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)

closed) (quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

		POD													
		Sub-		Q	Q	Q								V	Vater
POD Number	Code	basin	County	64	16	4	Sec	Tws	Rng	X	Y	DistanceDe	pthWellDep	othWater Co	lumn
<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
<u>RA 07466 CLW</u>		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

*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 CORRESPONDENCE

From: Enviro, OCD, EMNRD
To: Lynn Acosta

Cc: Bratcher, Michael, EMNRD: Hamlet, Robert, EMNRD

Subject: RE: [EXTERNAL] Antelope Sink Well #1 nAPP2205926232

Date: Tuesday, December 13, 2022 8:15:31 AM

Attachments: <u>image001.jpg</u>

image002.png image003.png image004.png image005.png

Thank you for the notification. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Jocelyn Harimon • Environmental Specialist

Environmental Bureau
EMNRD - Oil Conservation Division
1220 South St. Francis Drive | Santa Fe, NM 87505
(505)469-2821 | Jocelyn.Harimon@emnrd.nm.gov

http://www.emnrd.nm.gov



From: Lynn Acosta < lynn.acosta@soudermiller.com>

Sent: Tuesday, December 13, 2022 5:13 AM

To: Enviro, OCD, EMNRD < OCD.Enviro@emnrd.nm.gov>

Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Hamlet, Robert, EMNRD

<Robert.Hamlet@emnrd.nm.gov>

Subject: RE: [EXTERNAL] Antelope Sink Well #1 nAPP2205926232

Good Morning,

Souder Miller and Associates (SMA) would like to notify you that SMA will commence confirmation sampling at the Antelope Sink Well #1 for incident nAPP2205926232. SMA personnel are scheduled to arrive on Thursday, December 15th, 2022, to conduct the confirmation sampling at 8:00 am.

If there are any questions/concerns, please feel free to reach out to me.

_

Lynn Acosta, Staff Scientist

Mobile: 505-516-7469



201 W. Halagueno St Carlsbad, NM 88220

From: Enviro, OCD, EMNRD < OCD.Enviro@emnrd.nm.gov>

Sent: Friday, December 9, 2022 8:57 AM

To: Lynn Acosta < ! Enviro, OCD, EMNRD

<<u>OCD.Enviro@emnrd.nm.gov</u>>

Cc: Bratcher, Michael, EMNRD < mike.bratcher@emnrd.nm.gov >; Hamlet, Robert, EMNRD

<<u>Robert.Hamlet@emnrd.nm.gov</u>>

Subject: RE: [EXTERNAL] Antelope Sink Well #1 nAPP2205926232

Thank you for the notification. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Jocelyn Harimon • Environmental Specialist

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EMNRD - Oil Conservation Division
1220 South St. Francis Drive | Santa Fe, NM 87505
(505)469-2821 | Jocelyn.Harimon@emnrd.nm.gov

http://www.emnrd.nm.gov



From: Lynn Acosta < lynn.acosta@soudermiller.com>

Sent: Friday, December 9, 2022 5:24 AM

To: Enviro, OCD, EMNRD < OCD. Enviro@emnrd.nm.gov >

Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Hamlet, Robert, EMNRD

<<u>Robert.Hamlet@emnrd.nm.gov</u>>

Subject: RE: [EXTERNAL] Antelope Sink Well #1 nAPP2205926232

All,

Due to some unforeseen circumstances during excavation. Confirmation sampling has been moved to next week, there will be another email sent out as soon as there is a confirmed date of the confirmation sampling. I just viewed this email and responded to the original notice I sent out so there might be two emails saying this.

Thank you for clarifying on the notice requirements.

Please let me know if you have any questions/concerns.

From: Enviro, OCD, EMNRD < OCD. Enviro@emnrd.nm.gov>

Sent: Thursday, December 8, 2022 8:30 AM

To: Lynn Acosta < <u>lynn.acosta@soudermiller.com</u>>

Cc: Bratcher, Michael, EMNRD <<u>mike.bratcher@emnrd.nm.gov</u>>; Hamlet, Robert, EMNRD

<<u>Robert.Hamlet@emnrd.nm.gov</u>>

Subject: RE: [EXTERNAL] Antelope Sink Well #1 nAPP2205926232

Please be aware that notification requirements are **two business days**, per rule. Please proceed on your schedule. Also, please include this, and all correspondence, in the closure report to insure inclusion in the project file.

Jocelyn Harimon • Environmental Specialist

Environmental Bureau
EMNRD - Oil Conservation Division
1220 South St. Francis Drive | Santa Fe, NM 87505
(505)469-2821 | <u>Jocelyn.Harimon@emnrd.nm.gov</u>

http://www.emnrd.nm.gov



From: Lynn Acosta < <u>lynn.acosta@soudermiller.com</u>>

Sent: Wednesday, December 7, 2022 7:06 PM

To: Enviro, OCD, EMNRD < OCD. Enviro@emnrd.nm.gov >

Cc: Karen Charles < kcharles@faulenergy.com >; Lupe Mendoza < lmendoza@faulenergy.com >; Chris Nakvinda < cnakvinda@faulenergy.com >; Heather Woods < Heather.Woods@soudermiller.com >

Subject: [EXTERNAL] Antelope Sink Well #1 nAPP2205926232

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

All,

Souder Miller and Associates (SMA) would like to notify you that SMA will commence confirmation

sampling at the Antelope Sink Well #1 for incident nAPP2205926232. SMA personnel are scheduled to arrive on Friday, December 9^{th} , 2022, to conduct the confirmation sampling at 8:00 am.

If there are any questions/concerns, please feel free to reach out to me.

Best Regards,

_



Lynn Acosta,

Staff Scientist

Mobile: 505-516-7469

201 W. Halagueno St Carlsbad, NM 88220

TABLES

Table 2: NMOCD Closure Criteria

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 Table 1 NMAC)								
		Closu	ıre Criteria	(units in n	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		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?	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							

Table 3: Summary of Confirmation 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	Cl-
				mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
	NMOCD (Closure Criteria		50	10		-		100	600
CBS1			In-Situ	<0.217	<0.024	<4.8	<15	<50	<69.8	<60
CBS2	7		In-Situ	<0.220	<0.024	<4.9	<9.3	<47	<69.9	<60
CBS3			In-Situ	<0.220	<0.024	<4.9	<13	<43	<60.9	<60
CBS4			In-Situ	<0.217	<0.024	<4.8	<13	<43	<60.8	<60
CBS5			In-Situ	<0.220	<0.024	<4.9	<15	<48	<67.9	<60
CBS6			In-Situ	<0.220	<0.024	<4.9	<9.6	<48	<62.9	<60
CBS7		5'	In-Situ	<0.219	<0.024	<4.9	<15	<49	<68.9	<60
CBS8	12/15/2022		In-Situ	<0.222	<0.025	<4.9	<14	<48	<66.9	<60
CBS9			In-Situ	<0.222	<0.025	<4.9	<13	<43	<60.9	<60
CBS10	1		In-Situ	<0.216	<0.024	<4.8	<14	<47	<65.8	<60
CBS11			In-Situ	<0.220	<0.024	<4.9	<15	<50	<69.9	<60
CBS12			In-Situ	<0.225	<0.025	<5.0	<14	<46	<65	<60
CBS13	1		In-Situ	<0.220	<0.024	<4.9	<13	<45	<62.9	<60
CBS14		2	In-Situ	<0.217	<0.024	<4.8	<13	<43	<60.8	<60
CBS15	1	2	In-Situ	<0.224	<0.025	<5.0	<14	<46	<65	<60
CSW1			In-Situ	<0.217	<0.024	<4.8	<15	<50	<69.8	<60
CSW2			In-Situ	<0.217	<0.024	<4.8	<15	<49	<68.8	<60
CSW3	†	_,	In-Situ	<0.221	<0.025	<4.9	<15	<48	<67.9	<60
CSW4		5'	In-Situ	<0.225	<0.024	<5.0	<14	<47	<66	<60
CSW5			In-Situ	<0.216	<0.024	<4.8	<15	<49	<68.8	<60
CSW6			In-Situ	<0.219	<0.024	<4.9	<14	<45	<63.9	<60
CSW7			In-Situ	<0.222	<0.025	<4.9	<13	<44	<61.9	<60
CSW8		2	In-Situ	<0.219	<0.024	<4.9	<15	<49	<68.9	<60
CSW9	12/15/2022		In-Situ	<0.221	<0.025	<4.9	<14	<45	<63.9	<60
CSW10			In-Situ	<0.221	<0.025	<4.9	<15	<49	<68.9	<60
CSW11			In-Situ	<0.216	<0.024	<4.8	<15	<49	<68.8	<60
CSW12			In-Situ	<0.219	<0.024	<4.9	<14	<47	<65.9	<60
CSW13		5'	In-Situ	<0.220	<0.024	<4.9	<14	<47	<65.9	<60
CSW14		-	In-Situ	<0.216	<0.024	<4.8	<13	<43	<60.8	<60
CSW15			In-Situ	<0.219	<0.024	<4.9	<13	<44	<61.9	<60
CSW16			In-Situ	<0.217	<0.024	<4.8	<14	<47	<65.8	<60

"-" = Not Analyzed

BG: Background sample

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV

State of New Mexico Energy Minerals and Natural Resource

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

RECEIVED

Form C-141 Revised October 10, 2003

AUG -1 2010 Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form side of form

1220 S. St. Francis Dr., Santa Fe, NM 87505 Release Notification and Corrective Action 30-015-10041

	Onen A Top
KMW 1035542428	OPERATOR ☐ Initial Report ☐ Final Report
Name of Company Vernon E. Faulconer, Inc. /48394	Contact Butch Hickey
Address 1001 ESE LOOP 323 TYLER, TEXAS 75701 Facility Name ANTELOPE SINK #1	Telephone No. 903-581-4382 Facility Type WELL & TANK BATTERY
Facility Name ANTELOFE SINK #1	racinty Type WELL & TANK BATTERT
Surface Owner JOE HELMS Mineral Owner	STATE OF NEW MEXICO Lease No. NM015-0027
	NM015-0028
	ON OF RELEASE
Unit Letter Section Township Range Feet from the Nort Section 18 19S 24E 1890 NOF	h/South Line Feet from the East/West Line County RTH 2070 EAST EDDY
Latitude 32.6632	Longitude104.6260
NATURI	E OF RELEASE
Type of Release CONDENSATE	Volume of Release 120 BBLS Volume Recovered 0
Source of Release TANK FAILURE (LIGHTNING)	Date and Hour of Occurrence Date and Hour of Discovery
<u> </u>	7/28/10 4 PM 7/28/10 4 PM
Was Immediate Notice Given?	If YES, To Whom? d DARREL GRAY with New Mexico Oil Conservation Division, called VEF
⊠ res □ No □ Not Require	Inc.
By Whom? ATOKA FIRE DEPARTMENT	Date and Hour 5:15 PM MOUNTAIN TIME 7/28/10
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.
If a Watercourse was Impacted, Describe Fully.*	
Describe Cause of Problem and Remedial Action Taken.* Lightning struck tank resulting in explosion & fire. Bottom of tank split Repipe well to produce into one tank remaining on location.	releasing contents. Most contents burned. Cleaned up & removed damaged tank.
Describe Area Affected and Cleanup Action Taken.*	
Area in front & behind tank battery (+-50' either side)	
regulations all operators are required to report and/or file certain release public health or the environment. The acceptance of a C-141 report by the should their operations have failed to admitted investigate and remediately investigate and remediate to a degrately investigate and remediate to a degrate the content of	the best of my knowledge and understand that pursuant to NMOCD rules and notifications and perform corrective actions for releases which may endanger the NMOCD marked as "Final Report" does not relieve the operator of liability at contamination that pose a threat to ground water, surface water, human health does not relieve the operator of responsibility for compliance with any other
Toolland	OIL CONSERVATION DIVISION
Signature: Printed Name: RAY SLOAN, JR.	Approved by District Super His By Mily Brance
Title: ENGINEER	Approval Date: 3/21/11 Expiration Date:
	Expiration Date.
E-mail Address: RSLOAN@VEFINC.COM	Conditions of Approval: Remediation per OCD Rules & Attached
Date: 7/29/10 Phone: 903-581-4382	Guidelines. SUBMIT REMEDIATION
Attach Additional Sheets If Necessary	
19	PROPOSAL NOT LATER THAN: 2RP-509

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

State of New Mexico Energy Minerals and Natural Resources Department

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

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible	Party FE-N	IM, LLC		OGRID	331102				
Contact Nam	ne Karen Ch	narles		Contact To	elephone 903-581-4382				
Contact ema					Incident # (assigned by OCD) nKMW1035542428				
Contact mail	ing address	PO Box 7995, Ty	ler, TX 75711	<u>.</u>					
				of Release So	ource				
Latitude	32.66316	<u> </u>	(NAD 83 in dec	Longitude _cimal degrees to 5 decin	-104.62593 nal places)				
Site Name A	ntelope Sinl	k Unit #001		Site Type	Gas Well				
Date Release	Discovered	7/28/2010		API# (if app	plicable) 30-015-10041				
Unit Letter	Section	Township	Range	Cour	County				
G	G 18 19S 24E			Eddy					
Surface Owne	r: X State	Federal Tr		Name:	Release				
Crude Oi		l(s) Released (Select al Volume Release		calculations or specific	justification for the volumes provided below) Volume Recovered (bbls)				
Produced					Volume Recovered (bbls)				
Produced	water	Volume Release		11 '1 ' 1	` '				
		produced water	ion of dissolved c >10,000 mg/l?	hloride in the	Yes No				
X Condensa	ite	Volume Release			Volume Recovered (bbls) 0				
Natural G	ias	Volume Release	d (Mcf)		Volume Recovered (Mcf)				
Other (describe) Volume/Weight Released (provide unit				e units)	Volume/Weight Recovered (provide units)				
Bottom o	struck tank of the tank sp	resulting in explose plit, releasing contour duce into other tan	ents. Most of the		The area was cleaned up & damaged tank removed.				
	-		-						

Received by OCD: 1/23/2023 3:43:26 PM Form C-141 State of New Mexico Page 2 Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major	If YES, for what reason(s) does the respons	sible party consider this a major release?
release as defined by 19.15.29.7(A) NMAC?	per NMOCD regulations	
X Yes No		
If VES was immediate no	otice given to the OCD? By whom? To who	om? When and by what means (phone, email, etc)?
Yes, by Atoka Fire Depa	·	5394 (Operator at the time) who in turn contacted Darrel Gray with
	Initial Re	sponse
The responsible p	party must undertake the following actions immediately	unless they could create a safety hazard that would result in injury
X The source of the rele	ease has been stopped.	
X The impacted area has	s been secured to protect human health and t	he environment.
Released materials ha	we been contained via the use of berms or di	kes, absorbent pads, or other containment devices.
X All free liquids and re	ecoverable materials have been removed and	managed appropriately.
If all the actions described	d above have <u>not</u> been undertaken, explain w	hy:
	. Initial C-141 was filed by Roy Sloan, Jr. or n order to complete the process online now.	
has begun, please attach a	a narrative of actions to date. If remedial e	mediation immediately after discovery of a release. If remediation fforts have been successfully completed or if the release occurred ease attach all information needed for closure evaluation.
regulations all operators are public health or the environm failed to adequately investigations.	required to report and/or file certain release notifinent. The acceptance of a C-141 report by the OC ate and remediate contamination that pose a threa	est of my knowledge and understand that pursuant to OCD rules and cations and perform corrective actions for releases which may endanger CD does not relieve the operator of liability should their operations have to groundwater, surface water, human health or the environment. In esponsibility for compliance with any other federal, state, or local laws
Printed Name: Karen C	harles	Title: Production Analyst
Signature: <u>Karen Cr</u>	harles	Date: 7/26/2022
email: <u>kcharles@faulene</u>	ergy.com	Telephone: 903-581-4382
OCD Only		
Received by:		Date:

Received by OCD: 1/23/2023 3:43:26 PM Form C-141 State of New Mexico Page 3 Oil Conservation Division

	1 480 17 01
Incident ID	
District RP	
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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 🄀 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 🏻 No

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

<u>Characterization Report Checklist</u>: 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.

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I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.					
Printed Name: Karen Charles	Title: Production Analyst				
Signature: Karen Charles	Date:7/26/2022_				
email: <u>kcharles@faulenergy.com</u>	Telephone: 903-581-4382 ext. 233				
OCD Only					
Received by:	Date:				

Received by OCD: 1/23/2023 3:43:26 PM Form C-141 State of New Mexico Page 5 Oil Conservation Division

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Incident ID	
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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 many out for deformal of non-aliation			
Deterral Requests Only: Each of the following tiems must be con-	jirmea as pari of any request for aeferral of remealation.			
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 complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.				
Printed Name: Karen Charles	Title: Production Analyst			
Signature: <u>Karen Charles</u>	Date: <u>7/26/2022</u>			
email: kcharles@faulenergy.com	Telephone: 903-581-4382, ext. 233			
OCD Only				
Received by:	Date:			
Approved Approved with Attached Conditions of A	Approval Denied Deferral Approved			
Signature:	Date:			

Received by OCD: 1/23/2023 3:43:26 PM Form C-141 State of New Mexico Page 6 Oil Conservation Division

Incident ID nKMW1035542428
District RP
Facility ID
Application ID

Closure

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

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

X A scaled site and sampling diagram as described in 19.15.2	9.11 NMAC
New Photographs of the remediated site prior to backfill or phot must be notified 2 days prior to liner inspection)	tos of the liner integrity if applicable (Note: appropriate OCD District office
☐ X Laboratory analyses of final sampling (Note: appropriate O	DC District office must be notified 2 days prior to final sampling)
☑ Description of remediation activities	
and regulations all operators are required to report and/or file cermay endanger public health or the environment. The acceptance should their operations have failed to adequately investigate and human health or the environment. In addition, OCD acceptance compliance with any other federal, state, or local laws and/or regrestore, reclaim, and re-vegetate the impacted surface area to the accordance with 19.15.29.13 NMAC including notification to the	Title: Sr. Production & Regulatory Analsyt
OCD Only	
Received by:	Date:
	rty of liability should their operations have failed to adequately investigate and ce water, human health, or the environment nor does not relieve the responsible ad/or regulations.
Closure Approved by:	Date:
Printed Name:	Title:

Received by OCD: 1/23/2023 3:43:26 PM Form C-141 State of New Mexico Page 6 Oil Conservation Division

X A scaled site and sampling diagram as described in 19.15.29.11 NMAC

Incident ID nKMW1035542428
District RP
Facility ID
Application ID

Closure

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

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

Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office nust be notified 2 days prior to liner inspection)				
X Laboratory analyses of final sampling (Note: appropriate ODC	C District office must be notified 2 days prior to final sampling)			
X Description of remediation activities				
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of	ntions. The responsible party acknowledges they must substantially nditions that existed prior to the release or their final land use in			
Printed Name: Karen Charles	Title: Sr. Production & Regulatory Analsyt			
Signature: Karen Charles	Date: 01/13/2023			
email: kcharles@faulenergy.com	Telephone: 903-581-4382			
OCD Only				
Received by:	Date:			
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible or regulations.			
Closure Approved by:	Date:			
Printed Name:	Title:			

X A scaled site and sampling diagram as described in 19.15.29.11 NMAC

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Incident ID nKMW1035542428

District RP
Facility ID
Application ID

Closure

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

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

Note The Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	of the liner integrity if applicable (Note: appropriate OCD District office
X Laboratory analyses of final sampling (Note: appropriate ODC	C District office must be notified 2 days prior to final sampling)
X Description of remediation activities	
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and replacement human health or the environment. In addition, OCD acceptance of	ations. The responsible party acknowledges they must substantially inditions that existed prior to the release or their final land use in
Printed Name: Karen Charles	Title: Sr. Production & Regulatory Analsyt
Signature: Karen Charles	Date: 01/13/2023
email: kcharles@faulenergy.com	Telephone: 903-581-4382
OCD Only	
Received by: Robert Hamlet	Date: 5/22/2023
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible for regulations.
Closure Approved by: Robert Hamlet	Date: <u>5/22/2023</u>
Printed Name: Robert Hamlet	Title: Environmental Specialist - Advanced

FIGURES

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

Drawn

Checked

Approved

Date

Sarahmay Schlea

1/12/2023

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

Revisions

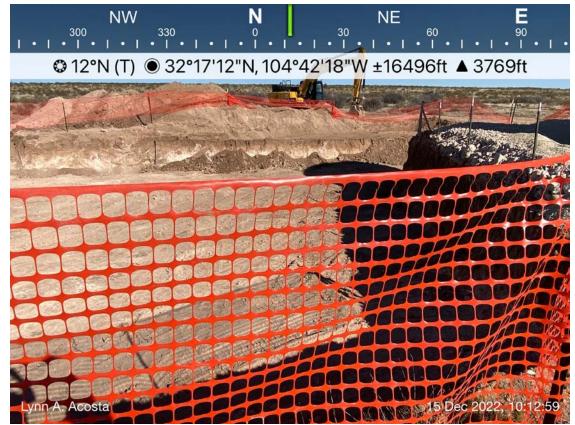
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____ Descr:

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APPENDIX D PHOTOLOG

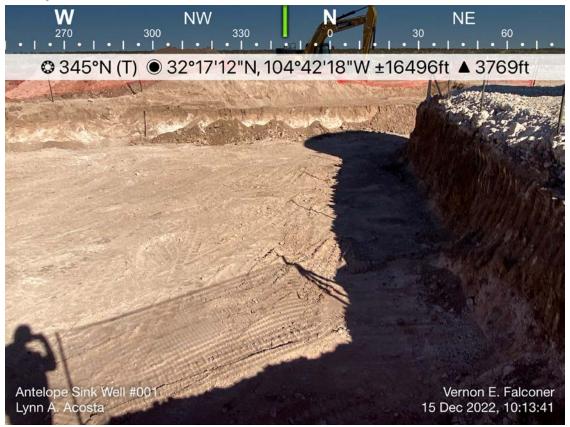
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Received by OCD: 1/23/2023 3:43:26 PM

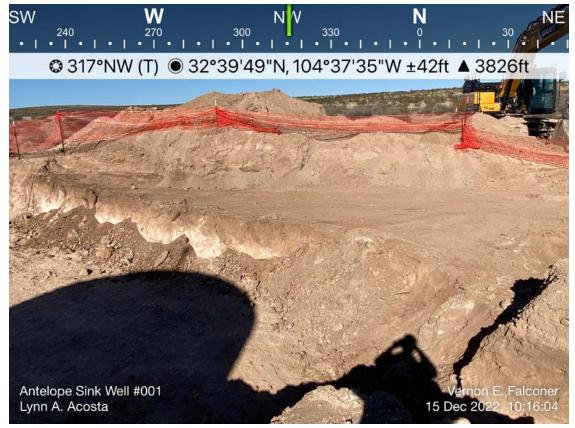




Received by OCD: 1/23/2023 3:43:26 PM









APPENDIX F LABORATORY ANALYTICAL REPORT



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

December 29, 2022

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

FAX

RE: Antelope Sink 001 OrderNo.: 2212A84

Dear Lynn A. Acosta:

Hall Environmental Analysis Laboratory received 31 sample(s) on 12/17/2022 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 2212A84

Date Reported: 12/29/2022

Hall Environmental Analysis Laboratory, Inc.

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

Project: Antelope Sink 001 **Collection Date:** 12/15/2022

Lab ID: 2212A84-001 **Matrix:** SOIL **Received Date:** 12/17/2022 10:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	ND	60	mg/Kg	20	12/22/2022 4:41:52 PM	72277
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	12/21/2022 4:13:12 PM	72215
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	12/21/2022 4:13:12 PM	72215
Surr: DNOP	108	21-129	%Rec	1	12/21/2022 4:13:12 PM	72215
EPA METHOD 8015D: GASOLINE RANGE					Analyst	CCM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	12/21/2022 9:39:00 PM	72183
Surr: BFB	99.3	37.7-212	%Rec	1	12/21/2022 9:39:00 PM	72183
EPA METHOD 8021B: VOLATILES					Analyst	CCM
Benzene	ND	0.024	mg/Kg	1	12/21/2022 9:39:00 PM	72183
Toluene	ND	0.048	mg/Kg	1	12/21/2022 9:39:00 PM	72183
Ethylbenzene	ND	0.048	mg/Kg	1	12/21/2022 9:39:00 PM	72183
Xylenes, Total	ND	0.097	mg/Kg	1	12/21/2022 9:39:00 PM	72183
Surr: 4-Bromofluorobenzene	111	70-130	%Rec	1	12/21/2022 9:39:00 PM	72183

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/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 2212A84

Date Reported: 12/29/2022

Hall Environmental Analysis Laboratory, Inc.

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

Project: Antelope Sink 001 **Collection Date:** 12/15/2022

Lab ID: 2212A84-002 **Matrix:** SOIL **Received Date:** 12/17/2022 10:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	ND	60	mg/Kg	20	12/22/2022 4:54:17 PM	72277
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	12/21/2022 4:23:51 PM	72215
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	12/21/2022 4:23:51 PM	72215
Surr: DNOP	127	21-129	%Rec	1	12/21/2022 4:23:51 PM	72215
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	12/21/2022 9:59:00 PM	72183
Surr: BFB	100	37.7-212	%Rec	1	12/21/2022 9:59:00 PM	72183
EPA METHOD 8021B: VOLATILES					Analyst	: CCM
Benzene	ND	0.024	mg/Kg	1	12/21/2022 9:59:00 PM	72183
Toluene	ND	0.049	mg/Kg	1	12/21/2022 9:59:00 PM	72183
Ethylbenzene	ND	0.049	mg/Kg	1	12/21/2022 9:59:00 PM	72183
Xylenes, Total	ND	0.098	mg/Kg	1	12/21/2022 9:59:00 PM	72183
Surr: 4-Bromofluorobenzene	112	70-130	%Rec	1	12/21/2022 9:59:00 PM	72183

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/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 **2212A84**Date Reported: **12/29/2022**

Hall Environmental Analysis Laboratory, Inc.

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

Project: Antelope Sink 001 **Collection Date:** 12/15/2022

Lab ID: 2212A84-003 **Matrix:** SOIL **Received Date:** 12/17/2022 10:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed Batch
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	12/22/2022 5:06:41 PM 72277
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	13	mg/Kg	1	12/21/2022 4:34:32 PM 72215
Motor Oil Range Organics (MRO)	ND	43	mg/Kg	1	12/21/2022 4:34:32 PM 72215
Surr: DNOP	113	21-129	%Rec	1	12/21/2022 4:34:32 PM 72215
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	12/21/2022 10:18:00 PM 72183
Surr: BFB	95.8	37.7-212	%Rec	1	12/21/2022 10:18:00 PM 72183
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	12/21/2022 10:18:00 PM 72183
Toluene	ND	0.049	mg/Kg	1	12/21/2022 10:18:00 PM 72183
Ethylbenzene	ND	0.049	mg/Kg	1	12/21/2022 10:18:00 PM 72183
Xylenes, Total	ND	0.098	mg/Kg	1	12/21/2022 10:18:00 PM 72183
Surr: 4-Bromofluorobenzene	107	70-130	%Rec	1	12/21/2022 10:18:00 PM 72183

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- L Reporting Limit

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Date Reported: 12/29/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: CBS-4

Project: Antelope Sink 001 Collection Date: 12/15/2022

Lab ID: 2212A84-004 **Matrix:** SOIL **Received Date:** 12/17/2022 10:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed Batch
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	61	mg/Kg	20	12/22/2022 5:19:05 PM 72277
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	13	mg/Kg	1	12/21/2022 4:45:20 PM 72215
Motor Oil Range Organics (MRO)	ND	43	mg/Kg	1	12/21/2022 4:45:20 PM 72215
Surr: DNOP	111	21-129	%Rec	1	12/21/2022 4:45:20 PM 72215
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	12/21/2022 10:38:00 PM 72183
Surr: BFB	105	37.7-212	%Rec	1	12/21/2022 10:38:00 PM 72183
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	12/21/2022 10:38:00 PM 72183
Toluene	ND	0.048	mg/Kg	1	12/21/2022 10:38:00 PM 72183
Ethylbenzene	ND	0.048	mg/Kg	1	12/21/2022 10:38:00 PM 72183
Xylenes, Total	ND	0.097	mg/Kg	1	12/21/2022 10:38:00 PM 72183
Surr: 4-Bromofluorobenzene	111	70-130	%Rec	1	12/21/2022 10:38:00 PM 72183

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 12/29/2022

Hall Environmental Analysis Laboratory, Inc.

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

Project: Antelope Sink 001 **Collection Date:** 12/15/2022

Lab ID: 2212A84-005 **Matrix:** SOIL **Received Date:** 12/17/2022 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed Batch
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	ND	60		mg/Kg	20	12/22/2022 5:31:30 PM 72277
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS					Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	12/21/2022 6:58:02 PM 72215
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	12/21/2022 6:58:02 PM 72215
Surr: DNOP	144	21-129	S	%Rec	1	12/21/2022 6:58:02 PM 72215
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/21/2022 10:58:00 PM 72183
Surr: BFB	102	37.7-212		%Rec	1	12/21/2022 10:58:00 PM 72183
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	12/21/2022 10:58:00 PM 72183
Toluene	ND	0.049		mg/Kg	1	12/21/2022 10:58:00 PM 72183
Ethylbenzene	ND	0.049		mg/Kg	1	12/21/2022 10:58:00 PM 72183
Xylenes, Total	ND	0.098		mg/Kg	1	12/21/2022 10:58:00 PM 72183
Surr: 4-Bromofluorobenzene	113	70-130		%Rec	1	12/21/2022 10:58:00 PM 72183

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 12/29/2022

Hall Environmental Analysis Laboratory, Inc.

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

Project: Antelope Sink 001 Collection Date: 12/15/2022

Lab ID: 2212A84-006 **Matrix:** SOIL **Received Date:** 12/17/2022 10:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed Batch
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	12/23/2022 4:54:17 AM 72290
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	13	mg/Kg	1	12/21/2022 11:54:05 PM 72215
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	12/21/2022 11:54:05 PM 72215
Surr: DNOP	121	21-129	%Rec	1	12/21/2022 11:54:05 PM 72215
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	12/21/2022 11:17:00 PM 72183
Surr: BFB	98.0	37.7-212	%Rec	1	12/21/2022 11:17:00 PM 72183
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	12/21/2022 11:17:00 PM 72183
Toluene	ND	0.049	mg/Kg	1	12/21/2022 11:17:00 PM 72183
Ethylbenzene	ND	0.049	mg/Kg	1	12/21/2022 11:17:00 PM 72183
Xylenes, Total	ND	0.098	mg/Kg	1	12/21/2022 11:17:00 PM 72183
Surr: 4-Bromofluorobenzene	107	70-130	%Rec	1	12/21/2022 11:17:00 PM 72183

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 12/29/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: CBS-15 **Project:** Antelope Sink 001 **Collection Date:** 12/15/2022

2212A84-015 Matrix: SOIL Received Date: 12/17/2022 10:00:00 AM Lab ID:

Analyses	Result	RL	Qual Units	DF	Date Analyzed Batch
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	12/23/2022 9:11:27 AM 72293
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	12/22/2022 2:01:13 AM 72228
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	12/22/2022 2:01:13 AM 72228
Surr: DNOP	94.8	21-129	%Rec	1	12/22/2022 2:01:13 AM 72228
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	12/21/2022 11:58:00 AM 72191
Surr: BFB	105	37.7-212	%Rec	1	12/21/2022 11:58:00 AM 72191
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.025	mg/Kg	1	12/21/2022 11:58:00 AM 72191
Toluene	ND	0.050	mg/Kg	1	12/21/2022 11:58:00 AM 72191
Ethylbenzene	ND	0.050	mg/Kg	1	12/21/2022 11:58:00 AM 72191
Xylenes, Total	ND	0.099	mg/Kg	1	12/21/2022 11:58:00 AM 72191
Surr: 4-Bromofluorobenzene	114	70-130	%Rec	1	12/21/2022 11:58:00 AM 72191

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 12/29/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: CSW-1 **Project:** Antelope Sink 001 **Collection Date:** 12/15/2022

2212A84-016 Matrix: SOIL Lab ID: Received Date: 12/17/2022 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: JTT
Chloride	ND	60		mg/Kg	20	12/23/2022 9:23:52 AM	72293
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS					Analyst	DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	12/22/2022 2:32:28 AM	72228
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	12/22/2022 2:32:28 AM	72228
Surr: DNOP	148	21-129	S	%Rec	1	12/22/2022 2:32:28 AM	72228
EPA METHOD 8015D: GASOLINE RANGE						Analyst	CCM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/21/2022 1:07:00 PM	72191
Surr: BFB	106	37.7-212		%Rec	1	12/21/2022 1:07:00 PM	72191
EPA METHOD 8021B: VOLATILES						Analyst	CCM
Benzene	ND	0.024		mg/Kg	1	12/21/2022 1:07:00 PM	72191
Toluene	ND	0.048		mg/Kg	1	12/21/2022 1:07:00 PM	72191
Ethylbenzene	ND	0.048		mg/Kg	1	12/21/2022 1:07:00 PM	72191
Xylenes, Total	ND	0.097		mg/Kg	1	12/21/2022 1:07:00 PM	72191
Surr: 4-Bromofluorobenzene	114	70-130		%Rec	1	12/21/2022 1:07:00 PM	72191

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- Reporting Limit

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Date Reported: 12/29/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: CSW-2 **Project:** Antelope Sink 001 **Collection Date:** 12/15/2022

2212A84-017 Matrix: SOIL Lab ID: Received Date: 12/17/2022 10:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	:: JTT
Chloride	ND	60	mg/Kg	20	12/23/2022 9:36:17 AM	72293
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	12/22/2022 2:42:51 AM	72228
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	12/22/2022 2:42:51 AM	72228
Surr: DNOP	127	21-129	%Rec	1	12/22/2022 2:42:51 AM	72228
EPA METHOD 8015D: GASOLINE RANGE					Analyst	:: CCM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	12/21/2022 2:07:00 PM	72191
Surr: BFB	105	37.7-212	%Rec	1	12/21/2022 2:07:00 PM	72191
EPA METHOD 8021B: VOLATILES					Analyst	: CCM
Benzene	ND	0.024	mg/Kg	1	12/21/2022 2:07:00 PM	72191
Toluene	ND	0.048	mg/Kg	1	12/21/2022 2:07:00 PM	72191
Ethylbenzene	ND	0.048	mg/Kg	1	12/21/2022 2:07:00 PM	72191
Xylenes, Total	ND	0.097	mg/Kg	1	12/21/2022 2:07:00 PM	72191
Surr: 4-Bromofluorobenzene	113	70-130	%Rec	1	12/21/2022 2:07:00 PM	72191

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- Reporting Limit

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Date Reported: 12/29/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates **Client Sample ID: CSW-3 Project:** Antelope Sink 001 **Collection Date:** 12/15/2022

2212A84-018 Matrix: SOIL Lab ID: Received Date: 12/17/2022 10:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JTT
Chloride	ND	60	mg/Kg	20	12/23/2022 9:48:41 AM	72293
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	12/22/2022 2:53:14 AM	72228
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	12/22/2022 2:53:14 AM	72228
Surr: DNOP	105	21-129	%Rec	1	12/22/2022 2:53:14 AM	72228
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	12/21/2022 2:26:00 PM	72191
Surr: BFB	93.6	37.7-212	%Rec	1	12/21/2022 2:26:00 PM	72191
EPA METHOD 8021B: VOLATILES					Analyst	: CCM
Benzene	ND	0.025	mg/Kg	1	12/21/2022 2:26:00 PM	72191
Toluene	ND	0.049	mg/Kg	1	12/21/2022 2:26:00 PM	72191
Ethylbenzene	ND	0.049	mg/Kg	1	12/21/2022 2:26:00 PM	72191
Xylenes, Total	ND	0.098	mg/Kg	1	12/21/2022 2:26:00 PM	72191
Surr: 4-Bromofluorobenzene	105	70-130	%Rec	1	12/21/2022 2:26:00 PM	72191

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- Reporting Limit

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Date Reported: 12/29/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: CSW-4

Project: Antelope Sink 001 **Collection Date:** 12/15/2022

2212A84-019 Lab ID: Matrix: SOIL Received Date: 12/17/2022 10:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed Ba	atch
EPA METHOD 300.0: ANIONS					Analyst: JT	ГТ
Chloride	ND	60	mg/Kg	20	12/23/2022 10:01:06 AM 72	2293
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS				Analyst: DC	GH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	12/22/2022 3:03:39 AM 72	2228
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	12/22/2022 3:03:39 AM 72	2228
Surr: DNOP	116	21-129	%Rec	1	12/22/2022 3:03:39 AM 72	2228
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CC	СМ
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	12/21/2022 2:46:00 PM 72	2191
Surr: BFB	93.0	37.7-212	%Rec	1	12/21/2022 2:46:00 PM 72	2191
EPA METHOD 8021B: VOLATILES					Analyst: CC	CM
Benzene	ND	0.025	mg/Kg	1	12/21/2022 2:46:00 PM 72	2191
Toluene	ND	0.050	mg/Kg	1	12/21/2022 2:46:00 PM 72	2191
Ethylbenzene	ND	0.050	mg/Kg	1	12/21/2022 2:46:00 PM 72	2191
Xylenes, Total	ND	0.10	mg/Kg	1	12/21/2022 2:46:00 PM 72	2191
Surr: 4-Bromofluorobenzene	101	70-130	%Rec	1	12/21/2022 2:46:00 PM 72	2191

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 standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- Reporting Limit

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Surr: 4-Bromofluorobenzene

Analytical Report Lab Order 2212A84

Date Reported: 12/29/2022

12/21/2022 3:05:00 PM 72191

Hall Environmental Analysis Laboratory, Inc.

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

Project: Antelope Sink 001 **Collection Date:** 12/15/2022 Lab ID: 2212A84-020 Matrix: SOIL Received Date: 12/17/2022 10:00:00 AM

Result **RL Oual Units DF** Date Analyzed **Batch** Analyses **EPA METHOD 300.0: ANIONS** Analyst: JTT Chloride ND 60 mg/Kg 20 12/23/2022 10:13:30 AM 72293 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: **DGH** Diesel Range Organics (DRO) ND 15 mg/Kg 12/22/2022 3:14:07 AM 72228 Motor Oil Range Organics (MRO) ND 49 mg/Kg 1 12/22/2022 3:14:07 AM 72228 Surr: DNOP %Rec 113 21-129 12/22/2022 3:14:07 AM 72228 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: CCM 12/21/2022 3:05:00 PM 72191 Gasoline Range Organics (GRO) ND 4.8 mg/Kg Surr: BFB 104 37.7-212 %Rec 12/21/2022 3:05:00 PM 72191 **EPA METHOD 8021B: VOLATILES** Analyst: CCM ND 0.024 12/21/2022 3:05:00 PM 72191 Benzene mg/Kg Toluene ND 0.048 mg/Kg 12/21/2022 3:05:00 PM 72191 Ethylbenzene ND 0.048 mg/Kg 1 12/21/2022 3:05:00 PM 72191 Xylenes, Total ND 0.096 mg/Kg 12/21/2022 3:05:00 PM 72191

110

70-130

%Rec

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Η Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- Analyte detected below quantitation limits
- Р Sample pH Not In Range
- Reporting Limit

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Date Reported: 12/29/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates **Client Sample ID: CSW-6 Project:** Antelope Sink 001 **Collection Date:** 12/15/2022

2212A84-021 Matrix: SOIL Lab ID: Received Date: 12/17/2022 10:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed Batch
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	12/23/2022 10:25:55 AM 72293
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	12/22/2022 3:24:35 AM 72228
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	12/22/2022 3:24:35 AM 72228
Surr: DNOP	109	21-129	%Rec	1	12/22/2022 3:24:35 AM 72228
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	12/21/2022 3:25:00 PM 72191
Surr: BFB	99.1	37.7-212	%Rec	1	12/21/2022 3:25:00 PM 72191
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	12/21/2022 3:25:00 PM 72191
Toluene	ND	0.049	mg/Kg	1	12/21/2022 3:25:00 PM 72191
Ethylbenzene	ND	0.049	mg/Kg	1	12/21/2022 3:25:00 PM 72191
Xylenes, Total	ND	0.097	mg/Kg	1	12/21/2022 3:25:00 PM 72191
Surr: 4-Bromofluorobenzene	107	70-130	%Rec	1	12/21/2022 3:25:00 PM 72191

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- Reporting Limit

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Analytical Report

Lab Order **2212A84**Date Reported: **12/29/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: CSW-7

Project: Antelope Sink 001 **Collection Date:** 12/15/2022

Lab ID: 2212A84-022 **Matrix:** SOIL **Received Date:** 12/17/2022 10:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed Batch
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	12/23/2022 11:03:09 AM 72293
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	13	mg/Kg	1	12/22/2022 3:35:04 AM 72228
Motor Oil Range Organics (MRO)	ND	44	mg/Kg	1	12/22/2022 3:35:04 AM 72228
Surr: DNOP	121	21-129	%Rec	1	12/22/2022 3:35:04 AM 72228
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	12/21/2022 3:45:00 PM 72191
Surr: BFB	102	37.7-212	%Rec	1	12/21/2022 3:45:00 PM 72191
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.025	mg/Kg	1	12/21/2022 3:45:00 PM 72191
Toluene	ND	0.049	mg/Kg	1	12/21/2022 3:45:00 PM 72191
Ethylbenzene	ND	0.049	mg/Kg	1	12/21/2022 3:45:00 PM 72191
Xylenes, Total	ND	0.099	mg/Kg	1	12/21/2022 3:45:00 PM 72191
Surr: 4-Bromofluorobenzene	113	70-130	%Rec	1	12/21/2022 3:45:00 PM 72191

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 12/29/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates **Client Sample ID: CSW-8 Project:** Antelope Sink 001 **Collection Date:** 12/15/2022

2212A84-023 Matrix: SOIL Lab ID: Received Date: 12/17/2022 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed Batch
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	ND	59		mg/Kg	20	12/23/2022 11:15:34 AM 72293
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS					Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	12/22/2022 10:42:03 PM 72256
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/22/2022 10:42:03 PM 72256
Surr: DNOP	129	21-129	S	%Rec	1	12/22/2022 10:42:03 PM 72256
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/21/2022 4:05:00 PM 72191
Surr: BFB	99.4	37.7-212		%Rec	1	12/21/2022 4:05:00 PM 72191
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	12/21/2022 4:05:00 PM 72191
Toluene	ND	0.049		mg/Kg	1	12/21/2022 4:05:00 PM 72191
Ethylbenzene	ND	0.049		mg/Kg	1	12/21/2022 4:05:00 PM 72191
Xylenes, Total	ND	0.097		mg/Kg	1	12/21/2022 4:05:00 PM 72191
Surr: 4-Bromofluorobenzene	110	70-130		%Rec	1	12/21/2022 4:05:00 PM 72191

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- Reporting Limit

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Date Reported: 12/29/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: CSW-9

Project: Antelope Sink 001

Collection Date: 12/15/2022

Lab ID: 2212A84-024 **Matrix:** SOIL **Received Date:** 12/17/2022 10:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed Batch
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	61	mg/Kg	20	12/23/2022 11:27:59 AM 72293
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	12/22/2022 10:52:39 PM 72256
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	12/22/2022 10:52:39 PM 72256
Surr: DNOP	118	21-129	%Rec	1	12/22/2022 10:52:39 PM 72256
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	12/21/2022 4:24:00 PM 72191
Surr: BFB	103	37.7-212	%Rec	1	12/21/2022 4:24:00 PM 72191
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.025	mg/Kg	1	12/21/2022 4:24:00 PM 72191
Toluene	ND	0.049	mg/Kg	1	12/21/2022 4:24:00 PM 72191
Ethylbenzene	ND	0.049	mg/Kg	1	12/21/2022 4:24:00 PM 72191
Xylenes, Total	ND	0.098	mg/Kg	1	12/21/2022 4:24:00 PM 72191
Surr: 4-Bromofluorobenzene	113	70-130	%Rec	1	12/21/2022 4:24:00 PM 72191

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 12/29/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: CSW-10 **Project:** Antelope Sink 001 **Collection Date:** 12/15/2022

2212A84-025 Matrix: SOIL Lab ID: Received Date: 12/17/2022 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed Batch
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	ND	60		mg/Kg	20	12/23/2022 11:40:24 AM 72293
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS					Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	12/22/2022 11:06:00 PM 72256
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/22/2022 11:06:00 PM 72256
Surr: DNOP	135	21-129	S	%Rec	1	12/22/2022 11:06:00 PM 72256
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/21/2022 5:04:00 PM 72191
Surr: BFB	99.3	37.7-212		%Rec	1	12/21/2022 5:04:00 PM 72191
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	12/21/2022 5:04:00 PM 72191
Toluene	ND	0.049		mg/Kg	1	12/21/2022 5:04:00 PM 72191
Ethylbenzene	ND	0.049		mg/Kg	1	12/21/2022 5:04:00 PM 72191
Xylenes, Total	ND	0.098		mg/Kg	1	12/21/2022 5:04:00 PM 72191
Surr: 4-Bromofluorobenzene	109	70-130		%Rec	1	12/21/2022 5:04:00 PM 72191

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- Reporting Limit

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Date Reported: 12/29/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: CSW-11 **Project:** Antelope Sink 001 **Collection Date:** 12/15/2022

2212A84-026 Lab ID: Matrix: SOIL Received Date: 12/17/2022 10:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed Batch
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	12/23/2022 11:52:48 AM 72293
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	12/22/2022 11:16:55 PM 72256
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	12/22/2022 11:16:55 PM 72256
Surr: DNOP	112	21-129	%Rec	1	12/22/2022 11:16:55 PM 72256
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	12/21/2022 5:23:00 PM 72191
Surr: BFB	96.5	37.7-212	%Rec	1	12/21/2022 5:23:00 PM 72191
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	12/21/2022 5:23:00 PM 72191
Toluene	ND	0.048	mg/Kg	1	12/21/2022 5:23:00 PM 72191
Ethylbenzene	ND	0.048	mg/Kg	1	12/21/2022 5:23:00 PM 72191
Xylenes, Total	ND	0.096	mg/Kg	1	12/21/2022 5:23:00 PM 72191
Surr: 4-Bromofluorobenzene	110	70-130	%Rec	1	12/21/2022 5:23:00 PM 72191

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- Reporting Limit

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Date Reported: 12/29/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: CSW-12 **Project:** Antelope Sink 001 **Collection Date:** 12/15/2022

2212A84-027 Matrix: SOIL Lab ID: Received Date: 12/17/2022 10:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed Batch
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	12/23/2022 12:05:13 PM 72293
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	12/22/2022 11:27:41 PM 72256
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	12/22/2022 11:27:41 PM 72256
Surr: DNOP	109	21-129	%Rec	1	12/22/2022 11:27:41 PM 72256
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	12/21/2022 5:43:00 PM 72191
Surr: BFB	99.7	37.7-212	%Rec	1	12/21/2022 5:43:00 PM 72191
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	12/21/2022 5:43:00 PM 72191
Toluene	ND	0.049	mg/Kg	1	12/21/2022 5:43:00 PM 72191
Ethylbenzene	ND	0.049	mg/Kg	1	12/21/2022 5:43:00 PM 72191
Xylenes, Total	ND	0.097	mg/Kg	1	12/21/2022 5:43:00 PM 72191
Surr: 4-Bromofluorobenzene	111	70-130	%Rec	1	12/21/2022 5:43:00 PM 72191

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- Reporting Limit

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Date Reported: 12/29/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: CSW-13

Project: Antelope Sink 001

Collection Date: 12/15/2022

Lab ID: 2212A84-028 **Matrix:** SOIL **Received Date:** 12/17/2022 10:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed Batch
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	12/23/2022 12:17:37 PM 72293
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	12/22/2022 11:38:24 PM 72256
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	12/22/2022 11:38:24 PM 72256
Surr: DNOP	106	21-129	%Rec	1	12/22/2022 11:38:24 PM 72256
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	12/21/2022 6:03:00 PM 72191
Surr: BFB	96.8	37.7-212	%Rec	1	12/21/2022 6:03:00 PM 72191
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	12/21/2022 6:03:00 PM 72191
Toluene	ND	0.049	mg/Kg	1	12/21/2022 6:03:00 PM 72191
Ethylbenzene	ND	0.049	mg/Kg	1	12/21/2022 6:03:00 PM 72191
Xylenes, Total	ND	0.098	mg/Kg	1	12/21/2022 6:03:00 PM 72191
Surr: 4-Bromofluorobenzene	107	70-130	%Rec	1	12/21/2022 6:03:00 PM 72191

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 12/29/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: CSW-14

Project: Antelope Sink 001

Collection Date: 12/15/2022

Lab ID: 2212A84-029 **Matrix:** SOIL **Received Date:** 12/17/2022 10:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed Batch
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	12/23/2022 12:30:01 PM 72293
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	13	mg/Kg	1	12/22/2022 11:49:07 PM 72256
Motor Oil Range Organics (MRO)	ND	43	mg/Kg	1	12/22/2022 11:49:07 PM 72256
Surr: DNOP	109	21-129	%Rec	1	12/22/2022 11:49:07 PM 72256
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	12/21/2022 6:22:00 PM 72191
Surr: BFB	98.4	37.7-212	%Rec	1	12/21/2022 6:22:00 PM 72191
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	12/21/2022 6:22:00 PM 72191
Toluene	ND	0.048	mg/Kg	1	12/21/2022 6:22:00 PM 72191
Ethylbenzene	ND	0.048	mg/Kg	1	12/21/2022 6:22:00 PM 72191
Xylenes, Total	ND	0.096	mg/Kg	1	12/21/2022 6:22:00 PM 72191
Surr: 4-Bromofluorobenzene	108	70-130	%Rec	1	12/21/2022 6:22:00 PM 72191

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 12/29/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: CSW-15

Project: Antelope Sink 001

Collection Date: 12/15/2022

Lab ID: 2212A84-030 **Matrix:** SOIL **Received Date:** 12/17/2022 10:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed Batch
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	12/23/2022 12:42:26 PM 72293
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	13	mg/Kg	1	12/22/2022 11:59:49 PM 72256
Motor Oil Range Organics (MRO)	ND	44	mg/Kg	1	12/22/2022 11:59:49 PM 72256
Surr: DNOP	117	21-129	%Rec	1	12/22/2022 11:59:49 PM 72256
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	12/21/2022 6:42:00 PM 72191
Surr: BFB	103	37.7-212	%Rec	1	12/21/2022 6:42:00 PM 72191
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	12/21/2022 6:42:00 PM 72191
Toluene	ND	0.049	mg/Kg	1	12/21/2022 6:42:00 PM 72191
Ethylbenzene	ND	0.049	mg/Kg	1	12/21/2022 6:42:00 PM 72191
Xylenes, Total	ND	0.097	mg/Kg	1	12/21/2022 6:42:00 PM 72191
Surr: 4-Bromofluorobenzene	113	70-130	%Rec	1	12/21/2022 6:42:00 PM 72191

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 12/29/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: CSW-16 **Project:** Antelope Sink 001 **Collection Date:** 12/15/2022

2212A84-031 Matrix: SOIL Lab ID: Received Date: 12/17/2022 10:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed Batch
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	12/23/2022 12:54:51 PM 72293
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	12/23/2022 12:10:29 AM 72256
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	12/23/2022 12:10:29 AM 72256
Surr: DNOP	97.7	21-129	%Rec	1	12/23/2022 12:10:29 AM 72256
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	12/21/2022 7:02:00 PM 72191
Surr: BFB	103	37.7-212	%Rec	1	12/21/2022 7:02:00 PM 72191
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	12/21/2022 7:02:00 PM 72191
Toluene	ND	0.048	mg/Kg	1	12/21/2022 7:02:00 PM 72191
Ethylbenzene	ND	0.048	mg/Kg	1	12/21/2022 7:02:00 PM 72191
Xylenes, Total	ND	0.097	mg/Kg	1	12/21/2022 7:02:00 PM 72191
Surr: 4-Bromofluorobenzene	113	70-130	%Rec	1	12/21/2022 7:02:00 PM 72191

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- Reporting Limit

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OC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2212A84 29-Dec-22**

Client: Souder, Miller & Associates

Project: Antelope Sink 001

Sample ID: MB-72277 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 72277 RunNo: 93518

Prep Date: 12/22/2022 Analysis Date: 12/22/2022 SeqNo: 3373636 Units: mq/Kq

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

Chloride ND 1.5

Sample ID: LCS-72277 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 72277 RunNo: 93518

Prep Date: 12/22/2022 Analysis Date: 12/22/2022 SeqNo: 3373637 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 94.3 90 110

Sample ID: MB-72290 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 72290 RunNo: 93534

Prep Date: 12/22/2022 Analysis Date: 12/23/2022 SeqNo: 3374330 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-72290 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 72290 RunNo: 93534

Prep Date: 12/22/2022 Analysis Date: 12/23/2022 SeqNo: 3374331 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 95.6 90 110

Sample ID: MB-72293 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: **PBS** Batch ID: **72293** RunNo: **93543**

Prep Date: 12/22/2022 Analysis Date: 12/23/2022 SeqNo: 3374909 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-72293 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 72293 RunNo: 93543

Prep Date: 12/22/2022 Analysis Date: 12/23/2022 SeqNo: 3374910 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 92.5 90 110

Qualifiers:

Value exceeds Maximum Contaminant Level

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

B Analyte detected in the associated Method Blank

E Above Quantitation Range/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#: **2212A84**

29-Dec-22

Client: Souder, Miller & Associates

Project: Antelope Sink 001

Sample ID: LCS-72215	SampTy	ype: LC	s	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: LCSS	Batch	ID: 72	215	F	RunNo: 9 :	3461				
Prep Date: 12/20/2022	Analysis Da	ate: 12	2/21/2022	9	SeqNo: 3	370983	Units: mg/h	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	15	50.00	0	95.2	64.4	127			
Surr: DNOP	5.8		5.000		117	21	129			
Sample ID: MB-72215	SampTy	ype: ME	BLK	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: PBS	Batch	ID: 72	215	F						
Prep Date: 12/20/2022	Analysis Da	ate: 12	2/21/2022	\$	SeqNo: 3	370985	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	12		10.00		120	21	129			
Sample ID: 2212A84-015AMS	SampTy	уре: М\$	 S	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: CBS-15	Batch	ID: 72	228	F	RunNo: 9	3461				
Prep Date: 12/20/2022	Analysis Da	ate: 12	2/22/2022	S	SeqNo: 3	372809	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	15	48.88	0	97.0	36.1	154			
Surr: DNOP	5.4		4.888		111	21	129			

Sample ID: 2212A84-015AMS	D SampT	ype: MS	SD	Tes	TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: CBS-15	Batch	n ID: 72 :	228	F	RunNo: 9	3461					
Prep Date: 12/20/2022	Analysis D	ate: 12	2/22/2022	8	SeqNo: 3	372810	Units: mg/K	(g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	47	14	46.38	0	102	36.1	154	0.0628	33.9		
Surr: DNOP	5.3		4.638		114	21	129	0	0		

Sample ID: LCS-72228	SampT	ype: LC	S	Tes	tCode: El	PA Method	8015M/D: Di	esel Range	e Organics	
Client ID: LCSS	Batch	n ID: 72 :	228	F	RunNo: 9	3461				
Prep Date: 12/20/2022	Analysis D	ate: 12	2/22/2022	8	SeqNo: 3	372867	Units: mg/k	ζg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	15	50.00	0	92.5	64.4	127			
Surr: DNOP	6.2		5.000		125	21	129			

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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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OC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2212A84 29-Dec-22**

Client: Souder, Miller & Associates

Project: Antelope Sink 001

Sample ID: MB-72228 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: PBS Batch ID: 72228 RunNo: 93461 Prep Date: 12/20/2022 Analysis Date: 12/22/2022 SeqNo: 3372868 Units: mg/Kg SPK value SPK Ref Val %REC LowLimit %RPD **RPDLimit** Analyte Result PQL HighLimit Qual Diesel Range Organics (DRO) ND 15 Motor Oil Range Organics (MRO) ND 50 Surr: DNOP 11 10.00 110 21 129 Sample ID: MB-72256 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 72256 RunNo: 93500 Prep Date: 12/21/2022 Analysis Date: 12/22/2022 SeqNo: 3372932 Units: mg/Kg Analyte PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 15 ND Motor Oil Range Organics (MRO) ND 50 Surr: DNOP 12 10.00 118 21 129

Sample ID: LCS-72256 TestCode: EPA Method 8015M/D: Diesel Range Organics SampType: LCS Client ID: LCSS Batch ID: 72256 RunNo: 93500 Prep Date: 12/21/2022 Analysis Date: 12/22/2022 SeqNo: 3374250 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 50 15 50.00 0 99.6 64.4 127 Surr: DNOP 6.8 5.000 136 21 129 S

Sample ID: LCS-72271 TestCode: EPA Method 8015M/D: Diesel Range Organics SampType: LCS Client ID: LCSS Batch ID: 72271 RunNo: 93500 Prep Date: 12/22/2022 Analysis Date: 12/22/2022 SeqNo: 3374252 Units: %Rec Analyte Result PQL SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Qual LowLimit Surr: DNOP 5.000 5.9 117 21 129

SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Sample ID: MB-72271 Batch ID: 72271 RunNo: 93500 Client ID: PBS Prep Date: 12/22/2022 Analysis Date: 12/22/2022 SeqNo: 3374254 Units: %Rec Result PQL SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte LowLimit Qual Surr: DNOP 11 10.00 21 129

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 standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/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#: **2212A84 29-Dec-22**

Client: Souder, Miller & Associates

Project: Antelope Sink 001

Sample ID: mb-72183 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 72183 RunNo: 93433

Prep Date: 12/19/2022 Analysis Date: 12/20/2022 SeqNo: 3369855 Units: mq/Kq

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

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 880 1000 87.6 37.7 212

Sample ID: Ics-72183 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 72183 RunNo: 93433

Prep Date: 12/19/2022 Analysis Date: 12/20/2022 SeqNo: 3369856 Units: mg/Kg

HighLimit Analyte Result PQL SPK value SPK Ref Val %REC LowLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 5.0 25.00 O 89.8 72.3 137 Surr: BFB 1800 1000 178 37.7 212

Sample ID: LCS-72191 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 72191 RunNo: 93486

Prep Date: 12/19/2022 Analysis Date: 12/21/2022 SeqNo: 3371848 Units: mg/Kg

SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result POI LowLimit HighLimit Qual Gasoline Range Organics (GRO) 25 5.0 25.00 0 99.8 72.3 137 Surr: BFB 37.7 S 2200 1000 223 212

Sample ID: mb-72191 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 72191 RunNo: 93486

Prep Date: 12/19/2022 Analysis Date: 12/21/2022 SeqNo: 3371849 Units: mg/Kg

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

Gasoline Range Organics (GRO) ND 5.0

Gasoline Range Organics (GRO) ND 5.0
Surr: BFB 1000

Sample ID: 2212A84-015ams SampType: MS TestCode: EPA Method 8015D: Gasoline Range

1000

Client ID: CBS-15 Batch ID: 72191 RunNo: 93486

Prep Date: 12/19/2022 Analysis Date: 12/21/2022 SeqNo: 3371851 Units: mg/Kg

Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 25 5.0 0 70 24.93 98.9 130 Surr: BFB 2300 997.0 234 37.7 212 S

Sample ID: 2212A84-015amsd SampType: MSD TestCode: EPA Method 8015D: Gasoline Range

Client ID: CBS-15 Batch ID: 72191 RunNo: 93486

Prep Date: 12/19/2022 Analysis Date: 12/21/2022 SeqNo: 3371852 Units: mg/Kg

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

Qualifiers:

Value exceeds Maximum Contaminant Level

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

104

37.7

212

E Above Quantitation Range/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#: **2212A84**

29-Dec-22

Client: Souder, Miller & Associates

Project: Antelope Sink 001

Sample ID: 2212A84-015amsd SampType: MSD TestCode: EPA Method 8015D: Gasoline Range

Client ID: CBS-15 Batch ID: 72191 RunNo: 93486

Prep Date: 12/19/2022 Analysis Date: 12/21/2022 SeqNo: 3371852 Units: mg/Kg

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	24.93	0	105	70	130	5.93	20	
Surr: BFB	2300		997.0		235	37.7	212	0	0	S

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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OC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

2212A84

WO#:

29-Dec-22

Client: Souder, Miller & Associates

Project: Antelope Sink 001

Sample ID: mb-72183 SampType: MBLK TestCode: EPA Method 8021B: Volatiles Client ID: PBS Batch ID: 72183 RunNo: 93433 Prep Date: 12/19/2022 Analysis Date: 12/20/2022 SeqNo: 3369901 Units: mq/Kq SPK value SPK Ref Val %RPD **RPDLimit** Analyte Result PQL %REC LowLimit HighLimit Qual Benzene ND 0.025 Toluene ND 0.050

0.050 Ethylbenzene ND Xylenes, Total ND 0.10

Surr: 4-Bromofluorobenzene 0.89 1.000 89.4 70 130

Sample ID: LCS-72183 SampType: LCS TestCode: EPA Method 8021B: Volatiles Batch ID: 72183 Client ID: LCSS RunNo: 93433 Analysis Date: 12/20/2022 SeqNo: 3369902 Prep Date: 12/19/2022 Units: mg/Kg PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 1.000 91.6 0.92 0.025 n 80 120 Benzene Toluene 0.93 0.050 1.000 0 92.6 80 120 0 91.8 80 0.92 0.050 1.000 120 Ethylbenzene 0 92.1 Xylenes, Total 2.8 0.10 3.000 80 120 Surr: 4-Bromofluorobenzene 0.91 1.000 90.9 70 130

Sample ID: LCS-72191 SampType: LCS TestCode: EPA Method 8021B: Volatiles Client ID: LCSS Batch ID: 72191 RunNo: 93486 Prep Date: 12/19/2022 Analysis Date: 12/21/2022 SeqNo: 3371928 Units: mg/Kg Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Analyte 0.025 109 80 1.000 120 Benzene 1.1 O Toluene 0.050 1.000 0 110 80 120 1.1 0.050 0 109 80 120 Ethylbenzene 1.1 1.000 Xylenes, Total 3.3 0.10 3.000 0 110 80 120 Surr: 4-Bromofluorobenzene 70

1.000

1.000

TestCode: EPA Method 8021B: Volatiles Sample ID: mb-72191 SampType: MBLK Client ID: PBS Batch ID: 72191 RunNo: 93486 Prep Date: 12/19/2022 Analysis Date: 12/21/2022 SeqNo: 3371929 Units: mg/Kg SPK value SPK Ref Val %REC LowLimit **RPDLimit** Analyte Result PQL HighLimit %RPD Qual ND 0.025 Benzene Toluene ND 0.050 Ethylbenzene NΠ 0.050 Xylenes, Total ND 0.10

Qualifiers:

Value exceeds Maximum Contaminant Level

D Sample Diluted Due to Matrix

Surr: 4-Bromofluorobenzene

Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of standard limits. If undiluted results may be estimated.

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Analyte detected in the associated Method Blank

113

70

114

130

130

Е Above Quantitation Range/Estimated Value

Analyte detected below quantitation limits

Sample pH Not In Range

RL Reporting Limit Page 37 of 38

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

1.1

WO#: **2212A84**

29-Dec-22

Client: Souder, Miller & Associates

Project: Antelope Sink 001

Surr: 4-Bromofluorobenzene

Sample ID: 2212A84-016ams SampType: MS TestCode: EPA Method 8021B: Volatiles Client ID: CSW-1 RunNo: 93486 Batch ID: 72191 Prep Date: 12/19/2022 Analysis Date: 12/21/2022 SeqNo: 3371932 Units: mg/Kg PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Analyte Result Benzene 0.99 0.024 0.9625 0 103 68.8 120 Toluene 1.0 0.048 0.9625 0 104 73.6 124 0.048 0 105 72.7 Ethylbenzene 1.0 0.9625 129 0 Xylenes, Total 3.0 0.096 2.887 105 75.7 126

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Sample ID: 2212A84-016ams	sd SampT	ype: MS	SD .	Tes						
Client ID: CSW-1	Batch	n ID: 72 ′	191	F	RunNo: 9					
Prep Date: 12/19/2022	Analysis D	ate: 12	2/21/2022	9	SeqNo: 3	371933	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.024	0.9606	0	106	68.8	120	3.12	20	
Toluene	1.0	0.048	0.9606	0	108	73.6	124	3.12	20	
Ethylbenzene	1.0	0.048	0.9606	0	109	72.7	129	3.61	20	
Xylenes, Total	3.1	0.096	2.882	0	109	75.7	126	3.75	20	
Surr: 4-Bromofluorobenzene	1.1		0.9606		113	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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 38 of 38



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

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Completed By:	Sean Livingston	12/19/2022 8:16:	38 AM	Suli	20/-	
Reviewed By:	Jn 12/10/22				0-	
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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	oles 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 sam	ple volume for indicated tes	t(s)?	Yes 🗹	No 🗌		
7. Are samples (e	except VOA and ONG) prop	erly preserved?	Yes 🗹	No 🗌		
8. Was preservat	tive added to bottles?		Yes 🗌	No 🗹	NA 🗆	
9. Received at lea	ast 1 vial with headspace <1	I/4" for AQ VOA?	Yes 🗌	No 🗌	NA 🗹	
10. Were any sam	nple containers received bro	ken?	Yes	No 🗹		
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15. Was client not	tified of all discrepancies wil	th this order?	Yes 🗌	No 🗌	NA 🗹	
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January 12, 2023

#5E31369-BG01

NMOCD District 2 506 W. Texas Artesia, New Mexico 88210

SUBJECT: Closure Report for the Antelope Sink #001 Release (nAPP2205926232), Eddy County, New Mexico

To Whom It May Concern:

On behalf of FE-NM, LLC, Souder, Miller & Associates (SMA) has prepared this Closure Report that describes the remediation of 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 a United States Geological Service (USGS) 7.5-minute quadrangle map.

Table 1 summarizes information regarding the release.

	Table 1: Release Information	on and Closure	Criteria
Site Name	Antelope Sink Unit #001	Operator	FE-NM, LLC
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; May 20, 2022; and	December 15,	2022

Antelope Sink Well #001 Remediation Closure Report January 12, 2023

Page 2 of 5

1.0 Background

On February 17, 2022, a release was discovered at the Antelope Sink Unit #001 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 3,823 feet above mean sea level (amsl).

Depth to Groundwater

A search of the New Mexico Office of the State Engineer (NMOSE) New Mexico Water Rights Reporting System and the USGS National Water Information System did not report any wells within ½-mile of the site. Based on records of wells within the larger vicinity, depth to groundwater in the area is estimated to be an average of 382 feet below grade surface (bgs). The minimum reported depth is 285 feet bgs and the maximum is 480 bgs. Water well documentation is included in Appendix B and registered wells in the vicinity are illustrated on Figure 1.

Wellhead Protection Area

There are no known water sources within ½-mile of the location, according to the 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 to the northwest.

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 New Mexico Oil Conservation Division (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 Remediation Activities

Site characterization including delineation is detailed in the SMA's Remediation Plan dated June 6, 2022. Per the approved plan, SMA returned to the site to guide/oversee the excavation of contaminated soil beginning on December 05, 2022. SMA guided the excavation activities by collecting soil samples for field screening. Samples were screened for chloride using an electrical conductivity (EC) meter. The walls and base were excavated until field screening results indicated that the NMOCD Closure Criteria would be met. NMOCD was notified on December 13, 2022, that closure samples were expected to be collected in two (2) business days. A copy of this notification is included in Appendix C.

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Antelope Sink Well #001 Remediation Closure Report January 12, 2023

Page 3 of 5

On December 15, 2022, SMA conducted confirmation sampling activities at the site. Confirmation samples were comprised of five-point composites collected from the base (CBS1 – CBS15) and walls (CSW1 – CSW16) of the excavation. A photolog is included in Appendix D.

A total of 31 samples were collected for laboratory analysis for total chloride using Environmental Protection Agency (EPA) Method 300.0; benzene, toluene, ethylbenzene and total xylenes (BTEX) using EPA Method 8021B; and motor, diesel and gasoline range organics (MRO, DRO, and GRO) by EPA Method 8015D. Laboratory samples were collected in accordance with the sampling protocol included in Appendix E. Samples were placed into laboratory supplied glassware, labeled, and maintained on ice until delivery to Hall Environmental Analysis Laboratory in Albuquerque, New Mexico .

Figure 3 shows the extent of the final excavation and closure sample locations. Laboratory results are summarized in Table 3. The laboratory report is included in Appendix F.

4.0 Site Recommendations

As demonstrated in Table 3, all closure samples meet the Closure Criteria. The site has been remediated to meet the standards of Table I of 19.15.29.12 NMAC.

Contaminated soils were removed and replaced with clean backfill material to return the surface to previous contours. The contaminated soil was transported and disposed of at R360 Environmental Solutions midway between Carlsbad and Hobbs, New Mexico, an NMOCD-permitted disposal facility.

SMA recommends no further action and requests closure of Incident Number nAPP2205926232.

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5.0 Scope and Limitations

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

If there are any questions regarding this report, please contact either Lynn Acosta at 505-516-7469 or Heather Woods at 505-716-2787.

Submitted by:

SOUDER, MILLER & ASSOCIATES

Reviewed by:

Lynn A. Acosta

Lynn A. Acosta

Heather M. Woods, P.G. Project Geoscientist

Heather M. Woods

REFERENCES:

Staff Scientist

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

ATTACHMENTS:

Figures:

Figure 1: Vicinity and Well Head Protection Map

Figure 2: Surface Water Radius Map

Figure 3: Confirmation Sample Location Map

Tables:

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

Appendices:

Appendix A: Form C141

Appendix B: NMOSE Wells Report

Appendix C: Correspondence

Appendix D: Photolog

Appendix E: Sampling Protocol

Appendix F: Laboratory Analytical Report

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**

CONDITIONS

Action 178749

CONDITIONS

Operator:	OGRID:
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1001 E SE Loop 323, STE. 160	Action Number:
Tyler, TX 75711	178749
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created E	By Condition	Condition Date
rhamle	We have received your closure report and final C-141 for Incident #NKMW1035542428 ANTELOPE SINK UNIT #001, thank you. This closure is approved.	5/22/2023