Antelope Sink #1 – API# 30-015-10041 (nAPP2205926232)

Calculation of salt water released based off of last known tank gauges showing approx. 21 bbls of salt water prior to the discovery of the leak.



June 6, 2022

#5E31368

NMOCD District 2 811 S. First St Aztec, New Mexico 88220

SUBJECT: Remediation Plan for the Antelope Sink #1 Release (nAPP2205926232), Eddy County, New Mexico

To Whom It May Concern

On behalf of FE-NM, LLC, Souder, Miller & Associates (SMA) has prepared this Remediation Plan that describes the delineation and proposed remediation for a release of liquids related to oil and gas production activities at the Antelope Sink Unit #001 site. The site is in Unit G, Section 18, Township 19S, Range 24E, Eddy County, New Mexico, on State land. Figure 1 illustrates the vicinity and site location on an USGS 7.5 minute quadrangle map.

Table 1, summarizes information regarding the release.

	Table 1: Release Information and Closure Criteria				
Name	Antelope Sink Unit #001	Company	FE-NM		
API Number	30-015-10041	Location	32.66316, -104.62593		
Tracking Number	N/	APP2205926232	2		
Estimated Date of Release	2/17/2022	Date Reported to NMOCD	2/18/2022		
Land Owner	New Mexico State Land	Reported To	NMOCD		
Source of Release	Valve froze which caused the incident				
Released Volume	21 BBL	Released Material Produced Water			
Recovered Volume	0 BBL	Net Release	21 BBL		
NMOCD Closure Criteria	<50 feet to groundwater				
SMA Response Dates	March 30, 2022 and May 20, 2022				

Antelope Sink Unit #001 Remediation Plan June 6, 2022

Page 2 of 4

1.0 Background

On February 17, 2022, a release was discovered at the Antelope sink #1 site due to a frozen valve. Initial response activities were conducted by operator, and included source elimination, containment, and site stabilization activities. Figure 1 illustrates the vicinity and site location, Figures 2 and 3 illustrate the release location. The release notification form is included in Appendix A.

2.0 Site Information and Closure Criteria

The Antelope Sink Unit #001 is an active production facility located approximately 18 miles southwest of Artesia, New Mexico on State land at an elevation of approximately 3823 feet above mean sea level (amsl).

Depth to Groundwater

Based upon New Mexico Office of the State Engineer (Appendix B), depth to groundwater in the area is estimated to be an average of 382 feet below grade surface (bgs). The minimum depth is 285 feet bgs and the maximum is 480 bgs.

Wellhead Protection Area

There are no known water sources within ½-mile of the location, according to the New Mexico Office of the State Engineer (NMOSE) online water well database.

Distance to Nearest Significant Watercourse

The nearest significant watercourse is an unnamed tributary of the Fourmile Draw, located approximately 2,554 feet.

Antelope Sink Unit #001 will be restored to meet the standards of Table I of 19.15.29.12 NMAC. Table 2 demonstrates the Closure Criteria applicable to this location. Figure 2 illustrates the site with 200 and 300-foot radii to indicate that it does not lie within a sensitive area. The site is not considered an "exploration, development, production or storage site" and therefore the top four feet must be remediated to the most stringent standards. Additionally, the release area did not occur on land considered "in-use", as outlined by 19.15.29.13.D NMAC. Therefore, the release area shall be reclaimed within the upper four feet to meet the standards of 19.15.29.13.D(1).

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 in addition to the requirements of reclamation for the upper four feet of impacted soil.

3.0 Release Characterization Activities and Findings

On March 30, 2022 and May 20, 2022, SMA personnel performed site delineation activities at the Antelope Sink Unit #001 site. SMA collected soil samples around the release site and throughout the visibly stained area. The area of visual impact was located entirely outside the boundary of any production or storage facilities.

Soil samples were field-screened for chloride using an electrical conductivity (EC) meter.

A total of six (6) borehole locations (BH1-BH6) were investigated using excavated test pits, to depths up to six (6) feet bgs. A minimum of two samples were collected at each sampling location and field-screened using the method above. A total of twenty-six (26) 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.

Antelope Sink Unit #001 Remediation Plan June 6, 2022

Page 3 of 4

4.0 Proposed Soil Remediation Work Plan

SMA proposes excavation and removal of contaminated soil. The impacted area will be excavated to approximately two (2) to six (6) feet bgs. SMA will guide the excavation by collecting soil samples for field screening for chloride using an EC meter.

The release area will be excavated to the NMOCD Closure Criteria as demonstrated in the attached Table 2. Confirmation samples will be comprised of representative wall and base 5-point composite samples, each representing less than 200 ft² of exposed excavation (Figure 3A). The confirmation samples will be collected from within the excavation in accordance with the sampling protocol included in Appendix C.

Approximately 575 cubic yards of contaminated soil is projected to be removed and replaced with clean backfill material in order to return the surface to previous contours. The contaminated soil will be transported for disposal at R360 Environmental Solutions near Hobbs, NM, an NMOCD-permitted disposal facility. Upon approval by NMOCD, the projected timeline for completion of remediation activities is approximately 90 Days days following approval.

5.0 Scope and Limitations

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

If there are any questions regarding this report, please contact either SMA Project Manager, Lynn A. Acosta, at 505516-7469.

Submitted by: SOUDER, MILLER & ASSOCIATES

Reviewed by:

fynn A. Acosta

Lynn A. Acosta Staff Scientist Ashley Maxwell Senior Scientist

REFERENCES:

New Mexico Office of the State Engineer (NMOSE) online water well database https://gis.ose.state.nm.us/gisapps/ose_pod_locations/; accessed 6/5/2022 Antelope Sink Unit #001 Remediation Plan June 6, 2022

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ATTACHMENTS:

Figures:

Figure 1: Vicinity and Well Head Protection Map

Figure 2: Surface Water Radius Map Figure 3: Site and Sample Location Map

Figure 3A: Confirmation Sample Location Map

Tables:

Table 2: NMOCD Closure Criteria Justification

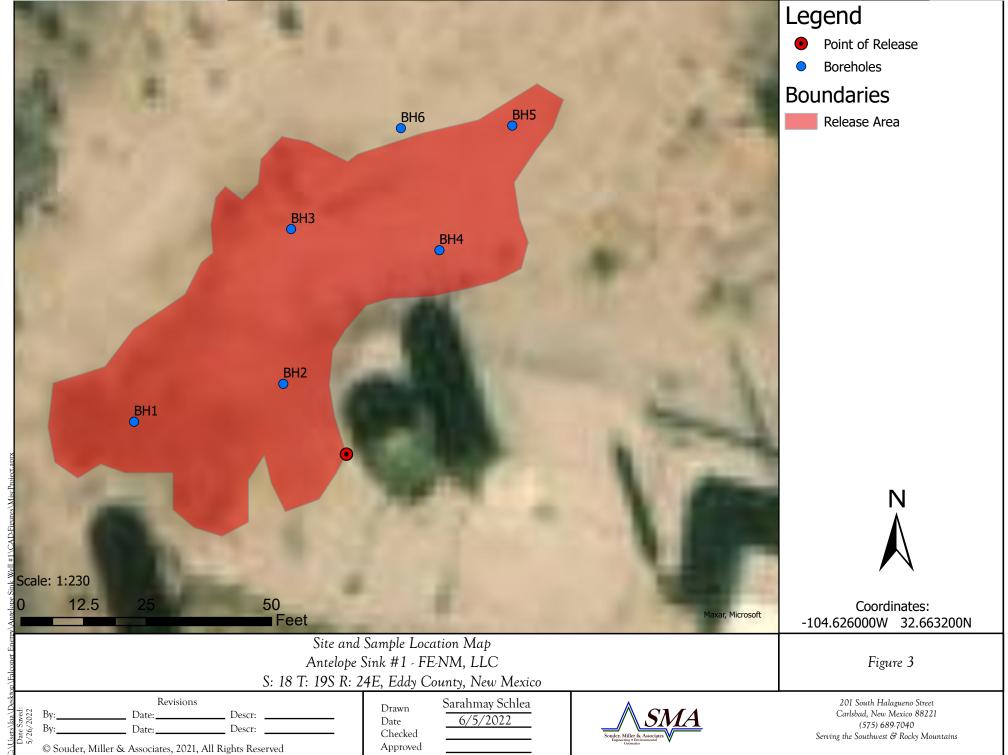
Table 3: Summary of Sample Results

Appendices:

Appendix A: Release Notification Appendix B: NMOSE Wells Report Appendix C: Sampling Protocol

Appendix D: Laboratory Analytical Reports

FIGURES



Antelope Sink #1 - FE-NM, LLC

S: 18 T: 19S R: 24E, Eddy County, New Mexico

Revisions ____ Descr: © Souder, Miller & Associates, 2021, All Rights Reserved

Sarahmay Schlea Drawn 6/5/2022 Date Checked Approved



201 South Halagueno Street Carlsbad, New Mexico 88221 (575) 689-7040 Serving the Southwest & Rocky Mountains

TABLES

Received by OCD: 6/7/2022 1:44:38 PM

Site Information (19.15.29.11.A(2, 3, and 4) NMAC)	Source/Notes	
Depth to Groundwater (feet bgs)	285	New Mexico Office of the State Engineer
Hortizontal Distance From All Water Sources Within 1/2 Mile (ft)	None	United States Geological Survey
Hortizontal Distance to Nearest Significant Watercourse (ft)	2554	Unnamed tributary of the Fourmile Draw

Closure Criteria (19.15.	29.12.B(4) and	Table 1 NMAC)				
Depth to Groundwater		Closure Criteria (units in mg/kg)				
		Chloride *numerical limit or background, whichever is greater	ТРН	GRO + DRO	ВТЕХ	Benzene
< 50' BGS	Х	600	100		50	10
51' to 100'		10000	2500	1000	50	10
>100'		20000	2500	1000	50	10
Surface Water yes or no			if ye	s, then		
<300' from continuously flowing watercourse or other significant watercourse? <200' from lakebed, sinkhole or playa lake? Water Well or Water Source	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 No					
Human and Other Areas		600	100		50	10
<300' from an occupied permanent residence, school, hospital, institution or church? within incorporated municipal boundaries or within a defined municipal	No					
fresh water well field?	No					
<100' from wetland?	No					
within area overlying a subsurface mine No						
within an unstable area? No(Med.Risk		1				
within a 100-year floodplain?	No					

Received by OCD: 6/7/2022 1:44:38 PM

Table 3: Summary of Sample Results

FE-NM, LLC Antelope Sink Well #1

		Depth of Sample	Action	Metho	od 8021B		Metho	d 8015D		Method 300.0
Sample ID	Sample Date	(feet bgs)	Taken	ВТЕХ	Benzene	GRO	DRO	MRO	Total TPH	CI-
				mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
	NMOCD	Closure Criteria		50	10		-		100	600
BG1	3/30/2022	Surface	In-Situ	<0.213	<0.024	<4.7	<9.6	<48	<62.3	<60
501	3/30/2022	1'	In-Situ	<0.224	<0.025	<5.0	<9.3	<47	<61.3	<60
BG2	3/30/2022	Surface	In-Situ	<0.216	<0.024	<4.8	<10	<50	<64.8	<60
DGZ	3/30/2022	1'	In-Situ	<0.213	<0.024	<4.7	<9.5	<47	<61.2	<60
	3/30/2022	Surface		<0.222	<0.025	<4.9	<9.5	<47	<61.4	19000
BH1	3/30/2022	1	Excavate	<0.221	<0.025	<4.9	<9.6	<48	<62.5	27000
DIII	5/20/2022	3		-	-	-	-	-	-	6500
	5/20/2022	6	In-Situ	-	-	-	1	-	-	<60
	3/30/2022	Surface		<0.220	<0.024	<4.9	<8.5	<43	<56.4	15000
BH2	3/30/2022	1	Excavate	<0.225	<0.025	<5.0	<10	<50	<65	6100
ВΠΖ	5/20/2022	3		-	-	-	-	-	-	4600
	5/20/2022	5	In-Situ	-	-	-	1	-	-	<60
	3/30/2022	Surface		<0.217	<0.024	<4.8	<9.3	<47	<61.1	4400
вн3	3/30/2022	1	Excavate	<0.219	<0.024	<4.9	<9.8	<49	<63.7	5700
впз	5/20/2022	3		-	-	-	-	-	-	2400
	5/20/2020	5	In-Situ	-	-	-	-	-	-	<60
	3/30/2022	Surface		<0.215	<0.024	<4.8	370	1000	1370	10000
BH4	3/30/2022	1	Excavate	<0.219	<0.024	<4.9	110	300	410	3900
вн4	5/20/2022	3		-	-	<4.8	<9.3	<46	<60.1	2400
	5/20/2022	6	In-Situ	-	-	<4.8	<9.2	<46	<60.1	<60
	3/30/2022	Surface	Cyceyote	<0.215	<0.024	<4.8	240	700	940	<60
חויר	3/30/2022	1	Excavate - In-Situ	<0.216	<0.024	<4.8	37	140	177	<60
BH5	5/20/2022	2		-	-	<5.0	<9.7	<48	<62.7	-
	5/20/2022	3	In-Situ	-	-	<4.9	<9.7	<49	<63.6	-
DUC	3/30/2022	Surface	In-Situ	<0.222	<0.025	<4.9	<9.7	<48	<62.6	<60
вн6	3/30/2022	1	In-Situ	<0.220	<0.024	<4.9	<9.5	<48	<62.4	<60

"-" = Not Analyzed

BG: Background sample

APPENDIX A RELEASE NOTIFICATION

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720

District II 811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. **Santa Fe, NM 87505**

QUESTIONS

Action 82668

QUESTIONS

Operator:	OGRID:
FE-NM, LLC	331102
1001 E SE Loop 323, STE. 160	Action Number:
Tyler, TX 75711	82668
	Action Type:
	[NOTIFY] Notification Of Release (NOR)

QUESTIONS

Location of Release Source		
Please answer all of the questions in this group.		
Site Name	Antelope Sink #1	
Date Release Discovered	02/17/2022	
Surface Owner State		

Incident Details				
Please answer all of the questions in this group.				
Incident Type	Produced Water Release			
Did this release result in a fire or is the result of a fire	No			
Has this release reached or does it have a reasonable probability of reaching a watercourse	No			
Has this release endangered or does it have a reasonable probability of endangering public health	No			
Has this release substantially damaged or will it substantially damage property or the environment	No			
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No			

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications	for the volumes provided should be attached to the follow-up C-141 submission.
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Freeze Valve Produced Water Released: 21 BBL Recovered: 0 BBL Lost: 21 BBL]
Is the concentration of dissolved chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

District I 1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720 District II

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State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. **Santa Fe, NM 87505**

QUESTIONS, Page 2

Action 82668

QUEST	IIONS:	(contini	ued)

Operator:	OGRID:
FE-NM, LLC	331102
1001 E SE Loop 323, STE. 160	Action Number:
Tyler, TX 75711	82668
	Action Type:
	[NOTIFY] Notification Of Release (NOR)

QUESTIONS

Nature and Volume of Release (continued)				
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.			
Was this a major release as defined by 19.15.29.7(A) NMAC	No, minor release.			
Reasons why this would be considered a submission for a notification of a major release				
If YES, was immediate notice given to the OCD, by whom	Not answered.			
If YES, was immediate notice given to the OCD, to whom	Not answered.			
If YES, was immediate notice given to the OCD, when	Not answered.			
If YES, was immediate notice given to the OCD, by what means (phone, email, etc.)	Not answered.			
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.				

Initial Response				
The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.				
The source of the release has been stopped	True			
The impacted area has been secured to protect human health and the environment	True			
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	False			
All free liquids and recoverable materials have been removed and managed appropriately	True			
If all the actions described above have not been undertaken, explain why	The site does not have containment source. Also, the water soaked into the ground before leaving the tank battery area.			

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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ACKNOWLEDGMENTS

Action 82668

ACKNOWLEDGMENTS

Operator:	OGRID:
FE-NM, LLC	331102
1001 E SE Loop 323, STE. 160	Action Number:
Tyler, TX 75711	82668
	Action Type:
	[NOTIFY] Notification Of Release (NOR)

ACKNOWLEDGMENTS

14/4	I acknowledge that I am authorized to submit notification of a releases on behalf of my operator.
V	I acknowledge that upon submitting this application, I will be creating a new incident file (assigned to my operator) to track the notification(s) and corrective action(s) for a release, pursuant to NMAC 19.15.29.
W	I acknowledge that creating a new incident file will require my operator to file subsequent submission(s) of form "C-141, Application for administrative approval of a release notification and corrective action", pursuant to NMAC 19.15.29.
V	I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment.
V	I acknowledge the fact that the acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment.
V	I acknowledge the fact that, in addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

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State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. **Santa Fe, NM 87505**

CONDITIONS

Action 82668

CONDITIONS

Operator:	OGRID:
FE-NM, LLC	331102
1001 E SE Loop 323, STE. 160	Action Number:
Tyler, TX 75711	82668
	Action Type:
	[NOTIFY] Notification Of Release (NOR)

CONDITIONS

Created By	Condition	Condition Date
kcharles	When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-141.	2/28/2022

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								•	Water
POD Number	Code	basin	County	64	16	4	Sec	Tws	Rng	X	Y	DistanceDe	pthWellDe	pthWater C	olumn
<u>RA 07942</u>		RA	ED	4	2	2	13	19S	23E	533987	3614242*	1114	2900		
<u>RA 07466</u>		RA	ED			2	13	19S	23E	533686	3614137*	1396	627	480	147
RA 07466 CLW		RA	ED			2	13	19S	23E	533686	3614137*	1396	288		
<u>RA 06777</u>		RA	ED		4	1	07	19S	24E	534686	3615577*	1617	800		
RA 12972 POD1		RA	ED	3	2	1	13	198	23E	532998	3614250	2092	321	285	36

Average Depth to Water:

382 feet

Minimum Depth:

285 feet

Maximum Depth:

480 feet

Record Count: 5

UTMNAD83 Radius Search (in meters):

Easting (X): 535076.34

Northing (Y): 3614007.63

Radius: 2500

*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.

5/25/22 5:42 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER

APPENDIX C SAMPLING PROTOCOL



Sampling Protocol

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 twenty-six (26) 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.

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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

June 06, 2022

Lynn A. Acosta Souder, Miller & Associates 201 S Halagueno Carlsbad, NM 88221 TEL: FAX:

RE: Antelope Well 1 OrderNo.: 2203F71

Dear Lynn A. Acosta:

Hall Environmental Analysis Laboratory received 12 sample(s) on 3/30/2022 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued April 11, 2022.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated.

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

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

Sincerely,

Andy Freeman

Laboratory Manager

andy

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order **2203F71**Date Reported: **6/6/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: BH1-Surface

 Project:
 Antelope Well 1
 Collection Date: 3/29/2022 8:15:00 AM

 Lab ID:
 2203F71-001
 Matrix: SOIL
 Received Date: 3/30/2022 9:15:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: JMT
Chloride	19000	1500	mg/Kg	500	4/6/2022 6:23:51 PM	66638
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analys	t: ED
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	4/1/2022 11:37:03 PM	66523
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	4/1/2022 11:37:03 PM	66523
Surr: DNOP	75.6	51.1-141	%Rec	1	4/1/2022 11:37:03 PM	66523
EPA METHOD 8015D: GASOLINE RANGE					Analys	t: CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	4/1/2022 10:49:00 PM	66508
Surr: BFB	101	37.7-212	%Rec	1	4/1/2022 10:49:00 PM	66508
EPA METHOD 8021B: VOLATILES					Analys	t: CCM
Benzene	ND	0.025	mg/Kg	1	4/1/2022 10:49:00 PM	66508
Toluene	ND	0.049	mg/Kg	1	4/1/2022 10:49:00 PM	66508
Ethylbenzene	ND	0.049	mg/Kg	1	4/1/2022 10:49:00 PM	66508
Xylenes, Total	ND	0.099	mg/Kg	1	4/1/2022 10:49:00 PM	66508
Surr: 4-Bromofluorobenzene	85.4	70-130	%Rec	1	4/1/2022 10:49:00 PM	66508

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 interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Lab Order 2203F71

Hall Environmental Analysis Laboratory, Inc. Date Reported: 6/6/2022

CLIENT: Souder, Miller & Associates **Client Sample ID:** BH1-1'

Project: Antelope Well 1
 Collection Date: 3/29/2022 8:17:00 AM

 Lab ID: 2203F71-002
 Matrix: SOIL
 Received Date: 3/30/2022 9:15:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: JMT
Chloride	27000	1500	mg/Kg	500	4/6/2022 6:36:16 PM	66638
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analys	t: ED
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	4/2/2022 12:49:32 AM	66523
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	4/2/2022 12:49:32 AM	66523
Surr: DNOP	63.6	51.1-141	%Rec	1	4/2/2022 12:49:32 AM	66523
EPA METHOD 8015D: GASOLINE RANGE					Analys	t: CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	4/1/2022 11:48:00 PM	66508
Surr: BFB	104	37.7-212	%Rec	1	4/1/2022 11:48:00 PM	66508
EPA METHOD 8021B: VOLATILES					Analys	t: CCM
Benzene	ND	0.025	mg/Kg	1	4/1/2022 11:48:00 PM	66508
Toluene	ND	0.049	mg/Kg	1	4/1/2022 11:48:00 PM	66508
Ethylbenzene	ND	0.049	mg/Kg	1	4/1/2022 11:48:00 PM	66508
Xylenes, Total	ND	0.098	mg/Kg	1	4/1/2022 11:48:00 PM	66508
Surr: 4-Bromofluorobenzene	87.0	70-130	%Rec	1	4/1/2022 11:48:00 PM	66508

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 interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Lab Order **2203F71**Date Reported: **6/6/2022**

Hall Environmental Analysis Laboratory, Inc.

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CLIENT: Souder, Miller & Associates Client Sample ID: BH2-Surface

 Project:
 Antelope Well 1
 Collection Date: 3/29/2022 8:20:00 AM

 Lab ID:
 2203F71-003
 Matrix: SOIL
 Received Date: 3/30/2022 9:15:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: JMT
Chloride	15000	1500	mg/Kg	500	0 4/6/2022 12:36:21 PM	66638
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analys	t: ED
Diesel Range Organics (DRO)	ND	8.5	mg/Kg	1	4/2/2022 1:13:35 AM	66523
Motor Oil Range Organics (MRO)	ND	43	mg/Kg	1	4/2/2022 1:13:35 AM	66523
Surr: DNOP	87.6	51.1-141	%Rec	1	4/2/2022 1:13:35 AM	66523
EPA METHOD 8015D: GASOLINE RANGE					Analys	t: CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	4/2/2022 12:48:00 AM	66508
Surr: BFB	106	37.7-212	%Rec	1	4/2/2022 12:48:00 AM	66508
EPA METHOD 8021B: VOLATILES					Analys	t: CCM
Benzene	ND	0.024	mg/Kg	1	4/2/2022 12:48:00 AM	66508
Toluene	ND	0.049	mg/Kg	1	4/2/2022 12:48:00 AM	66508
Ethylbenzene	ND	0.049	mg/Kg	1	4/2/2022 12:48:00 AM	66508
Xylenes, Total	ND	0.098	mg/Kg	1	4/2/2022 12:48:00 AM	66508
Surr: 4-Bromofluorobenzene	85.0	70-130	%Rec	1	4/2/2022 12:48:00 AM	66508

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 interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Lab Order 2203F71

Hall Environmental Analysis Laboratory, Inc. Date Reported: 6/6/2022

CLIENT: Souder, Miller & Associates Client Sample ID: BH2-1'

 Project:
 Antelope Well 1
 Collection Date: 3/29/2022 8:22:00 AM

 Lab ID:
 2203F71-004
 Matrix: SOIL
 Received Date: 3/30/2022 9:15:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: JMT
Chloride	6100	300	mg/Kg	100	4/6/2022 1:13:35 PM	66638
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analys	t: ED
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	4/2/2022 1:37:40 AM	66523
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	4/2/2022 1:37:40 AM	66523
Surr: DNOP	101	51.1-141	%Rec	1	4/2/2022 1:37:40 AM	66523
EPA METHOD 8015D: GASOLINE RANGE					Analys	t: CCM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	4/2/2022 1:07:00 AM	66508
Surr: BFB	100	37.7-212	%Rec	1	4/2/2022 1:07:00 AM	66508
EPA METHOD 8021B: VOLATILES					Analys	t: CCM
Benzene	ND	0.025	mg/Kg	1	4/2/2022 1:07:00 AM	66508
Toluene	ND	0.050	mg/Kg	1	4/2/2022 1:07:00 AM	66508
Ethylbenzene	ND	0.050	mg/Kg	1	4/2/2022 1:07:00 AM	66508
Xylenes, Total	ND	0.10	mg/Kg	1	4/2/2022 1:07:00 AM	66508
Surr: 4-Bromofluorobenzene	85.5	70-130	%Rec	1	4/2/2022 1:07:00 AM	66508

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 interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Lab Order **2203F71**Date Reported: **6/6/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: BH3-Surface

 Project:
 Antelope Well 1
 Collection Date: 3/29/2022 8:24:00 AM

 Lab ID:
 2203F71-005
 Matrix: SOIL
 Received Date: 3/30/2022 9:15:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: JMT
Chloride	4400	300	mg/Kg	100	4/6/2022 1:50:48 PM	66638
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analys	t: TOM
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	4/4/2022 6:35:20 PM	66523
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	4/4/2022 6:35:20 PM	66523
Surr: DNOP	71.4	51.1-141	%Rec	1	4/4/2022 6:35:20 PM	66523
EPA METHOD 8015D: GASOLINE RANGE					Analys	t: CCM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	4/2/2022 1:27:00 AM	66508
Surr: BFB	100	37.7-212	%Rec	1	4/2/2022 1:27:00 AM	66508
EPA METHOD 8021B: VOLATILES					Analys	t: CCM
Benzene	ND	0.024	mg/Kg	1	4/2/2022 1:27:00 AM	66508
Toluene	ND	0.048	mg/Kg	1	4/2/2022 1:27:00 AM	66508
Ethylbenzene	ND	0.048	mg/Kg	1	4/2/2022 1:27:00 AM	66508
Xylenes, Total	ND	0.097	mg/Kg	1	4/2/2022 1:27:00 AM	66508
Surr: 4-Bromofluorobenzene	84.0	70-130	%Rec	1	4/2/2022 1:27:00 AM	66508

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 interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Lab Order 2203F71

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 6/6/2022

CLIENT: Souder, Miller & Associates **Client Sample ID:** BH3-1'

 Project:
 Antelope Well 1
 Collection Date: 3/29/2022 8:26:00 AM

 Lab ID:
 2203F71-006
 Matrix: SOIL
 Received Date: 3/30/2022 9:15:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: JMT
Chloride	5700	300	mg/Kg	100	4/6/2022 2:03:13 PM	66638
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analys	st: ED
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	4/2/2022 2:25:55 AM	66523
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	4/2/2022 2:25:55 AM	66523
Surr: DNOP	54.9	51.1-141	%Rec	1	4/2/2022 2:25:55 AM	66523
EPA METHOD 8015D: GASOLINE RANGE					Analys	t: CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	4/2/2022 1:47:00 AM	66508
Surr: BFB	105	37.7-212	%Rec	1	4/2/2022 1:47:00 AM	66508
EPA METHOD 8021B: VOLATILES					Analys	t: CCM
Benzene	ND	0.024	mg/Kg	1	4/2/2022 1:47:00 AM	66508
Toluene	ND	0.049	mg/Kg	1	4/2/2022 1:47:00 AM	66508
Ethylbenzene	ND	0.049	mg/Kg	1	4/2/2022 1:47:00 AM	66508
Xylenes, Total	ND	0.097	mg/Kg	1	4/2/2022 1:47:00 AM	66508
Surr: 4-Bromofluorobenzene	87.1	70-130	%Rec	1	4/2/2022 1:47:00 AM	66508

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 Quantitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Lab Order 2203F71

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 6/6/2022

CLIENT: Souder, Miller & Associates Client Sample ID: BH4-Surface

Project: Antelope Well 1
 Collection Date: 3/29/2022 8:30:00 AM

 Lab ID: 2203F71-007
 Matrix: SOIL
 Received Date: 3/30/2022 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analys	t: JMT
Chloride	10000	600		mg/Kg	200	4/6/2022 2:40:28 PM	66638
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS					Analys	t: ED
Diesel Range Organics (DRO)	370	90		mg/Kg	10	4/2/2022 2:49:50 AM	66523
Motor Oil Range Organics (MRO)	1000	450		mg/Kg	10	4/2/2022 2:49:50 AM	66523
Surr: DNOP	0	51.1-141	S	%Rec	10	4/2/2022 2:49:50 AM	66523
EPA METHOD 8015D: GASOLINE RANGE						Analys	t: CCM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/2/2022 2:07:00 AM	66508
Surr: BFB	105	37.7-212		%Rec	1	4/2/2022 2:07:00 AM	66508
EPA METHOD 8021B: VOLATILES						Analys	t: CCM
Benzene	ND	0.024		mg/Kg	1	4/2/2022 2:07:00 AM	66508
Toluene	ND	0.048		mg/Kg	1	4/2/2022 2:07:00 AM	66508
Ethylbenzene	ND	0.048		mg/Kg	1	4/2/2022 2:07:00 AM	66508
Xylenes, Total	ND	0.095		mg/Kg	1	4/2/2022 2:07:00 AM	66508
Surr: 4-Bromofluorobenzene	85.5	70-130		%Rec	1	4/2/2022 2:07:00 AM	66508

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 interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- 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 **2203F71**Date Reported: **6/6/2022**

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BH4-1'

 Project:
 Antelope Well 1
 Collection Date: 3/29/2022 8:32:00 AM

 Lab ID:
 2203F71-008
 Matrix: SOIL
 Received Date: 3/30/2022 9:15:00 AM

Result **RL Oual Units DF** Date Analyzed **Batch** Analyses **EPA METHOD 300.0: ANIONS** Analyst: JMT Chloride 3900 150 mg/Kg 50 4/6/2022 2:52:52 PM 66638 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: ED Diesel Range Organics (DRO) 9.8 mg/Kg 4/2/2022 3:13:58 AM 66523 Motor Oil Range Organics (MRO) 300 49 mg/Kg 1 4/2/2022 3:13:58 AM 66523 Surr: DNOP 80.0 51.1-141 %Rec 4/2/2022 3:13:58 AM 66523 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: CCM Gasoline Range Organics (GRO) ND 4/2/2022 2:27:00 AM 66508 4.9 mg/Kg Surr: BFB 103 37.7-212 %Rec 4/2/2022 2:27:00 AM 66508 **EPA METHOD 8021B: VOLATILES** Analyst: CCM Benzene ND 0.024 66508 mg/Kg 4/2/2022 2:27:00 AM Toluene ND 0.049 mg/Kg 4/2/2022 2:27:00 AM 66508 Ethylbenzene ND 0.049 mg/Kg 1 4/2/2022 2:27:00 AM 66508 Xylenes, Total ND 0.097 mg/Kg 4/2/2022 2:27:00 AM 66508 Surr: 4-Bromofluorobenzene 70-130 86.6 %Rec 4/2/2022 2:27:00 AM 66508

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 interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Lab Order **2203F71**Date Reported: **6/6/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: BH5-Surface

 Project:
 Antelope Well 1
 Collection Date: 3/29/2022 8:35:00 AM

 Lab ID:
 2203F71-009
 Matrix: SOIL
 Received Date: 3/30/2022 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analys	t: JMT
Chloride	ND	60		mg/Kg	20	4/6/2022 3:05:17 PM	66638
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analys	t: SB
Diesel Range Organics (DRO)	240	100		mg/Kg	10	4/6/2022 11:30:29 AM	66650
Motor Oil Range Organics (MRO)	700	500		mg/Kg	10	4/6/2022 11:30:29 AM	66650
Surr: DNOP	0	51.1-141	S	%Rec	10	4/6/2022 11:30:29 AM	66650
EPA METHOD 8015D: GASOLINE RANGE						Analys	t: CCM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/2/2022 2:46:00 AM	66508
Surr: BFB	109	37.7-212		%Rec	1	4/2/2022 2:46:00 AM	66508
EPA METHOD 8021B: VOLATILES						Analys	t: CCM
Benzene	ND	0.024		mg/Kg	1	4/2/2022 2:46:00 AM	66508
Toluene	ND	0.048		mg/Kg	1	4/2/2022 2:46:00 AM	66508
Ethylbenzene	ND	0.048		mg/Kg	1	4/2/2022 2:46:00 AM	66508
Xylenes, Total	ND	0.095		mg/Kg	1	4/2/2022 2:46:00 AM	66508
Surr: 4-Bromofluorobenzene	86.9	70-130		%Rec	1	4/2/2022 2:46:00 AM	66508

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 interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Lab Order **2203F71**Date Reported: **6/6/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: BH5-1'

 Project:
 Antelope Well 1
 Collection Date: 3/29/2022 8:37:00 AM

 Lab ID:
 2203F71-010
 Matrix: SOIL
 Received Date: 3/30/2022 9:15:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analys	t: JMT	
Chloride	ND	60	mg/Kg	20	4/6/2022 3:42:31 PM	66638
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS					Analys	t: TOM
Diesel Range Organics (DRO)	37	9.8	mg/Kg	1	4/4/2022 8:12:51 PM	66523
Motor Oil Range Organics (MRO)	140	49	mg/Kg	1	4/4/2022 8:12:51 PM	66523
Surr: DNOP	81.0	51.1-141	%Rec	1	4/4/2022 8:12:51 PM	66523
EPA METHOD 8015D: GASOLINE RANGE					Analys	t: CCM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	4/2/2022 3:06:00 AM	66508
Surr: BFB	102	37.7-212	%Rec	1	4/2/2022 3:06:00 AM	66508
EPA METHOD 8021B: VOLATILES					Analys	t: CCM
Benzene	ND	0.024	mg/Kg	1	4/2/2022 3:06:00 AM	66508
Toluene	ND	0.048	mg/Kg	1	4/2/2022 3:06:00 AM	66508
Ethylbenzene	ND	0.048	mg/Kg	1	4/2/2022 3:06:00 AM	66508
Xylenes, Total	ND	0.096	mg/Kg	1	4/2/2022 3:06:00 AM	66508
Surr: 4-Bromofluorobenzene	85.7	70-130	%Rec	1	4/2/2022 3:06:00 AM	66508

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 interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- 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 **2203F71**Date Reported: **6/6/2022**

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BH6-Surface

 Project:
 Antelope Well 1
 Collection Date: 3/29/2022 8:40:00 AM

 Lab ID:
 2203F71-011
 Matrix: SOIL
 Received Date: 3/30/2022 9:15:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS Analyst: J						st: JMT
Chloride	ND	60	mg/Kg	20	4/6/2022 3:54:55 PM	66638
EPA METHOD 8015M/D: DIESEL RANGE ORG			Analys	st: TOM		
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	4/4/2022 8:37:07 PM	66523
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	4/4/2022 8:37:07 PM	66523
Surr: DNOP	97.1	51.1-141	%Rec	1	4/4/2022 8:37:07 PM	66523
EPA METHOD 8015D: GASOLINE RANGE					Analys	st: CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	4/2/2022 4:25:00 AM	66508
Surr: BFB	106	37.7-212	%Rec	1	4/2/2022 4:25:00 AM	66508
EPA METHOD 8021B: VOLATILES					Analys	st: CCM
Benzene	ND	0.025	mg/Kg	1	4/2/2022 4:25:00 AM	66508
Toluene	ND	0.049	mg/Kg	1	4/2/2022 4:25:00 AM	66508
Ethylbenzene	ND	0.049	mg/Kg	1	4/2/2022 4:25:00 AM	66508
Xylenes, Total	ND	0.099	mg/Kg	1	4/2/2022 4:25:00 AM	66508
Surr: 4-Bromofluorobenzene	85.0	70-130	%Rec	1	4/2/2022 4:25:00 AM	66508

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 interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- 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 **2203F71**Date Reported: **6/6/2022**

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BH6-1'

 Project:
 Antelope Well 1
 Collection Date: 3/29/2022 8:42:00 AM

 Lab ID:
 2203F71-012
 Matrix: SOIL
 Received Date: 3/30/2022 9:15:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analys	t: JMT	
Chloride	ND	60	mg/Kg	20	4/6/2022 4:07:19 PM	66638
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS					Analys	t: TOM
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	4/4/2022 9:01:24 PM	66523
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	4/4/2022 9:01:24 PM	66523
Surr: DNOP	80.1	51.1-141	%Rec	1	4/4/2022 9:01:24 PM	66523
EPA METHOD 8015D: GASOLINE RANGE					Analys	t: CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	4/2/2022 4:45:00 AM	66508
Surr: BFB	101	37.7-212	%Rec	1	4/2/2022 4:45:00 AM	66508
EPA METHOD 8021B: VOLATILES					Analys	t: CCM
Benzene	ND	0.024	mg/Kg	1	4/2/2022 4:45:00 AM	66508
Toluene	ND	0.049	mg/Kg	1	4/2/2022 4:45:00 AM	66508
Ethylbenzene	ND	0.049	mg/Kg	1	4/2/2022 4:45:00 AM	66508
Xylenes, Total	ND	0.098	mg/Kg	1	4/2/2022 4:45:00 AM	66508
Surr: 4-Bromofluorobenzene	83.3	70-130	%Rec	1	4/2/2022 4:45:00 AM	66508

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 Quantitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2203F71**

06-Jun-22

Client: Souder, Miller & Associates

Project: Antelope Well 1

Sample ID: MB-66638 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 66638 RunNo: 87038

Prep Date: 4/5/2022 Analysis Date: 4/6/2022 SeqNo: 3077760 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-66638 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 66638 RunNo: 87038

Prep Date: 4/5/2022 Analysis Date: 4/6/2022 SeqNo: 3077761 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 91.3 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 Quantitative Limit

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

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

2203F71

WO#:

06-Jun-22

Client: Souder, Miller & Associates

Project: Antelope Well 1

Project: Antelope	Well 1									
Sample ID: 2203F71-001AMS	Samp	Гуре: М	5	Tes	stCode: El	PA Method	8015M/D: Die	sel Range	Organics	
Client ID: BH1-Surface	Batcl	h ID: 66	523	F	RunNo: 80	6957				
Prep Date: 3/31/2022	Analysis [Date: 4/	2/2022	;	SeqNo: 30	072505	Units: mg/K	ζg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	37	9.6	48.17	0	77.4	36.1	154			
Surr: DNOP	2.0		4.817		40.9	51.1	141			S
Sample ID: 2203F71-001AMSI	D Samp1	Гуре: М	SD	Tes	stCode: El	PA Method	8015M/D: Die	sel Range	Organics	
Client ID: BH1-Surface	Batcl	Batch ID: 66523 RunNo: 86957								
Prep Date: 3/31/2022	Analysis [Date: 4/	2/2022	;	SeqNo: 30	072506	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	9.7	48.64	0	90.3	36.1	154	16.3	33.9	
Surr: DNOP	1.9		4.864		39.7	51.1	141	0	0	S
Sample ID: LCS-66523	Samp1	Гуре: LC	s	Tes	stCode: El	PA Method	8015M/D: Die	sel Range	Organics	
Client ID: LCSS	Batcl	h ID: 66	523	F	RunNo: 8	6957				
Prep Date: 3/31/2022	Analysis [Analysis Date: 4/1/2022			SeqNo: 30	072547	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	43	10	50.00	0	86.2	68.9	135			
Surr: DNOP	4.6		5.000		91.7	51.1	141			
Sample ID: MB-66523	Samp1	Гуре: МЕ	BLK	Tes	stCode: El	PA Method	8015M/D: Die	sel Range	Organics	
Client ID: PBS	Batcl	h ID: 66	523	F	RunNo: 8	6957				
Prep Date: 3/31/2022	Analysis [Date: 4/	1/2022	;	SeqNo: 30	072549	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		104	51.1	141			
Sample ID: MB-66650	Samp	Гуре: МЕ	BLK	Tes	stCode: El	PA Method	8015M/D: Die	sel Range	Organics	
Client ID: PBS	Batcl	h ID: 66	650	F	RunNo: 8	7033				
Prep Date: 4/5/2022	Analysis [Date: 4/	6/2022	;	SeqNo: 30	075736	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								
O DNOD	0.0		40.00		00 4		4 / 4			

Qualifiers:

Surr: DNOP

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

8.6

B Analyte detected in the associated Method Blank

86.1

51.1

141

E Estimated value

10.00

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2203F71**

06-Jun-22

Client: Souder, Miller & Associates

Project: Antelope Well 1

Sample ID: LCS-66650 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 66650 RunNo: 87033

Prep Date: 4/5/2022 Analysis Date: 4/6/2022 SeqNo: 3075737 Units: mg/Kg

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

 Diesel Range Organics (DRO)
 48
 10
 50.00
 0
 96.4
 68.9
 135

 Surr: DNOP
 4.2
 5.000
 84.5
 51.1
 141

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 interference

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

29

2300

4.9

24.49

979.4

WO#: **2203F71** *06-Jun-22*

S

Client: Souder, Miller & Associates

Project: Antelope Well 1

Sample ID: Ics-66508	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range
Client ID: LCSS	Batch ID: 66508	RunNo: 86911
Prep Date: 3/30/2022	Analysis Date: 4/1/2022	SeqNo: 3071525 Units: mg/Kg
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Gasoline Range Organics (GRO)	28 5.0 25.00	0 112 72.3 137
Surr: BFB	2200 1000	225 37.7 212 S
Sample ID: mb-66508	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range
Client ID: PBS	Batch ID: 66508	RunNo: 86911
Prep Date: 3/30/2022	Analysis Date: 4/1/2022	SeqNo: 3071526 Units: mg/Kg
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Gasoline Range Organics (GRO)	ND 5.0	
Surr: BFB	1000 1000	104 37.7 212
Sample ID: 2203F71-001ams	SampType: MS	TestCode: EPA Method 8015D: Gasoline Range
Client ID: BH1-Surface	Batch ID: 66508	RunNo: 86911
Prep Date: 3/30/2022	Analysis Date: 4/1/2022	SeqNo: 3071528 Units: mg/Kg
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Sample ID: 2203F71-001ams	d Samp	Гуре: М.	SD	TestCode: EPA Method 8015D: Gasoline Range							
Client ID: BH1-Surface	Batc	h ID: 66	508	F	RunNo: 80	6911					
Prep Date: 3/30/2022	Analysis I	Date: 4/	1/2022	5	SeqNo: 30	071529	1529 Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	29	4.9	24.51	0	119	70	130	0.203	20		
Surr: BFB	2300		980.4		239	37.7	212	0	0	S	

0

120

238

70

37.7

130

212

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix

Gasoline Range Organics (GRO)

Surr: BFB

- 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 interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2203F71** *06-Jun-22*

Client: Souder, Miller & Associates

Project: Antelope Well 1

Sample ID: Ics-66508	SampType: LCS			Tes								
Client ID: LCSS	Batcl	h ID: 665	808	F	RunNo: 86911							
Prep Date: 3/30/2022	Analysis [Date: 4/ 1	4/1/2022 SeqNo: 3071497					Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	0.88	0.025	1.000	0	88.3	80	120					
Toluene	0.90	0.050	1.000	0	89.9	80	120					
Ethylbenzene	0.91	0.050	1.000	0	90.6	80	120					
Xylenes, Total	2.7	0.10	3.000	0	90.4	80	120					
Surr: 4-Bromofluorobenzene	0.89		1.000		89.1	70	130					

Sample ID: mb-66508	Samp1	SampType: MBLK TestCode: EPA Method					8021B: Volati	les			
Client ID: PBS	Batcl	n ID: 665	508	RunNo: 86911							
Prep Date: 3/30/2022	Analysis D	Date: 4/	1/2022	5	SeqNo: 30	071498	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	0.87		1.000		87.3	70	130				

Sample ID: 2203F71-002ams	Samp	Гуре: МЅ	}	TestCode: EPA Method 8021B: Volatiles							
Client ID: BH1-1'	Batcl	h ID: 665	08 RunNo: 86911								
Prep Date: 3/30/2022	Analysis [Date: 4/2	2/2022	5	SeqNo: 30	071501	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.87	0.024	0.9737	0	88.9	68.8	120				
Toluene	0.89	0.049	0.9737	0	91.1	73.6	124				
Ethylbenzene	0.90	0.049	0.9737	0	92.4	72.7	129				
Xylenes, Total	2.7	0.097	2.921	0	92.4	75.7	126				
Surr: 4-Bromofluorobenzene	0.85		0.9737		87.1	70	130				

Sample ID: 2203F71-002amsd	SampT	SampType: MSD TestCode: EPA Method 8					8021B: Volati	les			
Client ID: BH1-1'	Batcl	Batch ID: 66508 RunNo: 86911									
Prep Date: 3/30/2022	Analysis D	Date: 4/2	2/2022	5	SeqNo: 30	71502	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.82	0.024	0.9671	0	84.5	68.8	120	5.78	20		
Toluene	0.84	0.048	0.9671	0	86.8	73.6	124	5.51	20		
Ethylbenzene	0.85	0.048	0.9671	0	88.3	72.7	129	5.25	20		
Xylenes, Total	2.6	0.097	2.901	0	88.1	75.7	126	5.38	20		
Surr: 4-Bromofluorobenzene	0.84		0.9671		87.2	70	130	0	0		

Qualifiers:

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

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

Sample Log-In Check List

		Website: clie	nts.hallenvironmen	tal.com		
Client Name:	Souder, Miller & Associates	Work Order Nu	mber: 2203F71		RcptNo: 1	
Received By:	Juan Rojas	3/30/2022 9:15:00	O AM	Heaven &		
Completed By:	Sean Livingston	3/30/2022 10:08:	15 AM	Guarage Sal		
Reviewed By:	Jn 3/30/2			Jr-L,	got	
Chain of Cus	<u>tody</u>					
1. Is Chain of Co	ustody complete?		Yes 🗸	No 🗌	Not Present	
2. How was the	sample delivered?		Courier		Not Flesell	
Log In						
3. Was an attem	pt made to cool the samp	les?	Yes 🗸	No 🗌	NA 🗌	
4. Were all samp	les received at a temperat	ture of >0° C to 6.0°C	Yes 🗸	No 🗌	NA 🗌	
5. Sample(s) in p	proper container(s)?		Yes 🗸	No 🗌		
Sufficient samp	ole volume for indicated te	st(s)?	Yes 🗸	No 🗌		
7. Are samples (e	except VOA and ONG) pro	perly preserved?	Yes 🗸	No 🗌		
	ve added to bottles?		Yes 🗌	No 🗹	NA 🗆	
9. Received at lea	st 1 vial with headspace <	1/4" for AQ VOA2	Yes 🗌	No 🗌	🗖	
10. Were any sam	ple containers received br	oken?	Yes	No ☑	NA 🗹	
			103	140	# of preserved	
11. Does paperwork	k match bottle labels? ncies on chain of custody)		Yes 🗸	No 🗌	bottles checked for pH:	
	rrectly identified on Chain	of Control O				unless noted)
13. Is it clear what a	analyses were requested?	of Custody?	Yes 🗸	No 📙	Adjusted?	
	times able to be met?		Yes 🗸	No 📙	/	0 10 10
(If no, notify cus	tomer for authorization.)		Yes 🗸	No 🗆	Checked by: TMC	3/30/22
Special Handlin	g (if applicable)					
15. Was client notif	ied of all discrepancies wi	th this order?	Yes	No 🗆	NA 🗸	
Person N	otified:	Date:		manuscriptorist and a second		
By Whom	:	Via:	·	hone Fax	7. 5	
Regarding]:			hone Fax	In Person	
Client Inst	ructions:					
16. Additional rema	arks:					
17. <u>Cooler Informa</u>	ation					
Cooler No	<u></u>	Seal Intact Seal No	Seal Data	Cianad D		
1 0	0.3 Good	Ocal No	Osai Dale	oigned By		
[Seal Intact Seal No	Seal Date	Signed By		



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

April 12, 2022

Lynn A. Acosta Souder, Miller & Associates 201 S Halagueno Carlsbad, NM 88221 TEL: (575) 689-8801

FAX

RE: Antelope Sink Well 1 OrderNo.: 2204029

Dear Lynn A. Acosta:

Hall Environmental Analysis Laboratory received 2 sample(s) on 4/1/2022 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

Indes

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report Lab Order 2204029

Date Reported: 4/12/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: BG1-Surface **Project:** Antelope Sink Well 1 Collection Date: 3/30/2022

2204029-001 Lab ID: Matrix: SOIL Received Date: 4/1/2022 9:50:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CAS
Chloride	ND	60	mg/Kg	20	4/7/2022 10:54:22 PM	66705
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	: JR
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	4/5/2022 9:40:47 PM	66586
Surr: BFB	98.2	70-130	%Rec	1	4/5/2022 9:40:47 PM	66586
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	: ED
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	4/5/2022 4:01:59 PM	66611
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	4/5/2022 4:01:59 PM	66611
Surr: DNOP	82.4	51.1-141	%Rec	1	4/5/2022 4:01:59 PM	66611
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst	: JR
Benzene	ND	0.024	mg/Kg	1	4/5/2022 9:40:47 PM	66586
Toluene	ND	0.047	mg/Kg	1	4/5/2022 9:40:47 PM	66586
Ethylbenzene	ND	0.047	mg/Kg	1	4/5/2022 9:40:47 PM	66586
Xylenes, Total	ND	0.095	mg/Kg	1	4/5/2022 9:40:47 PM	66586
Surr: 1,2-Dichloroethane-d4	101	70-130	%Rec	1	4/5/2022 9:40:47 PM	66586
Surr: 4-Bromofluorobenzene	91.0	70-130	%Rec	1	4/5/2022 9:40:47 PM	66586
Surr: Dibromofluoromethane	105	70-130	%Rec	1	4/5/2022 9:40:47 PM	66586
Surr: Toluene-d8	95.7	70-130	%Rec	1	4/5/2022 9:40:47 PM	66586

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference
- Analyte detected in the associated Method Blank
- Е Estimated value
- Analyte detected below quantitation limits
- P Sample pH Not In Range
- Reporting Limit

Page 1 of 6

Analytical Report Lab Order 2204029

Date Reported: 4/12/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT:Souder, Miller & AssociatesClient Sample ID: BG1-1'Project:Antelope Sink Well 1Collection Date: 3/30/2022

Lab ID: 2204029-002 **Matrix:** SOIL **Received Date:** 4/1/2022 9:50:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	CAS
Chloride	ND	60	mg/Kg	20	4/7/2022 11:06:42 PM	66705
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst:	JR
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	4/5/2022 10:09:24 PM	66586
Surr: BFB	105	70-130	%Rec	1	4/5/2022 10:09:24 PM	66586
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	ED
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	4/5/2022 4:26:18 PM	66611
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	4/5/2022 4:26:18 PM	66611
Surr: DNOP	82.1	51.1-141	%Rec	1	4/5/2022 4:26:18 PM	66611
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst	JR
Benzene	ND	0.025	mg/Kg	1	4/5/2022 10:09:24 PM	66586
Toluene	ND	0.050	mg/Kg	1	4/5/2022 10:09:24 PM	66586
Ethylbenzene	ND	0.050	mg/Kg	1	4/5/2022 10:09:24 PM	66586
Xylenes, Total	ND	0.099	mg/Kg	1	4/5/2022 10:09:24 PM	66586
Surr: 1,2-Dichloroethane-d4	105	70-130	%Rec	1	4/5/2022 10:09:24 PM	66586
Surr: 4-Bromofluorobenzene	94.2	70-130	%Rec	1	4/5/2022 10:09:24 PM	66586
Surr: Dibromofluoromethane	107	70-130	%Rec	1	4/5/2022 10:09:24 PM	66586
Surr: Toluene-d8	99.1	70-130	%Rec	1	4/5/2022 10:09:24 PM	66586

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 interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2204029**

12-Apr-22

Client: Souder, Miller & Associates

Project: Antelope Sink Well 1

Sample ID: MB-66705 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 66705 RunNo: 87092

Prep Date: 4/7/2022 Analysis Date: 4/7/2022 SeqNo: 3078859 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-66705 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 66705 RunNo: 87092

Prep Date: 4/7/2022 Analysis Date: 4/7/2022 SeqNo: 3078860 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 91.0 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 interference

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 3 of 6

Hall Environmental Analysis Laboratory, Inc.

WO#: **2204029**

12-Apr-22

Client: Souder, Miller & Associates

Project: Antelope Sink Well 1

Sample ID: LCS-66611 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 66611 RunNo: 87027

Prep Date: 4/4/2022 Analysis Date: 4/5/2022 SeqNo: 3075308 Units: mg/Kg

PQL SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Qual Analyte Result LowLimit Diesel Range Organics (DRO) 10 0 50 50.00 99.3 68.9 135

Surr: DNOP 5.1 5.000 10 99.5 66.9 135

Sample ID: MB-66611 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 66611 RunNo: 87027

Prep Date: 4/4/2022 Analysis Date: 4/5/2022 SeqNo: 3075310 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 9.4 10.00 93.7 51.1 141

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 interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 4 of 6

Hall Environmental Analysis Laboratory, Inc.

WO#: **2204029**

12-Apr-22

Client: Souder, Miller & Associates

Project: Antelope Sink Well 1

Sample ID: Ics-66586	SampT	ype: LC	s	TestCode: EPA Method 8260B: Volatiles Short List							
Client ID: LCSS	Batcl	Batch ID: 66586 RunNo: 86972									
Prep Date: 4/1/2022	Analysis D	Analysis Date: 4/4/2022				078655	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.89	0.025	1.000	0	88.7	70	130				
Toluene	0.97	0.050	1.000	0	96.6	70	130				
Surr: 1,2-Dichloroethane-d4	0.48		0.5000		96.0	70	130				
Surr: 4-Bromofluorobenzene	0.49		0.5000		97.5	70	130				
Surr: Dibromofluoromethane	0.46		0.5000		92.0	70	130				
Surr: Toluene-d8	0.51		0.5000		103	70	130				

Sample ID: mb-66586	Samp	SampType: MBLK			TestCode: EPA Method 8260B: Volatiles Short List						
Client ID: PBS	Batch ID: 66586			F	RunNo: 86972 SeqNo: 3078657 Units: mg/Kg						
Prep Date: 4/1/2022	Analysis [Analysis Date: 4/4/2022									
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: 1,2-Dichloroethane-d4	0.48		0.5000		95.5	70	130				
Surr: 4-Bromofluorobenzene	0.47		0.5000		94.2	70	130				
Surr: Dibromofluoromethane	0.48		0.5000		95.7	70	130				
Surr: Toluene-d8	0.51		0.5000		101	70	130				

Qualifiers:

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2204029**

12-Apr-22

Client: Souder, Miller & Associates

Project: Antelope Sink Well 1

Sample ID: Ics-66586 SampType: LCS TestCode: EPA Method 8015D Mod: Gasoline Range

Client ID: LCSS Batch ID: 66586 RunNo: 86972

Prep Date: 4/1/2022 Analysis Date: 4/4/2022 SeqNo: 3073267 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Gasoline Range Organics (GRO) 28 5.0 25.00 0 110 70 130

 Gasoline Range Organics (GRO)
 28
 5.0
 25.00
 0
 110
 70
 130

 Surr: BFB
 510
 500.0
 102
 70
 130

Sample ID: mb-66586 SampType: MBLK TestCode: EPA Method 8015D Mod: Gasoline Range

Client ID: PBS Batch ID: 66586 RunNo: 86972

Prep Date: 4/1/2022 Analysis Date: 4/4/2022 SeqNo: 3073268 Units: mg/Kg

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

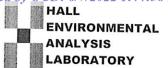
Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 510 500.0 102 70 130

Qualifiers:

- Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

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

Sample Log-In Check List

Client Name:	Souder, Miller & Associates	Work Order Num	ber: 2204029		RcptNo: 1	
Received By:	Tracy Casarrubias	4/1/2022 9:50:00 A	ΔM			
Completed By:	Cheyenne Cason	4/1/2022 10:26:46	АМ	Chul		
Reviewed By:	IO	4/1/22		que		
Chain of Cus	tody					
1. Is Chain of Cu	ustody complete?		Yes 🗸	No 🗌	Not Present	
2. How was the	sample delivered?		Courier			
Log In						
3. Was an attem	pt made to cool the sample	es?	Yes 🗸	No 🗌	NA 🗌	
4. Were all samp	les received at a temperat	ure of >0° C to 6.0°C	Yes 🗸	No 🗌	NA 🗌	
5. Sample(s) in p	roper container(s)?		Yes 🗸	No 🗌		
	ole volume for indicated te		Yes 🗸	No 🗌		
	except VOA and ONG) proj	perly preserved?	Yes 🗸	No 🗌		
Was preservati	ve added to bottles?		Yes	No 🗸	NA 🗌	
9. Received at lea	ast 1 vial with headspace <	1/4" for AQ VOA?	Yes	No 🗌	NA 🗸	
0. Were any sam	ple containers received bro	oken?	Yes	No 🗸		,
1 Dans			_		# of preserved bottles checked	
	k match bottle labels? ncies on chain of custody)		Yes 🗸	No 🗌	for pH:	ñ
	orrectly identified on Chain	of Custody?	Yes 🗸	No 🗌	(<2 or >12 unless noted Adjusted?	a)
	analyses were requested?	•	Yes 🗸	No 🗌	11.	1_
4. Were all holding (If no, notify cus	g times able to be met? stomer for authorization.)		Yes 🗸	No 🗌	Checked by: KV4 9[1	12
pecial Handlir	ng (if applicable)					
	fied of all discrepancies wi	th this order?	Yes	No 🗌	NA 🗹	
Person N	otified:	Date:				
By Whom	1:	Via:	eMail P	hone Fax	In Person	
Regarding		THE ACTION OF THE PARTY OF THE	or assulption, we make the addition of	TOTAL PROPERTY AND ADDRESS.	ACTION AT THE CONTRACTOR AND ACTION PROPERTY.	
Client Ins	tructions:	What over a control of the area to sense and a sense and a sense of two entry over the control of the sense o	CONTRACTOR CONTRACTOR CONTRACTOR		O PRINCIPATION CLOSE AND REAL MICE CONTRACT SURFACES.	
6. Additional rema	arks:					
7. <u>Cooler Inform</u> Cooler No	T	Seal Intact Seal No	Seal Date	Signed By		

Received by OCD: 6/7/2022	44:38 PM		Page 51 of 154
HALL ENVIRONMENTAL ANALYSIS LABORATORY www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109 Tel. 505-345-3975 Fax 505-345-4107	EDB (Method 504.1) PAHs by 8310 or 8270SIMS SCRA 8 Metals Scra 8 Metals Scr 9 Mo2, PO4, SO4 Scr (VOA) Scr (Semi-VOA) Scr (Semi-VOA)	8 8 8 8	narks: PMUIL: Lynn. accola (Ocarder millor. con ibility. Any sub-contracted data will be clearly notated on the analytical repo
490 Te	TEXY MTBE \ TMB's (8021)		Remarks: CMC
Turn-Around Time: □ Standard \(\overline{\text{Rush}} \subseteq \(\ellau \text{Voly} \) THT Project Name: An \(\beta \) \(\overline{\text{Volge}} \) Sim \(\overline{\text{Lib}} \) \(\overline{\text{Lib}} \) \(\overline{\text{Fig}} \) \(\overline{\text{Lib}} \) \(\overline{\text{Fig}} \)	Project Manager: LVM HCS L L L L L L L L L	100 mg	Time: Relinquished by: Received by: Via: Date Time Remarks: Proposition of the server as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.
Client: SMA - Carlody Record Client: SMA - Carloda Mailing Address:	email or Fax#: QA/QC Package: Standard	37	Date: Time: Relinquished by: Manage Manage



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

April 12, 2022

Lynn A. Acosta Souder, Miller & Associates 201 S Halagueno Carlsbad, NM 88221 TEL: (575) 689-8801

FAX

RE: Antelope Sink Well 1 OrderNo.: 2204030

Dear Lynn A. Acosta:

Hall Environmental Analysis Laboratory received 2 sample(s) on 4/1/2022 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

Indes

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report Lab Order 2204030

Date Reported: 4/12/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT:Souder, Miller & AssociatesClient Sample ID: BG2-SurfaceProject:Antelope Sink Well 1Collection Date: 3/30/2022

Lab ID: 2204030-001 **Matrix:** SOIL **Received Date:** 4/1/2022 9:50:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CAS
Chloride	ND	60	mg/Kg	20	4/7/2022 11:19:02 PM	66705
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	: JR
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	4/6/2022 12:32:47 AM	66586
Surr: BFB	103	70-130	%Rec	1	4/6/2022 12:32:47 AM	66586
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	: ED
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	4/5/2022 4:51:03 PM	66611
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	4/5/2022 4:51:03 PM	66611
Surr: DNOP	73.8	51.1-141	%Rec	1	4/5/2022 4:51:03 PM	66611
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst	: JR
Benzene	ND	0.024	mg/Kg	1	4/6/2022 12:32:47 AM	66586
Toluene	ND	0.048	mg/Kg	1	4/6/2022 12:32:47 AM	66586
Ethylbenzene	ND	0.048	mg/Kg	1	4/6/2022 12:32:47 AM	66586
Xylenes, Total	ND	0.096	mg/Kg	1	4/6/2022 12:32:47 AM	66586
Surr: 1,2-Dichloroethane-d4	106	70-130	%Rec	1	4/6/2022 12:32:47 AM	66586
Surr: 4-Bromofluorobenzene	96.0	70-130	%Rec	1	4/6/2022 12:32:47 AM	66586
Surr: Dibromofluoromethane	108	70-130	%Rec	1	4/6/2022 12:32:47 AM	66586
Surr: Toluene-d8	99.2	70-130	%Rec	1	4/6/2022 12:32:47 AM	66586

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 interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 1 of 6

Analytical Report Lab Order 2204030

Date Reported: 4/12/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: BG2-1'

Project: Antelope Sink Well 1

Collection Date: 3/30/2022

Lab ID: 2204030-002 **Matrix:** SOIL **Received Date:** 4/1/2022 9:50:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CAS
Chloride	ND	60	mg/Kg	20	4/7/2022 11:56:05 PM	66705
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	: JR
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	4/6/2022 1:01:30 AM	66586
Surr: BFB	102	70-130	%Rec	1	4/6/2022 1:01:30 AM	66586
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	: ED
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	4/5/2022 5:15:19 PM	66611
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	4/5/2022 5:15:19 PM	66611
Surr: DNOP	92.0	51.1-141	%Rec	1	4/5/2022 5:15:19 PM	66611
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst	: JR
Benzene	ND	0.024	mg/Kg	1	4/6/2022 1:01:30 AM	66586
Toluene	ND	0.047	mg/Kg	1	4/6/2022 1:01:30 AM	66586
Ethylbenzene	ND	0.047	mg/Kg	1	4/6/2022 1:01:30 AM	66586
Xylenes, Total	ND	0.095	mg/Kg	1	4/6/2022 1:01:30 AM	66586
Surr: 1,2-Dichloroethane-d4	103	70-130	%Rec	1	4/6/2022 1:01:30 AM	66586
Surr: 4-Bromofluorobenzene	98.2	70-130	%Rec	1	4/6/2022 1:01:30 AM	66586
Surr: Dibromofluoromethane	104	70-130	%Rec	1	4/6/2022 1:01:30 AM	66586
Surr: Toluene-d8	95.2	70-130	%Rec	1	4/6/2022 1:01:30 AM	66586

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 interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 2 of 6

Hall Environmental Analysis Laboratory, Inc.

WO#: **2204030**

12-Apr-22

Client: Souder, Miller & Associates

Project: Antelope Sink Well 1

Sample ID: MB-66705 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 66705 RunNo: 87092

Prep Date: 4/7/2022 Analysis Date: 4/7/2022 SeqNo: 3078859 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-66705 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 66705 RunNo: 87092

Prep Date: 4/7/2022 Analysis Date: 4/7/2022 SeqNo: 3078860 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 91.0 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 interference

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 3 of 6

Hall Environmental Analysis Laboratory, Inc.

WO#: **2204030** *12-Apr-22*

Client: Souder, Miller & Associates

Project: Antelope Sink Well 1

Sample ID: LCS-66611 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 66611 RunNo: 87027

Prep Date: 4/4/2022 Analysis Date: 4/5/2022 SeqNo: 3075308 Units: mg/Kg

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

 Diesel Range Organics (DRO)
 50
 10
 50.00
 0
 99.3
 68.9
 135

 Surr: DNOP
 5.1
 5.000
 102
 51.1
 141

Sample ID: MB-66611 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 66611 RunNo: 87027

Prep Date: 4/4/2022 Analysis Date: 4/5/2022 SeqNo: 3075310 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 9.4 10.00 93.7 51.1 141

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 Quantitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 4 of 6

Hall Environmental Analysis Laboratory, Inc.

WO#: **2204030**

12-Apr-22

Client: Souder, Miller & Associates

Project: Antelope Sink Well 1

Sample ID: Ics-66586	SampT	ype: LC	s	TestCode: EPA Method 8			8260B: Volatiles Short List				
Client ID: LCSS	Batcl	n ID: 66	586	RunNo: 86972							
Prep Date: 4/1/2022	Analysis D	Date: 4/	4/2022	SeqNo: 3078655			Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.89	0.025	1.000	0	88.7	70	130				
Toluene	0.97	0.050	1.000	0	96.6	70	130				
Surr: 1,2-Dichloroethane-d4	0.48		0.5000		96.0	70	130				
Surr: 4-Bromofluorobenzene	0.49		0.5000		97.5	70	130				
Surr: Dibromofluoromethane	0.46		0.5000		92.0	70	130				
Surr: Toluene-d8	0.51		0.5000		103	70	130				

Sample ID: mb-66586	Sampl	Гуре: МЕ	BLK	TestCode: EPA Method			d 8260B: Volatiles Short List					
Client ID: PBS	Batcl	h ID: 66	586	RunNo: 86972								
Prep Date: 4/1/2022	Analysis D	Date: 4/	4/2022	9	SeqNo: 3	078657	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: 1,2-Dichloroethane-d4	0.48		0.5000		95.5	70	130					
Surr: 4-Bromofluorobenzene	0.47		0.5000		94.2	70	130					
Surr: Dibromofluoromethane	0.48		0.5000		95.7	70	130					
Surr: Toluene-d8	0.51		0.5000		101	70	130					

Qualifiers:

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

Page 5 of 6

Hall Environmental Analysis Laboratory, Inc.

WO#: **2204030** *12-Apr-22*

Client: Souder, Miller & Associates

Project: Antelope Sink Well 1

Sample ID: Ics-66586 SampType: LCS TestCode: EPA Method 8015D Mod: Gasoline Range

Client ID: LCSS Batch ID: 66586 RunNo: 86972

Prep Date: 4/1/2022 Analysis Date: 4/4/2022 SeqNo: 3073267 Units: mg/Kg

PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Analyte Result Gasoline Range Organics (GRO) 0 28 5.0 25.00 110 70 130

Surr: BFB 510 500.0 102 70 130

Sample ID: mb-66586 SampType: MBLK TestCode: EPA Method 8015D Mod: Gasoline Range

Client ID: PBS Batch ID: 66586 RunNo: 86972

Prep Date: 4/1/2022 Analysis Date: 4/4/2022 SeqNo: 3073268 Units: mg/Kg

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

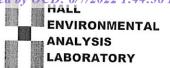
Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 510 500.0 102 70 130

Qualifiers:

- Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 6 of 6



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

Sample Log-In Check List

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com Client Name: Souder, Miller & Work Order Number: 2204030 RcptNo: 1 **Associates** Received By: Tracy Casarrubias 4/1/2022 9:50:00 AM Completed By: Cheyenne Cason 4/1/2022 10:30:33 AM Chul Reviewed By: 4/1/22 TO Chain of Custody 1. Is Chain of Custody complete? Yes 🗸 No 🗌 Not Present 2. How was the sample delivered? Courier Log In 3. Was an attempt made to cool the samples? Yes 🗸 NA 4. Were all samples received at a temperature of >0° C to 6.0°C No NA 🗌 Sample(s) in proper container(s)? Yes 🗸 No 6. Sufficient sample volume for indicated test(s)? Yes 🗸 No 7. Are samples (except VOA and ONG) properly preserved? Yes No 8. Was preservative added to bottles? Yes No V NA 🗌 9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes No NA 🗸 10. Were any sample containers received broken? Yes 🗀 No V # of preserved bottles checked 11. Does paperwork match bottle labels? Yes 🗸 No 🗌 for pH: (Note discrepancies on chain of custody) (<2 or >12 unless noted) 12. Are matrices correctly identified on Chain of Custody? Adjusted? Yes 🗸 No 🗌 13. Is it clear what analyses were requested? Yes 🗸 No 🗌 14. Were all holding times able to be met? Yes 🗸 No 🗌 (If no, notify customer for authorization.) Special Handling (if applicable) 15. Was client notified of all discrepancies with this order? Yes No 🗌 NA 🗸 Person Notified: Date: By Whom: Via: eMail Phone Fax In Person Regarding: Client Instructions:

16. Additional remarks:17. Cooler Information

Cooler No Temp °C Condition Seal Intact Seal No Seal Date Signed By

1 3.7 Good Not Present

Chain-of-Custody Record	Turn-Around Time:	Receive
Client: SMH-1 Mslord	- Standard - Rush S ASM THT	
		JKAIOKY
Mailing Address:	An blood sink light # (4901 Hawkins NE	www.italienvironmental.com
		- Aibuquelque, IniN 67 109 Fax 505-345-4107
Phone #:		Analysis Request
email or Fax#: Junn. austa OsudumNer. Can	56	
age:	1508 PMRO	uəsq
☐ Standard ☐ Level 4 (Full Validation)) O	A\Jr
:uo	:. CAMP	
□ NELAC □ Other	8/s 504	Л,
□ EDD (Type)	BEE (GR abi	·AC
	stic etho	r, N (AC)
i	Preservative	F, B 60 (Vd 70 (Se tal Co
Natrix O	d# Type 2204030 頃 片 8 日 A	© 88
18422 Sail, 1862- Swhap	40,2 1CV 1001 X X	
1 262 1	100	\ \ \
Date; Time: Relinquished by:	Received hy: Via: Date Time December 1	
55 53 Time:	William 3/31 Pre	Page
3/2 190 (ullum)	Wederload by: Mai Date Time Hills 9:50	60 of 1
If necessary, samples submitted to Hall Environmental may be subco	If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.	



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

June 02, 2022

Lynn A. Acosta Souder, Miller & Associates 201 S Halagueno Carlsbad, NM 88221 TEL: FAX

RE: Antelope Sink Well 1 OrderNo.: 2205A33

Dear Lynn A. Acosta:

Hall Environmental Analysis Laboratory received 10 sample(s) on 5/24/2022 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

andel

4901 Hawkins NE

Albuquerque, NM 87109

Project:

CLIENT: Souder, Miller & Associates

Antelope Sink Well 1

Analytical Report

Lab Order **2205A33**Date Reported: **6/2/2022**

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BH1-3'

Collection Date: 5/20/2022

Lab ID: 2205A33-001 **Matrix:** SOIL **Received Date:** 5/24/2022 7:00:00 AM

Analyses	Result	RL Qu	ual Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analy	st: NAI
Chloride	6500	300	mg/Kg	100 5/27/2022 8:34:07 PM	M 67733

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 interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 1 of 13

Lab Order 2205A33

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 6/2/2022

CLIENT: Souder, Miller & Associates Client Sample ID: BH1-6'

 Project:
 Antelope Sink Well 1
 Collection Date: 5/20/2022

 Lab ID:
 2205A33-002
 Matrix: SOIL
 Received Date: 5/24/2022 7:00:00 AM

 Analyses
 Result
 RL
 Qual
 Units
 DF
 Date Analyzed
 Batch

 EPA METHOD 300.0: ANIONS
 Chloride
 ND
 59
 mg/Kg
 20
 5/26/2022 11:22:17 PM
 67733

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 interference
- B Analyte detected in the associated Method Blank
 - E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 2 of 13

Lab Order **2205A33**Date Reported: **6/2/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: BH2-3'

Project: Antelope Sink Well 1 Collection Date: 5/20/2022

Lab ID: 2205A33-003 **Matrix:** SOIL **Received Date:** 5/24/2022 7:00:00 AM

 Analyses
 Result
 RL
 Qual
 Units
 DF
 Date Analyzed
 Batch

 EPA METHOD 300.0: ANIONS
 Analyst: NAI

 Chloride
 4600
 150
 mg/Kg
 50
 5/27/2022 8:46:31 PM
 67733

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 interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 3 of 13

CLIENT: Souder, Miller & Associates

Analytical Report

Lab Order **2205A33**Date Reported: **6/2/2022**

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BH2-5'

Project: Antelope Sink Well 1 Collection Date: 5/20/2022

Lab ID: 2205A33-004 **Matrix:** SOIL **Received Date:** 5/24/2022 7:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analy	st: NAI
Chloride	ND	60	mg/Kg	20	5/27/2022 8:58:56 PM	1 67759

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 interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 4 of 13

2205A33-005

Lab ID:

Chloride

Analytical Report

Lab Order **2205A33**

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 6/2/2022

50 5/31/2022 9:50:38 AM 67759

Received Date: 5/24/2022 7:00:00 AM

mg/Kg

CLIENT: Souder, Miller & Associates Client Sample ID: BH3-3'

Project: Antelope Sink Well 1 **Collection Date:** 5/20/2022

Matrix: SOIL

Analyses Result RL Qual Units DF Date Analyzed Batch

EPA METHOD 300.0: ANIONS

Result RL Qual Units DF Date Analyzed Batch

150

2400

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 interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 5 of 13

Lab Order **2205A33**

Date Reported: 6/2/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: BH3-5'

Project: Antelope Sink Well 1 **Collection Date:** 5/20/2022

Lab ID: 2205A33-006 **Matrix:** SOIL **Received Date:** 5/24/2022 7:00:00 AM

Analyses	Result	RL Qu	ıal Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: NAI
Chloride	ND	60	mg/Kg	20	5/27/2022 9:23:45 PM	67759

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 interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 6 of 13

Project:

Analytical Report

Lab Order **2205A33**

Hall Environmental Analysis Laboratory, Inc.

Antelope Sink Well 1

Date Reported: 6/2/2022

Collection Date: 5/20/2022

CLIENT: Souder, Miller & Associates Client Sample ID: BH4-3'

Lab ID: 2205A33-007 **Matrix:** SOIL **Received Date:** 5/24/2022 7:00:00 AM

Analyses	Result	RL (Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	2400	150	mg/Kg	50	5/31/2022 10:03:03 AM	67759
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: SB
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	5/25/2022 12:06:40 PM	67670
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	5/25/2022 12:06:40 PM	67670
Surr: DNOP	103	51.1-141	%Rec	1	5/25/2022 12:06:40 PM	67670
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	5/26/2022 9:51:13 AM	67661
Surr: BFB	92.6	37.7-212	%Rec	1	5/26/2022 9:51:13 AM	67661

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 interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 7 of 13

Lab Order 2205A33

Date Reported: 6/2/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: BH4-6'

Project: Antelope Sink Well 1

Collection Date: 5/20/2022

Lab ID: 2205A33-008 **Matrix:** SOIL **Received Date:** 5/24/2022 7:00:00 AM

Analyses	Result	RL (Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: NAI
Chloride	ND	60	mg/Kg	20	5/27/2022 9:48:35 PM	67759
EPA METHOD 8015M/D: DIESEL RANGE ORG				Analyst	: SB	
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	5/25/2022 12:17:25 PM	67670
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	5/25/2022 12:17:25 PM	67670
Surr: DNOP	72.6	51.1-141	%Rec	1	5/25/2022 12:17:25 PM	67670
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	5/26/2022 10:14:54 AM	67661
Surr: BFB	94.1	37.7-212	%Rec	1	5/26/2022 10:14:54 AM	67661

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 interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Lab Order 2205A33

Date Reported: 6/2/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: BH5-2'

Project: Antelope Sink Well 1

Collection Date: 5/20/2022

Lab ID: 2205A33-009 **Matrix:** SOIL **Received Date:** 5/24/2022 7:00:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS					Analys	t: SB
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	5/25/2022 12:28:14 PM	1 67670
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	5/25/2022 12:28:14 PM	1 67670
Surr: DNOP	78.9	51.1-141	%Rec	1	5/25/2022 12:28:14 PM	1 67670
EPA METHOD 8015D: GASOLINE RANGE				Analys	t: NSB	
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	5/26/2022 10:38:23 AM	1 67661
Surr: BFB	91.9	37.7-212	%Rec	1	5/26/2022 10:38:23 AM	1 67661

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 interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Lab Order 2205A33

Date Reported: 6/2/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: BH5-3'

Project: Antelope Sink Well 1 Collection Date: 5/20/2022

Lab ID: 2205A33-010 Matrix: SOIL Received Date: 5/24/2022 7:00:00 AM

Analyses Result **RL Oual Units DF** Date Analyzed **Batch EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: SB Diesel Range Organics (DRO) ND 9.7 mg/Kg 5/25/2022 12:39:00 PM 67670 Motor Oil Range Organics (MRO) ND 49 mg/Kg 1 5/25/2022 12:39:00 PM 67670 Surr: DNOP 99.3 51.1-141 %Rec 5/25/2022 12:39:00 PM 67670 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND mg/Kg 5/26/2022 11:01:56 AM 67661 4.9 1 Surr: BFB 90.7 37.7-212 %Rec 5/26/2022 11:01:56 AM 67661

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 interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2205A33**

02-Jun-22

Client: Souder, Miller & Associates

Project: Antelope Sink Well 1

Sample ID: LCS-67733 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 67733 RunNo: 88302

Prep Date: 5/26/2022 Analysis Date: 5/26/2022 SeqNo: 3132780 Units: mg/Kg

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

Chloride 15 1.5 15.00 0 97.7 90 110

Sample ID: MB-67759 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 67759 RunNo: 88373

Prep Date: 5/27/2022 Analysis Date: 5/27/2022 SeqNo: 3134723 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-67759 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 67759 RunNo: 88373

Prep Date: 5/27/2022 Analysis Date: 5/27/2022 SeqNo: 3134724 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 91.7 90 110

Qualifiers:

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

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Hall Environmental Analysis Laboratory, Inc.

02-Jun-22

2205A33

WO#:

Client: Souder, Miller & Associates

Project: Antelope Sink Well 1

Sample ID: LCS-67667 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 67667 RunNo: 88262

Prep Date: 5/24/2022 Analysis Date: 5/25/2022 SeqNo: 3129962 Units: %Rec

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

Surr: DNOP 6.2 5.000 124 51.1 141

Sample ID: LCS-67670 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 67670 RunNo: 88262

Prep Date: 5/24/2022 Analysis Date: 5/25/2022 SeqNo: 3129963 Units: mq/Kq

%REC %RPD **RPDLimit** Analyte Result PQL SPK value SPK Ref Val LowLimit HighLimit Qual Diesel Range Organics (DRO) 57 10 50.00 0 115 64.4 127

Surr: DNOP 6.5 5.000 129 51.1 141

Sample ID: MB-67667 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 67667 RunNo: 88262

Prep Date: 5/24/2022 Analysis Date: 5/25/2022 SeqNo: 3129964 Units: %Rec

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

Surr: DNOP 9.3 10.00 93.2 51.1 141

Sample ID: MB-67670 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 67670 RunNo: 88262

Prep Date: 5/24/2022 Analysis Date: 5/25/2022 SeqNo: 3129965 Units: mq/Kq

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 96.8 51.1 141

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 interference

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 12 of 13

Hall Environmental Analysis Laboratory, Inc.

2205A33 02-Jun-22

WO#:

Client: Souder, Miller & Associates

Project: Antelope Sink Well 1

Sample ID: mb-67661 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 67661 RunNo: 88270

Prep Date: 5/24/2022 Analysis Date: 5/26/2022 SeqNo: 3130075 Units: mg/Kg

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

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 900 1000 90.3 37.7 212

Sample ID: Ics-67661 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 67661 RunNo: 88270

2100

Prep Date: 5/24/2022 Analysis Date: 5/25/2022 SeqNo: 3130076 Units: mg/Kg

1000

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 72.3 Gasoline Range Organics (GRO) 28 5.0 25.00 0 111 137

205

37.7

212

Qualifiers:

Surr: BFB

- 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 interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 13 of 13



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:	Souder, Miller & Associates	Work Order Nun	nber: 2205A33		RcptNo: 1
Received By:	Juan Rojas	5/24/2022 7:00:00	AM	Hans &	
Completed By:	Tracy Casarrubias	5/24/2022 7:59:26	AM		
Reviewed By:	KPG 3.24.	22			
Chain of Cust	tody				
1. Is Chain of Cu	ustody complete?		Yes 🗸	No 🗌	Not Present
2. How was the	sample delivered?		Courier		
Log In					
3. Was an attem	pt made to cool the sample	s?	Yes 🗸	No 🗌	NA 🗌
4. Were all samp	les received at a temperatu	re of >0° C to 6.0°C	Yes 🗸	No 🗌	NA 🗆
5. Sample(s) in p	proper container(s)?		Yes 🗸	No 🗌	
6. Sufficient samp	ole volume for indicated test	(s)?	Yes 🗸	No 🗌	
7. Are samples (e	except VOA and ONG) prop	erly preserved?	Yes 🗸	No 🗌	
8. Was preservati	ive added to bottles?		Yes	No 🗸	NA 🗆
9. Received at lea	ast 1 vial with headspace <1	/4" for AQ VOA?	Yes	No 🗌	NA 🗸
10. Were any sam	ple containers received bro	ken?	Yes	No 🔽	# - 6
	k match bottle labels?		Yes 🗹	No 🗆	# of preserved bottles checked for pH:
	prrectly identified on Chain of	of Custody?	Yes 🗸	No 🗆	(<2 or >12 unless noted) Adjusted?
	analyses were requested?	. Guotouy .	Yes 🗹	No 🗆	
4. Were all holding	g times able to be met? stomer for authorization.)		Yes 🗹	No 🗆	enecked by: JN 5/24/22
	ng (if applicable)				
	fied of all discrepancies with	this order?	Yes	No 🗌	NA ✓
Person N	lotified:	Date			
By Whon	n:	Via:	7	Phone Fax	☐ In Person
Regardin	g:				
Client Ins	structions:				
16. Additional rem	arks:				
7. <u>Cooler Inform</u> Cooler No	Temp °C Condition	Seal Intact Seal No	Seal Date	Signed By	

Chain-of-Custody Record	Turn-Around Time:	me:										(1)		Receiv
Client: SWA- Carls Dad		Push	News S Ann Tust			ì	HALL	ENVIRONMENTAL	/IR	NO.	M	Z	M	
	Project Name:	IISDU I	2500			4		ANALYSIS LABORATORY	S L	AB.	S	F	8	in.
Mailing Address:	AMPLOD	P SIME	14 (1/5/1)	4	www.n 4901 Hawkins NF	w sukins	w.hal	www.hallenvironmental.com	Imenta	al.com	environmental.com Albiralleralle NM 87109			D: 6/7
	Project #:	2			Tel. 50	505-345-3975	3975	Fax	505-3	505-345-4107	701			7/202
Phone #:							A	Analysis	Request	est				2 1:
email or Fax#:	Project Manager:	ij			(0			₽ O		(tr			-	44:3
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necessary, samp	bcontracted to other accred	dited laboratories	This serves as notice of this	possibility.	Any sub	-contract	ed data w	ill be clear	ly notate	d on the	analytica	al report.		f 154

Received by OCD: 6/7/2022 1:44:38 PM Form C-141 State of New Mexico Page 3 Oil Conservation Division

	Page 77 of 154
Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	285 bgs (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes 🗓 No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes 🏻 No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes 🏻 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes 🏻 No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes 🄀 No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes 🗓 No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes 🄀 No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes 🏻 No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes 🛚 No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes 🛚 No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes 🏻 No
Did the release impact areas not on an exploration, development, production, or storage site?	Yes X No
Attach	4:144£:1

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

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

- X Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- X Field data
- X Data table of soil contaminant concentration data
- X Depth to water determination
- ☑ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- X Boring or excavation logs
- X Photographs including date and GIS information
- X Topographic/Aerial maps
- X 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.

Received by OCD: 6/7/2022 1:44:38 PM Form C-141 State of New Mexico Page 4 Oil Conservation Division

Page 78 of 154

Incident ID

District RP

Facility ID

Application ID

I hereby certify that the information given above is true and complete to the regulations all operators are required to report and/or file certain release not public health or the environment. The acceptance of a C-141 report by the failed to adequately investigate and remediate contamination that pose a thr addition, OCD acceptance of a C-141 report does not relieve the operator of and/or regulations.	ifications and perform corrective actions for releases which may endanger OCD does not relieve the operator of liability should their operations have eat to groundwater, surface water, human health or the environment. In
Printed Name: Karen Charles	_ Title: _ Production Analyst
Signature: Karen Charles	Date:6/7/2022
email: <u>kcharles@faulenergy.com</u>	Telephone: 903-581-4382 ext. 233
OCD Only	
Received by:	Date:

Received by OCD: 6/7/2022 1:44:38 PM Form C-141 State of New Mexico Page 5 Oil Conservation Division

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Incident ID	
District RP	
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: Each of the following items must be	incluaea in the plan.
 ☑ Detailed description of proposed remediation technique ☑ Scaled sitemap with GPS coordinates showing delineation point ☑ Estimated volume of material to be remediated ☑ Closure criteria is to Table 1 specifications subject to 19.15.29.1 ☑ Proposed schedule for remediation (note if remediation plan times) 	2(C)(4) NMAC
Deferral Requests Only: Each of the following items must be com	from all as most of any manual for deformal of non-aliation
Deterral Requests Only: Each of the following tiems must be con-	firmed as part of any request for deferral of remediation.
Contamination must be in areas immediately under or around predeconstruction.	oduction equipment where remediation could cause a major facility
Extents of contamination must be fully delineated.	
Contamination does not cause an imminent risk to human health	, the environment, or groundwater.
I hereby certify that the information given above is true and complet rules and regulations all operators are required to report and/or file c which may endanger public health or the environment. The acceptant liability should their operations have failed to adequately investigate surface water, human health or the environment. In addition, OCD a responsibility for compliance with any other federal, state, or local later.	ertain release notifications and perform corrective actions for releases nce of a C-141 report by the OCD does not relieve the operator of and remediate contamination that pose a threat to groundwater, acceptance of a C-141 report does not relieve the operator of
Printed Name: Karen Charles	Title: Production Analyst
Signature: <u>Karen Charles</u>	Date: <u>6/7/2022</u>
email: kcharles@faulenergy.com	Telephone: 903-581-4382, ext. 233
OCD Only	
Received by:	Date:
Approved Approved with Attached Conditions of A	Approval
Signature:	Date:

	Page 80 of 15	4
Incident ID	NAPP2205926232	
District RP		
Facility ID		
Application ID		

Remediation Plan

Remediation Plan Checklist: Each of the following items must be	incluaea in the plan.
 ☑ Detailed description of proposed remediation technique ☑ Scaled sitemap with GPS coordinates showing delineation points ☑ Estimated volume of material to be remediated ☑ Closure criteria is to Table 1 specifications subject to 19.15.29.12 ☑ Proposed schedule for remediation (note if remediation plan time) 	2(C)(4) NMAC
<u>Deferral Requests Only</u> : Each of the following items must be conf	firmed as part of any request for deferral of remediation.
Contamination must be in areas immediately under or around prodeconstruction.	duction equipment where remediation could cause a major facility
Extents of contamination must be fully delineated.	
Contamination does not cause an imminent risk to human health,	the environment, or groundwater.
I hereby certify that the information given above is true and complete rules and regulations all operators are required to report and/or file ce which may endanger public health or the environment. The acceptan liability should their operations have failed to adequately investigate surface water, human health or the environment. In addition, OCD acresponsibility for compliance with any other federal, state, or local la	ertain release notifications and perform corrective actions for releases ce of a C-141 report by the OCD does not relieve the operator of and remediate contamination that pose a threat to groundwater, cceptance of a C-141 report does not relieve the operator of
Printed Name: Karen Charles	Title: Production Analyst
Signature: Karen Charles	Date: <u>6/7/2022</u>
email: kcharles@faulenergy.com	Telephone: 903-581-4382, ext. 233
OCD Only	
Received by: Robert Hamlet	Date:10/13/2022
☐ Approved	Approval Denied Deferral Approved
Signature: Robert Hamlet I	Date: 10/13/2022

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

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

(quarters are smallest to largest)

(In feet)

POD

closed)

		Sub-		Q	Q Ç)							V	Vater
POD Number	Code	basin	County	64	16 4	Sec	Tws	Rng	X	Y	DistanceDe	pthWellDep	othWater Co	olumn
<u>RA 07942</u>		RA	ED	4	2 2	2 13	19S	23E	533987	3614242* 🌍	1114	2900		
RA 07466		RA	ED		2	13	19S	23E	533686	3614137*	1396	627	480	147
RA 07466 CLW		RA	ED		2	13	19S	23E	533686	3614137*	1396	288		
<u>RA 06777</u>		RA	ED		4 1	07	19S	24E	534686	3615577*	1617	800		
RA 12972 POD1		RA	ED	3	2 1	13	19S	23E	532998	3614250 🌑	2092	321	285	36

Average Depth to Water:

382 feet

Minimum Depth:

285 feet

Maximum Depth:

480 feet

Record Count: 5

UTMNAD83 Radius Search (in meters):

Easting (X): 535076.34

Northing (Y): 3614007.63

Radius: 2500

(NAD83 UTM in meters)

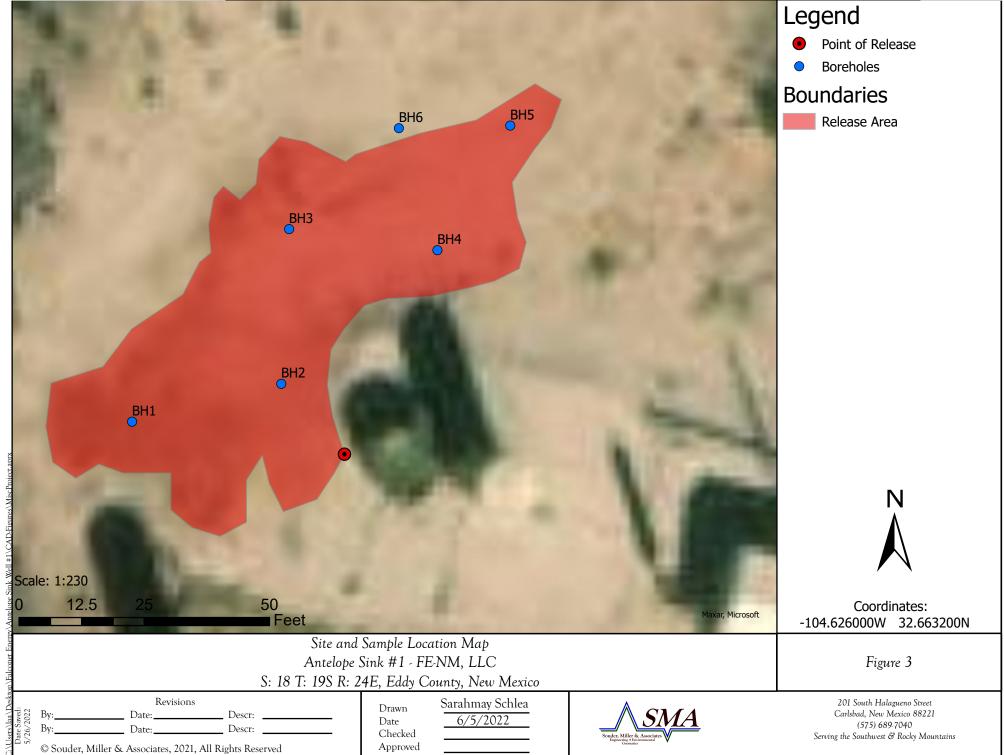
*UTM location was derived from PLSS - see Help

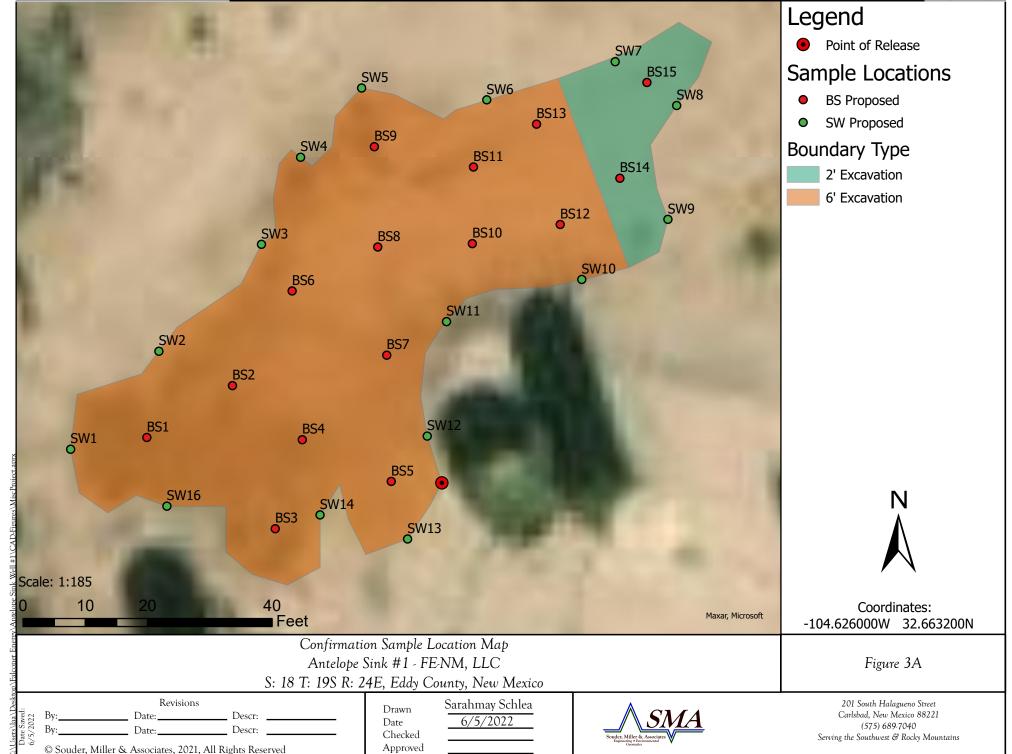
The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

5/25/22 5:42 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER

FIGURES





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

June 06, 2022

Lynn A. Acosta Souder, Miller & Associates 201 S Halagueno Carlsbad, NM 88221 TEL: FAX:

RE: Antelope Well 1 OrderNo.: 2203F71

Dear Lynn A. Acosta:

Hall Environmental Analysis Laboratory received 12 sample(s) on 3/30/2022 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued April 11, 2022.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated.

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

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

Sincerely,

Andy Freeman

Laboratory Manager

andy

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order **2203F71**Date Reported: **6/6/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: BH1-Surface

 Project:
 Antelope Well 1
 Collection Date: 3/29/2022 8:15:00 AM

 Lab ID:
 2203F71-001
 Matrix: SOIL
 Received Date: 3/30/2022 9:15:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: JMT
Chloride	19000	1500	mg/Kg	500	4/6/2022 6:23:51 PM	66638
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analys	t: ED
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	4/1/2022 11:37:03 PM	66523
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	4/1/2022 11:37:03 PM	66523
Surr: DNOP	75.6	51.1-141	%Rec	1	4/1/2022 11:37:03 PM	66523
EPA METHOD 8015D: GASOLINE RANGE					Analys	t: CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	4/1/2022 10:49:00 PM	66508
Surr: BFB	101	37.7-212	%Rec	1	4/1/2022 10:49:00 PM	66508
EPA METHOD 8021B: VOLATILES					Analys	t: CCM
Benzene	ND	0.025	mg/Kg	1	4/1/2022 10:49:00 PM	66508
Toluene	ND	0.049	mg/Kg	1	4/1/2022 10:49:00 PM	66508
Ethylbenzene	ND	0.049	mg/Kg	1	4/1/2022 10:49:00 PM	66508
Xylenes, Total	ND	0.099	mg/Kg	1	4/1/2022 10:49:00 PM	66508
Surr: 4-Bromofluorobenzene	85.4	70-130	%Rec	1	4/1/2022 10:49:00 PM	66508

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 interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 1 of 17

Project:

Lab ID:

CLIENT: Souder, Miller & Associates

Antelope Well 1

2203F71-002

Analytical Report

Lab Order **2203F71**Date Reported: **6/6/2022**

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BH1-1'

Collection Date: 3/29/2022 8:17:00 AM

Received Date: 3/30/2022 9:15:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: JMT
Chloride	27000	1500	mg/Kg	500	4/6/2022 6:36:16 PM	66638
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analys	t: ED
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	4/2/2022 12:49:32 AM	66523
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	4/2/2022 12:49:32 AM	66523
Surr: DNOP	63.6	51.1-141	%Rec	1	4/2/2022 12:49:32 AM	66523
EPA METHOD 8015D: GASOLINE RANGE					Analys	t: CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	4/1/2022 11:48:00 PM	66508
Surr: BFB	104	37.7-212	%Rec	1	4/1/2022 11:48:00 PM	66508
EPA METHOD 8021B: VOLATILES					Analys	t: CCM
Benzene	ND	0.025	mg/Kg	1	4/1/2022 11:48:00 PM	66508
Toluene	ND	0.049	mg/Kg	1	4/1/2022 11:48:00 PM	66508
Ethylbenzene	ND	0.049	mg/Kg	1	4/1/2022 11:48:00 PM	66508
Xylenes, Total	ND	0.098	mg/Kg	1	4/1/2022 11:48:00 PM	66508
Surr: 4-Bromofluorobenzene	87.0	70-130	%Rec	1	4/1/2022 11:48:00 PM	66508

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 interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Analytical Report

Lab Order **2203F71**Date Reported: **6/6/2022**

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BH2-Surface

 Project:
 Antelope Well 1
 Collection Date: 3/29/2022 8:20:00 AM

 Lab ID:
 2203F71-003
 Matrix: SOIL
 Received Date: 3/30/2022 9:15:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: JMT
Chloride	15000	1500	mg/Kg	500	0 4/6/2022 12:36:21 PM	66638
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analys	t: ED
Diesel Range Organics (DRO)	ND	8.5	mg/Kg	1	4/2/2022 1:13:35 AM	66523
Motor Oil Range Organics (MRO)	ND	43	mg/Kg	1	4/2/2022 1:13:35 AM	66523
Surr: DNOP	87.6	51.1-141	%Rec	1	4/2/2022 1:13:35 AM	66523
EPA METHOD 8015D: GASOLINE RANGE					Analys	t: CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	4/2/2022 12:48:00 AM	66508
Surr: BFB	106	37.7-212	%Rec	1	4/2/2022 12:48:00 AM	66508
EPA METHOD 8021B: VOLATILES					Analys	t: CCM
Benzene	ND	0.024	mg/Kg	1	4/2/2022 12:48:00 AM	66508
Toluene	ND	0.049	mg/Kg	1	4/2/2022 12:48:00 AM	66508
Ethylbenzene	ND	0.049	mg/Kg	1	4/2/2022 12:48:00 AM	66508
Xylenes, Total	ND	0.098	mg/Kg	1	4/2/2022 12:48:00 AM	66508
Surr: 4-Bromofluorobenzene	85.0	70-130	%Rec	1	4/2/2022 12:48:00 AM	66508

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 Quantitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Analytical Report

Lab Order **2203F71**Date Reported: **6/6/2022**

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BH2-1'

 Project:
 Antelope Well 1
 Collection Date: 3/29/2022 8:22:00 AM

 Lab ID:
 2203F71-004
 Matrix: SOIL
 Received Date: 3/30/2022 9:15:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: JMT
Chloride	6100	300	mg/Kg	100	0 4/6/2022 1:13:35 PM	66638
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analys	t: ED
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	4/2/2022 1:37:40 AM	66523
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	4/2/2022 1:37:40 AM	66523
Surr: DNOP	101	51.1-141	%Rec	1	4/2/2022 1:37:40 AM	66523
EPA METHOD 8015D: GASOLINE RANGE					Analys	t: CCM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	4/2/2022 1:07:00 AM	66508
Surr: BFB	100	37.7-212	%Rec	1	4/2/2022 1:07:00 AM	66508
EPA METHOD 8021B: VOLATILES					Analys	t: CCM
Benzene	ND	0.025	mg/Kg	1	4/2/2022 1:07:00 AM	66508
Toluene	ND	0.050	mg/Kg	1	4/2/2022 1:07:00 AM	66508
Ethylbenzene	ND	0.050	mg/Kg	1	4/2/2022 1:07:00 AM	66508
Xylenes, Total	ND	0.10	mg/Kg	1	4/2/2022 1:07:00 AM	66508
Surr: 4-Bromofluorobenzene	85.5	70-130	%Rec	1	4/2/2022 1:07:00 AM	66508

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 interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Analytical Report

Lab Order **2203F71**Date Reported: **6/6/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: BH3-Surface

 Project:
 Antelope Well 1
 Collection Date: 3/29/2022 8:24:00 AM

 Lab ID:
 2203F71-005
 Matrix: SOIL
 Received Date: 3/30/2022 9:15:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	st: JMT
Chloride	4400	300	mg/Kg	100	0 4/6/2022 1:50:48 PM	66638
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analys	st: TOM
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	4/4/2022 6:35:20 PM	66523
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	4/4/2022 6:35:20 PM	66523
Surr: DNOP	71.4	51.1-141	%Rec	1	4/4/2022 6:35:20 PM	66523
EPA METHOD 8015D: GASOLINE RANGE					Analys	st: CCM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	4/2/2022 1:27:00 AM	66508
Surr: BFB	100	37.7-212	%Rec	1	4/2/2022 1:27:00 AM	66508
EPA METHOD 8021B: VOLATILES					Analys	st: CCM
Benzene	ND	0.024	mg/Kg	1	4/2/2022 1:27:00 AM	66508
Toluene	ND	0.048	mg/Kg	1	4/2/2022 1:27:00 AM	66508
Ethylbenzene	ND	0.048	mg/Kg	1	4/2/2022 1:27:00 AM	66508
Xylenes, Total	ND	0.097	mg/Kg	1	4/2/2022 1:27:00 AM	66508
Surr: 4-Bromofluorobenzene	84.0	70-130	%Rec	1	4/2/2022 1:27:00 AM	66508

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 interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Analytical Report

Lab Order **2203F71**Date Reported: **6/6/2022**

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BH3-1'

 Project:
 Antelope Well 1
 Collection Date: 3/29/2022 8:26:00 AM

 Lab ID:
 2203F71-006
 Matrix: SOIL
 Received Date: 3/30/2022 9:15:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	st: JMT
Chloride	5700	300	mg/Kg	100	0 4/6/2022 2:03:13 PM	66638
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analys	st: ED
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	4/2/2022 2:25:55 AM	66523
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	4/2/2022 2:25:55 AM	66523
Surr: DNOP	54.9	51.1-141	%Rec	1	4/2/2022 2:25:55 AM	66523
EPA METHOD 8015D: GASOLINE RANGE					Analys	st: CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	4/2/2022 1:47:00 AM	66508
Surr: BFB	105	37.7-212	%Rec	1	4/2/2022 1:47:00 AM	66508
EPA METHOD 8021B: VOLATILES					Analys	st: CCM
Benzene	ND	0.024	mg/Kg	1	4/2/2022 1:47:00 AM	66508
Toluene	ND	0.049	mg/Kg	1	4/2/2022 1:47:00 AM	66508
Ethylbenzene	ND	0.049	mg/Kg	1	4/2/2022 1:47:00 AM	66508
Xylenes, Total	ND	0.097	mg/Kg	1	4/2/2022 1:47:00 AM	66508
Surr: 4-Bromofluorobenzene	87.1	70-130	%Rec	1	4/2/2022 1:47:00 AM	66508

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 Quantitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Analytical Report

Lab Order **2203F71**Date Reported: **6/6/2022**

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BH4-Surface

 Project:
 Antelope Well 1
 Collection Date: 3/29/2022 8:30:00 AM

 Lab ID:
 2203F71-007
 Matrix: SOIL
 Received Date: 3/30/2022 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analys	t: JMT
Chloride	10000	600		mg/Kg	200	4/6/2022 2:40:28 PM	66638
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS					Analys	t: ED
Diesel Range Organics (DRO)	370	90		mg/Kg	10	4/2/2022 2:49:50 AM	66523
Motor Oil Range Organics (MRO)	1000	450		mg/Kg	10	4/2/2022 2:49:50 AM	66523
Surr: DNOP	0	51.1-141	S	%Rec	10	4/2/2022 2:49:50 AM	66523
EPA METHOD 8015D: GASOLINE RANGE						Analys	t: CCM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/2/2022 2:07:00 AM	66508
Surr: BFB	105	37.7-212		%Rec	1	4/2/2022 2:07:00 AM	66508
EPA METHOD 8021B: VOLATILES						Analys	t: CCM
Benzene	ND	0.024		mg/Kg	1	4/2/2022 2:07:00 AM	66508
Toluene	ND	0.048		mg/Kg	1	4/2/2022 2:07:00 AM	66508
Ethylbenzene	ND	0.048		mg/Kg	1	4/2/2022 2:07:00 AM	66508
Xylenes, Total	ND	0.095		mg/Kg	1	4/2/2022 2:07:00 AM	66508
Surr: 4-Bromofluorobenzene	85.5	70-130		%Rec	1	4/2/2022 2:07:00 AM	66508

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 interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Analytical Report

Lab Order **2203F71**Date Reported: **6/6/2022**

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BH4-1'

 Project:
 Antelope Well 1
 Collection Date: 3/29/2022 8:32:00 AM

 Lab ID:
 2203F71-008
 Matrix: SOIL
 Received Date: 3/30/2022 9:15:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: JMT
Chloride	3900	150	mg/Kg	50	4/6/2022 2:52:52 PM	66638
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analys	t: ED
Diesel Range Organics (DRO)	110	9.8	mg/Kg	1	4/2/2022 3:13:58 AM	66523
Motor Oil Range Organics (MRO)	300	49	mg/Kg	1	4/2/2022 3:13:58 AM	66523
Surr: DNOP	80.0	51.1-141	%Rec	1	4/2/2022 3:13:58 AM	66523
EPA METHOD 8015D: GASOLINE RANGE					Analys	t: CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	4/2/2022 2:27:00 AM	66508
Surr: BFB	103	37.7-212	%Rec	1	4/2/2022 2:27:00 AM	66508
EPA METHOD 8021B: VOLATILES					Analys	t: CCM
Benzene	ND	0.024	mg/Kg	1	4/2/2022 2:27:00 AM	66508
Toluene	ND	0.049	mg/Kg	1	4/2/2022 2:27:00 AM	66508
Ethylbenzene	ND	0.049	mg/Kg	1	4/2/2022 2:27:00 AM	66508
Xylenes, Total	ND	0.097	mg/Kg	1	4/2/2022 2:27:00 AM	66508
Surr: 4-Bromofluorobenzene	86.6	70-130	%Rec	1	4/2/2022 2:27:00 AM	66508

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 interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Analytical Report

Lab Order 2203F71

Date Reported: 6/6/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: BH5-Surface

 Project:
 Antelope Well 1
 Collection Date: 3/29/2022 8:35:00 AM

 Lab ID:
 2203F71-009
 Matrix: SOIL
 Received Date: 3/30/2022 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analys	t: JMT
Chloride	ND	60		mg/Kg	20	4/6/2022 3:05:17 PM	66638
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS					Analys	t: SB
Diesel Range Organics (DRO)	240	100		mg/Kg	10	4/6/2022 11:30:29 AM	66650
Motor Oil Range Organics (MRO)	700	500		mg/Kg	10	4/6/2022 11:30:29 AM	66650
Surr: DNOP	0	51.1-141	S	%Rec	10	4/6/2022 11:30:29 AM	66650
EPA METHOD 8015D: GASOLINE RANGE						Analys	t: CCM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/2/2022 2:46:00 AM	66508
Surr: BFB	109	37.7-212		%Rec	1	4/2/2022 2:46:00 AM	66508
EPA METHOD 8021B: VOLATILES						Analys	t: CCM
Benzene	ND	0.024		mg/Kg	1	4/2/2022 2:46:00 AM	66508
Toluene	ND	0.048		mg/Kg	1	4/2/2022 2:46:00 AM	66508
Ethylbenzene	ND	0.048		mg/Kg	1	4/2/2022 2:46:00 AM	66508
Xylenes, Total	ND	0.095		mg/Kg	1	4/2/2022 2:46:00 AM	66508
Surr: 4-Bromofluorobenzene	86.9	70-130		%Rec	1	4/2/2022 2:46:00 AM	66508

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 interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Project:

Lab ID:

CLIENT: Souder, Miller & Associates

Antelope Well 1

2203F71-010

Analytical Report

Lab Order **2203F71**Date Reported: **6/6/2022**

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BH5-1'

Collection Date: 3/29/2022 8:37:00 AM

Received Date: 3/30/2022 9:15:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: JMT
Chloride	ND	60	mg/Kg	20	4/6/2022 3:42:31 PM	66638
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analys	t: TOM
Diesel Range Organics (DRO)	37	9.8	mg/Kg	1	4/4/2022 8:12:51 PM	66523
Motor Oil Range Organics (MRO)	140	49	mg/Kg	1	4/4/2022 8:12:51 PM	66523
Surr: DNOP	81.0	51.1-141	%Rec	1	4/4/2022 8:12:51 PM	66523
EPA METHOD 8015D: GASOLINE RANGE					Analys	t: CCM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	4/2/2022 3:06:00 AM	66508
Surr: BFB	102	37.7-212	%Rec	1	4/2/2022 3:06:00 AM	66508
EPA METHOD 8021B: VOLATILES					Analys	t: CCM
Benzene	ND	0.024	mg/Kg	1	4/2/2022 3:06:00 AM	66508
Toluene	ND	0.048	mg/Kg	1	4/2/2022 3:06:00 AM	66508
Ethylbenzene	ND	0.048	mg/Kg	1	4/2/2022 3:06:00 AM	66508
Xylenes, Total	ND	0.096	mg/Kg	1	4/2/2022 3:06:00 AM	66508
Surr: 4-Bromofluorobenzene	85.7	70-130	%Rec	1	4/2/2022 3:06:00 AM	66508

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 interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Analytical Report

Lab Order **2203F71**Date Reported: **6/6/2022**

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BH6-Surface

Project: Antelope Well 1 **Collection Date:** 3/29/2022 8:40:00 AM

Lab ID: 2203F71-011 **Matrix:** SOIL **Received Date:** 3/30/2022 9:15:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: JMT
Chloride	ND	60	mg/Kg	20	4/6/2022 3:54:55 PM	66638
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analys	t: TOM
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	4/4/2022 8:37:07 PM	66523
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	4/4/2022 8:37:07 PM	66523
Surr: DNOP	97.1	51.1-141	%Rec	1	4/4/2022 8:37:07 PM	66523
EPA METHOD 8015D: GASOLINE RANGE					Analys	t: CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	4/2/2022 4:25:00 AM	66508
Surr: BFB	106	37.7-212	%Rec	1	4/2/2022 4:25:00 AM	66508
EPA METHOD 8021B: VOLATILES					Analys	t: CCM
Benzene	ND	0.025	mg/Kg	1	4/2/2022 4:25:00 AM	66508
Toluene	ND	0.049	mg/Kg	1	4/2/2022 4:25:00 AM	66508
Ethylbenzene	ND	0.049	mg/Kg	1	4/2/2022 4:25:00 AM	66508
Xylenes, Total	ND	0.099	mg/Kg	1	4/2/2022 4:25:00 AM	66508
Surr: 4-Bromofluorobenzene	85.0	70-130	%Rec	1	4/2/2022 4:25:00 AM	66508

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 interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Analytical Report Lab Order 2203F71

Date Reported: 6/6/2022

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BH6-1'

 Project:
 Antelope Well 1
 Collection Date: 3/29/2022 8:42:00 AM

 Lab ID:
 2203F71-012
 Matrix: SOIL
 Received Date: 3/30/2022 9:15:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: JMT
Chloride	ND	60	mg/Kg	20	4/6/2022 4:07:19 PM	66638
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analys	t: TOM
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	4/4/2022 9:01:24 PM	66523
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	4/4/2022 9:01:24 PM	66523
Surr: DNOP	80.1	51.1-141	%Rec	1	4/4/2022 9:01:24 PM	66523
EPA METHOD 8015D: GASOLINE RANGE					Analys	t: CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	4/2/2022 4:45:00 AM	66508
Surr: BFB	101	37.7-212	%Rec	1	4/2/2022 4:45:00 AM	66508
EPA METHOD 8021B: VOLATILES					Analys	t: CCM
Benzene	ND	0.024	mg/Kg	1	4/2/2022 4:45:00 AM	66508
Toluene	ND	0.049	mg/Kg	1	4/2/2022 4:45:00 AM	66508
Ethylbenzene	ND	0.049	mg/Kg	1	4/2/2022 4:45:00 AM	66508
Xylenes, Total	ND	0.098	mg/Kg	1	4/2/2022 4:45:00 AM	66508
Surr: 4-Bromofluorobenzene	83.3	70-130	%Rec	1	4/2/2022 4:45:00 AM	66508

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 interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

2203F71 06-Jun-22

WO#:

Client: Souder, Miller & Associates

Project: Antelope Well 1

Sample ID: MB-66638 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 66638 RunNo: 87038

Prep Date: 4/5/2022 Analysis Date: 4/6/2022 SeqNo: 3077760 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-66638 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 66638 RunNo: 87038

Prep Date: 4/5/2022 Analysis Date: 4/6/2022 SeqNo: 3077761 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 91.3 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 Quantitative Limit

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

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

Result

ND

ND

10

8.6

PQL

10

50

10.00

10.00

WO#: **2203F71** *06-Jun-22*

Client: Souder, Miller & Associates

Project: Antelope Well 1

Sample ID: 220	03F71-001AMS	SampTy	ре: М.	3	Tes	tCode: El	PA Method	8015M/D: Die	sel Range	Organics	
Client ID: BH	I1-Surface	Batch	ID: 66	523	F	RunNo: 80	6957				
Prep Date: 3/	/31/2022	Analysis Da	ate: 4/ 2	2/2022	5	SeqNo: 30	072505	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Orgar	nics (DRO)	37	9.6	48.17	0	77.4	36.1	154			
Surr: DNOP		2.0		4.817		40.9	51.1	141			S
Sample ID: 220	03F71-001AMSD	SampTy	ре: МS	SD	Tes	tCode: El	PA Method	8015M/D: Die	sel Range	Organics	
Client ID: BH	I1-Surface	Batch	ID: 66	523	F	RunNo: 80	6957				
Prep Date: 3/	/31/2022	Analysis Da	ate: 4/ 2	2/2022	5	SeqNo: 30	072506	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Orgar	nics (DRO)	44	9.7	48.64	0	90.3	36.1	154	16.3	33.9	
Surr: DNOP		1.9		4.864		39.7	51.1	141	0	0	S
Sample ID: LC	S-66523	SampTy	pe: LC	s	Tes	tCode: El	PA Method	8015M/D: Die	sel Range	Organics	
Client ID: LC	ss	Batch	ID: 66	523	F	RunNo: 80	6957				
Prep Date: 3/	/31/2022	Analysis Da	ate: 4/	1/2022	5	SeqNo: 30	072547	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Orgar	nics (DRO)	43	10	50.00	0	86.2	68.9	135			
Surr: DNOP		4.6		5.000		91.7	51.1	141			
Sample ID: ME	3-66523	SampTy	ре: МЕ	BLK	Tes	tCode: El	PA Method	8015M/D: Die	sel Range	Organics	
Client ID: PB	S	Batch	ID: 66	523	F	RunNo: 80	6957				
Prep Date: 3/	/31/2022	Analysis Da	ate: 4/	1/2022	Ş	SeqNo: 30	072549	Units: ma/K	(a		

Sample ID: MB-66650	SampT	уре: МВ	sLK	TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch	1D: 666	550	F	RunNo: 87	7033					
Prep Date: 4/5/2022	Analysis D	ate: 4/6	6/2022	9	SeqNo: 30	75736	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									

SPK value SPK Ref Val %REC LowLimit

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

Diesel Range Organics (DRO)

Surr: DNOP

Surr: DNOP

Motor Oil Range Organics (MRO)

- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank

86.1

104

51.1

51.1

- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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%RPD

HighLimit

141

141

RPDLimit

Qual

Hall Environmental Analysis Laboratory, Inc.

WO#: **2203F71** *06-Jun-22*

Client: Souder, Miller & Associates

Project: Antelope Well 1

Sample ID: LCS-66650 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 66650 RunNo: 87033

Prep Date: 4/5/2022 Analysis Date: 4/6/2022 SeqNo: 3075737 Units: mg/Kg

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

 Diesel Range Organics (DRO)
 48
 10
 50.00
 0
 96.4
 68.9
 135

 Surr: DNOP
 4.2
 5.000
 84.5
 51.1
 141

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 interference

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

Result

29

2300

PQL

2203F71 06-Jun-22

WO#:

%RPD

RPDLimit

Qual

S

Client: Souder, Miller & Associates

Project: Antelope Well 1

Sample ID: Ics-66508	SampT	ype: LC	pe: LCS TestCode: EPA Method 8015D: Gasoline Range					•		
Client ID: LCSS	Batch	1D: 66 5	508	RunNo: 86911						
Prep Date: 3/30/2022	Analysis D	ate: 4/	1/2022	5	SeqNo: 30	071525	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	5.0	25.00	0	112	72.3	137			
Surr: BFB	2200		1000		225	37.7	212			S
Sample ID: mb-66508	SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range									
Client ID: PBS	Batch	1D: 66 5	508	RunNo: 86911						
Chork ID. 1 DO	Datoi	1 10. 000	,,,,		(aiii 10. 0	0311				
Prep Date: 3/30/2022	Analysis D				SeqNo: 30		Units: mg/K	(g		
				5			Units: mg/K	(g %RPD	RPDLimit	Qual
Prep Date: 3/30/2022	Analysis D	ate: 4/	1/2022	5	SeqNo: 30	071526	ŭ	•	RPDLimit	Qual
Prep Date: 3/30/2022 Analyte	Analysis D	ate: 4/	1/2022	5	SeqNo: 30	071526	ŭ	•	RPDLimit	Qual
Prep Date: 3/30/2022 Analyte Gasoline Range Organics (GRO)	Analysis D Result ND 1000	ate: 4/	1/2022 SPK value 1000	SPK Ref Val	SeqNo: 36 %REC 104	071526 LowLimit 37.7	HighLimit	%RPD		Qual
Prep Date: 3/30/2022 Analyte Gasoline Range Organics (GRO) Surr: BFB	Analysis D Result ND 1000 SampT	PQL 5.0	1/2022 SPK value 1000	SPK Ref Val	SeqNo: 36 %REC 104	LowLimit 37.7	HighLimit 212	%RPD		Qual

Sample ID: 2203F71-001ams	d Samp	Гуре: М.	SD	Tes	TestCode: EPA Method 8015D: Gasoline Range						
Client ID: BH1-Surface	Batc	Batch ID: 66508 RunNo: 86911				6911					
Prep Date: 3/30/2022	Analysis I	Date: 4/	1/2022	5	SeqNo: 30	071529	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	29	4.9	24.51	0	119	70	130	0.203	20		
Surr: BFB	2300		980.4		239	37.7	212	0	0	S	

0

%REC

120

238

LowLimit

70

37.7

HighLimit

130

212

SPK value SPK Ref Val

24.49

979.4

Qualifiers:

Analyte

Surr: BFB

Gasoline Range Organics (GRO)

- 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 interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2203F71**

06-Jun-22

Client: Souder, Miller & Associates

Project: Antelope Well 1

SampType: LCS TestCode: EPA Method					8021B: Volati	les				
Batcl	h ID: 665	508	F	RunNo: 86	6911					
Analysis [Date: 4/ 1	1/2022	SeqNo: 3071497			Units: mg/Kg				
Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
0.88	0.025	1.000	0	88.3	80	120				
0.90	0.050	1.000	0	89.9	80	120				
0.91	0.050	1.000	0	90.6	80	120				
2.7	0.10	3.000	0	90.4	80	120				
0.89		1.000		89.1	70	130				
	Analysis I Result 0.88 0.90 0.91 2.7	Batch ID: 665 Analysis Date: 4/2 Result PQL 0.88 0.025 0.90 0.050 0.91 0.050 2.7 0.10	Batch ID: 66508 Analysis Date: 4/1/2022 Result PQL SPK value 0.88 0.025 1.000 0.90 0.050 1.000 0.91 0.050 1.000 2.7 0.10 3.000	Batch ID: 66508 F Analysis Date: 4/1/2022 4/1/2022 SPK Ref Val Result PQL SPK value SPK Ref Val 0.88 0.025 1.000 0 0.90 0.050 1.000 0 0.91 0.050 1.000 0 2.7 0.10 3.000 0	Batch ID: 66508 RunNo: 86 Analysis Date: 4/1/2022 SeqNo: 36 Result PQL SPK value SPK Ref Val %REC 0.88 0.025 1.000 0 88.3 0.90 0.050 1.000 0 89.9 0.91 0.050 1.000 0 90.6 2.7 0.10 3.000 0 90.4	Batch ID: 66508 RunNo: 86911 Analysis Date: 4/1/2022 SeqNo: 3071497 Result PQL SPK value SPK Ref Val %REC LowLimit 0.88 0.025 1.000 0 88.3 80 0.90 0.050 1.000 0 89.9 80 0.91 0.050 1.000 0 90.6 80 2.7 0.10 3.000 0 90.4 80	Batch ID: 66508 RunNo: 86911 Analysis Date: 4/1/2022 SeqNo: 3071497 Units: mg/K Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit 0.88 0.025 1.000 0 88.3 80 120 0.90 0.050 1.000 0 89.9 80 120 0.91 0.050 1.000 0 90.6 80 120 2.7 0.10 3.000 0 90.4 80 120	Batch ID: 66508 RunNo: 86911 Analysis Date: 4/1/2022 SeqNo: 3071497 Units: mg/Ky Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD 0.88 0.025 1.000 0 88.3 80 120 0.90 0.050 1.000 0 89.9 80 120 0.91 0.050 1.000 0 90.6 80 120 2.7 0.10 3.000 0 90.4 80 120	Batch ID: 66508 RunNo: 86911 Analysis Date: 4/1/2022 SeqNo: 3071497 Units: mg/Kg Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit 0.88 0.025 1.000 0 88.3 80 120 0.90 0.050 1.000 0 89.9 80 120 0.91 0.050 1.000 0 90.6 80 120 2.7 0.10 3.000 0 90.4 80 120	

Sample ID: mb-66508	Samp1	Гуре: МЕ	LK TestCode: EPA Method 8021B: Volatiles						IB: Volatiles			
Client ID: PBS	Batcl	h ID: 665	508	F	RunNo: 86	6911						
Prep Date: 3/30/2022	Analysis D	Date: 4/	1/2022	SeqNo: 3071498			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	0.87		1.000		87.3	70	130					

Sample ID: 2203F71-002ams	Samp ¹	mpType: MS TestCode: EPA Method 8021B: Volatile						les				
Client ID: BH1-1'	Batc	h ID: 665	508	F	RunNo: 80	6911						
Prep Date: 3/30/2022	Analysis [Date: 4/2	2/2022	22 SeqNo: 3071501				Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	0.87	0.024	0.9737	0	88.9	68.8	120					
Toluene	0.89	0.049	0.9737	0	91.1	73.6	124					
Ethylbenzene	0.90	0.049	0.9737	0	92.4	72.7	129					
Xylenes, Total	2.7	0.097	2.921	0	92.4	75.7	126					
Surr: 4-Bromofluorobenzene	0.85		0.9737		87.1	70	130					

Sample ID: 2203F71-002amsd	SampType: MSD TestCode: EPA Method 8021B: Volatiles											
Client ID: BH1-1'	Batcl	n ID: 665	508	RunNo: 86911								
Prep Date: 3/30/2022	Analysis D	Date: 4/2	2/2022	SeqNo: 3071502				Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	0.82	0.024	0.9671	0	84.5	68.8	120	5.78	20			
Toluene	0.84	0.048	0.9671	0	86.8	73.6	124	5.51	20			
Ethylbenzene	0.85	0.048	0.9671	0	88.3	72.7	129	5.25	20			
Xylenes, Total	2.6	0.097	2.901	0	88.1	75.7	126	5.38	20			
Surr: 4-Bromofluorobenzene	0.84		0.9671		87.2	70	130	0	0			

Qualifiers:

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

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

Website: clients.hallenvironmental.com

Sample Log-In Check List

Client Name:	Souder, Miller & Associates	W	ork Order N	umber: 2203F7	71	RcptNo:	1
	rissociates					, ispatio.	
Received By:	Juan Rojas	3/30	/2022 9:15:	00 AM	Hars	3	
Completed By:	Sean Livingston	3/30/	2022 10:08	:15 AM	<	Last	
Reviewed By:	Jn 3/30/2	2			J~_ (130	
Chain of Cus	<u>tody</u>						
1. Is Chain of Co	ustody complete?			Yes 🗸	No 🗆	Not Present	
2. How was the	sample delivered?			Courier		Not Flesent	
<u>Log In</u>							
Was an attem	pt made to cool the sar	nples?		Yes 🗸	No 🗌	NA 🗌	
4. Were all samp	les received at a tempe	erature of >0°	C to 6.0°C	Yes 🗸	No 🗌	NA 🗌	
5. Sample(s) in p	proper container(s)?			Yes 🗸	No 🗌		
Sufficient samp	ole volume for indicated	test(s)?		Yes 🗸	No 🗌		
	xcept VOA and ONG) p		ved?	Yes 🗸	No 🗆		
	ve added to bottles?			Yes	No 🗹	NA 🗌	
9. Received at lea	st 1 vial with headspac	e <1/4" for AQ	VOA?	Yes	No 🗌	NA 🖪	
	ple containers received			Yes	No 🗹	NA ✓ # of preserved	
11. Does paperwork (Note discrepan	k match bottle labels?	lv)		Yes 🗸	No 🗌	bottles checked for pH:	
	rrectly identified on Cha		,	Yes 🗸	No 🗆	(<2 or >1 Adjusted?	2 unless noted)
13. Is it clear what a	analyses were requeste	d?		Yes 🗸	No 🗆	/ tajusteu !	
14. Were all holding (If no, notify cus	times able to be met? tomer for authorization.)		Yes 🗹	No 🗆	Checked by:	3/30/22
Special Handlin	g (if applicable)						
	ied of all discrepancies	with this order	?	Yes 🗌	No 🗆	NA 🗸	
Person No	otified:	ALTERNATION OF THE PARTY OF THE	Date			NA 💌	
By Whom		Section Follows in the second	Via:	∥ □ eMail □	Phone Fax		
Regarding	1:		was a second	Civiali	」Phone ☐ Fax	☐ In Person	
Client Inst	ructions:		Version of the last way made	A STATE OF STREET OF STREET, S			
16. Additional rema	ırks:						
17. Cooler Informa	ation						
Cooler No	Temp °C Condition	Seal Intact	Seal No	Seal Date	Signed D.		
1 0	0.3 Good		550,110	ocai Dale	Signed By		



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

April 12, 2022

Lynn A. Acosta Souder, Miller & Associates 201 S Halagueno Carlsbad, NM 88221 TEL: (575) 689-8801

FAX

RE: Antelope Sink Well 1 OrderNo.: 2204029

Dear Lynn A. Acosta:

Hall Environmental Analysis Laboratory received 2 sample(s) on 4/1/2022 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

Indes

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report Lab Order 2204029

Date Reported: 4/12/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT:Souder, Miller & AssociatesClient Sample ID: BG1-SurfaceProject:Antelope Sink Well 1Collection Date: 3/30/2022

Lab ID: 2204029-001 **Matrix:** SOIL **Received Date:** 4/1/2022 9:50:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CAS
Chloride	ND	60	mg/Kg	20	4/7/2022 10:54:22 PM	66705
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	: JR
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	4/5/2022 9:40:47 PM	66586
Surr: BFB	98.2	70-130	%Rec	1	4/5/2022 9:40:47 PM	66586
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	ED
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	4/5/2022 4:01:59 PM	66611
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	4/5/2022 4:01:59 PM	66611
Surr: DNOP	82.4	51.1-141	%Rec	1	4/5/2022 4:01:59 PM	66611
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst	JR
Benzene	ND	0.024	mg/Kg	1	4/5/2022 9:40:47 PM	66586
Toluene	ND	0.047	mg/Kg	1	4/5/2022 9:40:47 PM	66586
Ethylbenzene	ND	0.047	mg/Kg	1	4/5/2022 9:40:47 PM	66586
Xylenes, Total	ND	0.095	mg/Kg	1	4/5/2022 9:40:47 PM	66586
Surr: 1,2-Dichloroethane-d4	101	70-130	%Rec	1	4/5/2022 9:40:47 PM	66586
Surr: 4-Bromofluorobenzene	91.0	70-130	%Rec	1	4/5/2022 9:40:47 PM	66586
Surr: Dibromofluoromethane	105	70-130	%Rec	1	4/5/2022 9:40:47 PM	66586
Surr: Toluene-d8	95.7	70-130	%Rec	1	4/5/2022 9:40:47 PM	66586

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 interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 1 of 6

Analytical Report Lab Order 2204029

Date Reported: 4/12/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: BG1-1'

Project: Antelope Sink Well 1

Collection Date: 3/30/2022

Lab ID: 2204029-002 **Matrix:** SOIL **Received Date:** 4/1/2022 9:50:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CAS
Chloride	ND	60	mg/Kg	20	4/7/2022 11:06:42 PM	66705
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	: JR
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	4/5/2022 10:09:24 PM	66586
Surr: BFB	105	70-130	%Rec	1	4/5/2022 10:09:24 PM	66586
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	: ED
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	4/5/2022 4:26:18 PM	66611
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	4/5/2022 4:26:18 PM	66611
Surr: DNOP	82.1	51.1-141	%Rec	1	4/5/2022 4:26:18 PM	66611
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst	: JR
Benzene	ND	0.025	mg/Kg	1	4/5/2022 10:09:24 PM	66586
Toluene	ND	0.050	mg/Kg	1	4/5/2022 10:09:24 PM	66586
Ethylbenzene	ND	0.050	mg/Kg	1	4/5/2022 10:09:24 PM	66586
Xylenes, Total	ND	0.099	mg/Kg	1	4/5/2022 10:09:24 PM	66586
Surr: 1,2-Dichloroethane-d4	105	70-130	%Rec	1	4/5/2022 10:09:24 PM	66586
Surr: 4-Bromofluorobenzene	94.2	70-130	%Rec	1	4/5/2022 10:09:24 PM	66586
Surr: Dibromofluoromethane	107	70-130	%Rec	1	4/5/2022 10:09:24 PM	66586
Surr: Toluene-d8	99.1	70-130	%Rec	1	4/5/2022 10:09:24 PM	66586

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 interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 2 of 6

Hall Environmental Analysis Laboratory, Inc.

WO#: **2204029**

12-Apr-22

Client: Souder, Miller & Associates

Project: Antelope Sink Well 1

Sample ID: MB-66705 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 66705 RunNo: 87092

Prep Date: 4/7/2022 Analysis Date: 4/7/2022 SeqNo: 3078859 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-66705 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 66705 RunNo: 87092

Prep Date: 4/7/2022 Analysis Date: 4/7/2022 SeqNo: 3078860 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 91.0 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 interference

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 3 of 6

Hall Environmental Analysis Laboratory, Inc.

#: 2204029 12-Apr-22

WO#:

Client: Souder, Miller & Associates

Project: Antelope Sink Well 1

Sample ID: LCS-66611 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 66611 RunNo: 87027

Prep Date: 4/4/2022 Analysis Date: 4/5/2022 SeqNo: 3075308 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO) 50 10 50.00 0 99.3 68.9 135

 Diesel Range Organics (DRO)
 50
 10
 50.00
 0
 99.3
 68.9
 135

 Surr: DNOP
 5.1
 5.000
 102
 51.1
 141

Sample ID: MB-66611 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 66611 RunNo: 87027

Prep Date: 4/4/2022 Analysis Date: 4/5/2022 SeqNo: 3075310 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 9.4 10.00 93.7 51.1 141

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 interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 4 of 6

Hall Environmental Analysis Laboratory, Inc.

WO#: **2204029**

12-Apr-22

Client: Souder, Miller & Associates

Project: Antelope Sink Well 1

Sample ID: Ics-66586	SampT	ype: LC	S	Tes	tCode: El	PA Method	8260B: Vola	tiles Short	List	
Client ID: LCSS	Batch	n ID: 66	586	F	RunNo: 8	6972				
Prep Date: 4/1/2022	Analysis D	oate: 4/	4/2022	9	SeqNo: 3	078655	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.89	0.025	1.000	0	88.7	70	130			
Toluene	0.97	0.050	1.000	0	96.6	70	130			
Surr: 1,2-Dichloroethane-d4	0.48		0.5000		96.0	70	130			
Surr: 4-Bromofluorobenzene	0.49		0.5000		97.5	70	130			
Surr: Dibromofluoromethane	0.46		0.5000		92.0	70	130			
Surr: Toluene-d8	0.51		0.5000		103	70	130			

Sample ID: mb-66586	Sampl	Гуре: МЕ	BLK	Tes	tCode: El	PA Method	8260B: Volat	tiles Short	List	
Client ID: PBS	Batcl	h ID: 66	586	F	RunNo: 8	6972				
Prep Date: 4/1/2022	Analysis D	Date: 4/	4/2022	9	SeqNo: 3	078657	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: 1,2-Dichloroethane-d4	0.48		0.5000		95.5	70	130			
Surr: 4-Bromofluorobenzene	0.47		0.5000		94.2	70	130			
Surr: Dibromofluoromethane	0.48		0.5000		95.7	70	130			
Surr: Toluene-d8	0.51		0.5000		101	70	130			

Qualifiers:

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2204029** *12-Apr-22*

Client: Souder, Miller & Associates

Project: Antelope Sink Well 1

Sample ID: Ics-66586 SampType: LCS TestCode: EPA Method 8015D Mod: Gasoline Range

Client ID: LCSS Batch ID: 66586 RunNo: 86972

Prep Date: 4/1/2022 Analysis Date: 4/4/2022 SeqNo: 3073267 Units: mg/Kg

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

 Gasoline Range Organics (GRO)
 28
 5.0
 25.00
 0
 110
 70
 130

 Surr: BFB
 510
 500.0
 102
 70
 130

Sample ID: mb-66586 SampType: MBLK TestCode: EPA Method 8015D Mod: Gasoline Range

Client ID: PBS Batch ID: 66586 RunNo: 86972

Prep Date: 4/1/2022 Analysis Date: 4/4/2022 SeqNo: 3073268 Units: mg/Kg

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

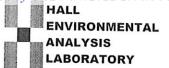
Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 510 500.0 102 70 130

Qualifiers:

- Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 6 of 6



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:	Souder, Miller & Associates	Work Order Num	ber: 2204029		RcptNo: 1	
Received By:	Tracy Casarrubias	4/1/2022 9:50:00 A	M			
Completed By:	Cheyenne Cason	4/1/2022 10:26:46	AM	Charle		
Reviewed By:	TO	4/1/22		que		
Chain of Cus	<u>tody</u>					
1. Is Chain of Cu	ustody complete?		Yes 🗸	No 🗌	Not Present	
2. How was the	sample delivered?		Courier			
<u>Log In</u>						
o. Was an attem	pt made to cool the sampl	es?	Yes 🗸	No 🗌	NA 🗌	
4. Were all samp	les received at a temperat	ure of >0° C to 6.0°C	Yes 🗹	No 🗌	NA 🗌	
5. Sample(s) in p	roper container(s)?		Yes 🗸	No 🗌		
	ole volume for indicated te		Yes 🗸	No 🗌		
	except VOA and ONG) pro	perly preserved?	Yes 🗸	No 🗌		
Was preservati	ve added to bottles?		Yes	No 🗸	NA 🗌	
	st 1 vial with headspace <		Yes	No 🗌	NA 🗸	
0. Were any sam	ple containers received bro	oken?	Yes	No 🔽	# of preserved	
	k match bottle labels?		Yes 🗸	No 🗌	bottles checked for pH: (<2 or >12 un	loop noted)
	orrectly identified on Chain	of Custody?	Yes 🗸	No 🗌	Adjusted?	iess notea)
	analyses were requested?		Yes 🗸	No 🗌	1001	11.1-
 Were all holding (If no, notify cust) 	g times able to be met? stomer for authorization.)		Yes 🗸	No 🗌	Checked by: KPU	9[1]2
pecial Handlir	ng (if applicable)					
5. Was client noti	fied of all discrepancies wi	th this order?	Yes	No 🗌	NA 🗹	
Person N	otified:	Date:	ACCIDENTAL PROPERTY OF THE PRO	E LONG LONG LONG LONG LONG LONG LONG LONG		
By Whom	1:	Via:	eMail P	hone Fax	In Person	
Regardin	g:	THE RESIDENCE WAS ASSESSED.	A STATE OF THE PARTY OF THE PARTY OF	The state of the s	ACTION AND ADDRESS OF THE PARTY	
Client Ins		yannoy ti unti udda dha ki rhuna a'nu kina kina dha kunti a di sunti, ya unabini mud			PROVIDED ON THE BERNEST SUBSECTIONS	
6. Additional rema	arks:					
7. <u>Cooler Inform</u> Cooler No	ation Temp °C Condition	Seal Intact Seal No	Seal Date	Signed By		

Received by OCD: 6/7/2022	4:38 PM		Page 116 of 154
HALL ENVIRONMENTAL ANALYSIS LABORATOR www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109 Tel. 505-345-3975 Fax 505-345-4107 Analysis Request	EDB (Method 504.1) PAHs by 8310 or 8270SIMS RCRA 8 Metals PCRA 8 Metals PCRA 8 Metals	8	Date Time Remarks: Part Time Remarks: Part Time Any sub-contracted data will be clearly notated on the analytical report
4901 Tel.	TEXY MTBE / TMB's (8021) 1081 Pesticides/8082 PCB's		Remarks: CMCL Possibility. Any 9
Turn-Around Time: Standard Zinsh Sing THT Project Name: AN WINDE SIME UP HE Project #:	Project Manager: LVM CO CO CO CO CO CO CO	100 mg	Received by: Via: Date Time Received by: Via: 38/122 630 Received by: Viai or Date Time 41/122 9:50
Client: SMA - Contactor Record Client: SMA - Contactor Mailing Address:	email or Fax#: QA/QC Package: Standard Accreditation:		Date: Time: Relinquished by: Received by: Via: Date: Time: Relinquished by: Received by: Via: Salar Mo Manana



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

April 12, 2022

Lynn A. Acosta Souder, Miller & Associates 201 S Halagueno Carlsbad, NM 88221 TEL: (575) 689-8801

FAX

RE: Antelope Sink Well 1 OrderNo.: 2204030

Dear Lynn A. Acosta:

Hall Environmental Analysis Laboratory received 2 sample(s) on 4/1/2022 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

Indes

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report Lab Order 2204030

Date Reported: 4/12/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: BG2-Surface

Project: Antelope Sink Well 1

Collection Date: 3/30/2022

Lab ID: 2204030-001 **Matrix:** SOIL **Received Date:** 4/1/2022 9:50:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CAS
Chloride	ND	60	mg/Kg	20	4/7/2022 11:19:02 PM	66705
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	: JR
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	4/6/2022 12:32:47 AM	66586
Surr: BFB	103	70-130	%Rec	1	4/6/2022 12:32:47 AM	66586
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	: ED
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	4/5/2022 4:51:03 PM	66611
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	4/5/2022 4:51:03 PM	66611
Surr: DNOP	73.8	51.1-141	%Rec	1	4/5/2022 4:51:03 PM	66611
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst	: JR
Benzene	ND	0.024	mg/Kg	1	4/6/2022 12:32:47 AM	66586
Toluene	ND	0.048	mg/Kg	1	4/6/2022 12:32:47 AM	66586
Ethylbenzene	ND	0.048	mg/Kg	1	4/6/2022 12:32:47 AM	66586
Xylenes, Total	ND	0.096	mg/Kg	1	4/6/2022 12:32:47 AM	66586
Surr: 1,2-Dichloroethane-d4	106	70-130	%Rec	1	4/6/2022 12:32:47 AM	66586
Surr: 4-Bromofluorobenzene	96.0	70-130	%Rec	1	4/6/2022 12:32:47 AM	66586
Surr: Dibromofluoromethane	108	70-130	%Rec	1	4/6/2022 12:32:47 AM	66586
Surr: Toluene-d8	99.2	70-130	%Rec	1	4/6/2022 12:32:47 AM	66586

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 interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 1 of 6

Analytical Report Lab Order 2204030

Date Reported: 4/12/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: BG2-1'

Project: Antelope Sink Well 1

Collection Date: 3/30/2022

Lab ID: 2204030-002 **Matrix:** SOIL **Received Date:** 4/1/2022 9:50:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CAS
Chloride	ND	60	mg/Kg	20	4/7/2022 11:56:05 PM	66705
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	: JR
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	4/6/2022 1:01:30 AM	66586
Surr: BFB	102	70-130	%Rec	1	4/6/2022 1:01:30 AM	66586
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	: ED
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	4/5/2022 5:15:19 PM	66611
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	4/5/2022 5:15:19 PM	66611
Surr: DNOP	92.0	51.1-141	%Rec	1	4/5/2022 5:15:19 PM	66611
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst	: JR
Benzene	ND	0.024	mg/Kg	1	4/6/2022 1:01:30 AM	66586
Toluene	ND	0.047	mg/Kg	1	4/6/2022 1:01:30 AM	66586
Ethylbenzene	ND	0.047	mg/Kg	1	4/6/2022 1:01:30 AM	66586
Xylenes, Total	ND	0.095	mg/Kg	1	4/6/2022 1:01:30 AM	66586
Surr: 1,2-Dichloroethane-d4	103	70-130	%Rec	1	4/6/2022 1:01:30 AM	66586
Surr: 4-Bromofluorobenzene	98.2	70-130	%Rec	1	4/6/2022 1:01:30 AM	66586
Surr: Dibromofluoromethane	104	70-130	%Rec	1	4/6/2022 1:01:30 AM	66586
Surr: Toluene-d8	95.2	70-130	%Rec	1	4/6/2022 1:01:30 AM	66586

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 interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

e pH Not In Range ting Limit Page 2 of 6

Hall Environmental Analysis Laboratory, Inc.

WO#: **2204030** *12-Apr-22*

Client: Souder, Miller & Associates

Project: Antelope Sink Well 1

Sample ID: MB-66705 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 66705 RunNo: 87092

Prep Date: 4/7/2022 Analysis Date: 4/7/2022 SeqNo: 3078859 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-66705 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 66705 RunNo: 87092

Prep Date: 4/7/2022 Analysis Date: 4/7/2022 SeqNo: 3078860 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 91.0 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 interference

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 3 of 6

Hall Environmental Analysis Laboratory, Inc.

t: 2204030 12-Apr-22

WO#:

Client: Souder, Miller & Associates

Project: Antelope Sink Well 1

Sample ID: LCS-66611 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 66611 RunNo: 87027

Prep Date: 4/4/2022 Analysis Date: 4/5/2022 SeqNo: 3075308 Units: mg/Kg

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

 Diesel Range Organics (DRO)
 50
 10
 50.00
 0
 99.3
 68.9
 135

 Surr: DNOP
 5.1
 5.000
 102
 51.1
 141

Sample ID: MB-66611 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 66611 RunNo: 87027

Prep Date: 4/4/2022 Analysis Date: 4/5/2022 SeqNo: 3075310 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 9.4 10.00 93.7 51.1 141

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 interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 4 of 6

Hall Environmental Analysis Laboratory, Inc.

WO#: **2204030** *12-Apr-22*

Client: Souder, Miller & Associates

Project: Antelope Sink Well 1

Sample ID: Ics-66586	SampT	ype: LC	S	Tes	tCode: El	PA Method	8260B: Vola	tiles Short	List	
Client ID: LCSS	Batch	n ID: 66	586	F	RunNo: 8	6972				
Prep Date: 4/1/2022	Analysis D	Date: 4/	4/2022	8	SeqNo: 3	078655	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.89	0.025	1.000	0	88.7	70	130			
Toluene	0.97	0.050	1.000	0	96.6	70	130			
Surr: 1,2-Dichloroethane-d4	0.48		0.5000		96.0	70	130			
Surr: 4-Bromofluorobenzene	0.49		0.5000		97.5	70	130			
Surr: Dibromofluoromethane	0.46		0.5000		92.0	70	130			
Surr: Toluene-d8	0.51		0.5000		103	70	130			

Sample ID: mb-66586	Samp	Гуре: МЕ	BLK	Tes	tCode: El	PA Method	8260B: Vola	tiles Short	List	
Client ID: PBS	Batc	h ID: 66	586	F	RunNo: 8	6972				
Prep Date: 4/1/2022	Analysis [Date: 4/	4/2022	9	SeqNo: 3	078657	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: 1,2-Dichloroethane-d4	0.48		0.5000		95.5	70	130			
Surr: 4-Bromofluorobenzene	0.47		0.5000		94.2	70	130			
Surr: Dibromofluoromethane	0.48		0.5000		95.7	70	130			
Surr: Toluene-d8	0.51		0.5000		101	70	130			

Qualifiers:

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

Page 5 of 6

Hall Environmental Analysis Laboratory, Inc.

WO#: **2204030** *12-Apr-22*

Client: Souder, Miller & Associates

Project: Antelope Sink Well 1

Sample ID: Ics-66586 SampType: LCS TestCode: EPA Method 8015D Mod: Gasoline Range

Client ID: LCSS Batch ID: 66586 RunNo: 86972

Prep Date: 4/1/2022 Analysis Date: 4/4/2022 SeqNo: 3073267 Units: mg/Kg

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

Gasoline Range Organics (GRO) 28 5.0 25.00 0 110 70 130

 Gasoline Range Organics (GRO)
 28
 5.0
 25.00
 0
 110
 70
 130

 Surr: BFB
 510
 500.0
 102
 70
 130

Sample ID: mb-66586 SampType: MBLK TestCode: EPA Method 8015D Mod: Gasoline Range

Client ID: PBS Batch ID: 66586 RunNo: 86972

Prep Date: 4/1/2022 Analysis Date: 4/4/2022 SeqNo: 3073268 Units: mg/Kg

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

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 510 500.0 102 70 130

Qualifiers:

- Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 6 of 6

Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 F4X: 505-345-4107

Sample Log-In Check List

LABO	RATORY	TEL: 505-345-397 Website: www.k				
Client Name:	Souder, Miller & Associates	Work Order Numbe	r: 2204030		RcptNo: 1	
Received By:	Tracy Casarrubias	4/1/2022 9:50:00 AM				
Completed By:	Cheyenne Cason	4/1/2022 10:30:33 AN	1	Chul		
Reviewed By:	To	4/1/22		·		
Chain of Cus	stody					
1. Is Chain of C	ustody complete?		Yes 🗸	No 🗌	Not Present	
2. How was the	sample delivered?		Courier			
<u>Log In</u>						
Was an attern	npt made to cool the sampl	es?	Yes 🗸	No 🗌	NA 🗌	
4. Were all samp	oles received at a temperat	ure of >0° C to 6.0°C	Yes 🗸	No 🗌	NA 🗌	
5. Sample(s) in p	proper container(s)?		Yes 🗸	No 🗌		
6. Sufficient sam	ple volume for indicated te	st(s)?	Yes 🗸	No 🗌		
7. Are samples (except VOA and ONG) pro	perly preserved?	Yes 🗸	No 🗌		
8. Was preservat	tive added to bottles?		Yes	No 🗸	NA 🗌	
9. Received at lea	ast 1 vial with headspace <	1/4" for AQ VOA?	Yes	No 🗌	NA 🗹	
10. Were any sam	nple containers received br	oken?	Yes	No 🗸		
	rk match bottle labels? ncies on chain of custody)		Yes 🗸	No 🗌	# of preserved bottles checked for pH:	
	orrectly identified on Chain	of Custody 2	v [7]		(<2 or >12 Adjusted?	unless noted)
	analyses were requested?		Yes ✓	No L	Adjusted!	1.1
	ig times able to be met?		Yes 🗸	No 🗌	Charked by: K	VA 4/1/2
(If no, notify cu	stomer for authorization.)		res 💌	No 🗌	Checked by:	111/2
pecial Handli	ng (if applicable)					
15. Was client not	ified of all discrepancies wi	th this order?	Yes	No 🗌	NA 🗸	
Person N	Notified:	Date:	William County to County	Commence and the second		
By Whor	n:	Via:	eMail P	hone Fax	In Person	
Regardin	ng:	ENGLISH STATE OF THE STATE OF T	CONTRACTOR DE CASCADA CONTRACTOR DE CONTRACT			
Client Ins	structions:		electrical angular design and the Design and		with the control of t	

Page 1 of 1

16. Additional remarks:

17. Cooler Information

Cooler No Temp °C

3.7

Condition Seal Intact

Not Present

Good

Seal No

Seal Date

Signed By

Chain-of-Custody Record	Turn-Around Time:	Receiv
Client: SMH-1 Mslord	D Standard of Rush S NOV TAT	
		JKAIOKY
Mailing Address:	And long sink find the 1901 Hawkins NE - 110	www.rialienvironmental.com
	Tel. 505-345-3975	
Phone #:	Anal	
email or Fax#: Lynn. austa OsudumNer. Can	(0	
age:	SWS1	
☐ Standard ☐ Level 4 (Full Validation)) OSI	
:uo	1. CAM 1. S80 (1. S827)	
□ NELAC □ Other	8/8 504 504	
□ EDD (Type)	BEE (GR AD) AD)	ΟΛ·
	etho S8 / S8 /	-ime
i	Preservative	00 (S) 07 00 lst
Natrix O	d# Type 2204030 頃 片 8	28
18422 Sail, 1862- Sur lag	×	
1 298 1	100	
Date: Time: Relinquished hv.	Ë	
13 Par A L	Www. 3/31/22	Page
13/12 190 (Ultural py:	Received by: Max. Date Time	125 of 1
If necessary, samples submitted to Hall Environmental may be subco	If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.	



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

June 02, 2022

Lynn A. Acosta Souder, Miller & Associates 201 S Halagueno Carlsbad, NM 88221 TEL: FAX

RE: Antelope Sink Well 1 OrderNo.: 2205A33

Dear Lynn A. Acosta:

Hall Environmental Analysis Laboratory received 10 sample(s) on 5/24/2022 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

andel

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order **2205A33**

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 6/2/2022

CLIENT: Souder, Miller & Associates Client Sample ID: BH1-3'

Project: Antelope Sink Well 1 **Collection Date:** 5/20/2022

Lab ID: 2205A33-001 **Matrix:** SOIL **Received Date:** 5/24/2022 7:00:00 AM

 Analyses
 Result
 RL
 Qual
 Units
 DF
 Date Analyzed
 Batch

 EPA METHOD 300.0: ANIONS
 Analyst: NAI

 Chloride
 6500
 300
 mg/Kg
 100 5/27/2022 8:34:07 PM
 67733

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 interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 1 of 13

Project:

CLIENT: Souder, Miller & Associates

Antelope Sink Well 1

Analytical Report

Lab Order **2205A33**Date Reported: 6/2/2022

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BH1-6'

Collection Date: 5/20/2022

Lab ID: 2205A33-002 **Matrix:** SOIL **Received Date:** 5/24/2022 7:00:00 AM

 Analyses
 Result
 RL
 Qual
 Units
 DF
 Date Analyzed
 Batch

 EPA METHOD 300.0: ANIONS
 Analyst: NAI

 Chloride
 ND
 59
 mg/Kg
 20
 5/26/2022 11:22:17 PM
 67733

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 interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 2 of 13

2205A33-003

Lab ID:

Analytical Report

Lab Order 2205A33

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 6/2/2022

Received Date: 5/24/2022 7:00:00 AM

CLIENT: Souder, Miller & Associates Client Sample ID: BH2-3'

Project: Antelope Sink Well 1 **Collection Date:** 5/20/2022

Matrix: SOIL

 Analyses
 Result
 RL Qual Units
 DF Date Analyzed
 Batch

 EPA METHOD 300.0: ANIONS
 Analyst: NAI

 Chloride
 4600
 150
 mg/Kg
 50
 5/27/2022 8:46:31 PM
 67733

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 interference
- B Analyte detected in the associated Method Blank
 - E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 3 of 13

Analytical Report

Lab Order **2205A33**

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 6/2/2022

CLIENT: Souder, Miller & Associates Client Sample ID: BH2-5'

Project: Antelope Sink Well 1 Collection Date: 5/20/2022

Lab ID: 2205A33-004 Matrix: SOIL Received Date: 5/24/2022 7:00:00 AM

Applyees Result RI Qual Units DE Date Applyed Bate

 Analyses
 Result
 RL
 Qual
 Units
 DF
 Date Analyzed
 Batch

 EPA METHOD 300.0: ANIONS
 Chloride
 ND
 60
 mg/Kg
 20
 5/27/2022 8:58:56 PM
 67759

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 interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 4 of 13

Analytical Report

Lab Order 2205A33

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 6/2/2022

CLIENT: Souder, Miller & Associates Client Sample ID: BH3-3'

Project: Antelope Sink Well 1 Collection Date: 5/20/2022

Lab ID: 2205A33-005 **Matrix:** SOIL **Received Date:** 5/24/2022 7:00:00 AM

Analyses	Result	RL Qu	ıal Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analy	st: JMT
Chloride	2400	150	mg/Kg	50	5/31/2022 9:50:38 AM	1 67759

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 interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 5 of 13

Chloride

Analytical Report

Lab Order **2205A33**

20 5/27/2022 9:23:45 PM 67759

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 6/2/2022

CLIENT: Souder, Miller & Associates Client Sample ID: BH3-5'

 Project:
 Antelope Sink Well 1
 Collection Date: 5/20/2022

 Lab ID:
 2205A33-006
 Matrix: SOIL
 Received Date: 5/24/2022 7:00:00 AM

Analyses Result RL Qual Units DF Date Analyzed Batch

EPA METHOD 300.0: ANIONS

Result RL Qual Units DF Date Analyzed Batch

60

mg/Kg

ND

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 interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 6 of 13

Project:

Analytical Report

Lab Order **2205A33**

Collection Date: 5/20/2022

Date Reported: 6/2/2022

Hall Environmental Analysis Laboratory, Inc.

Antelope Sink Well 1

CLIENT: Souder, Miller & Associates Client Sample ID: BH4-3'

Lab ID: 2205A33-007 **Matrix:** SOIL **Received Date:** 5/24/2022 7:00:00 AM

Analyses	Result	RL Q	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	2400	150	mg/Kg	50	5/31/2022 10:03:03 AM	67759
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: SB
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	5/25/2022 12:06:40 PM	67670
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	5/25/2022 12:06:40 PM	67670
Surr: DNOP	103	51.1-141	%Rec	1	5/25/2022 12:06:40 PM	67670
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	5/26/2022 9:51:13 AM	67661
Surr: BFB	92.6	37.7-212	%Rec	1	5/26/2022 9:51:13 AM	67661

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 interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Analytical Report

Lab Order **2205A33**

Date Reported: 6/2/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: BH4-6'

Project: Antelope Sink Well 1

Collection Date: 5/20/2022

Lab ID: 2205A33-008 **Matrix:** SOIL **Received Date:** 5/24/2022 7:00:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: NAI
Chloride	ND	60	mg/Kg	20	5/27/2022 9:48:35 PM	67759
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: SB
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	5/25/2022 12:17:25 PM	67670
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	5/25/2022 12:17:25 PM	67670
Surr: DNOP	72.6	51.1-141	%Rec	1	5/25/2022 12:17:25 PM	67670
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	5/26/2022 10:14:54 AM	67661
Surr: BFB	94.1	37.7-212	%Rec	1	5/26/2022 10:14:54 AM	67661

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 interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Project:

Analytical Report

Lab Order 2205A33

Collection Date: 5/20/2022

Date Reported: 6/2/2022

Hall Environmental Analysis Laboratory, Inc.

Antelope Sink Well 1

CLIENT: Souder, Miller & Associates Client Sample ID: BH5-2'

Lab ID: 2205A33-009 **Matrix:** SOIL **Received Date:** 5/24/2022 7:00:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analys	t: SB
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	5/25/2022 12:28:14 PM	1 67670
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	5/25/2022 12:28:14 PM	1 67670
Surr: DNOP	78.9	51.1-141	%Rec	1	5/25/2022 12:28:14 PM	1 67670
EPA METHOD 8015D: GASOLINE RANGE					Analys	t: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	5/26/2022 10:38:23 AM	1 67661
Surr: BFB	91.9	37.7-212	%Rec	1	5/26/2022 10:38:23 AM	1 67661

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 interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Analytical Report

Lab Order **2205A33**

Date Reported: 6/2/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: BH5-3'

 Project:
 Antelope Sink Well 1
 Collection Date: 5/20/2022

 Lab ID:
 2205A33-010
 Matrix: SOIL
 Received Date: 5/24/2022 7:00:00 AM

Analyses	Result	RL Qu	ual Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE OI	RGANICS				Analys	t: SB
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	5/25/2022 12:39:00 PM	A 67670
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	5/25/2022 12:39:00 PM	A 67670
Surr: DNOP	99.3	51.1-141	%Rec	1	5/25/2022 12:39:00 PM	A 67670
EPA METHOD 8015D: GASOLINE RANGE					Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/26/2022 11:01:56 AM	A 67661
Surr: BFB	90.7	37.7-212	%Rec	1	5/26/2022 11:01:56 AM	A 67661

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 interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2205A33**

02-Jun-22

Client: Souder, Miller & Associates

Project: Antelope Sink Well 1

Sample ID: LCS-67733 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 67733 RunNo: 88302

Prep Date: 5/26/2022 Analysis Date: 5/26/2022 SeqNo: 3132780 Units: mg/Kg

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

Chloride 15 1.5 15.00 0 97.7 90 110

Sample ID: MB-67759 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 67759 RunNo: 88373

Prep Date: 5/27/2022 Analysis Date: 5/27/2022 SeqNo: 3134723 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-67759 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 67759 RunNo: 88373

Prep Date: 5/27/2022 Analysis Date: 5/27/2022 SeqNo: 3134724 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 91.7 90 110

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2205A33**

02-Jun-22

Client: Souder, Miller & Associates

Project: Antelope Sink Well 1

Sample ID: LCS-67667 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 67667 RunNo: 88262

Prep Date: 5/24/2022 Analysis Date: 5/25/2022 SeqNo: 3129962 Units: %Rec

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

Surr: DNOP 6.2 5.000 124 51.1 141

Sample ID: LCS-67670 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 67670 RunNo: 88262

Prep Date: 5/24/2022 Analysis Date: 5/25/2022 SeqNo: 3129963 Units: mg/Kg

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

Diesel Range Organics (DRO) 57 10 50.00 0 115 64.4 127 Surr: DNOP 6.5 5.000 129 51.1 141

Sample ID: MB-67667 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 67667 RunNo: 88262

Prep Date: 5/24/2022 Analysis Date: 5/25/2022 SeqNo: 3129964 Units: %Rec

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

Surr: DNOP 9.3 10.00 93.2 51.1 141

Sample ID: MB-67670 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 67670 RunNo: 88262

Prep Date: 5/24/2022 Analysis Date: 5/25/2022 SeqNo: 3129965 Units: mq/Kq

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 96.8 51.1 141

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 interference

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2205A33**

02-Jun-22

Client: Souder, Miller & Associates

Project: Antelope Sink Well 1

Sample ID: mb-67661 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 67661 RunNo: 88270

Prep Date: 5/24/2022 Analysis Date: 5/26/2022 SeqNo: 3130075 Units: mg/Kg

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

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 900 1000 90.3 37.7 212

Sample ID: Ics-67661 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 67661 RunNo: 88270

2100

Prep Date: 5/24/2022 Analysis Date: 5/25/2022 SeqNo: 3130076 Units: mg/Kg

1000

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 72.3 Gasoline Range Organics (GRO) 28 5.0 25.00 0 111 137

205

37.7

212

Qualifiers:

Surr: BFB

- 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 interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109

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

Sample Log-In Check List

Client Name:	Souder, Miller & Associates	Work Order Nun	nber: 2205A33		RcptNo: 1	
Received By:	Juan Rojas	5/24/2022 7:00:00	AM	Guarage		
Completed By:	Tracy Casarrubias	5/24/2022 7:59:26	AM			
Reviewed By:	KPG 3.24					
Chain of Cust	<u>tody</u>					
1. Is Chain of Cu	stody complete?		Yes 🗸	No 🗌	Not Present	
2. How was the s	sample delivered?		Courier			
Log In						
	pt made to cool the samp	les?	Yes 🗸	No 🗌	NA 🗌	
4. Were all samp	les received at a tempera	ture of >0° C to 6.0°C	Yes 🗸	No 🗌	NA 🗌	
5. Sample(s) in p	roper container(s)?		Yes 🗸	No 🗌		
6. Sufficient samp	ole volume for indicated te	est(s)?	Yes 🗸	No 🗌		
7. Are samples (e	except VOA and ONG) pro	perly preserved?	Yes 🗸	No 🗌		
Was preservati	ve added to bottles?		Yes \square	No 🗸	NA 🗆	
9. Received at lea	ast 1 vial with headspace	<1/4" for AQ VOA?	Yes	No 🗌	NA 🗹	
10. Were any sam	ple containers received b	roken?	Yes	No 🗸		
	k match bottle labels?		Yes 🗸	No 🗌	# of preserved bottles checked for pH:	
	ncies on chain of custody)					2 unless noted)
	orrectly identified on Chair	•	Yes 🔽	No 📙	Adjusted?	
	analyses were requested' g times able to be met?	?	Yes 🗹	No 📙	enecked by: JV	10000
	stomer for authorization.)		Yes 🗸	No 📙	enecked by: JV	(3/2 (1/2
pecial Handlir	ng (if applicable)			,*		
	fied of all discrepancies w	vith this order?	Yes 🗌	No 🗌	NA 🗹	
Person N	lotified:	Date:	T			
By Whom	n:	Via:	_	Phone Fax	☐ In Person	
Regardin	g: [
Client Ins	tructions:					
16. Additional rem	arks:					
7. Cooler Inform	ation					
Cooler No	Temp °C Condition	Seal Intact Seal No	Seal Date	Signed By		
1	0.4 Good	Not Present		J		

Chain-of-Custody Record	Turn-Around Time:	ime:												Receiv
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	Project #:	2			Tel. 50	505-345-3975	3975	Fax	505-345-4107	45-41	07			7/202
Phone #:							Ā	Analysis	Request	est				2 1:
email or Fax#:	Project Manager:	er:			/-			₽O		(tr			-	44:3
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	Cooler Temp(including CF):	6	4-0:0.4 (°C)				əM 8			olifor				
Date Time Matrix Sample Name	Container P	Preservative Type	HEAL NO.	BTEX /	9081 Pé	M) BDE	8 ARDF	3) E' B	S) 0728	Total Co				
100c		3	1										+	-
19-11451		8	200					×						
3Ha-3"			603					<i>></i>						
BH3-6			700					×						
BH3-31			005					×						
13-51			900					X						
BHH-3			700	×				×						
1			000	×				X						
1845-31		-	600	×										
BH5-31			010	×										
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Date: Time: Relinquished by:	Received by:	Via:	5	É	nark	500	aule	Kcnarles@Faulenerqy, com	4° C	MC				е 141 ој
necessary, samp	ocontracted to other accre	edited laboratories	s. This serves as notice of this	possibility.	Any sub	-contracte	ed data w	III be clear	y notated	d on the	analytica	l report.		f 154



June 6, 2022

#5E31368

NMOCD District 2 811 S. First St Aztec, New Mexico 88220

SUBJECT: Remediation Plan for the Antelope Sink #1 Release (nAPP2205926232), Eddy County, New Mexico

To Whom It May Concern

On behalf of FE-NM, LLC, Souder, Miller & Associates (SMA) has prepared this Remediation Plan that describes the delineation and proposed remediation for a release of liquids related to oil and gas production activities at the Antelope Sink Unit #001 site. The site is in Unit G, Section 18, Township 19S, Range 24E, Eddy County, New Mexico, on State land. Figure 1 illustrates the vicinity and site location on an USGS 7.5 minute quadrangle map.

Table 1, summarizes information regarding the release.

	Table 1: Release Information	on and Closure	Criteria
Name	Antelope Sink Unit #001	Company	FE-NM
API Number	30-015-10041	Location	32.66316, -104.62593
Tracking Number	N/	APP2205926232	2
Estimated Date of Release	2/17/2022	Date Reported to NMOCD	2/18/2022
Land Owner	New Mexico State Land	Reported To	NMOCD
Source of Release	Valve froze which caused the incide	ent	
Released Volume	21 BBL	Released Material	Produced Water
Recovered Volume	0 BBL	Net Release	21 BBL
NMOCD Closure Criteria	<50 feet to groundwater		
SMA Response Dates	March 30, 2022 and May 20, 2022		

Antelope Sink Unit #001 Remediation Plan June 6, 2022

Page 2 of 4

1.0 Background

On February 17, 2022, a release was discovered at the Antelope sink #1 site due to a frozen valve. Initial response activities were conducted by operator, and included source elimination, containment, and site stabilization activities. Figure 1 illustrates the vicinity and site location, Figures 2 and 3 illustrate the release location. The release notification form is included in Appendix A.

2.0 Site Information and Closure Criteria

The Antelope Sink Unit #001 is an active production facility located approximately 18 miles southwest of Artesia, New Mexico on State land at an elevation of approximately 3823 feet above mean sea level (amsl).

Depth to Groundwater

Based upon New Mexico Office of the State Engineer (Appendix B), depth to groundwater in the area is estimated to be an average of 382 feet below grade surface (bgs). The minimum depth is 285 feet bgs and the maximum is 480 bgs.

Wellhead Protection Area

There are no known water sources within ½-mile of the location, according to the New Mexico Office of the State Engineer (NMOSE) online water well database.

Distance to Nearest Significant Watercourse

The nearest significant watercourse is an unnamed tributary of the Fourmile Draw, located approximately 2,554 feet.

Antelope Sink Unit #001 will be restored to meet the standards of Table I of 19.15.29.12 NMAC. Table 2 demonstrates the Closure Criteria applicable to this location. Figure 2 illustrates the site with 200 and 300-foot radii to indicate that it does not lie within a sensitive area. The site is not considered an "exploration, development, production or storage site" and therefore the top four feet must be remediated to the most stringent standards. Additionally, the release area did not occur on land considered "in-use", as outlined by 19.15.29.13.D NMAC. Therefore, the release area shall be reclaimed within the upper four feet to meet the standards of 19.15.29.13.D(1).

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 in addition to the requirements of reclamation for the upper four feet of impacted soil.

3.0 Release Characterization Activities and Findings

On March 30, 2022 and May 20, 2022, SMA personnel performed site delineation activities at the Antelope Sink Unit #001 site. SMA collected soil samples around the release site and throughout the visibly stained area. The area of visual impact was located entirely outside the boundary of any production or storage facilities.

Soil samples were field-screened for chloride using an electrical conductivity (EC) meter.

A total of six (6) borehole locations (BH1-BH6) were investigated using excavated test pits, to depths up to six (6) feet bgs. A minimum of two samples were collected at each sampling location and field-screened using the method above. A total of twenty-six (26) 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.

Released to Imaging: 10/13/2022 11:23:55 AM

Antelope Sink Unit #001 Remediation Plan June 6, 2022

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4.0 Proposed Soil Remediation Work Plan

SMA proposes excavation and removal of contaminated soil. The impacted area will be excavated to approximately two (2) to six (6) feet bgs. SMA will guide the excavation by collecting soil samples for field screening for chloride using an EC meter.

The release area will be excavated to the NMOCD Closure Criteria as demonstrated in the attached Table 2. Confirmation samples will be comprised of representative wall and base 5-point composite samples, each representing less than 200 ft² of exposed excavation (Figure 3A). The confirmation samples will be collected from within the excavation in accordance with the sampling protocol included in Appendix C.

Approximately 575 cubic yards of contaminated soil is projected to be removed and replaced with clean backfill material in order to return the surface to previous contours. The contaminated soil will be transported for disposal at R360 Environmental Solutions near Hobbs, NM, an NMOCD-permitted disposal facility. Upon approval by NMOCD, the projected timeline for completion of remediation activities is approximately 90 Days days following approval.

5.0 Scope and Limitations

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

If there are any questions regarding this report, please contact either SMA Project Manager, Lynn A. Acosta, at 505516-7469.

Submitted by: SOUDER, MILLER & ASSOCIATES

Reviewed by:

fynn A. Acosta

Lynn A. Acosta Staff Scientist Ashley Maxwell Senior Scientist

REFERENCES:

New Mexico Office of the State Engineer (NMOSE) online water well database https://gis.ose.state.nm.us/gisapps/ose_pod_locations/; accessed 6/5/2022 Antelope Sink Unit #001 Remediation Plan June 6, 2022

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ATTACHMENTS:

Figures:

Figure 1: Vicinity and Well Head Protection Map

Figure 2: Surface Water Radius Map Figure 3: Site and Sample Location Map

Figure 3A: Confirmation Sample Location Map

Tables:

Table 2: NMOCD Closure Criteria Justification

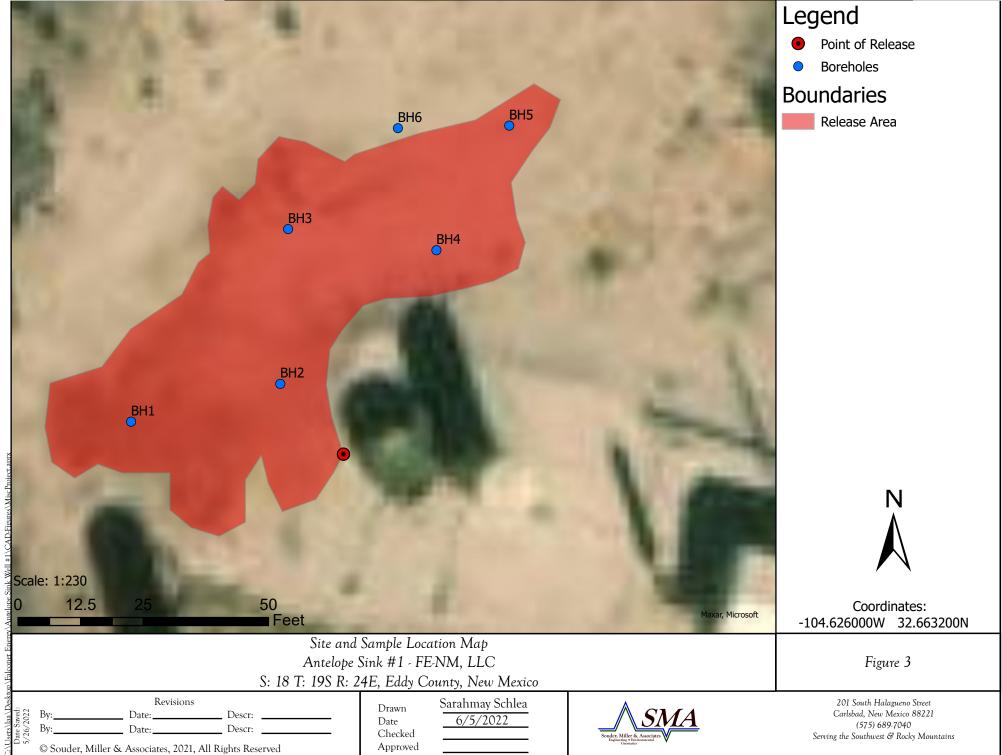
Table 3: Summary of Sample Results

Appendices:

Appendix A: Release Notification Appendix B: NMOSE Wells Report Appendix C: Sampling Protocol

Appendix D: Laboratory Analytical Reports

FIGURES



Confirmation Sample Location Map Antelope Sink #1 - FE-NM, LLC

S: 18 T: 19S R: 24E, Eddy County, New Mexico

Figure 3A

Revisions

By:_____ Date:_____ Descr: _____

By:____ Date:____ Descr: _____

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Drawn
Date
Checked
Approved

Sarahmay Schlea
6/5/2022
6/5/2022



201 South Halagueno Street Carlsbad, New Mexico 88221 (575) 689-7040 Serving the Southwest & Rocky Mountains

TABLES

FE-NM, LLC

Antelope Sink Unit #001

Site Information (19.15.29.11.A(2, 3, and 4) NMAC)		Source/Notes
Depth to Groundwater (feet bgs)	285	New Mexico Office of the State Engineer
Hortizontal Distance From All Water Sources Within 1/2 Mile (ft)	None	United States Geological Survey
Hortizontal Distance to Nearest Significant Watercourse (ft)	2554	Unnamed tributary of the Fourmile Draw

Closure Criteria (19.15.	29.12.B(4) and	l Table 1 NMAC)				
		Closu	re Criteria	a (units in m	ng/kg)	
Depth to Groundwater		Chloride *numerical limit or background, whichever is greater	ТРН	GRO + DRO	ВТЕХ	Benzene
< 50' BGS	Х	600	100		50	10
51' to 100'		10000	2500	1000	50	10
>100'		20000	2500	1000	50	10
Surface Water	yes or no		if ye	s, then		
<300' from continuously flowing watercourse or other significant watercourse? <200' from lakebed, sinkhole or playa lake?	No No					
Water Well or Water Source	Π					
<500 feet from spring or a private, domestic fresh water well used by less than 5 households for domestic or stock watering purposes?	No					
<1000' from fresh water well or spring?	No					
Human and Other Areas <300' from an occupied permanent residence, school, hospital,		600	100		50	10
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(Med.Risk)					
within a 100-year floodplain?	No					

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FE-NM, LLC

Table 3: Summary of Sample Results

Antelope Sink Well #1 Method Method 8021B Method 8015D 300.0 **Depth of Sample Action** Sample ID Sample Date (feet bgs) Taken **GRO** CI-**BTEX** Benzene DRO **MRO** Total TPH mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg **NMOCD Closure Criteria** 50 10 100 600 3/30/2022 Surface In-Situ < 0.213 < 0.024 <4.7 <9.6 <48 <62.3 <60 BG1 3/30/2022 1' < 0.224 < 0.025 <9.3 <61.3 <60 In-Situ <5.0 <47 3/30/2022 Surface In-Situ < 0.216 < 0.024 <4.8 <10 < 50 <64.8 <60 BG2 3/30/2022 1' In-Situ < 0.213 < 0.024 <4.7 < 9.5 <47 <61.2 <60 3/30/2022 Surface 19000 < 0.222 < 0.025 <4.9 < 9.5 <47 <61.4 3/30/2022 < 0.221 < 0.025 <4.9 < 9.6 <48 <62.5 1 Excavate 27000 BH1 5/20/2022 3 6500 5/20/2022 6 In-Situ <60 3/30/2022 Surface < 0.220 < 0.024 <4.9 <8.5 <43 <56.4 15000 3/30/2022 1 < 0.225 < 0.025 < 5.0 <10 <50 <65 6100 Excavate BH2 3 5/20/2022 4600 -_ -5/20/2022 5 <60 In-Situ < 0.217 3/30/2022 Surface < 0.024 <4.8 < 9.3 <47 <61.1 4400 3/30/2022 < 0.219 < 0.024 <4.9 <9.8 <49 Excavate <63.7 5700 1 BH3 5/20/2022 3 2400 5 5/20/2020 In-Situ <60 -_ _ -3/30/2022 Surface < 0.215 < 0.024 <4.8 370 1000 1370 10000 3/30/2022 Excavate 110 3900 1 < 0.219 < 0.024 <4.9 300 410 BH4 5/20/2022 3 <4.8 <9.3 <46 <60.1 2400 5/20/2022 6 In-Situ <4.8 <9.2 <46 <60.1 <60 3/30/2022 Surface < 0.215 < 0.024 <4.8 240 700 940 <60 Excavate 3/30/2022 1 < 0.216 < 0.024 <4.8 37 140 177 <60 BH5 5/20/2022 2 <9.7 <62.7 In-Situ < 5.0 <48 5/20/2022 3 In-Situ <4.9 <9.7 <49 <63.6

"-" = Not Analyzed

BH6

BG: Background sample

3/30/2022

3/30/2022

Surface

1

In-Situ

In-Situ

< 0.025

< 0.024

<4.9

<4.9

<9.7

< 9.5

<48

<48

<62.6

<62.4

<60

<60

< 0.222

< 0.220

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II 811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. **Santa Fe, NM 87505**

COMMENTS

Action 114510

COMMENTS

Operator:	OGRID:
FE-NM, LLC	331102
1001 E SE Loop 323, STE. 160	Action Number:
Tyler, TX 75711	114510
	Action Type:
	[C-141] Release Corrective Action (C-141)

COMMENTS

Created By		Comment Date
jharimon	Missing initial C-141	6/7/2022

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CONDITIONS

Created By	Condition	Condition Date	ı
rhamlet	The release will need to be remediated to the strictest closure criteria standards due to no known water sources within ½-mile of the location. All off pad areas or land considered "no longer in use" must contain a minimum of 4 feet non-waste containing uncontaminated, earthen material with chloride concentrations less than 600 mg/kg and less than 100 mg/kg for TPH. Floor samples must be excavated to the strictest closure criteria. Sidewall samples should be delineated/excavated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release. Please collect confirmation samples (floor/sidewall), representing no more than 200 ft2. All samples must be analyzed for all constituents listed in Table I of 19.15.29.12 NMAC. A closure report will need to be completed and uploaded within 90 days.	10/13/2022	