criteria	(units in m	ng/kg)	
Depth to Groundwater		Chloride *numerical limit or background, whichever is greater	ТРН	GRO + DRO	BTEX	Benzene
< 50' BGS	х	600	100		50	10
51' to 100'		10000	2500	1000	50	10
>100'		20000	2500	1000	50	10
Surface Water	yes or no		if yes	s, then		
<300' from continuously flowing watercourse or other significant watercourse? <200' from lakebed, sinkhole or playa lake? Water Well or Water Source	no no	-				
<500 feet from spring or a private, domestic fresh water well used by less than 5 households for domestic or stock watering purposes? <1000' from fresh water well or spring?	no yes					
Human and Other Areas	,	600	100		50	10
<300' from an occupied permanent residence, school, hospital, institution or church?	no					
within incorporated municipal boundaries or within a defined municipal fresh water well field?	no					
<100' from wetland?	no					
within area overlying a subsurface mine	no					
within an unstable area?	no					
within a 100-year floodplain?	no					

Table 3: Summary of Sample Results

Sample ID	Sample Date	Depth (feet bgs)	Action Taken/ Proposed	BTEX mg/Kg	Benzene mg/Kg	GRO mg/Kg	DRO mg/Kg	GRO + DRO mg/Kg	MRO mg/Kg	Total TPH mg/Kg	Cl- mg/Kg
	NMOCD CI	osure Criteria		50	10			1000		100	600
	3/28/2018	5	In-Situ	<0.095	<0.024	<4.8	<9.6	<14.4	<48	<62.4	1900
B1	3/28/2018	9	In-Situ	<0.098	<0.025	<4.9	<10	<14.9	<50	<64.9	450
PI	3/28/2018	14	In-Situ	1		-	1	1	1		130
	3/28/2018	19	In-Situ	<0.092	<0.023	<4.6	<9.9	<14.5	<50	<64.5	300
D 2	3/28/2018	surface	excavated								7600
B2	3/28/2018	14	In-Situ	<0.096	<0.024	<4.8	<10	<14.8	<50	<64.8	920
	3/28/2018	24	In-Situ	<0.096	<0.024	<4.8	<9.7	<14.5	<48	<62.5	180
SW1	9/15/2018		In-Situ								600
SW2	9/15/2018		Deferral	1		1	1	1	1		860
SW3	9/15/2018		Deferral			-	-	-			870
SW4	9/15/2018		In-Situ								630
SW5	9/15/2018	sidewall	Deferral								670
SW6	9/15/2018		Deferral	1		-	-	-	-		1300
SW7	9/15/2018		Deferral			-	-	-			3300
SW8	9/15/2018		Deferral	-							1900
SW9	9/15/2018		Deferral	-							1600
SW10	9/15/2018		Deferral								2900

⁻⁻ Not Analyzed

APPENDIX A FORM C141

NM OIL CONSERVATION

ARTESIA DISTRICT

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

State of New Mexico
Energy Minerals and Natural Resources

MAY 09 2017

Form C-141 Revised April 3, 2017

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe. NM 87505 Submit 1 Copy to appropriate District Office in RECEIVED Coordance with 19.15.29 NMAC.

Santa	re, NM 8/303
Release Notificati	on and Corrective Action
NAB1113157779	OPERATOR Initial Report Final Report
Name of Company Longues Green 37/1/5	Contact Soverney Soves
Address 1301 HALK: May Surte 1200 Hauston tx 940	
Facility Name CAMARIANO THE LAND DATION	Facility Type SW
Surface Owner Masaic lot sa Mineral Owner	MOSAGE 1844 API No. 30. 015, 24536
LOCATI	ON OF RELEASE
Unit Letter Section Township Range Feet from the	ph/South Line Feet from the East/West Line County
24 235 286	4980' 660' EDDY
Latitude_32.292745	Longitude NAD83
NATUR	E OF RELEASE
Type of Release QV	Volume of Release 30 Volume Recovered 25
Source of Release TANK & AN OFF	Date and Hypto Chartesco (000) Date and Hypto Discostly 1000
Was Immediate Notice Given? Yes ☐ No ☐ Not Requir	If YES, To Whom? May 9, 2017 May 9, 2017
	COSTAC WINNES
By Whom? Townshop Sous	If YES, Volume Impacting the Watercourse.
☐ Y⇔ ☐ No	11 110, Volume disposing the Wallstone
If a Watercourse was Impacted, Describe Fully.*	
• ••	
Describe Cause of Problem and Remedial Action Taken.	
the color was bother such years	not pump off
7 11-2 11-12 13-2-3-11 00 11-1	
Describe Area Affected and Cleanup Action Taken.*	
carl was constitued enside fremon, was	touck came to beatlan to such ly from growt
& howled to Gogosar. Inchar went It	while it also dranged out
of Admirance to polygon in a ten to the time to	
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 releas	so notifications and perform corrective actions for releases which may endanger
	the NMOCD marked as "Final Report" does not relieve the operator of liability
	diste contamination that pose a threat to ground water, surface water, human health at does not relieve the operator of responsibility for compliance with any other
federal, state, or local laws and/or regulations.	
٨٥ -	OIL CONSERVATION DIVISION
Signature:	
Signature:	A
Printed Name: JONATHON 3013.5	Approved by Environmental Specialist:
Title: Fire FORMAN	Approval Date: 5 0 17 Expiration Date: NA
•	
E-mail Address: JONATHON SALK @ COCKENSE energy &	Conditions of Approval:
Date: 9 May 299 Phone 575.317.1198	I see attached
Attach Additional Sheets If Necessary	2RP- 4201
	ATY - A W

Operator/Responsible Party.

The OCD has received the form C-141 you provided on 5/9/17 regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number ARP-420/ 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 II office in Artesia on or before 6/9/17. 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

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-		Q	Q	Q							Depth	Depth	Water
POD Number	Code basin	County	64	16	4 :	Sec	Tws	Rng	Х	Y	Distance	Well	Water	Column
<u>C 00500</u>	CUB	ED	4	3	1	24	23S	28E	589811	3573176* 🌕	143	130		
C 00868	CUB	ED	4	3	1	24	23S	28E	589811	3573176* 🌕	143	190		
C 03965 POD4	CUB	ED		1	4	24	23S	28E	589918	3573381 🌍	224	40	31	9
C 03965 POD5	CUB	ED	4	1	1	24	23S	28E	589864	3573534 🌍	292	35	31	4
<u>C 03146</u>	С	ED	1	1	3	24	23S	28E	589613	3572970* 🌍	329	82	36	46
C 01102	С	ED		1	2	23	23S	28E	588901	3573672* 🌍	902	100	12	88

Average Depth to Water: 27 feet

Minimum Depth: 12 feet

Maximum Depth: 36 feet

Record Count: 6

UTMNAD83 Radius Search (in meters):

Easting (X): 589715.9 Northing (Y): 3573283 Radius: 1000

APPENDIX C SAMPLING PROTOCOL & PHOTO LOG



Sampling Protocol

Representatives from SMA chose the Judgmental Sampling Method as described in EPA's Final Sampling Guidance for SW-846, 2002 to adequately quantify contaminant concentrations on the Candelario SWD #1 Location. The utility of this particular method functions on the sufficient knowledge of the contaminant, which we possess. This design is also useful when identifying the composition of a release, which we have documented. In addition, this sampling design was chosen for this project because of the locations uniform soil type, the release being contained within a bermed area thus reducing the possibility of migration, and the several operational considerations (such as the liner within the battery and the construction of a new facility) that precluded the implementation of a different statistical design.

The soil samples were collected in laboratory supplied containers in accordance with this sampling protocol, immediately placed on ice and sent under standard chain-of-custody protocols to Hall Environmental Analysis Laboratory (HEAL) in Albuquerque, New Mexico for analysis. A total of fourteen (14) 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.

Sampling Analysis Field Quality Assurance Procedures

A unique sample numbering was used to identify each sample collected and designated for on-site and off-site laboratory analysis. The purpose of this numbering scheme was to provide a tracking system for the retrieval of analytical and field data on each sample. Sample identification numbers were recorded on sample labels or tags, field notes, chain-of-custody records (COC) and all other applicable documentation used during the project. Sample labels were affixed to all sample containers during sampling activities. Information was recorded on each sample container label at the time of sample collection. The information recorded on the labels were as follows: sample identification number; sample type (discrete or composite); site name and area/location number; analysis to be performed; type of chemical preservative present in container; date and time of sample collection; and sample collector's name and initials. All samples were packed in ice in an approved rigid body container, custody sealed signed and shipped to the appropriate laboratory via insured currier service.

COC procedures implemented for the project provided documentation of the handling of each sample from the time of collection until completion of laboratory analysis. A COC form serves as a legal record of possession of the sample. A sample is considered to be under custody if one or more of the following criteria are met: the sample is in the sampler's possession; the sample is in the sampler's view after being in possession; the sample was in the sampler's possession and then was placed into a locked area to prevent tampering; and/or the sample is in a designated secure area. Custody was documented throughout the project field sampling activities by a chain-of custody form initiated each day during which samples are collected. Container custody seals placed on either individual samples or on the rigid body container were used to ensure that no sample tampering occurs between the time the samples are placed into the containers and the time the containers are opened for analysis at the laboratory. Container custody seals were signed and dated by the individual responsible for completing the COC form contained within the container.



Open excavation facing North on the West side of the battery



Open excavation of the east side of the battery, facing north.



Northside of battery, open excavation facing east



New containment installation and remainder of nortwest excavation, facing south

APPENDIX D LABORATORY ANALYTICAL REPORTS



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

September 24, 2018

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

TEL: (575) 689-7040

FAX

RE: Candelario SWD OrderNo.: 1809997

Dear Austin Weyant:

Hall Environmental Analysis Laboratory received 10 sample(s) on 9/18/2018 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

Lab Order: 1809997

Date Reported: 9/24/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Lab Order: 1809997

Project: Candelario SWD

Analyses

Collection Date: 9/15/2018 9:30:00 AM Lab ID: 1809997-001

Client Sample ID: SW1 Matrix: SOIL

PQL Qual Units DF Date Analyzed **Analyses** Result **Batch ID**

EPA METHOD 300.0: ANIONS Analyst: smb

Chloride 600 30 20 9/19/2018 3:40:41 PM 40442 mg/Kg

Lab ID: 1809997-002 **Collection Date:** 9/15/2018 9:50:00 AM

Client Sample ID: Matrix: SOIL SW2

PQL Qual Units DF Date Analyzed Analyses Result **Batch ID**

EPA METHOD 300.0: ANIONS Analyst: smb Chloride 860 30 mg/Kg 20 9/19/2018 3:53:05 PM 40442

Lab ID: 1809997-003 **Collection Date:** 9/15/2018 10:37:00 AM

Matrix: SOIL Client Sample ID: SW3

Result POL Qual Units DF Date Analyzed Analyses **Batch ID**

EPA METHOD 300.0: ANIONS Analyst: smb Chloride 870 30 mg/Kg 9/19/2018 4:30:18 PM 40442

Collection Date: 9/15/2018 10:15:00 AM Lab ID: 1809997-004

Result

Matrix: SOIL Client Sample ID: SW4

EPA METHOD 300.0: ANIONS Analyst: smb

POL Qual Units

Chloride 630 30 20 9/19/2018 4:42:42 PM mg/Kg 40442

Lab ID: 1809997-005 **Collection Date:** 9/15/2018 11:01:00 AM

Client Sample ID: SW5 Matrix: SOIL

Analyses Result PQL Qual Units DF Date Analyzed **Batch ID**

EPA METHOD 300.0: ANIONS Analyst: smb

Chloride 670 30 20 9/19/2018 4:55:06 PM 40442 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
- Η Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- Analyte detected in the associated Method Blank
- Ε Value above quantitation range
- J Analyte detected below quantitation limits

Page 1 of 3 Sample pH Not In Range

DF Date Analyzed

Batch ID

- P
- RL Reporting Detection Limit

Lab Order: **1809997**

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 9/24/2018

	Souder, Miller & Associates Candelario SWD				L	ab C	order:	180999	97	
Lab ID:	1809997-006		С	ollecti	on Date	: 9/1	5/2018 11:5	50:00 A	M	
Client Sample ID:	s SW6				Matrix	: SC	OIL			
Analyses		Result	PQL	Qual	Units	DF	Date Anal	yzed	Bat	ch ID
EPA METHOD 30	0.0: ANIONS							Ana	lyst: I	MRA
Chloride		1300	75		mg/Kg	50	9/20/2018 4	l:39:19 F	PM ·	40442
Lab ID:	1809997-007		C	ollecti	on Date	: 9/1	5/2018 11:2	26:00 A	M	
Client Sample ID:	s SW7				Matrix	: SC	OIL			
Analyses		Result	PQL	Qual	Units	DF	Date Anal	yzed	Bat	ch ID
EPA METHOD 30	0.0: ANIONS							Ana	lyst: I	MRA
Chloride		3300	150		mg/Kg	100	9/20/2018 3	3:37:17 F	PM ·	40442
Lab ID:	1809997-008		C	ollecti	on Date	: 9/1	5/2018 11:4	10:00 A	M	
Client Sample ID:	s SW8				Matrix	: SC	OIL			
Analyses		Result	PQL	Qual	Units	DF	Date Anal	yzed	Bat	ch ID
EPA METHOD 30	0.0: ANIONS							Ana	lyst: I	MRA
Chloride		1900	75		mg/Kg	50	9/20/2018 4	l:51:43 F	PM ·	40442
Lab ID:	1809997-009		C	ollecti	on Date	: 9/1	5/2018 12:2	20:00 P	M	
Client Sample ID:	: SW9				Matrix	: SC	OIL			
Analyses		Result	PQL	Qual	Units	DF	Date Anal	yzed	Bat	ch ID
EPA METHOD 30	0.0: ANIONS							Ana	lyst: I	MRA
Chloride		1600	75		mg/Kg	50	9/20/2018 5	5:04:07 F	PM ·	40463
Lab ID:	1809997-010		С	ollecti	on Date	: 9/1	5/2018 12:4	45:00 P	M	
Client Sample ID:	s SW10				Matrix	: SC	OIL			
Analyses		Result	PQL	Qual	Units	DF	Date Anal	yzed	Bat	ch ID
EPA METHOD 30 Chloride	0.0: ANIONS	2900	150		mg/Kg	100) 9/20/2018 ⁴		•	MRA 40463

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

Page 2 of 3

- 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#: **1809997**

24-Sep-18

Client: Souder, Miller & Associates

Project: Candelario SWD

Sample ID MB-40442 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 40442 RunNo: 54284

Prep Date: 9/19/2018 Analysis Date: 9/19/2018 SeqNo: 1796190 Units: mg/Kg

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

Chloride ND 1.5

Sample ID LCS-40442 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 40442 RunNo: 54284

Prep Date: 9/19/2018 Analysis Date: 9/19/2018 SeqNo: 1796191 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 95.9 90 110

Sample ID MB-40463 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 40463 RunNo: 54284

Prep Date: 9/19/2018 Analysis Date: 9/19/2018 SeqNo: 1796243 Units: mg/Kg

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

Chloride ND 1.5

Sample ID LCS-40463 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 40463 RunNo: 54284

Prep Date: 9/19/2018 Analysis Date: 9/19/2018 SeqNo: 1796244 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

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

_ _

Page 3 of 3



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87105 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.con

Sample Log-In Check List

Client Name: SMA-CARLSE	3AD Work Order Nur	nber: 1809997		RoptNo:	1
Received By: Jazzmine Bu	rkhead 9/18/2018 8:40:00) AM	Jagar Brekhad		
Completed By: Ashley Galle		3 AM	A		
Reviewed By:	09/18/18	lab	eled	by: Ex	M9/18/18
Chain of Custody				·V	
1. Is Chain of Custody complete	9?	Yes 🗹	No 🗆	Not Present	
2. How was the sample delivere	d?	Courier			
<u>Log In</u>					
3. Was an attempt made to cool	I the samples?	Yes 🗸	No 🗌	NA 🗆	
4. Were all samples received at	a temperature of >0° C to 6.0°C	Yes 🗹	No 🗆	na 🗆	
5. Sample(s) in proper contained	r(s)?	Yes 🗹	No 🗌		
6. Sufficient sample volume for i	ndicated test(s)?	Yes 🗹	No 🗌		
7. Are samples (except VOA and	d ONG) properly preserved?	Yes 🗹	No 🗌		
8. Was preservative added to bo	ottles?	Yes	No 🔽	NA 🗆	
9. VOA vials have zero headspa	ce?	Yes 🗌	No 🗆	No VOA Vials 🗹	/
0. Were any sample containers		Yes	No 🗹	# of preserved	<u></u>
1. Does paperwork match bottle (Note discrepancies on chain		Yes 🗹	No 🗆	bottles checked for pH:	12 unless noted)
2. Are matrices correctly identifie	• ,	Yes 🗸	No 🗀	Adjusted?	
3. Is it clear what analyses were	requested?	Yes 🗹	No 🗆		
4. Were all holding times able to (If no, notify customer for auth		Yes 🗹	No 🗆	Checked by:	
Special Handling (if applic	·				
15. Was client notified of all discr		Yes 🗌	No 🗀	NA 🗹	
Person Notified: By Whom: Regarding: Client Instructions:	Date Via:	• • • • • • • • • • • • • • • • • • •	Phone Fax	In Person	
16. Additional remarks:	The state of the s	· · · · · · · · · · · · · · · · · · ·)
17. <u>Cooler Information</u>					
	Condition Seal Intact Seal No.	Seal Date	Signed By	I	
	ood Yes			1	
	•				

J	,hain-	of-Cu	Chain-of-Custody Record	Turn-Around Time:	ne:				_		•		Ì		•	[•	
Client:		الم الم	SMA-Carlsbad	□ Standard	M Rush	* Rush 2 day			_ ~	HALI Ana	֡֝֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓		L ENVIKONMENTAL LYSIS LABORATOR		1 N	Z	HALL ENVIKONMENIAL ANALYSIS LABORATORY	
	•			Project Name:					_	WWW.	hallen	vironr	www.hallenvironmental.com	Com				_
Mailing	Mailing Address:			Candelario	ir SwD	^	Ì	4901	Hawk	4901 Hawkins NE	,	enda	- Albuquerque, NM 87109	ΣN	87109	•		
				Project #:				Ţej.	505-3	Tel. 505-345-3975		Fax (Fax 505-345-4107	15-41	07			
Phone #:	#:			•							Ana	ysis	Analysis Request	sst			•	
email o	email or Fax#:			Project Manager:	L				1			(₽С						
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	□ EDD (Type)			Sample Temperature	ature: $\mathcal{Q}_{\mathfrak{t}}$) (Y
Date	Time	Matrix	Sample Request ID	her Id#	Preservative Type	HEAL NO.	BTEX + MT	BTEX + MTI 8015B	TPH (Metho	EDB (Metho	PAH's (8310 RCRA 8 Me	2,7) snoinA	8081 Pestici	8260B (VO V -ime2) 0728	-11190/0120			Air Bubbles
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	10:37		Sw3			-003						7						
	10:15		5 w4			-004						7						
	10:11		SmS			-005						1						
	11:50		Swe			-000-												
	11: Tr		Sw7			-00-1												
	11:40		გოა			800-						/						
	12:20		Swg			-000						/						
-1	12:45	→	Sw10)		010						1						
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	If necessary, s	samples subn	If hecessary, sample, submitted to Hall Environmental may be subconfacted to	infracted to other accre	dited laboratories.	other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report	ossibilit	y. Any	noo-qns	tracted d	ata will b	e clearly	/ notated	on the	analytik	cal repor	ų.	



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

April 24, 2018

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

TEL: (575) 689-7040

FAX

RE: Candelario 28 1 OrderNo.: 1804320

Dear Austin Weyant:

Hall Environmental Analysis Laboratory received 7 sample(s) on 4/5/2018 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 **1804320**Date Reported: **4/24/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: B1-5

 Project:
 Candelario 28 1
 Collection Date: 3/28/2018 3:30:00 PM

 Lab ID:
 1804320-001
 Matrix: SOIL
 Received Date: 4/5/2018 10:15:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: MRA
Chloride	1900	75	mg/Kg	50	4/24/2018 1:32:26 PM	37741
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS				Analyst	:: ТОМ
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	4/10/2018 7:22:28 PM	37482
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	4/10/2018 7:22:28 PM	37482
Surr: DNOP	87.2	70-130	%Rec	1	4/10/2018 7:22:28 PM	37482
EPA METHOD 8015D: GASOLINE RAM	IGE				Analyst	:: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	4/9/2018 2:05:41 PM	37472
Surr: BFB	95.7	15-316	%Rec	1	4/9/2018 2:05:41 PM	37472
EPA METHOD 8021B: VOLATILES					Analyst	:: NSB
Benzene	ND	0.024	mg/Kg	1	4/9/2018 2:05:41 PM	37472
Toluene	ND	0.048	mg/Kg	1	4/9/2018 2:05:41 PM	37472
Ethylbenzene	ND	0.048	mg/Kg	1	4/9/2018 2:05:41 PM	37472
Xylenes, Total	ND	0.095	mg/Kg	1	4/9/2018 2:05:41 PM	37472
Surr: 4-Bromofluorobenzene	90.0	80-120	%Rec	1	4/9/2018 2:05:41 PM	37472

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 **1804320**Date Reported: **4/24/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: B1-9

 Project:
 Candelario 28 1
 Collection Date: 3/28/2018 3:45:00 PM

 Lab ID:
 1804320-002
 Matrix: SOIL
 Received Date: 4/5/2018 10:15:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: MRA
Chloride	450	30	mg/Kg	20	4/10/2018 1:29:19 PM	37510
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS	;			Analyst	:: ТОМ
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	4/10/2018 7:44:43 PM	37482
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	4/10/2018 7:44:43 PM	37482
Surr: DNOP	88.9	70-130	%Rec	1	4/10/2018 7:44:43 PM	37482
EPA METHOD 8015D: GASOLINE RANG	iΕ				Analyst	:: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	4/9/2018 3:15:48 PM	37472
Surr: BFB	96.4	15-316	%Rec	1	4/9/2018 3:15:48 PM	37472
EPA METHOD 8021B: VOLATILES					Analyst	:: NSB
Benzene	ND	0.025	mg/Kg	1	4/9/2018 3:15:48 PM	37472
Toluene	ND	0.049	mg/Kg	1	4/9/2018 3:15:48 PM	37472
Ethylbenzene	ND	0.049	mg/Kg	1	4/9/2018 3:15:48 PM	37472
Xylenes, Total	ND	0.098	mg/Kg	1	4/9/2018 3:15:48 PM	37472
Surr: 4-Bromofluorobenzene	88.5	80-120	%Rec	1	4/9/2018 3:15:48 PM	37472

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 **1804320**Date Reported: **4/24/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: B1-14

 Project:
 Candelario 28 1
 Collection Date: 3/28/2018 4:25:00 PM

 Lab ID:
 1804320-003
 Matrix: SOIL
 Received Date: 4/5/2018 10:15:00 AM

Analyses	Result	PQL Qua	al Units	DF Date	Analyzed	Batch
EPA METHOD 300.0: ANIONS					Anal	yst: MRA
Chloride	130	30	mg/Kg	20 4/10	/2018 1:41:44 P	M 37510

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 **1804320**Date Reported: **4/24/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: B1-19

 Project:
 Candelario 28 1
 Collection Date: 3/28/2018 4:51:00 PM

 Lab ID:
 1804320-004
 Matrix: SOIL
 Received Date: 4/5/2018 10:15:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: MRA
Chloride	300	30	mg/Kg	20	4/10/2018 1:54:09 PM	37510
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS	;			Analyst	:: TOM
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	4/10/2018 8:07:04 PM	37482
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	4/10/2018 8:07:04 PM	37482
Surr: DNOP	98.5	70-130	%Rec	1	4/10/2018 8:07:04 PM	37482
EPA METHOD 8015D: GASOLINE RAI	NGE				Analyst	:: NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	4/9/2018 4:25:54 PM	37472
Surr: BFB	90.7	15-316	%Rec	1	4/9/2018 4:25:54 PM	37472
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.023	mg/Kg	1	4/9/2018 4:25:54 PM	37472
Toluene	ND	0.046	mg/Kg	1	4/9/2018 4:25:54 PM	37472
Ethylbenzene	ND	0.046	mg/Kg	1	4/9/2018 4:25:54 PM	37472
Xylenes, Total	ND	0.092	mg/Kg	1	4/9/2018 4:25:54 PM	37472
Surr: 4-Bromofluorobenzene	83.8	80-120	%Rec	1	4/9/2018 4:25:54 PM	37472

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 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 **1804320**Date Reported: **4/24/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: B2-0

 Project:
 Candelario 28 1
 Collection Date: 3/28/2018 5:40:00 PM

 Lab ID:
 1804320-005
 Matrix: SOIL
 Received Date: 4/5/2018 10:15:00 AM

Analyses	Result	PQL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analy	yst: MRA
Chloride	7600	300	mg/Kg	200 4/12/2018 4:22:27 P	M 37510

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 **1804320**Date Reported: **4/24/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: B2-14

 Project:
 Candelario 28 1
 Collection Date: 3/28/2018 6:00:00 PM

 Lab ID:
 1804320-006
 Matrix: SOIL
 Received Date: 4/5/2018 10:15:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: MRA
Chloride	920	30	mg/Kg	20	4/10/2018 2:18:57 PM	37510
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS	;			Analyst	:: TOM
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	4/10/2018 8:29:20 PM	37482
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	4/10/2018 8:29:20 PM	37482
Surr: DNOP	90.9	70-130	%Rec	1	4/10/2018 8:29:20 PM	37482
EPA METHOD 8015D: GASOLINE RAM	IGE				Analyst	:: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	4/9/2018 4:49:08 PM	37472
Surr: BFB	93.9	15-316	%Rec	1	4/9/2018 4:49:08 PM	37472
EPA METHOD 8021B: VOLATILES					Analyst	:: NSB
Benzene	ND	0.024	mg/Kg	1	4/9/2018 4:49:08 PM	37472
Toluene	ND	0.048	mg/Kg	1	4/9/2018 4:49:08 PM	37472
Ethylbenzene	ND	0.048	mg/Kg	1	4/9/2018 4:49:08 PM	37472
Xylenes, Total	ND	0.096	mg/Kg	1	4/9/2018 4:49:08 PM	37472
Surr: 4-Bromofluorobenzene	87.4	80-120	%Rec	1	4/9/2018 4:49:08 PM	37472

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 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 **1804320**Date Reported: **4/24/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: B2-24

 Project:
 Candelario 28 1
 Collection Date: 3/28/2018 7:20:00 PM

 Lab ID:
 1804320-007
 Matrix: SOIL
 Received Date: 4/5/2018 10:15:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: MRA
Chloride	180	30	mg/Kg	20	4/10/2018 2:31:22 PM	37510
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS	3			Analyst	: TOM
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	4/10/2018 8:51:37 PM	37482
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	4/10/2018 8:51:37 PM	37482
Surr: DNOP	91.0	70-130	%Rec	1	4/10/2018 8:51:37 PM	37482
EPA METHOD 8015D: GASOLINE RAI	NGE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	4/9/2018 5:12:21 PM	37472
Surr: BFB	94.0	15-316	%Rec	1	4/9/2018 5:12:21 PM	37472
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	4/9/2018 5:12:21 PM	37472
Toluene	ND	0.048	mg/Kg	1	4/9/2018 5:12:21 PM	37472
Ethylbenzene	ND	0.048	mg/Kg	1	4/9/2018 5:12:21 PM	37472
Xylenes, Total	ND	0.096	mg/Kg	1	4/9/2018 5:12:21 PM	37472
Surr: 4-Bromofluorobenzene	86.0	80-120	%Rec	1	4/9/2018 5:12:21 PM	37472

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 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

Hall Environmental Analysis Laboratory, Inc.

WO#: **1804320**

24-Apr-18

Client: Souder, Miller & Associates

Project: Candelario 28 1

Sample ID MB-37510 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 37510 RunNo: 50446

Prep Date: 4/10/2018 Analysis Date: 4/10/2018 SeqNo: 1635906 Units: mg/Kg

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

Chloride ND 1.5

Sample ID LCS-37510 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 37510 RunNo: 50446

Prep Date: 4/10/2018 Analysis Date: 4/10/2018 SeqNo: 1635907 Units: mg/Kg

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

Chloride 15 1.5 15.00 0 98.6 90 110

Sample ID MB-37741 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 37741 RunNo: 50775

Prep Date: 4/23/2018 Analysis Date: 4/23/2018 SeqNo: 1647500 Units: mg/Kg

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

Chloride ND 1.5

Sample ID LCS-37741 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 37741 RunNo: 50775

Prep Date: 4/23/2018 Analysis Date: 4/23/2018 SeqNo: 1647501 Units: mg/Kg

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

Chloride 15 1.5 15.00 0 97.1 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.

WO#: **1804320**

24-Apr-18

Client: Souder, Miller & Associates

Project: Candelario 28 1

Sample ID LCS-37482 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics LCSS Client ID: Batch ID: 37482 RunNo: 50425 4/9/2018 SeqNo: 1635884 Prep Date: Analysis Date: 4/10/2018 Units: mg/Kg Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 10 0 47 50.00 94.8 70 130 Surr: DNOP 4.7 5.000 93.1 70 130

Sample ID MB-37482	SampT	уре: МЕ	BLK	Tes	tCode: E	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: PBS	Batch	ID: 37	482	F	RunNo: 5	0425				
Prep Date: 4/9/2018	Analysis D	ate: 4/	10/2018	8	SeqNo: 1	635886	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10		10.00		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

Page 9 of 11

Hall Environmental Analysis Laboratory, Inc.

WO#: 1804320

24-Apr-18

Client: Souder, Miller & Associates

Project: Candelario 28 1

Sample ID MB-37472 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: **PBS** Batch ID: 37472 RunNo: 50404

Prep Date: 4/6/2018 Analysis Date: 4/9/2018 SeqNo: 1634431 Units: mg/Kg

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

Gasoline Range Organics (GRO) ND 5.0

1000 Surr: BFB 890 88.7 15 316

Sample ID LCS-37472 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 37472 RunNo: 50404

Analysis Date: 4/9/2018 Prep Date: 4/6/2018 SeqNo: 1634432 Units: mg/Kg

HighLimit Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit %RPD **RPDLimit** Qual 5.0 25.00 115 75.9 131

Gasoline Range Organics (GRO) Surr: BFB 1100 1000 106 15 316

TestCode: EPA Method 8015D: Gasoline Range Sample ID 1804320-002AMS SampType: MS

Client ID: Batch ID: 37472 RunNo: 50404

Prep Date: 4/6/2018 Analysis Date: 4/9/2018 SeqNo: 1634435 Units: mg/Kg

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

Gasoline Range Organics (GRO) 26 4.9 24.32 106 77.8 128 Surr: BFB 980 972.8 101 15 316

Sample ID 1804320-002AMSD SampType: MSD TestCode: EPA Method 8015D: Gasoline Range

Client ID: B1-9 Batch ID: 37472 RunNo: 50404

Analysis Date: 4/9/2018 Prep Date: 4/6/2018 SeqNo: 1634436 Units: mg/Kg

Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 25 4.7 23.32 106 77.8 128 4.68 20 Λ Surr: BFB 1000 932.8 107 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 10 of 11

P Sample pH Not In Range

RLReporting Detection Limit

Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#: **1804320**

24-Apr-18

Client: Souder, Miller & Associates

Project: Candelario 28 1

Sample ID MB-37472 SampType: MBLK TestCode: EPA Method 8021B: Volatiles Client ID: **PBS** Batch ID: 37472 RunNo: 50404 SeqNo: 1634466 Prep Date: 4/6/2018 Analysis Date: 4/9/2018 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 0.86 1.000 85.9 80 120

Sample ID LCS-37472 SampType: LCS TestCode: EPA Method 8021B: Volatiles Client ID: **LCSS** Batch ID: 37472 RunNo: 50404 Prep Date: 4/6/2018 Analysis Date: 4/9/2018 SeqNo: 1634467 Units: mg/Kg **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Analyte Result Qual 0.025 1.000 O 94.3 77.3 128 Benzene 0.94 Toluene 0.93 0.050 1.000 0 92.8 79.2 125 Ethylbenzene 0.91 0.050 0 91.2 80.7 127 1.000 Xylenes, Total 2.8 0.10 3.000 0 93.0 81.6 129 90.6 Surr: 4-Bromofluorobenzene 0.91 1.000 80 120

Sample ID 1804320-001AMS SampType: MS TestCode: EPA Method 8021B: Volatiles Batch ID: 37472 Client ID: R1-5 RunNo: 50404 4/6/2018 Analysis Date: 4/9/2018 SeaNo: 1634469 Prep Date: Units: mg/Kg Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Benzene 0.91 0.024 0.9766 93.2 68.5 133 Λ Toluene 0.89 0.049 0.9766 0 91.2 75 130 0.88 0.049 0.9766 0 89.8 79.4 128 Ethylbenzene Xylenes, Total 2.7 0.098 2.930 0 92.1 77.3 131 Surr: 4-Bromofluorobenzene 88.2 0.86 0.9766 80 120

Sample ID 1804320-001AMSD SampType: MSD TestCode: EPA Method 8021B: Volatiles Client ID: B1-5 Batch ID: 37472 RunNo: 50404 Prep Date: Analysis Date: 4/9/2018 SeqNo: 1634470 4/6/2018 Units: mg/Kg SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result PQL LowLimit HighLimit Qual 0.90 0.025 0.9823 0 91.6 68.5 133 1.14 20 Benzene Toluene 0.88 0.049 0.9823 0 90.1 75 130 0.626 20 Ethylbenzene 0.88 0.049 0.9823 0 89.1 79.4 128 0.128 20 Xylenes, Total 2.7 0.098 2.947 0 90.9 77.3 131 0.749 20 Surr: 4-Bromofluorobenzene 0.85 0.9823 86.9 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

Page 11 of 11



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: 1804320 RcptNo: 1 labeled by 'sne 04/05/18 Received By: Erin Melendrez 4/5/2018 10:15:00 AM 4/5/2018 3:35:23 PM Completed By: Ashley Gallegos 415/18 Reviewed By: Chain of Custody No 🗔 Not Present 1. Is Chain of Custody complete? 2. How was the sample delivered? Courier Log In 3. Was an attempt made to cool the samples? Yes 🗸 No 🗀 4. Were all samples received at a temperature of >0° C to 6.0°C Yes 🗸 No Yes 🔽 Sample(s) in proper container(s)? 6. Sufficient sample volume for indicated test(s)? No 🗀 7. Are samples (except VOA and ONG) properly preserved? No 🗀 Yes 🗌 No 🔽 NA 🗌 8. Was preservative added to bottles? 9. VOA vials have zero headspace? Yes No VOA Vials 🗹 No 🗀 No 🗹 Yes 10. Were any sample containers received broken? # of preserved bottles checked 11. Does paperwork match bottle labels? Yes 🗸 No 🗔 for pH: (Note discrepancies on chain of custody) 12 unless noted) Adjusted? No 🗀 12. Are matrices correctly identified on Chain of Custody? Νo 13. Is it clear what analyses were requested? Yes 🗸 Checked by: 14. Were all holding times able to be met? No (If no, notify customer for authorization.) Special Handling (if applicable) No 🗌 15. Was client notified of all discrepancies with this order? NA 🗹 Yes Person Notified: Date: By Whom: Via: Phone Fax Regarding: Client Instructions: 16. Additional remarks: 17. Cooler Information Temp °C | Condition Cooler No Seal Intact | Seal No Seal Date 0.1 Good

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If necessa	No.	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	intracted to other accre	dited laboratories.	This serves as notice of this	possibilit	/. Any s	rhoo-du	acted da	a will be	clearly no	stated o	n the and	lytical repo	ہے د	