Form C-141 Page 3

State of New Mexico Oil Conservation Division

Incident ID	
District RP	2RP-5694
Facility ID	
Application ID	

Site Assessment/Characterization

What is the shallowest depth to groundwater beneath the area affected by the release?	85 (ft bgs)
Did this release impact groundwater or surface water?	O ,
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ No ☐ Yes ☒ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ⊠ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ⊠ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ⊠ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No ☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ⊠ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ⊠ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ⊠ No
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes ⊠ No
Did the release impact areas not on an exploration, development, production, or storage site:	☐ Yes ⊠ No
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and ver- contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	tical extents of soil

Characterization Report Checklist: Each of the following items must be included in the report.	
Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells. 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	

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

Form C-141

Page 4

State of New Mexico Oil Conservation Division

Incident ID	
District RP	2RP-5694
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 C failed to adequately investigate and remediate contamination that pose a thre addition, 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 ICD does not relieve the operator of liability should their operations have at to groundwater, surface water, human health or the environment. In
Printed Name: Jon F Fields Signature: Tell	Title: Director, Field Environmental Date: 12/11/19
email: jefields@eprod.com	Telephone: 713-381-6684
OCD Only	
Received by:	Date:

Form C-141 Page 6

State of New Mexico Oil Conservation Division

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

Incident ID		
District RP	2RP-5694	
Facility ID		
Application ID		

Closure

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

A scaled site and sampling diagram as described in 19.15.29.	11 NMAC
Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	of the liner integrity if applicable (Note: appropriate OCD District office
☐ Laboratory analyses of final sampling (Note: appropriate ODG	C District office must be notified 2 days prior to final sampling)
Description of remediation activities	
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and rer human health or the environment. In addition, OCD acceptance of compliance with any other federal, state, or local laws and/or regular restore, reclaim, and re-vegetate the impacted surface area to the coaccordance with 19.15.29.13 NMAC including notification to the OPrinted Name: Jon E. Fields Signature: general content of the environment. In addition, OCD acceptance of compliance with any other federal, state, or local laws and/or regular restore, reclaim, and re-vegetate the impacted surface area to the coaccordance with 19.15.29.13 NMAC including notification to the OPrinted Name: Jon E. Fields Signature: Jon E. Fields	nediate contamination that pose a threat to groundwater, surface water, a C-141 report does not relieve the operator of responsibility for tions. The responsible party acknowledges they must substantially nditions that existed prior to the release or their final land use in CD when reclamation and re-vegetation are complete.
OCD Only	
Received by:	Date:
Closure approval by the OCD does not relieve the responsible party remediate contamination that poses a threat to groundwater, surface a party of compliance with any other federal, state, or local laws and/o	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible or regulations.
Closure Approved by:	Date:
Printed Name:	Title:



Souder, Miller & Associates • 201 S. Halagueno St. • Carlsbad, NM 88220 (575) 689-7040

December 16, 2019

SMA #5E27957, BG20

Enterprise Field Services LLC P. O. Box 4324 Houston, TX 77210 Attn.: Ms. Alena Miro

RE: ENTERPRISE TRUNK A PIPELINE RELEASE REPORT, EDDY COUNTY, NEW MEXICO (2RP-5694)

Dear Ms. Miro:

Souder, Miller & Associates (SMA) is pleased to submit this letter report to Enterprise Field Services LLC (Enterprise) summarizing the remediation and final confirmation sampling of the Trunk A pipeline nonreportable release. The site is located in Section 7, T: 23S, R: 31E, (32.321626, -103.812300) Eddy County, New Mexico, on federal (BLM) surface. Based on the information presented herein, the site has been restored to meet the standards of 19.15.29.12 NMAC, and no further action is required.

Site Characterization

On October 2, 2019, a leak occurred on the Trunk A pipeline resulting in the release of 78 MSCF of natural gas and one (1) barrel of pipeline fluids. At the request of Enterprise, on October 12, 2019, SMA collected composite soil samples from the excavated area (approximately 7 x 10 x 4 feet) exposed for pipeline repair activities to determine whether the release was properly remediated. Based on field screening result, SMA requested that additional excavation occur while the equipment was present and available. The western portion was excavated to an area approximately 28 x 30 x 11 feet and the eastern portion was excavated to an area approximately 24 x 30 x 7 feet. Two sample locations (L1 and L2) were collected from beneath the exposed pipeline, L1 was collected at a depth 7 feet bgs on the eastern portion and L2 was collected at 11 bgs on the western portion. In addition, four 5-point composite sidewall samples (SW1, SW2, SW3, SW4) were collected. Laboratory analysis of the eastern sidewall sample (SW3) returned levels that exceeded the closure criteria for the location. SMA returned to the location to guide further excavation activities by collecting soil samples for field screening on November 15, 2019. The excavation was expanded laterally two (2) additional feet to the east. The final excavation measured 26 x 30 x 7 feet. Figure 3 depicts the final excavation dimensions and sample locations. Upon completion of sampling, the soil samples were delivered to Hall Environmental Analysis Laboratory in Albuquerque. New Mexico for analysis. On December 11, 2019 SMA returned to the excavation to collect a composite sample for the top four (4) feet of sidewall (SW4) for chlorides. Upon completion of sampling, the soil sample was delivered to Xenco Laboratories located in Carlsbad. New Mexico.

Based upon the New Mexico Office of the State Engineer (NMOSE) and the United States Geological Survey (USGS) water well data, depth to groundwater in the area is estimated to be 98 feet below grade surface (bgs). There are five (5) known water sources within ½-mile of the location, according to USGS & NMOSE online water well database (https://gis.ose.state.nm.us/gisapps/ose_pod_locations/; accessed November 15, 2019; Appendix B). The nearest significant watercourse is an unnamed canal, located approximately 2,370 feet to the northwest.

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Based on the information presented herein, the applicable NMOCD Closure Criteria for this site is for a groundwater depth of 51-100 feet bgs. The site has been restored to meet the standards of Table I of 19.15.29.12 NMAC, and no further action is required.

Analytical Results

The Enterprise Trunk A pipeline nonreportable release soil samples were analyzed utilizing the following EPA-Approved methods:

- **EPA Method 8021** for the detection of light end hydrocarbons including Benzene, Toluene, Ethylbenzene, and total Xylenes (BTEX).
- EPA Method 8015B for diesel, gasoline and motor oil range organics (DRO/GRO/MRO)
- EPA Method 300 for the detection of anions, specifically chlorides.

Analytical results are summarized in Table 1 below. A copy of the laboratory report is attached in Appendix A.

Table 1. Enterprise Field Services Trunk A Nonreportable Release

Table 1. Enterprise Field Services 11 tills A Nomeportable Release										
Sample	Sample	Depth (feet	Action	BTEX	Benzene	GRO	DRO	MRO	Total TPH	CI-
ID	Date	bgs)	Taken	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
	NMOCD Clos	ure Crite	eria	50	10	10	00		100* 2500	600* 10000
L1	10/12/2019	7	In-situ	<0.215	<0.024	<4.8	<9.8	<49	<63.6	<60
L2	10/12/2019	11	In-situ	<0.211	<0.023	<4.7	<10	<50	<64.7	<60
SW1	10/12/2019	0-11	In-situ	<0.216	<0.024	<4.8	<9.3	<47	<61.7	170
SW2	10/12/2019	0-11	In-situ	<0.217	<0.024	<4.8	<10	<50	<64.8	200
SW3	10/12/2019	0-7	Excavated	<0.216	<0.024	<4.8	200	<48	200	95
3773	11/15/2019	0-7	In-situ	<0.216	<0.024	<4.8	63	<49	63	250
SW4	12/11/2019	0-4	In-situ	-	-	-	-	-	-	<9.8
3774	10/12/2019	0-11	In-situ	<0.215	< 0.024	<4.8	<9.7	<48	<62.5	750

^{*}NMOCD reclamation standard for off-pad, top 4 feet

SMA recommends no further action for this release.

Souder, Miller and Associates appreciates the opportunity to provide environmental services to you. If you have any questions or comments concerning this report, please feel free to call Ashley Maxwell at 505-325-7535.

Sincerely,

Souder, Miller & Associates

Ashley Maxwell Project Scientist Shawna Chubbuck Senior Scientist

5E27957 BG20

Figures:

Figure 1: Regional Vicinity and Wellhead Protection Map

Figure 2: Surface Water Protection Map Figure 3: Vicinity and Sample Location Map

Appendix

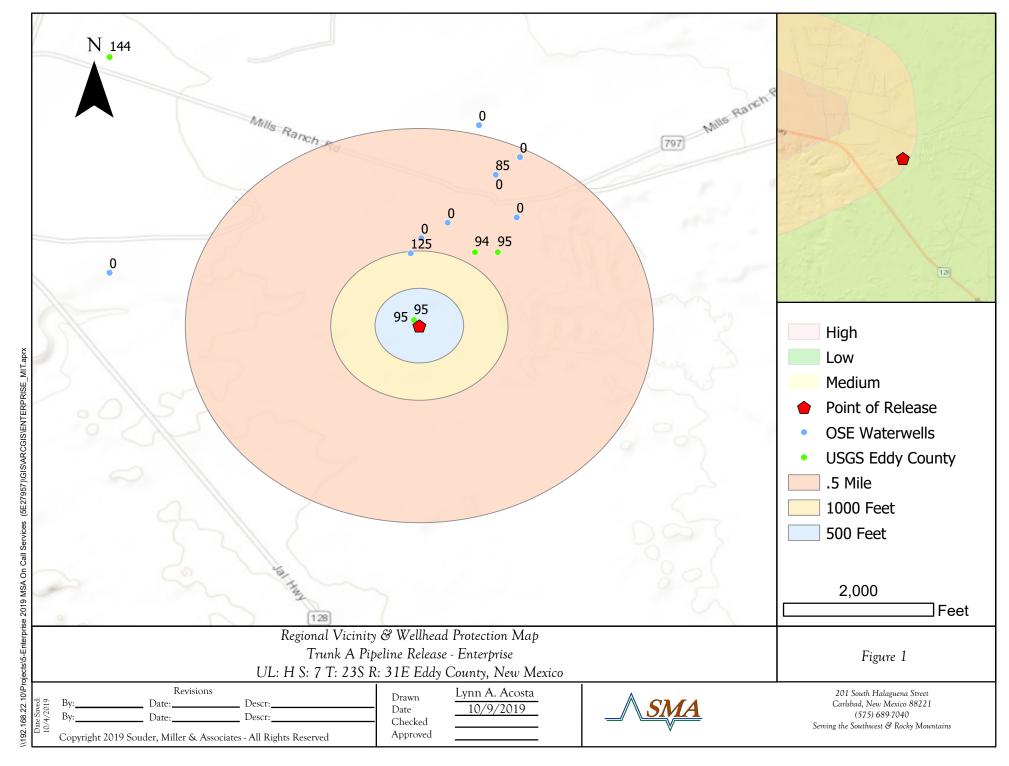
Appendix A: Form C-141

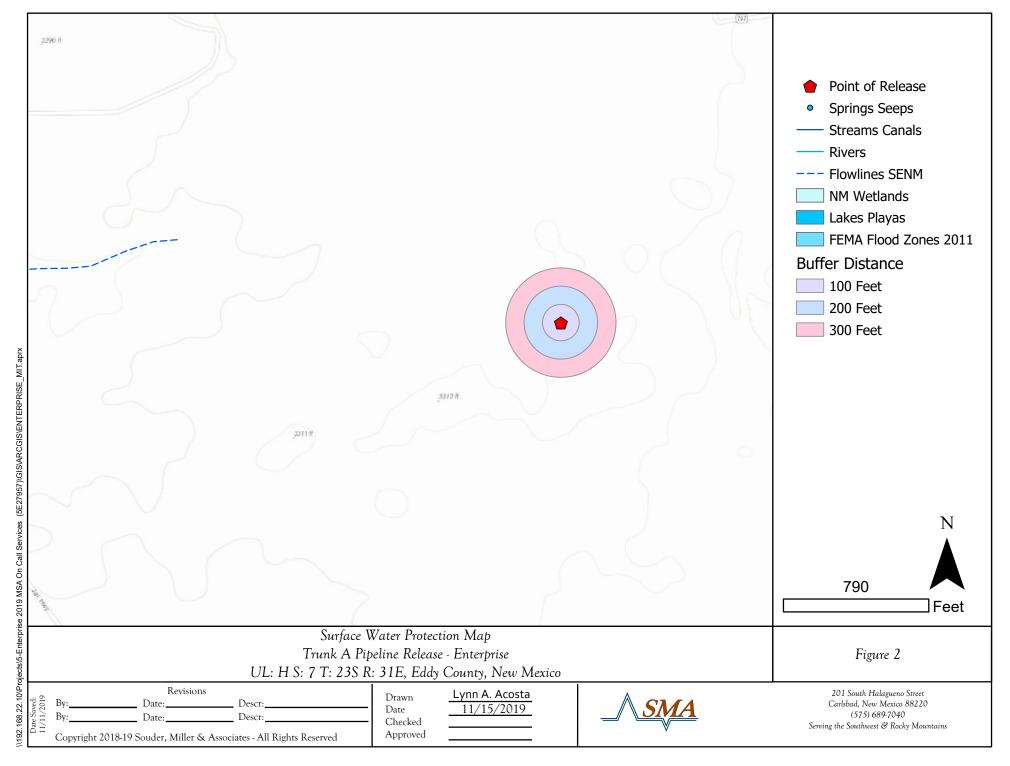
Appendix B: Field Notes & Depth to Water Documentaiton

Appendix C: Site Photography
Appendix D: Laboratory Reports

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FIGURES







5E27957 BG20

APPENDIX A FORM C-141

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

State of New Mexico Energy Minerals and Natural Resources Department

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

Incident ID	NRM1931851486
District RP	2RP-5694
Facility ID	fAB1608156616
Application ID	pRM1931850802

Release Notification

1WB9X-191015-C-1410

Responsible Party

Responsible	Party En	nterprise Field Serv	rices LLC	OGRID		241602	
Contact Name Alena Miro				Contact To	elephone	575-628-6802	
Contact email ammiro@eprod.com I					(assigned by OC	(D)	
Contact mailing address PO Box 4324, Houston, TX 77210							
			Location	of Release S	OUPCA		
			Location	of ixclease S	ource		
Latitude N	32.321626		(NAD 83 in dec	Longitude cimal degrees to 5 decir	W -103.81 mal places)	2300	
Site Name	Trunk A P	ipeline		Site Type	Pipeline RO	OW	
Date Release	Discovered	10/2/2019		API# (if app	olicable) N/A		
Unit Letter	Section	Township	Range	Cour	ntsv		
H	7	23S	31E	County Eddy			
II , 230 SIE Eddy							
Surface Owner	r: State	X Federal Tr	ibal Private :]	N/A			
	_						
			Nature and	l Volume of	Release		
	Materia	l(s) Released (Select al	l that apply and attach	calculations or specific	justification for	the volumes provided below)	
Crude Oil		Volume Release	d (bbls)		Volume Re	covered (bbls)	
Produced	Water	Volume Release	d (bbls)		Volume Recovered (bbls)		
Is the concentration of dissolved chloride in produced water >10,000 mg/l?				hloride in the	☐ Yes ☐	No	
☐ Solution					Volume Recovered (bbls)		
Natural Gas Volume Released (Mcf) 78.16 MCF				Volume Recovered (Mcf) 0 MCF			
Other (describe) Volume/Weight Released (provide units)			e units)	Volume/We	eight Recovered (provide units)		
Cause of R	elease				I		
A nineline	leak estimat	red at 1.73 MSCF o	of ass occurred du	e to suspected inte	rnal corrosion	and 76.43 MSCF of gas was	
A pipeline	icak estiiliat	ca at 1.75 Misci	n gas occurred du	e to suspected fine	mai comosion	and 70.45 MISCI of gas was	

released due to a controlled pipeline blowdown to facilitate repairs.

Form C-141 Page 2

State of New Mexico Oil Conservation Division

Incident ID	NRM1931851486
District RP	2RP-5693
Facility ID	fAB1608156616
Application ID	pRM1931850802

Was this a major release as defined by	If YES, for what reason(s) does the responsible party consider this a major release?
19.15.29.7(A) NMAC?	
Yes X No	
If VES was immediate n	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?
II TES, was infinediate in	once given to the OCD: By whom: To whom: when and by what means (phone, eman, etc)?
	Initial Response
The responsible p	party must undertake the following actions immediately unless they could create a safety hazard that would result in injury
☐ The source of the rele	ease has been stopped
	s been secured to protect human health and the environment.
Released materials ha	we been contained via the use of berms or dikes, absorbent pads, or other containment devices.
All free liquids and re	ecoverable materials have been removed and managed appropriately.
If all the actions described	l above have <u>not</u> been undertaken, explain why:
N/A	
has begun, please attach	AC the responsible party may commence remediation immediately after discovery of a release. If remediation a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred at area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
regulations all operators are public health or the environm failed to adequately investigated to adequate the public health or the environment of the public health or the environment of the envi	rmation given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and required to report and/or file certain release notifications and perform corrective actions for releases which may endanger nent. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have ate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws
Printed Name: Jon E	Fields Title: Director, Field Environmental
Signature:	pl + Luly Date: 10/14/19
email: jefields@epro	d.com Telephone: 713-381-6684
OCD Only	
Received by: Ramona	Marcus Date: 11/14/2019
L	

Facility: Trunk A Leak Date: 10/2/2019

Enter data in shaded fields to calculate gas volumes released due to leak and/or blowdown of system.

Hours of leak	0.25
Diameter of hole (inches)	0.171875
Line Pressure at Leak	220
Volume of Gas Leaked	1.73

NOTE: Enter Components on the Gas Leak or Gas Blowdown sheet as needed.

Hourly Basis

Rectangle or Line Crack

1.73 MSCF

Length, in.	0
Width, in,	0
Eqv. Diameter, in.	#DIV/0!

Calculations:

Volume of Gas Leaked (MSCF) = Diameter*Diameter*(Upstream Gauge Pressure + Atmospheric Pressure)*Hours of Leak

^{**}Reference: Pipeline Rules of Thumb Handbook, 3rd Edition, McAllister. Page 260. Assuming Standard Temperature and Pressure (14.7 psi and 60 F)

Footage of Pipe blowndown	11836
Initial line pressure	220
Diameter of Pipe (inches)	8
Volume of Gas Blown Down	76.42907

Calculations:

Volume of Gas Blown Down (MSCF) = Volume at pipeline conditions (ft3)*(Gauge Pressure (psig)+Atmospheric Pressure 13.7 psi)*Standard Temperature (60F)

MSCF

/(1000 scf/mscf)*Standard Pressure (14.7psi)*Temperature(F)*Z Factor

Volume at pipeline conditions (scf) = Diameter/12 (ft)*Diameter/12 (ft)*PI/4*Length of pipe (ft)

^{**}Reference: Gas Pipeline Hydraulics, Menson (2005) Pages 132-134. Assuming the Ideal Gas Law and Tpipeline = Tatm.

Total Gas Loss	78.16 MSCF	0.078 MMSCF
Cause/ Reason:	Unknown	<u> </u>
	Isolated and blew down	

Name: David Sedillo Cell Phone: 575-200-7981

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APPENDIX B FIELD NOTES & DEPTH TO WATER DOCUMENTATION

SMA Field Screening Location Name:									
Tr		Date:							
Sample Name:	Soil Type:	Depth (BGS)		PID Reading					
Swl	Sund	6-4	1:12	2.72	26.8	1789			
5w2	11	0-4	1:15	2.51	19.9				
5w3	11	0-4	1:18	1.11	14-3	961			
Su 4	//	0-4	1:20	3.32	19.4	1512			
61	11	6-4	1:23	1.43	19.0	1538			
Sw1.1	11	6-5	1:36	1.28	26.5	1263			
Sw2.1 *+	//	6-5	1:38	6.13	19.3	109			
SW3.1 **	"	0-5-	1:41	6.10	20.5-	244			
Su 4.1		0-5-	1:49	1.23	20.3	333			
LI.I	"	5-	1:47	1.42	Q19.2	1614			
Sw1.2 * *		6-7'	2:43	0.19	15.7	35. 9			
SW4.2	"	6-7'	2:45-	6.79	16.9	25./			
61.2	10	7'	2:47	1.42	15.7	408.			
<u>C1.3</u> * *			3:03	6-67	22./	194			
SW4.3 * *			3:10	0.774	20-6	65.5			
<u> </u>		7'	3:12	0.07	20.7	190	a		
									



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

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		_	_	_							·	·	
POD Number © 02492 POD2	Code	Sub- basin C	County ED	64	16		Sec				Y 3576996 🚳	DistanceDep	thWellDep 400	thWaterCo	
C 02492		CUB									3577320*		135	125 85	275 50
<u>C_02865</u>		CUB	ED	4	4	4	06	238	31E	612056	3577320*	667	174		
C 03520 POD1		С	ED	3	1	1	07	23\$	31E	610733	3576905 🚳	1080	500		

Average Depth to Water:

105 feet

Minimum Depth

85 feet

Maximum Depth:

125 feet

Record Count: 4

UTMNAD83 Radius Search (in meters):

Easting (X): 611794.69

Northing (Y): 3576706

Radius: 1500

*UTM location was derived from PLSS - see Help

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

11/15/19 7:52 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER

5E27957 BG20

APPENDIX C SITE PHOTOGRAPHY

Trunk A Pipeline Excavation



5E27957 BG20

APPENDIX D LABORATORY ANALYTICAL REPORTS

Engineering • Environmental • Surveying

www.soudermiller.com



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

October 22, 2019

Ashley Maxwell Souder, Miller & Associates 201 S Halagueno Carlsbad, NM 88221 TEL: (575) 689-8801

FAX

RE: Trunk A OrderNo.: 1910835

Dear Ashley Maxwell:

Hall Environmental Analysis Laboratory received 6 sample(s) on 10/15/2019 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

Only

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order **1910835**

Date Reported: 10/22/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: L1

 Project:
 Trunk A
 Collection Date: 10/12/2019 3:03:00 PM

 Lab ID:
 1910835-001
 Matrix: SOIL
 Received Date: 10/15/2019 9:05:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: CJS
Chloride	ND	60	mg/Kg	20	10/18/2019 6:13:46 PM	48244
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	10/16/2019 5:35:59 PM	48171
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	10/16/2019 5:35:59 PM	48171
Surr: DNOP	120	70-130	%Rec	1	10/16/2019 5:35:59 PM	48171
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	10/16/2019 3:42:29 PM	48166
Surr: BFB	93.5	77.4-118	%Rec	1	10/16/2019 3:42:29 PM	48166
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.024	mg/Kg	1	10/16/2019 3:42:29 PM	48166
Toluene	ND	0.048	mg/Kg	1	10/16/2019 3:42:29 PM	48166
Ethylbenzene	ND	0.048	mg/Kg	1	10/16/2019 3:42:29 PM	48166
Xylenes, Total	ND	0.095	mg/Kg	1	10/16/2019 3:42:29 PM	48166
Surr: 4-Bromofluorobenzene	99.2	80-120	%Rec	1	10/16/2019 3:42:29 PM	48166

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

Qualifiers:

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

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

Page 1 of 10

Lab Order 1910835

Date Reported: 10/22/2019

Hall Environmental Analysis Laboratory, Inc.

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

 Project:
 Trunk A
 Collection Date: 10/12/2019 2:43:00 PM

 Lab ID:
 1910835-002
 Matrix: SOIL
 Received Date: 10/15/2019 9:05:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: CJS
Chloride	170	60	mg/Kg	20	10/18/2019 6:26:11 PM	48244
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: BRM
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	10/16/2019 5:58:17 PM	l 48171
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	10/16/2019 5:58:17 PM	l 48171
Surr: DNOP	78.9	70-130	%Rec	1	10/16/2019 5:58:17 PM	l 48171
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	10/16/2019 4:06:02 PM	l 48166
Surr: BFB	95.1	77.4-118	%Rec	1	10/16/2019 4:06:02 PM	l 48166
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	10/16/2019 4:06:02 PM	l 48166
Toluene	ND	0.048	mg/Kg	1	10/16/2019 4:06:02 PM	l 48166
Ethylbenzene	ND	0.048	mg/Kg	1	10/16/2019 4:06:02 PM	l 48166
Xylenes, Total	ND	0.096	mg/Kg	1	10/16/2019 4:06:02 PM	l 48166
Surr: 4-Bromofluorobenzene	101	80-120	%Rec	1	10/16/2019 4:06:02 PM	l 48166

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

Qualifiers:

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

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

Page 2 of 10

Lab Order **1910835**

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 10/22/2019

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

 Project:
 Trunk A
 Collection Date: 10/12/2019 1:38:00 PM

 Lab ID:
 1910835-003
 Matrix: SOIL
 Received Date: 10/15/2019 9:05:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CJS
Chloride	200	60	mg/Kg	20	10/18/2019 6:38:36 PM	48244
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	10/16/2019 6:20:29 PM	48171
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	10/16/2019 6:20:29 PM	48171
Surr: DNOP	113	70-130	%Rec	1	10/16/2019 6:20:29 PM	48171
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	10/16/2019 5:39:45 PM	48166
Surr: BFB	86.6	77.4-118	%Rec	1	10/16/2019 5:39:45 PM	48166
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.024	mg/Kg	1	10/16/2019 5:39:45 PM	48166
Toluene	ND	0.048	mg/Kg	1	10/16/2019 5:39:45 PM	48166
Ethylbenzene	ND	0.048	mg/Kg	1	10/16/2019 5:39:45 PM	48166
Xylenes, Total	ND	0.097	mg/Kg	1	10/16/2019 5:39:45 PM	48166
Surr: 4-Bromofluorobenzene	90.4	80-120	%Rec	1	10/16/2019 5:39:45 PM	48166

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

Qualifiers:

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

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

Page 3 of 10

Lab Order 1910835

Date Reported: 10/22/2019

Hall Environmental Analysis Laboratory, Inc.

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

 Project:
 Trunk A
 Collection Date: 10/12/2019 1:41:00 PM

 Lab ID:
 1910835-004
 Matrix: SOIL
 Received Date: 10/15/2019 9:05:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed Batch
EPA METHOD 300.0: ANIONS					Analyst: CAS
Chloride	95	60	mg/Kg	20	10/19/2019 12:03:33 AM 48258
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: BRM
Diesel Range Organics (DRO)	200	9.7	mg/Kg	1	10/16/2019 6:42:42 PM 48171
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	10/16/2019 6:42:42 PM 48171
Surr: DNOP	114	70-130	%Rec	1	10/16/2019 6:42:42 PM 48171
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	10/16/2019 6:03:07 PM 48166
Surr: BFB	99.2	77.4-118	%Rec	1	10/16/2019 6:03:07 PM 48166
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	10/16/2019 6:03:07 PM 48166
Toluene	ND	0.048	mg/Kg	1	10/16/2019 6:03:07 PM 48166
Ethylbenzene	ND	0.048	mg/Kg	1	10/16/2019 6:03:07 PM 48166
Xylenes, Total	ND	0.096	mg/Kg	1	10/16/2019 6:03:07 PM 48166
Surr: 4-Bromofluorobenzene	99.2	80-120	%Rec	1	10/16/2019 6:03:07 PM 48166

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

Qualifiers:

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

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

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CLIENT: Souder, Miller & Associates

Analytical Report

Lab Order **1910835**Date Reported: **10/22/2019**

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: SW4

 Project:
 Trunk A
 Collection Date: 10/12/2019 3:10:00 PM

 Lab ID:
 1910835-005
 Matrix: SOIL
 Received Date: 10/15/2019 9:05:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed Batch
EPA METHOD 300.0: ANIONS					Analyst: CAS
Chloride	750	60	mg/Kg	20	10/19/2019 12:40:34 AM 48258
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: BRM
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	10/16/2019 7:04:52 PM 48171
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	10/16/2019 7:04:52 PM 48171
Surr: DNOP	92.1	70-130	%Rec	1	10/16/2019 7:04:52 PM 48171
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	10/16/2019 6:49:58 PM 48166
Surr: BFB	87.4	77.4-118	%Rec	1	10/16/2019 6:49:58 PM 48166
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	10/16/2019 6:49:58 PM 48166
Toluene	ND	0.048	mg/Kg	1	10/16/2019 6:49:58 PM 48166
Ethylbenzene	ND	0.048	mg/Kg	1	10/16/2019 6:49:58 PM 48166
Xylenes, Total	ND	0.095	mg/Kg	1	10/16/2019 6:49:58 PM 48166
Surr: 4-Bromofluorobenzene	91.9	80-120	%Rec	1	10/16/2019 6:49:58 PM 48166

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

Qualifiers:

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

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

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Lab Order 1910835

Date Reported: 10/22/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: L2 **Project:** Trunk A **Collection Date:** 10/12/2019

Lab ID: 1910835-006 Matrix: SOIL Received Date: 10/15/2019 9:05:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed Batch
EPA METHOD 300.0: ANIONS					Analyst: CAS
Chloride	ND	60	mg/Kg	20	10/19/2019 12:52:54 AM 48258
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: BRM
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	10/16/2019 7:27:05 PM 48171
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	10/16/2019 7:27:05 PM 48171
Surr: DNOP	129	70-130	%Rec	1	10/16/2019 7:27:05 PM 48171
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	10/16/2019 7:13:15 PM 48166
Surr: BFB	86.8	77.4-118	%Rec	1	10/16/2019 7:13:15 PM 48166
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.023	mg/Kg	1	10/16/2019 7:13:15 PM 48166
Toluene	ND	0.047	mg/Kg	1	10/16/2019 7:13:15 PM 48166
Ethylbenzene	ND	0.047	mg/Kg	1	10/16/2019 7:13:15 PM 48166
Xylenes, Total	ND	0.094	mg/Kg	1	10/16/2019 7:13:15 PM 48166
Surr: 4-Bromofluorobenzene	90.7	80-120	%Rec	1	10/16/2019 7:13:15 PM 48166

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

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Hall Environmental Analysis Laboratory, Inc.

1910835 22-Oct-19

Client:

Souder, Miller & Associates

Project:

Trunk A

Sample ID: MB-48244

SampType: mblk

TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 48244

RunNo: 63802

Prep Date: 10/18/2019

Analysis Date: 10/18/2019

Units: mg/Kg SeqNo: 2181497

90

Analyte

Result PQL

HighLimit %RPD

RPDLimit

WO#:

Qual

Chloride

ND 1.5

Sample ID: LCS-48244

SampType: Ics

TestCode: EPA Method 300.0: Anions

Client ID: LCSS

Batch ID: 48244

RunNo: 63802

Prep Date: 10/18/2019 Analysis Date: 10/18/2019

SPK value SPK Ref Val %REC LowLimit

SeqNo: 2181498

Units: mg/Kg

110

Analyte

Result **PQL** 14

SPK value SPK Ref Val

%REC LowLimit 92.5

HighLimit

RPDLimit

Qual

Chloride

Sample ID: MB-48258

SampType: mblk

1.5

RunNo: 63831

TestCode: EPA Method 300.0: Anions

Client ID: Prep Date: 10/18/2019

PBS

Batch ID: 48258

Analysis Date: 10/18/2019

15.00

SeqNo: 2182048

Units: mg/Kg HighLimit

Analyte

Result

Result

ND

SPK value SPK Ref Val %REC LowLimit

%RPD

%RPD

%RPD

RPDLimit

Qual

Chloride

Client ID:

Prep Date:

Sample ID: LCS-48258

LCSS

SampType: Ics Batch ID: 48258

1.5

TestCode: EPA Method 300.0: Anions

RunNo: 63831

SeqNo: 2182049

Units: mg/Kg

RPDLimit Qual

Analyte Chloride

10/18/2019

Analysis Date: 10/18/2019 **PQL**

1.5

SPK value SPK Ref Val %REC LowLimit

HighLimit

110

14

15.00

93.1

Qualifiers:

- Value exceeds Maximum Contaminant Level
- Sample Diluted Due to Matrix 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
- Value above quantitation range Analyte detected below quantitation limits
- Sample pH Not In Range Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

1910835 22-Oct-19

WO#:

Client:

Souder, Miller & Associates

Project:

Trunk A

Sample ID: MB-48171	SampType: MBLK TestCode: EPA Method			nod 8015M/D: Diesel Range Organics						
Client ID: PBS	Batcl	h ID: 48	171	RunNo: 63721						
Prep Date: 10/15/2019	Analysis D	Date: 10	0/16/2019	SeqNo: 2177765			SeqNo: 2177765 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	9.7		10.00		96.6	70	130			
Sample ID: LCS-48171	SampT	Type: LC	s	TestCode: EPA Method 8015M/D: Diesel Range Organics						·
Client ID: I CSS	Ratel	Ratch ID: 48171 RunNo: 63721								

Sample ID: LCS-48171	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 48171			RunNo: 63721							
Prep Date: 10/15/2019	Analysis D	Analysis Date: 10/16/2019		SeqNo: 2178334			Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	60	10	50.00	0	119	63.9	124				
Surr: DNOP	5.7		5.000		114	70	130				

Qualifiers:

Value exceeds Maximum Contaminant Level.

Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

1910835 22-Oct-19

Client:

Souder, Miller & Associates

Project:

Trunk A

Sample ID:	MB-48166
Client ID:	PBS

SampType: MBLK

TestCode: EPA Method 8015D: Gasoline Range

Batch ID: 48166

RunNo: 63727

Prep Date: 10/15/2019 Analysis Date: 10/16/2019 SeqNo: 2178684 Units: mg/Kg

Analyte Gasoline Range Organics (GRO) Result PQL ND 5.0 SPK value SPK Ref Val %REC LowLimit

HighLimit %RPD

RPDLimit Qual

900

1000

SPK value SPK Ref Val

90.5 77.4 118

Sample ID: LCS-48166

SampType: LCS Batch ID: 48166 TestCode: EPA Method 8015D: Gasoline Range RunNo: 63727

%REC

Client ID: LCSS Prep Date: 10/15/2019

Analysis Date: 10/16/2019

PQL

SeqNo: 2178685

Units: mg/Kg

118

Analyte Gasoline Range Organics (GRO) Result 25

25.00 1000 101 106

LowLimit HighLimit 120

RPDLimit %RPD Qual

WO#:

Surr: BFB

77.4

5.0 0 80 1100

Qualifiers:

- Value exceeds Maximum Contaminant Level
- Sample Diluted Due to Matrix 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
- Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range
- Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

1910835 22-Oct-19

WO#:

Client:

Souder, Miller & Associates

Project:

Trunk A

Sample ID: MB-48166	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch	n ID: 48	166	RunNo: 63727								
Prep Date: 10/15/2019	Analysis D	ate: 10)/16/2019	SeqNo: 2178705			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	0.94		1.000		94.0	80	120					

Sample ID: LCS-48166	Samp	SampType: LCS TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batc	h ID: 48	166	F						
Prep Date: 10/15/2019	Analysis [Analysis Date: 10/16/2019 SeqNo: 2178706 Units: mg/				SeqNo: 2178706				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	101	80	120			
Toluene	1.0	0.050	1.000	0	102	80	120			
Ethylbenzene	1.0	0.050	1.000	0	103	80	120			
Xylenes, Total	3.1	0.10	3.000	0	104	80	120			
Surr: 4-Bromofluorobenzene	0.97		1.000		97.1	80	120			

Qualifiers:

* Value exceeds Maximum Contaminant Level.

Sample Diluted Due to Matrix

Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 10 of 10



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	Vork Order Number: 1910835	RcptNo: 1	RcptNo: 1				
Received By: Erin Melendrez 10/	15/2019 9:05:00 AM	unt-					
Completed By: Erin Melendrez 10/	15/2019 10:13:56 AM	UNE					
Reviewed By: DM 10/15/19		,					
Chain of Custody							
1. Is Chain of Custody complete?	Yes 🗸	No Not Present					
2. How was the sample delivered?	<u>Client</u>						
<u>Log In</u>							
3. Was an attempt made to cool the samples?	Yes 🗸	No 🗌 NA 🗌					
4. Were all samples received at a temperature of >0	0° C to 6.0°C Yes ✓	No 🗆 NA 🗆					
5. Sample(s) in proper container(s)?	Yes 🗸	No 🗆					
6. Sufficient sample volume for indicated test(s)?	Yes 🗸	No 🗌					
7. Are samples (except VOA and ONG) properly pres	served? Yes	No 🗆					
8. Was preservative added to bottles?	Yes	No ☑ NA □					
9. VOA vials have zero headspace?	Yes	No ☐ No VOA Vials ✔					
10. Were any sample containers received broken?	Yes	No # of preserved					
 Does paperwork match bottle labels? (Note discrepancies on chain of custody) 	Yes 🔽	No Dottles checked for pH:	ted)				
2. Are matrices correctly identified on Chain of Custo	dy? Yes ✓	No Adjusted?	,				
3. Is it clear what analyses were requested?	Yes 🗸	No 🗆					
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes 🗸	No Checked by: DAD 10/15/	19				
Special Handling (if applicable)							
15. Was client notified of all discrepancies with this or	der? Yes	No □ NA 🗹					
Person Notified:	Date:	President and stack consideration of the Section of					
By Whom:	SCHOOL STATE OF THE STATE OF TH	Phone Fax In Person					
Regarding:		AND ARCHARGO THE AND A STATE OF COLUMN TO SEE AND ASSOCIATION OF THE AND ASSOCIATION OF THE AND ASSOCIATION OF THE ASSOCIATION					
Client Instructions:	and Committee and American Committee and American and Ame	Provincially a visit of an experience selected a service product an experience or experience and					
16. Additional remarks:							
17. Cooler Information							
Cooler No Temp °C Condition Seal Int	act Seal No Seal Date	Signed By					
1 4.3 Good Yes							



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

November 22, 2019

Ashley Maxwell Souder, Miller & Associates 201 S Halagueno Carlsbad, NM 88221 TEL: (575) 689-8801

FAX

RE: Trunk A OrderNo.: 1911837

Dear Ashley Maxwell:

Hall Environmental Analysis Laboratory received 1 sample(s) on 11/19/2019 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

Only

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report Lab Order 1911837

Date Reported: 11/22/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Trunk A

Lab ID: 1911837-001

Project:

Client Sample ID: SW-3

Collection Date: 11/15/2019 5:00:00 PM

Received Date: 11/19/2019 9:05:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed Batch
EPA METHOD 300.0: ANIONS					Analyst: CJS
Chloride	250	60	mg/Kg	20	11/22/2019 3:31:27 AM 48948
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: BRM
Diesel Range Organics (DRO)	63	9.8	mg/Kg	1	11/21/2019 11:13:17 AM 48921
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	11/21/2019 11:13:17 AM 48921
Surr: DNOP	104	70-130	%Rec	1	11/21/2019 11:13:17 AM 48921
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	11/21/2019 9:27:55 AM 48917
Surr: BFB	101	77.4-118	%Rec	1	11/21/2019 9:27:55 AM 48917
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	11/21/2019 9:27:55 AM 48917
Toluene	ND	0.048	mg/Kg	1	11/21/2019 9:27:55 AM 48917
Ethylbenzene	ND	0.048	mg/Kg	1	11/21/2019 9:27:55 AM 48917
Xylenes, Total	ND	0.097	mg/Kg	1	11/21/2019 9:27:55 AM 48917
Surr: 4-Bromofluorobenzene	103	80-120	%Rec	1	11/21/2019 9:27:55 AM 48917

Matrix: SOIL

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

Qualifiers:

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

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

Page 1 of 5

Hall Environmental Analysis Laboratory, Inc.

1911837 22-Nov-19

Client:

Souder, Miller & Associates

Project:

Trunk A

Sample ID: MB-48948

SampType: mblk

TestCode: EPA Method 300.0: Anions

Client ID: PBS

Batch ID: 48948

RunNo: 64694

Prep Date: 11/21/2019

Analysis Date: 11/21/2019

SeqNo: 2216679 Units: mg/Kg

Analyte

Result PQL SPK value SPK Ref Val %REC LowLimit

HighLimit

%RPD **RPDLimit** Qual

Chloride

ND 1.5

Sample ID: LCS-48948

SampType: Ics

TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 48948

RunNo: 64694

Prep Date: 11/21/2019

Analysis Date: 11/21/2019

SeqNo: 2216680

Units: mg/Kg

WO#:

Analyte

15.00

92.6

90

HighLimit 110

1.5

%RPD

RPDLimit Qual

Chloride

SPK value SPK Ref Val %REC LowLimit 0

Qualifiers:

- Value exceeds Maximum Contaminant Level
- Sample Diluted Due to Matrix 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
- Analyte detected below quantitation limits
- Sample pH Not In Range
- Reporting Limit

Page 2 of 5

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

22-Nov-19

1911837

WO#:

Client:

Souder, Miller & Associates

Project:

Trunk A

Sample ID: LCS-48921	SampT	ype: LC	S	TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch	ID: 489	921	R	RunNo: 64670					
Prep Date: 11/20/2019	Analysis D	ate: 11	/21/2019	SeqNo: 2215580			Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	10	50.00	0	99.8	63.9	124			
Surr: DNOP	4.9		5.000		98.5	70	130			

Sample ID: MB-48921	SampType: MBLK			Tes	TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch	ID: 489	921	R	RunNo: 64	4670						
Prep Date: 11/20/2019	Analysis D	Analysis Date: 11/21/2019			SeqNo: 2215581			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	11		10.00		109	70	130					

Qualifiers:

Value exceeds Maximum Contaminant Level.

Sample Diluted Due to Matrix

Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 3 of 5

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

1911837 22-Nov-19

WO#:

Client:

Souder, Miller & Associates

Project:

Trunk A

Sample ID: MB-48917	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch	n ID: 48	917	R	tunNo: 6	4686					
Prep Date: 11/20/2019	Analysis D	ate: 11	/21/2019	SeqNo: 2216202			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: BEB	1000		1000		101	77 4	118				

Sample ID: LCS-48917	SampT	ype: LC	S	TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch	Batch ID: 48917			RunNo: 64686					
Prep Date: 11/20/2019	Analysis D	ate: 11	/21/2019	SeqNo: 2216203			Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	101	80	120			
Surr: BFB	1100		1000		112	77.4	118			

Qualifiers:

Value exceeds Maximum Contaminant Level.

Sample Diluted Due to Matrix

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

Analyte detected below quantitation limits

Sample pH Not In Range

Reporting Limit

Page 4 of 5

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

1911837 22-Nov-19

WO#:

Client:

Souder, Miller & Associates

Project:

Trunk A

Sample ID: MB-48917	Samp	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batc	h ID: 48	917	F	RunNo: 6	4686					
Prep Date: 11/20/2019	Analysis [Date: 11	1/21/2019	S	SeqNo: 2:	216223	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		101	80	120				

Sample ID: LCS-48917	SampT	mpType: LCS Test				TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batcl	Batch ID: 48917				RunNo: 64686						
Prep Date: 11/20/2019	Analysis D)ate: 11	/21/2019	SeqNo: 2216224 Units: mg			Units: mg/K	/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	1.1	0.025	1.000	0	106	80	120					
Toluene	1.1	0.050	1.000	0	110	80	120					
Ethylbenzene	1.1	0.050	1.000	0	109	80	120					
Xylenes, Total	3.3	0.10	3.000	0	109	80	120					
Surr: 4-Bromofluorobenzene	1.1		1.000		111	80	120					

Sample ID: 1911837-001AMS SampType: MS				TestCode: EPA Method 8021B: Volatiles							
Client ID: SW-3	Batcl	n ID: 48	917	F	RunNo: 64686						
Prep Date: 11/20/2019	Analysis Date: 11/21/2019			SeqNo: 2216230			Units: mg/K	(g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	1.0	0.024	0.9597	0	104	76	123				
Toluene	1.0	0.048	0.9597	0	107	80.3	127				
Ethylbenzene	1.0	0.048	0.9597	0	109	80.2	131				
Xylenes, Total	3.1	0.096	2.879	0	109	78	133				
Surr: 4-Bromofluorobenzene	0.97		0.9597		101	80	120				

Sample ID: 1911837-001AMSD SampType: MSD				TestCode: EPA Method 8021B: Volatiles						
Client ID: SW-3 Batch ID: 48917				RunNo: 64686						
Prep Date: 11/20/2019	SeqNo: 2216231 Units: mg/Kg									
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.024	0.9785	0	104	76	123	1.86	20	
Toluene	1.0	0.049	0.9785	0	106	80.3	127	1.26	20	
Ethylbenzene	1.0	0.049	0.9785	0	107	80.2	131	0.184	20	
Xylenes, Total	3.1	0.098	2.935	0	107	78	133	0.327	20	
Surr: 4-Bromofluorobenzene	0.99		0.9785		102	80	120	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 5 of 5



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	ber: 1911837		RcptNo:	1
Received By: Yazmine Garduno	11/19/2019 9:05:00	AM	Yazmin lifterturi		
Completed By: Yazmine Garduno	11/19/2019 10:28:2	6 AM	Magnin lighteut		
Reviewed By: Y 6 11 19 16			V		
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 sample	s?	Yes 🗸	No 🗌	NA 🗌	
4. Were all samples received at a temperatu	re 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 tes	:(s)?	Yes 🗸	No 🗌		
7. Are samples (except VOA and ONG) prop	erly preserved?	Yes 🗸	No 🗌		
8. Was preservative added to bottles?		Yes	No 🗸	NA \square	
9. VOA vials have zero headspace?		Yes	No 🗆	No VOA Vials 🗸	
10. Were any sample containers received bro	ken?	Yes	No 🗹	# of preserved	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes 🗸	No 🗆	bottles checked for pH:	12 unless noted)
2. Are matrices correctly identified on Chain	of Custody?	Yes 🗸	No 🗌	Adjusted?	
3. Is it clear what analyses were requested?		Yes 🗸	No 🗌	_	1
14. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes 🗸	No 🗆	Checked by:	M
Special Handling (if applicable)					17/7/
15. Was client notified of all discrepancies wit	h this order?	Yes	No 🗌	NA 🗸	
Person Notified:	Date		march or principles and a series of the seri		
By Whom:	Via:	eMail P	hone Fax	☐ In Person	
Regarding:					
Client Instructions:					
16. Additional remarks:					
17. Cooler Information	control (Address Address of Lower Control	One production for the beautiful and	a the first or a second state of		
Cooler No Temp °C Condition 1 1.7 Good	Seal Intact Seal No	Seal Date	Signed By		

Date:

Date:



Certificate of Analysis Summary 646005

Souder, Miller & Associates, Carlsbad, NM

Project Name: Trunk A

Project Id:

Project Location:

Contact: Ashley Maxwell

Date Received in Lab: Wed Dec-11-19 04:30 pm

Report Date: 12-DEC-19 Project Manager: Jessica Kramer

	Lab Id:	646005-001			
Analysis Paguested	Field Id:	SW4			
Analysis Requested	Depth:	0-4 ft			
	Matrix:	SOIL			
	Sampled:	Dec-11-19 15:39			
Chloride by EPA 300	Extracted:	Dec-11-19 17:34			
	Analyzed:	Dec-11-19 20:29			
	Units/RL:	mg/kg RL			
Chloride		<9.98 9.98			

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Version: 1.%

Jessica Kramer Project Assistant

Analytical Report 646005

for

Souder, Miller & Associates

Project Manager: Ashley Maxwell
Trunk A

12-DEC-19

Collected By: Client



1089 N Canal Street Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-19-30), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054) Oklahoma (2019-058), North Carolina (681), Arkansas (19-037-0)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (TX104704295-19-22), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-21) Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)

Xenco-Carlsbad (LELAP): Louisiana (05092)

Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5) Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757) Xenco-Tampa: Florida (E87429), North Carolina (483)



12-DEC-19

Project Manager: Ashley Maxwell Souder, Miller & Associates 201 S Halagueno Street Carlsbad, NM 88220

Reference: XENCO Report No(s): 646005

Trunk A
Project Address:

Ashley Maxwell:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 646005. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 646005 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Jessica Kramer

Jessica Vermer

Project Assistant

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - Midland - San Antonio - Phoenix - Oklahoma - Latin America



Sample Cross Reference 646005

Souder, Miller & Associates, Carlsbad, NM

Trunk A

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SW4	S	12-11-19 15:39	0 - 4 ft	646005-001

XENCO

CASE NARRATIVE

Client Name: Souder, Miller & Associates Project Name: Trunk A

Project ID: Report Date: 12-DEC-19
Work Order Number(s): 646005
Date Received: 12/11/2019

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None



Certificate of Analytical Results 646005

Souder, Miller & Associates, Carlsbad, NM

Trunk A

Sample Id: SW4

Matrix:

Soil

Date Received:12.11.19 16.30

Lab Sample Id: 646005-001

Date Collected: 12.11.19 15.39

Sample Depth: 0 - 4 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P % Moisture:

Tech: Analyst: MAB MAB

Date Prep: 12.11.19 17.34

Basis:

Wet Weight

Seq Number: 3110204

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<9.98	9.98	mg/kg	12.11.19 20.29	U	1



Flagging Criteria

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantitation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- **K** Sample analyzed outside of recommended hold time.
- **JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.
- ** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit SDL Sample Detection Limit LOD Limit of Detection

PQL Practical Quantitation Limit MQL Method Quantitation Limit LOQ Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample BLK Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample BKSD/LCSD Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate MS Matrix Spike MSD: Matrix Spike Duplicate

- + NELAC certification not offered for this compound.
- * (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation



QC Summary 646005

Souder, Miller & Associates

Trunk A

LCSD

Analytical Method: Chloride by EPA 300

3110204 Seq Number:

Matrix: Solid

Spike

LCS

Prep Method: E300P

%RPD RPD Limit Units

Date Prep: 12.11.19

LCS Sample Id: 7692228-1-BKS LCSD Sample Id: 7692228-1-BSD MB Sample Id: 7692228-1-BLK LCS

Result Amount Result %Rec Result %Rec Date

Chloride <10.0 250 265 106 263 105 90-110 20 12.11.19 18:32 mg/kg

Analytical Method: Chloride by EPA 300

3110204 Seq Number:

Matrix: Soil

E300P Prep Method:

Parent Sample Id:

645968-001

Date Prep: MSD Sample Id: 645968-001 SD

12.11.19

Analysis

Parameter

MS Sample Id: 645968-001 S

%RPD RPD Limit Units Limits

Analysis

Date

Chloride

Parameter

Parent Spike Result Amount 248 200

MB

MS MS Result %Rec 456 104

MSD MSD Result %Rec 461 106

LCSD

Limits

90-110

mg/kg 12.11.19 18:49 Flag

Flag

Analytical Method: Chloride by EPA 300

Seq Number:

3110204

Matrix: Soil

200

Prep Method:

E300P

12.11.19

Parent Sample Id:

646001-002

MS Sample Id: 646001-002 S

Date Prep: MSD Sample Id: 646001-002 SD

20

Parameter

MS MS Result %Rec

MSD Result

%Rec

MSD

%RPD RPD Limit Units

Analysis Date

Chloride

Parent Spike Result Amount

233

428 98

417

93 90-110

Limits

3 20

12.11.19 20:04 mg/kg

Flag

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference

[D] = 100*(C-A) / BRPD = 200* | (C-E) / (C+E) |[D] = 100 * (C) / [B]

Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample A = Parent Result = MS/LCS Result C

E = MSD/LCSD Result

MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec 12/11/9/10:30/2

Revised Date 022619 Rev. 2019.1



Chain of Custody

Work Order No: 1240 005

Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334 Midland,TX (432) 704-5440 EL Paso,TX (915) 585-3443 Lubbock,TX (806) 794-1296 Crasibad, NM (432) 704-5440

	Project Number:	Lioject Name: 1 1 WUF 11	Project Name of the A	Phone: 505-320-924	Sily, State Zir. Co. L. DOW. IV IV	City State ZIB. (Or clo hard on)	Address: 201 S Hala auton	Company Name:	AWAYAC.	Project Manager: FSN KM MONTA MI
E	Routine Pres.	Turn Around ANALYSIS REQUEST		Email:	City, State ZIP:	Addless	Addison.	Company Name:	Bill to: (if different)	0) (20-2000 West Palm Beach, FL (561) 689-6701
Preservative Codes				Deliverables: FDD Apapt 7	Reporting:Level II	State of Project:	PRP Brownfields RRC Superfund	work order confinents	Work Ordon Comment	FL (561) 689-6701 www.xenco.com Page of

			3		
Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	The state of the s
	the control	ese terms will be enforced unless previously negotiated.	or expenses incurred by the clic to Xenco, but not analyzed. Th	of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	of Xenco. A minimum charge of \$75.00 will be applied
1031/243.1//4/0//4/1:Hg		nd subcontractors. It assigns standard terms and	ompany to Xenco, its affiliates a	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions	Notice: Signature of this document and relinquishmen
V Zn	Mo Ni K Se Ag SiO2 Na	1 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn I Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se An Ti II		e analyzed TCLP / SPLP 6010: 8RCRA	Circle Method(s) and Metal(s) to be analyzed
					Total 200 7 / 6040 200 0 / 6000
			~	SON 12/11/18 2:59 0-4	T.M.S.
Sample Comments	San			S	Sample Identification
received by 4:00pm	TO SIGHTS II		hla	Date Time	
TAT details NaOn, Zn	TAT			N/A	Sample Custody Seals: Yes No.
	NaOH: Na			+	(S)
	HCL: HL			Thermometer ID	°C): /
10	H2S04: H2			Wet Ice:	SAMPLE RECEIPT Temp
2	HNO3: HN			Quote #:	PO#
	None: NO		9	Maxwell Due Date:	BINK
6	меон: ме			Rush-Same De	Project Location
			Code	Routine	r roject warmber.



XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In



Client: Souder, Miller & Associates

Date/ Time Received: 12/11/2019 04:30:00 PM

Work Order #: 646005

Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used: T-NM-007

Sample Receipt Checklis	t	Comments
#1 *Temperature of cooler(s)?	12	
#2 *Shipping container in good condition?	Yes	
#3 *Samples received on ice?	Yes	
#4 *Custody Seals intact on shipping container/ cooler?	Yes	
#5 Custody Seals intact on sample bottles?	Yes	
#6*Custody Seals Signed and dated?	Yes	
#7 *Chain of Custody present?	Yes	
#8 Any missing/extra samples?	No	
#9 Chain of Custody signed when relinquished/ received?	Yes	
#10 Chain of Custody agrees with sample labels/matrix?	Yes	
#11 Container label(s) legible and intact?	Yes	
#12 Samples in proper container/ bottle?	Yes	
#13 Samples properly preserved?	Yes	
#14 Sample container(s) intact?	Yes	
#15 Sufficient sample amount for indicated test(s)?	Yes	
#16 All samples received within hold time?	Yes	
#17 Subcontract of sample(s)?	No	
#18 Water VOC samples have zero headspace?	N/A	

Analyst:		PH Device/Lot#:		
	Checklist completed by:	Elizabeth McClellan	Date: <u>12/11/2019</u>	
	Checklist reviewed by:	Jessica Warner Jessica Kramer	Date: <u>12/12/2019</u>	

* Must be completed for after-hours delivery of samples prior to placing in the refrigerator