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	NTO1501548835
District RP	
Facility ID	
Application ID	_

# **Release Notification**

# **Responsible Party**

Responsible Party: Cimarex Energy Co. of Colorado			OGRID: 162683				
Contact Name: Laci Luig			Contact Telephone: (432) 571-7800				
Contact email: laci.luig@coterra.com			Incident # (assigned by OCD) nTO150154883 (formerly RP-3506)				
Contact mail Midland, TX		: 600 N Marienfel	d Street, Ste. 600	0	1		
			Locatio	n of R	Release S	Source	
Latitude 32.0	961418		(NAD 83 in	decimal de	Longitude	-103.5835724_ imal places)	
Site Name: R	ed Hills SW	D 001			Site Type	: Battery	
Date Release	Discovered	: 1/8/2015			API# (if ap	pplicable) 30-025-3	5598
Unit Letter	Section	Township	Range		Cou	nty	 ]
M	28	25S	33E	Lea			
						c justification for th	ne volumes provided below)
Crude Oi	1	Volume Releas	ed (bbls) 140			Volume Rec	overed (bbls) 120
Produced	Water	Volume Releas	ed (bbls) 330			Volume Recovered (bbls) 270	
			ation of dissolved >10,000 mg/l?	d chlorid	e in the	Yes No	
Condensa	nte	Volume Releas				Volume Recovered (bbls)	
Natural C	ias	Volume Releas	ed (Mcf)			Volume Recovered (Mcf)	
Other (describe) Volume/Weight Released (provide units			s) Volume/Weight Recovered (provide units)				
	led on the di			All flui	ds were con	tained in an unl	ined earthen berm. Approximately 140

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	0-	_		_ ~	

Incident ID	NTO1501548835
District RP	
Facility ID	
Application ID	

Was this a major release as defined by	If YES, for what reason(s) does the re release?	sponsible party consider this a major
19.15.29.7(A) NMAC?	Total amount of release greater than 2	5 barrels
⊠ Yes □ No		
If VES, was immediate as	otice given to the OCD? By whom? To	whom? When and by what means (phone, email, etc)?
By: Christine Alderman To: NMOCD By: Email	since given to the OCD. By whom: Te	whom: when and by what means (phone, eman, etc):
	Initial	Response
The responsible p	party must undertake the following actions immed	liately unless they could create a safety hazard that would result in injury
The source of the rele	ease has been stopped.	
The impacted area ha	s been secured to protect human health	and the environment.
		or dikes, absorbent pads, or other containment devices.
	ecoverable materials have been removed	
If all the actions described	d above have <u>not</u> been undertaken, expl	ain why:
has begun, please attach a	a narrative of actions to date. If remed	ce remediation immediately after discovery of a release. If remediation lial efforts have been successfully completed or if the release occurred C), please 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 ment. The acceptance of a C-141 report by t ate and remediate contamination that pose a	the best of my knowledge and understand that pursuant to OCD rules and notifications and perform corrective actions for releases which may endanger he OCD does not relieve the operator of liability should their operations have threat to groundwater, surface water, human health or the environment. In r of responsibility for compliance with any other federal, state, or local laws
Printed Name: Christine A	Alderman	Title: ESH Supervisor
Signature:		_ Date: 1/14/2015
email: calderman@cimare	ex.com	Telephone: (432) 853-7059
OCD Only		
Received by:		Date:

	Page 3 of 67
Incident ID	NTO1501548835
District RP	
Facility ID	
Application ID	

# **Site Assessment/Characterization**

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

What is the shallowest depth to groundwater beneath the area affected by the release?	(ft bgs)			
Did this release impact groundwater or surface water?				
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ⊠ No			
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ⊠ No			
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ⊠ No			
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ⊠ 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 ⊠ 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?				
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 <b>not</b> 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.				
Characterization Report Checklist: Each of the following items must be included in the report.				
<ul> <li>         \infty Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring well included in the point of t</li></ul>	ls.			
Data table of soil contaminant concentration data				
Depth to water determination				
Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release  Boring or excavation logs				
Photographs including date and GIS information				
☐ Topographic/Aerial maps				
☐ Laboratory data including chain of custody				

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

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	Page 4 of 6	57
Incident ID	NTO1501548835	
District RP		
Facility ID		
Application ID		

	otifications and perform corrective actions for releases which may endanger oCD does not relieve the operator of liability should their operations have areat to groundwater, surface water, human health or the environment. In
Printed Name: Laci Luig	Title: ESH Specialist
Signature:	Date: 3/16/2022
email: laci.luig@coterra.com	Telephone: (432) 208-3035
OCD Only	
Received by:	Date:

Received by OCD: 3/16/2022 12:57:53 PM Form C-141 State of New Mexico Page 5 Oil Conservation Division

	Page 5 of	<b>67</b>
Incident ID		
District RP		
Facility ID		
Application ID		

# **Remediation Plan**

Remediation Plan Checklist: Each of the following items must b	e included in the plan.			
<ul> <li>Detailed description of proposed remediation technique</li> <li>Scaled sitemap with GPS coordinates showing delineation points</li> <li>Estimated volume of material to be remediated</li> <li>Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC</li> <li>Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)</li> </ul>				
Deferral Requests Only: Each of the following items must be con-	ofirmed as part of any request for deferral of remediation			
Contamination must be in areas immediately under or around p deconstruction.	roduction equipment where remediation could cause a major facility			
Extents of contamination must be fully delineated.				
Contamination does not cause an imminent risk to human healt	n, the environment, or groundwater.			
	e and remediate contamination that pose a threat to groundwater, acceptance of a C-141 report does not relieve the operator of			
Printed Name: Laci Luig	Title: ESH Specialist			
Signature: QQC'	Date: 3/16/2022			
email: laci.luig@coterra.com	Telephone: (432) 208-3035			
OCD Only				
Received by:	Date:			
☐ Approved	Approval Denied Deferral Approved			
Signature: Jennifer Nobili	Date: 05/09/2022			



#### **General Information**

NMOCD District:	District 1	Incident ID:	NTO150154883, NJXK1624425919
Landowner:	Federal	RP Reference:	1RP-3506, 1RP-4423
Client:	Cimarex Energy Company	Site Location:	Red Hills 28 SWD
Date:	February 22, 2022	Project #:	21E-02797-002-03
Client Contact:	Laci Luig	Phone #:	(432) 208-3035
Vertex PM:	Michael Moffitt	Phone #:	(575) 988-2681

## **Objective**

The objective of the environmental remediation work plan is to identify exceedances found during the site assessment/characterization activity and propose an appropriate remediation technique to address these areas. Areas of environmental concern identified and delineated include: Secondary Containment where the tank battery was located, pasture land east of where the containment was located, area near where the injection line was located, and a historical drilling pit area west of the injection line. Closure criteria has been selected as per New Mexico Administrative Code (NMAC) 19.15.29. All applicable research as it pertains to closure criteria selection is presented in Attachment 1. The closure criteria for the site is presented below.

Table 1. Closure Criteria for Soils Impacted	Table 1. Closure Criteria for Soils Impacted by a Release											
Minimum depth below any point within the horizontal boundary of the release to groundwater												
less than 10,000 mg/l TDS	Constituent	Limit										
	Chloride	10,000 mg/kg										
	TPH (GRO+DRO+MRO)	2,500 mg/kg										
51 feet - 100 feet	GRO+DRO	1,000 mg/kg										
	BTEX	50 mg/kg										
	Benzene	10 mg/kg										

#### **Site Assessment/Characterization**

Site characterization for the containment area was completed on December 22, 2021. A total of 17 sample points were established and samples collected for field screening where the containment had previously been located. Samples at the deepest vertical distance below closure criteria were submitted to the laboratory for analysis. In total, 12 samples were submitted to Hall Environmental Analysis Laboratory, Albuquerque, New Mexico for analysis. The sample locations are presented in Figure 1, Attachment 2. Laboratory analysis results have been compared to the above noted closure criteria and the results from the characterization activity are presented in Attachment 3. Exceedances are identified in the table as bold with a grey background.

Cimarex retained Vertex to collect lithological data for a test soil borehole for depth to groundwater determination with Scarborough Drilling, Inc. where a borehole was drilled on a neighboring Cimarex location to a depth of 55 feet. Documentation pertaining to site characterization and depth to groundwater determination is included in Attachment 1. The borehole was left open for over 72 hours to allow for potential slow infill of groundwater. After the 72-hour waiting period without observing ground water, it was confirmed that groundwater beneath the site is greater than 55 feet. The borehole was properly abandoned with drill cuttings and bentonite chips. The daily field report is included in Attachment 4.

## **Remedial Activities**

VERSATILITY. EXPERTISE.

#### **Environmental Site Remediation Work Plan**



Areas identified with contaminant concentrations above closure criteria will be remediated through excavation. Laboratory results from the site assessment/characterization have been referenced to estimate both the vertical and horizontal limits of the impacts and the volume of soil to be removed. Excavation will be completed down to four feet bgs to meet reclamation standards and any additional soil will be excavated to the extents of the known contamination or in one feet increments, whichever is the lessor. Field screening will be utilized to confirm removal of contaminanted soil below the applicable closure criteria. Contaminated soils will be stored on a 30mil liner prior to disposal at an approved facility. Once excavation is complete, confirmatory samples will be collected and laboratory analysis completed to confirm closure criteria guidelines are met. Excavations will be backfilled with clean soil sourced locally.

### 1RP-4423/1RP-3506

The above listed NMOCD tracking numbers will all be remediated simultaneously. Areas without known vertical delineation will be assessed at the time of excavation. In accordance with NMAC 19.15.29.13 Paragraph (1) of Subparagraph D, the top four feet of the contaminated area will be remediated with non-waste containing, uncontaminated, earthen material. Confirmatory samples will validate that excavation wall areas are below Table 1 closure criteria. A hydro vac truck will be utilized to remove contaminated soil in close proximity of the flowlines. Heavy equipment will be used to complete excavation. Field screening will be utilized to find the horizontal and vertical extents of the spill areas. Confirmatory samples will be collected as per NMOCD guidance and submitted for laboratory analysis of all applicable parameters. The estimated volume to be excavated is **5,470 cubic yards**.

Should you have any questions or concerns, please do not hesitate to contact the undersigned at 575.361.9880 or mpeppin@vertex.ca.

February 28, 2022

	February 28, 2022	
Monica Peppin	Date	
SR. ENVIRONMENTAL TECHNICIAN, REPORTING		
Hund /Mills.		

Date

### **Attachments**

Attachment 1: Closure Criteria Research Attachment 2: Sample Locations – Figure 1

Dhugal Hanton B.Sc., P.Ag., SR/WA, P.Biol.

VICE PRESIDENT, REPORT REVIEW

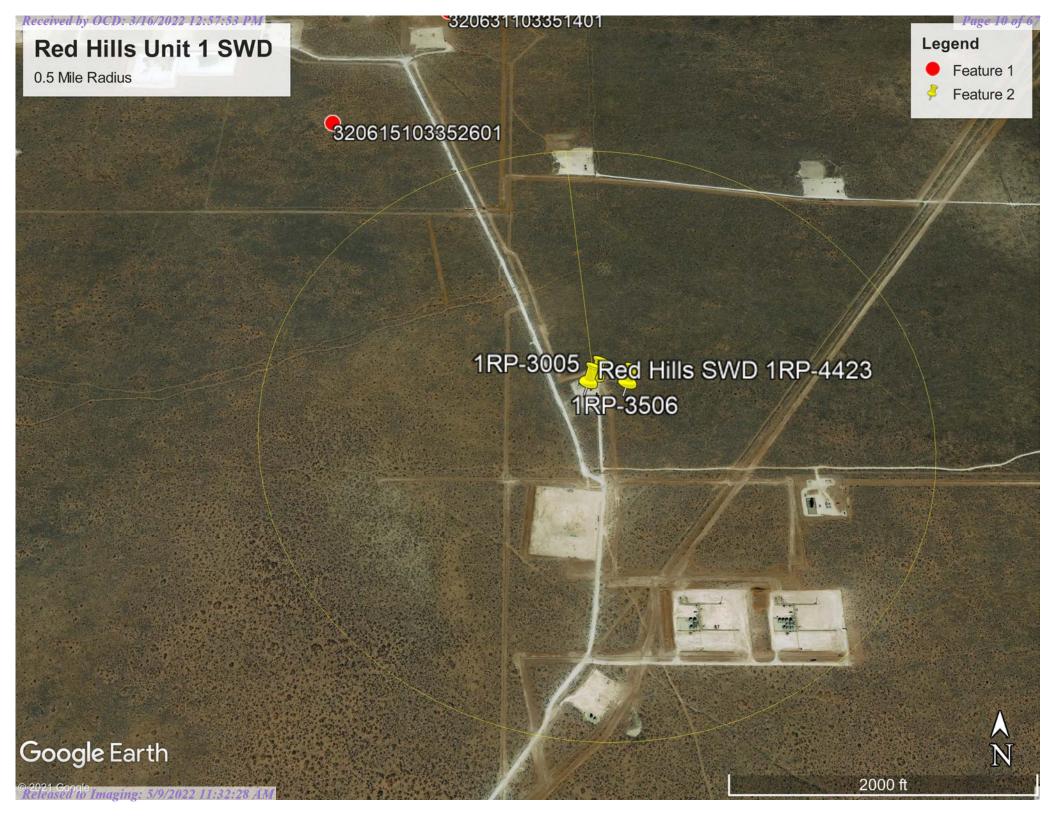
Attachment 3: Laboratory Results Table and Laboratory Analysis

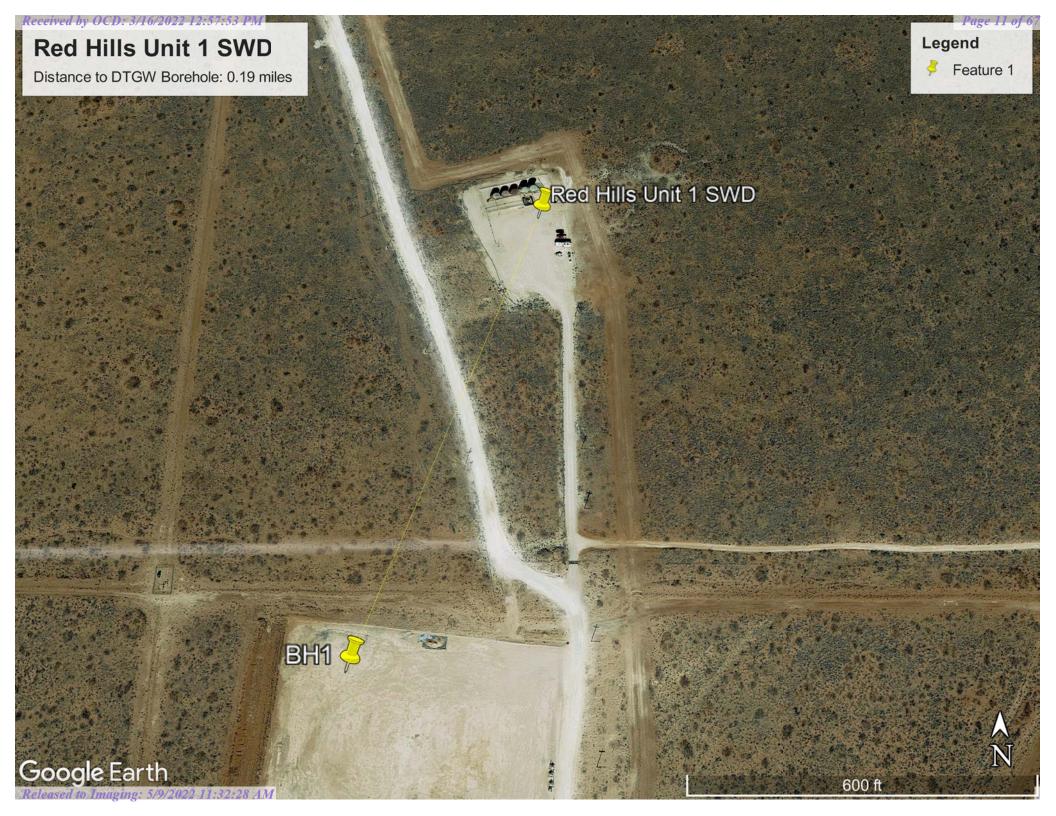
Attachment 4: Daily Field Reports

VERSATILITY. EXPERTISE.

# **ATTACHMENT 1**

Closure (	Criteria Worksheet		
	e: Red Hills Unit 1 SWD	ly 22 2254	V 400 50057
	rdinates:	X: 32.09614	Y: -103.58357
	ific Conditions	Value	Unit
1	Depth to Groundwater	55	feet
2	Within 300 feet of any continuously flowing watercourse or any other significant watercourse	130,336	feet
3	Within 200 feet of any lakebed, sinkhole or playa lake (measured from the ordinary high-water mark)	136,449	feet
4	Within 300 feet from an occupied residence, school, hospital, institution or church	45,681	feet
5	i) Within 500 feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, <b>or</b>	45,681	feet
	ii) Within 1000 feet of any fresh water well or spring	45,681	feet
6	Within incorporated municipal boundaries or within a defined municipal fresh water field covered under a municipal ordinance adopted pursuant to Section 3-27-3 NMSA 1978 as amended, unless the municipality specifically approves	No	(Y/N)
7	Within 300 feet of a wetland	6,340	feet
8	Within the area overlying a subsurface mine	No	(Y/N)
9	Within an unstable area (Karst Map)	Low	Critical High Medium Low
10	Within a 100-year Floodplain	>100	year
11	Soil Type	Pyote loa	amy fine sand
12	Ecological Classification	Loa	my sand
13	Geology	Qep	
	NMAC 19.15.29.12 E (Table 1) Closure Criteria	51-100'	<50' 51-100' >100'







VER	TEX														T		
Client Name C	imarex Energy						Borehole	Location: 32.0937	751, -103.58	34471		Start Date: Febru	ary 1, 2022		Logged by: Michael Moffitt	Northing	
Project Numbe	er: 21E-02797-0	02					Borehole	No. 1				End Date: Februa	ary 1, 2022		Checked by: Michael Moffitt	Easting	
Project Name:	Red Hills Unit	1 SWD					Borehole	Diameter (in): 2 i	nches			Drilling Company	: Scarborough Dri	lling, Inc.	Top of Well Elevation (m or ft): 3384 foot	UTM Zone	
Project Location	n: Lea County						Total Dep	oth (m or ft): 55 Fc	oot			Drilling Method:	Air Rotary		Depth to Water (m or ft): N/A	Page	of
Тор	Bottom	% Major	r (>50%)		/linor -40%)	% Trace	e (<10%)	Gradation	Grain	Size	84-1-1	Diaminia	Color		Nicker		
(m or ft)	(m or ft)	Fine	Coarse	Fine	Coarse	Fine	Coarse	(Major and Coarse only)	Major	Minor	Moisture	Plasticity	Color		Notes		
		61.		<b>a</b> l.		al.	61	D I. C I. I	Fine	Fine	Dry	Non Plastic					
		Clay	Sand	Clay	Sand	Clay	Sand	Poorly Graded			Damp	Slightly Plastic					
2	2								Medium	Medium	Moist	Plastic	Dark Red/Brown				
		Silt	Gravel	Silt	Gravel	Silt	Gravel	Well Graded			Wet	Very Plastic					
									Coarse	Coarse	Saturated						
Тор	Bottom	Class	Cand	Class	Cand	Clay	Cond	Doorly Graded	Fine	Fine	Dry	Non Plastic					
		Clay	Sand	Clay	Sand	Clay	Sand	Poorly Graded			Damp	Slightly Plastic					
4	4								Medium	Medium	Moist	Plastic	Light Red/Brown				
	•	Silt	Gravel	Silt	Gravel	Silt	Gravel	Well Graded			Wet	Very Plastic					
									Coarse	Coarse	Saturated						
Тор	Bottom	<b>6</b> 1.				CI.		D I. C I. I	Fine	Fine	Dry	Non Plastic					
		Clay	Sand	Clay	Sand	Clay	Sand	Poorly Graded			Damp	Slightly Plastic					
									Medium	Medium	Moist	Plastic	Light Red/Brown				
6	6	Silt	Gravel	Silt	Gravel	Silt	Gravel	Well Graded			Wet	Very Plastic	incu, brown				
									Coarse	Coarse	Saturated						
Тор	Bottom								Fine	Fine	Dry	Non Plastic					
		Clay	Sand	Clay	Sand	Clay	Sand	Poorly Graded			Damp	Slightly Plastic					
									Medium	Medium	Moist	Plastic	Light Red/Brown				
8	8	Silt	Gravel	Silt	Gravel	Silt	Gravel	Well Graded			Wet	Very Plastic	Reu/ Brown				
									Coarse	Coarse	Saturated						
Тор	Bottom								Fine	Fine	Dry	Non Plastic					
		Clay	Sand	Clay	Sand	Clay	Sand	Poorly Graded			Damp	Slightly Plastic					
									Medium	Medium	Moist	Plastic	Light				
10	10	Silt	Gravel	Silt	Gravel	Silt	Gravel	Well Graded			Wet	Very Plastic	Red/Brown				
									Coarse	Coarse	Saturated						
Тор	Bottom								Fine	Fine	Dry	Non Plastic					
		Clay	Sand	Clay	Sand	Clay	Sand	Poorly Graded			Damp	Slightly Plastic					
									Medium	Medium	Moist	Plastic	Light Red/Brown				
15	15	Silt	Gravel	Silt	Gravel	Silt	Gravel	Well Graded			Wet	Very Plastic	neu/ Blowii				
									Coarse	Coarse	Saturated						
Тор	Bottom	61		al.		CI.			Fine	Fine	Dry	Non Plastic					
		Clay	Sand	Clay	Sand	Clay	Sand	Poorly Graded			Damp	Slightly Plastic					
20	20								Medium	Medium	Moist	Plastic	Light Red/Brown				
20	20	Silt	Gravel	Silt	Gravel	Silt	Gravel	Well Graded			Wet	Very Plastic	, 5.0				
									Coarse	Coarse	Saturated						
Тор	Bottom	Clay	Sand	Clay	Sand	Clay	Sand	Poorly Graded	Fine	Fine	Dry	Non Plastic				<u></u>	
		Clay	Janu	Clay	Sanu	Clay	Janu	Foorly Graded			Damp	Slightly Plastic					
25	25								Medium	Medium	Moist	Plastic					
~		Silt	Gravel	Silt	Gravel	Silt	Gravel	Well Graded			Wet	Very Plastic					
									Coarse	Coarse	Saturated						
25	25		Sand Gravel	Clay	Sand Gravel	Clay	Sand	Well Graded			Moist	Plastic	Light Red/Brown				



Math																				
Second   S	Тор	Bottom	Clay	Sand	Clay	Sand	Clay	Sand	Poorly Graded	Fine	Fine	Dry	Non Plastic							
1			Clay	Janu	Clay	Janu	Clay	Janu	roonly draueu			Damp	Slightly Plastic							
Math	25	20								Medium	Medium	Moist	Plastic	Beige/White						
Note   Section   Section	25	30	Silt	Gravel	Silt	Gravel	Silt	Gravel	Well Graded			Wet	Very Plastic							
Note										Coarse	Coarse	Saturated								
Note   1	Тор	Bottom										Dry	Non Plastic							
No.   No.			Clay	Sand	Clay	Sand	Clay	Sand	Poorly Graded				Slightly Plastic							
Note   Signature   Signature										Medium	Medium	•		Tan/Beige						
Note	30	35	Silt	Gravel	Silt	Gravel	Silt	Gravel	Well Graded											
Top   Setten   Park										_			Very riustic							
A	Ton	Rottom											Non Blastic							
1	ТОР	Bottom	Clay	Sand	Clay	Sand	Clay	Sand	Poorly Graded	rille	rille									
State   Stat												•		Light						
Top   Botton   Fine	35	40								Medium	Medium			Red/Brown						
Top   Section   Section			Silt	Gravel	Silt	Gravel	Silt	Gravel	Well Graded				Very Plastic							
California   Cal											Coarse	Saturated								
A	Тор	Bottom	Clay	Sand	Clay	Sand	Clay	Sand	Poorly Graded	Fine	Fine	Dry	Non Plastic							
Medium   M			Í		,				,			Damp	Slightly Plastic	Liabt						
March   Sile   Grave   Sile   Sile   Grave   Sile   Sile	40	45								Medium	Medium	Moist	Plastic							
Top			Silt	Gravel	Silt	Gravel	Silt	Gravel	Well Graded			Wet	Very Plastic							
Column   C										Coarse	Coarse	Saturated								
Solid   Soli	Тор	Bottom								Fine	Fine	Dry	Non Plastic							
Solit   Soli			Clay	Sand	Clay	Sand	Clay	Sand	Poorly Graded			Damp	Slightly Plastic							
Silt   Grave   Silt   Silt   Grave   Silt   Grave   Silt   Silt   Silt   Silt   Grave   Silt										Medium	Medium	Moist	Plastic							
Note	45	50	Silt	Gravel	Silt	Gravel	Silt	Gravel	Well Graded			Wet	Very Plastic	Kea/ Brown						
Top										Coorse	Coorse									
Signature   Sign	Тор	Bottom											Non Plastic							
S   S   S   S   S   S   S   S   S   S			Clay	Sand	Clay	Sand	Clay	Sand	Poorly Graded											
Sit   Grave										Modium	Modium	•								
	55	55	Silt	Gravel	Silt	Gravel	Sil+	Gravel	Well Graded	Wiedidili	Wiedium			Red/Brown						
Depth (m or ft)			5	G.u.c.	J	G.u.e.	"""	G.u.c.	Trem Gradea	_			very Plastic							
Depth (m or ft)         CVC/VOC (ppm or LEL)           EC (μs/m or μs/cm)         Image: Company to the										Coarse	Coarse	Jaturateu	Eiold 9	crooning						
CVC/VOC (ppm or LEL)  EC (µS/m or µS/cm)													rieiū 3	creening						
CVC/VOC (ppm or LEL)  EC (µS/m or µS/cm)	Depth (	m or ft)																		
EC (μS/m or μS/cm)		,																		
EC (μS/m or μS/cm)																				
	cvc/voc (	ppm or LEL)																		
															-					
	EC (μS/m	or μS/cm)																		
Lab Sampling (Check Box)																				
Lab Sampling (Check Box)																				
	Lab Sampling	(Check Box)																		
															1	l	l			



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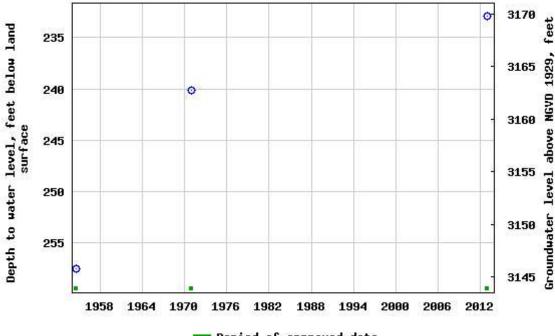
Available data for this site Groundwater: Field measurements GO

Lea County, New Mexico
Hydrologic Unit Code 13070001
Latitude 32°05'21.6", Longitude 103°36'12.7" NAD83
Land-surface elevation 3,403.00 feet above NGVD29
The depth of the well is 320 feet below land surface.
This well is completed in the Other aquifers (N99990THER) national aquifer.
This well is completed in the Ogallala Formation (1210GLL) local aquifer.

## **Output formats**

<u>Table of data</u>	
<u>Tab-separated data</u>	
<u>Graph of data</u>	
Reselect period	

## USGS 320504103361801 255,33E,31,24232



Period of approved data

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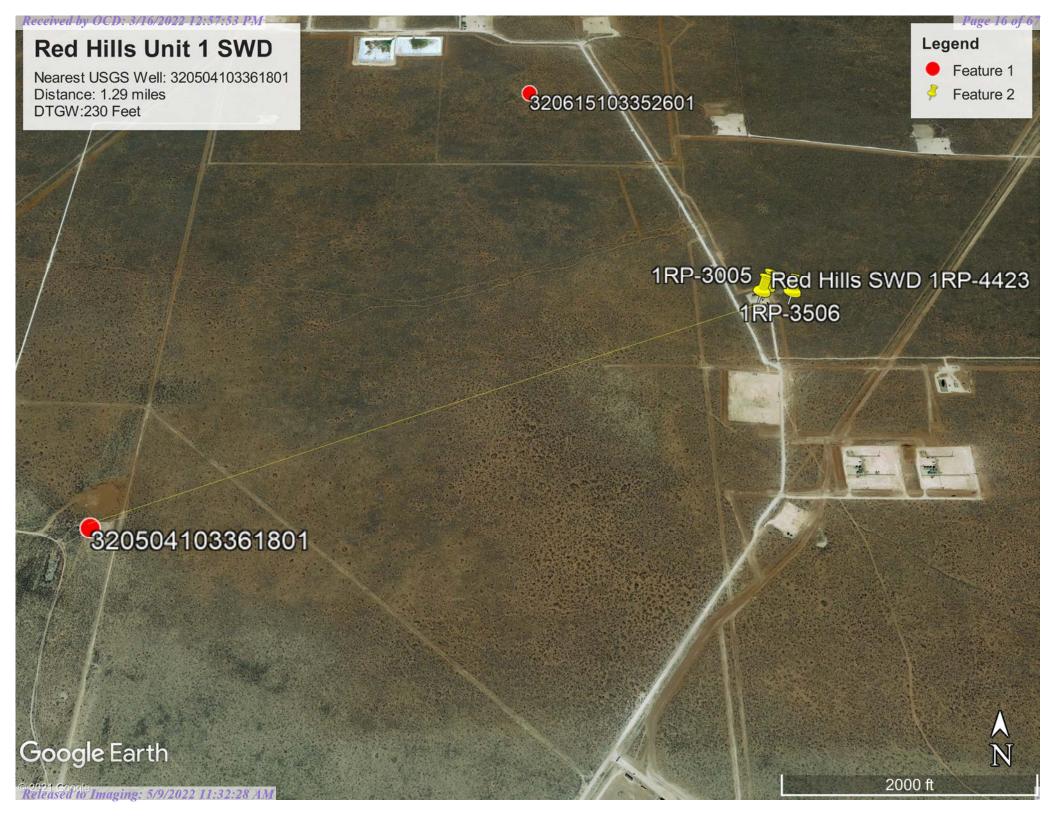
URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: <u>USGS Water Data Support Team</u>

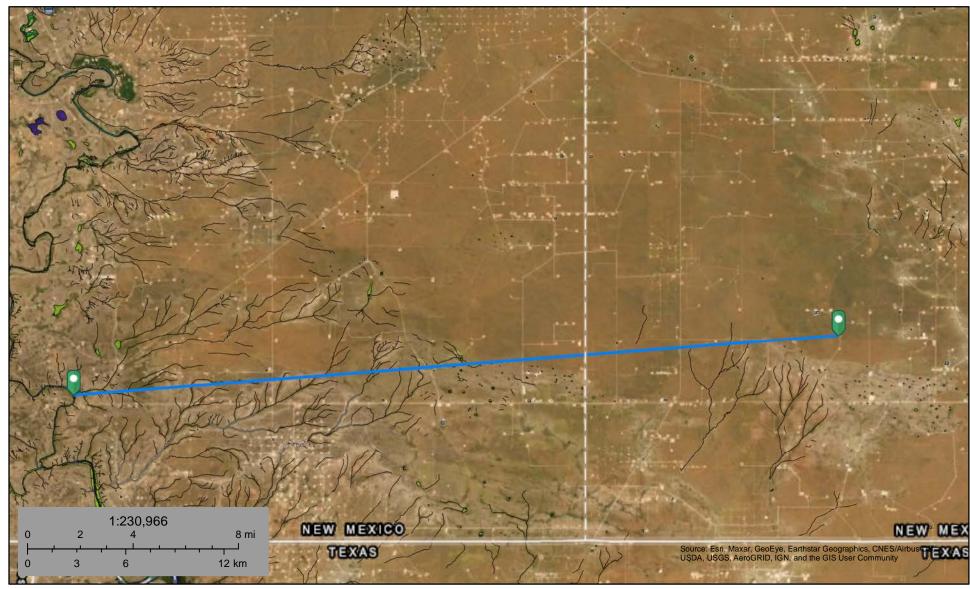
Page Last Modified: 2021-08-18 17:01:58 EDT

0.64 0.57 nadww01









August 18, 2021

#### Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Freshwater Forested/Shrub Wetland

Freshwater Pond

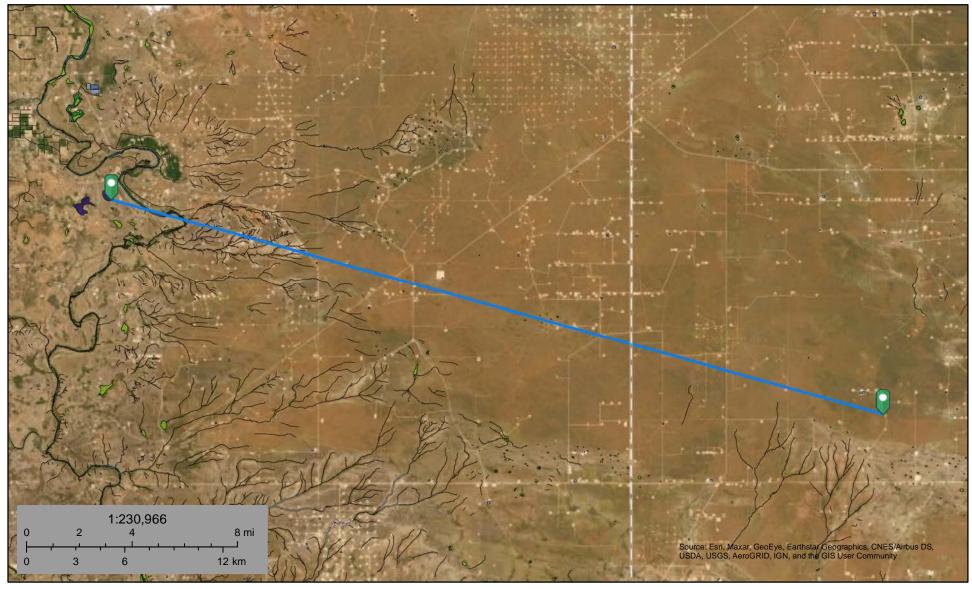
Lake

Other

Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.





August 18, 2021

#### Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Freshwater Forested/Shrub Wetland

Freshwater Pond

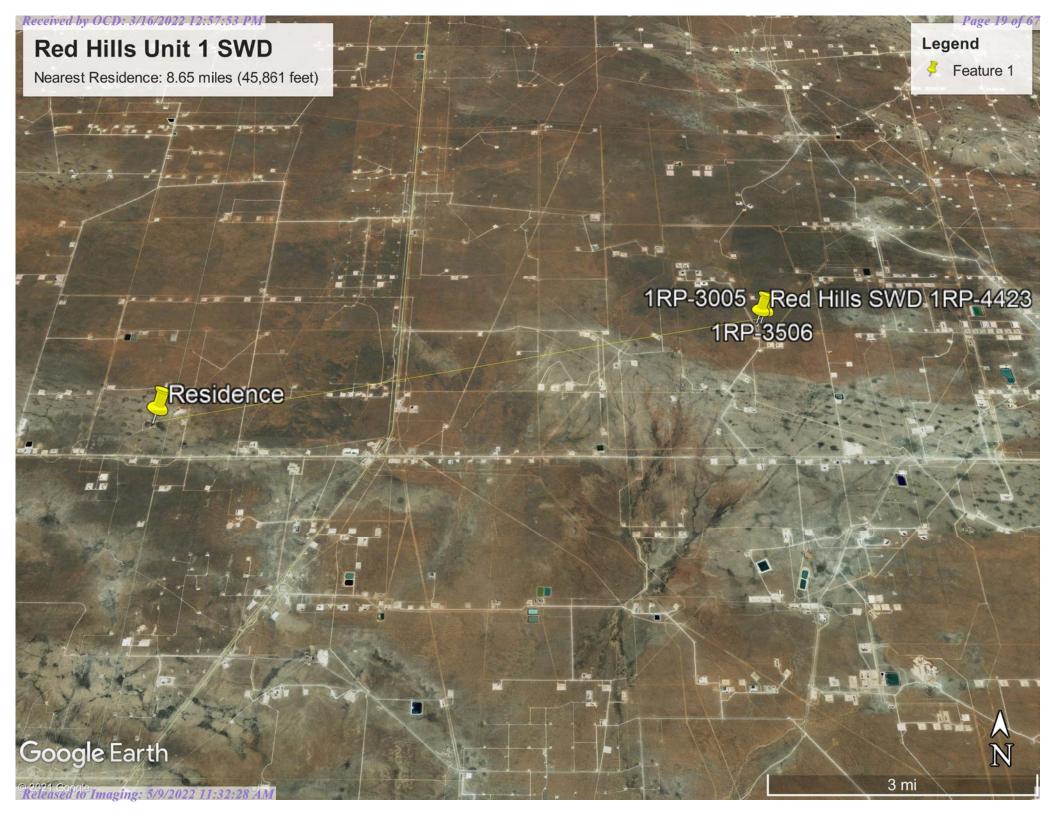
Lake

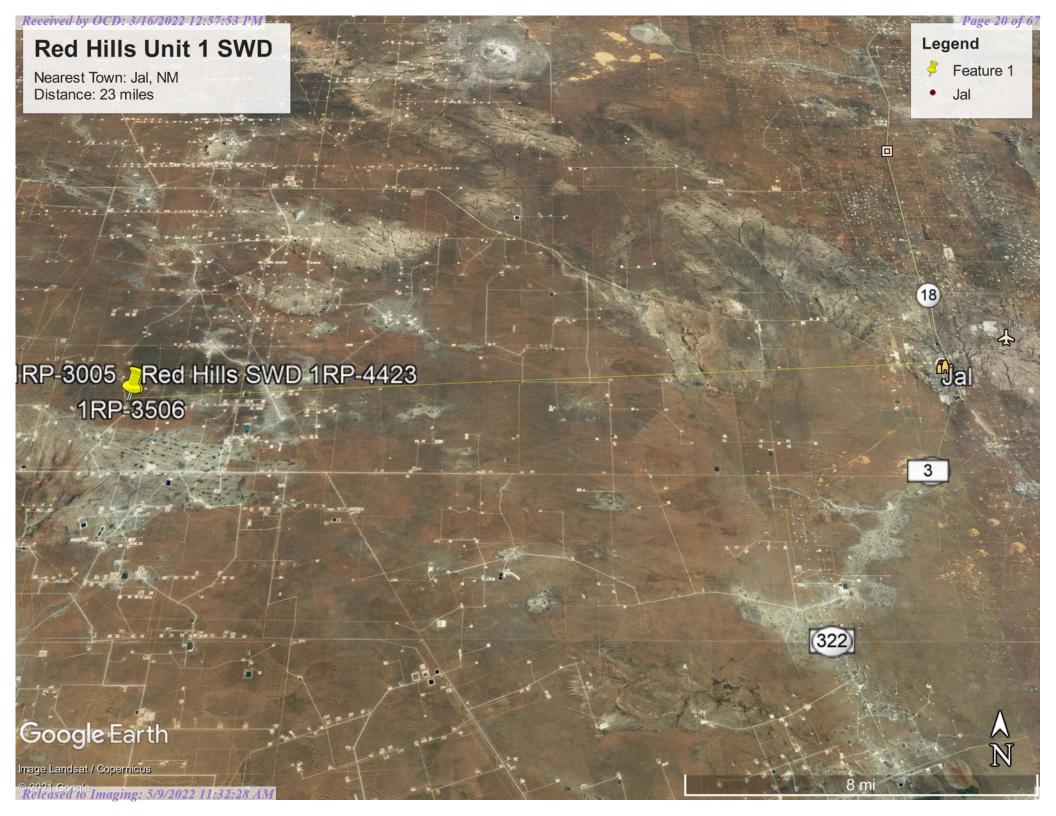
Other

Riverine

Other

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.









August 18, 2021

#### Wetlands

Estuarine and Marine Deepwater

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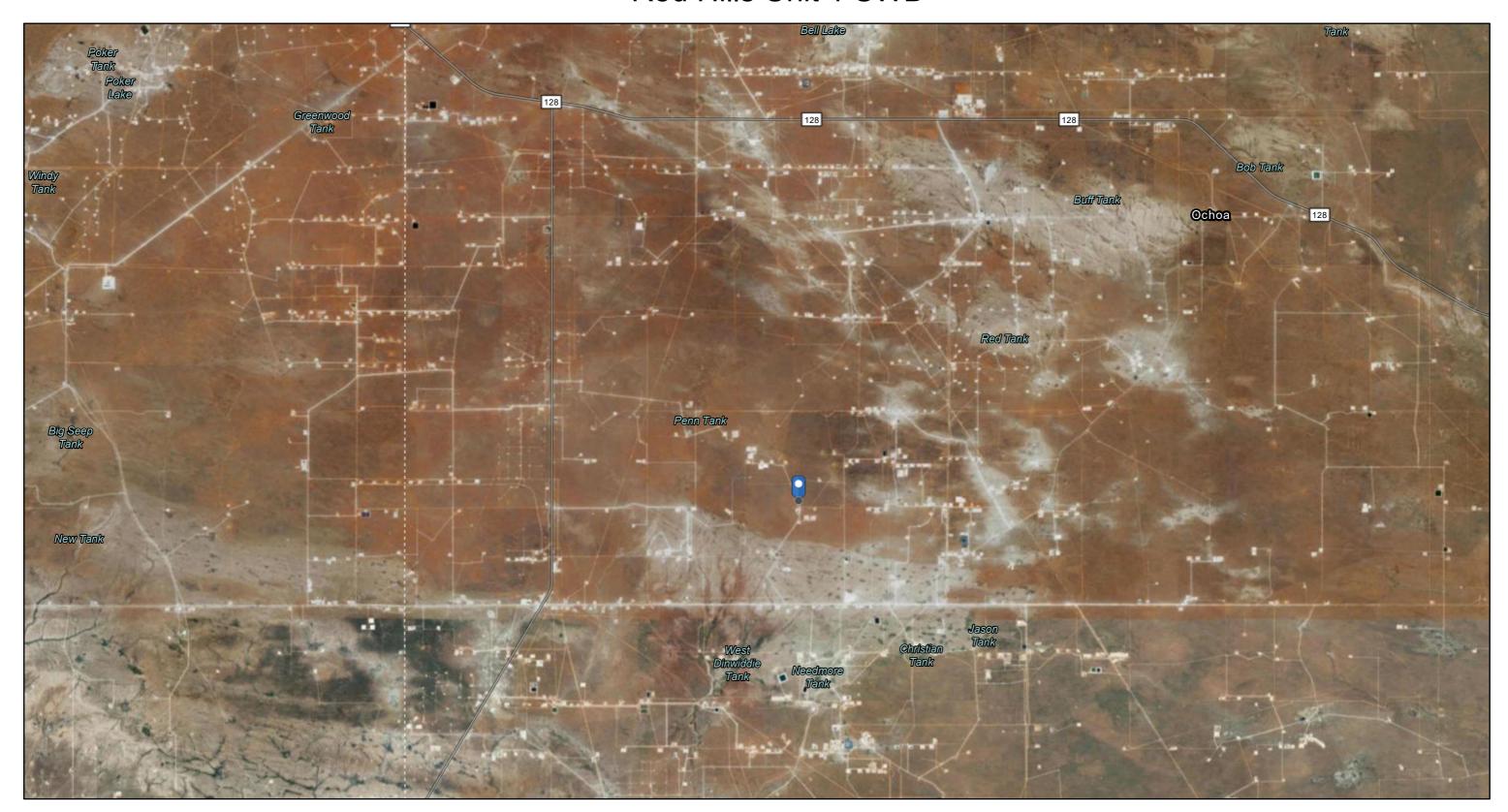
Lake

Freshwater Forested/Shrub Wetland

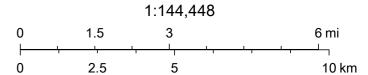
Other

Riverine

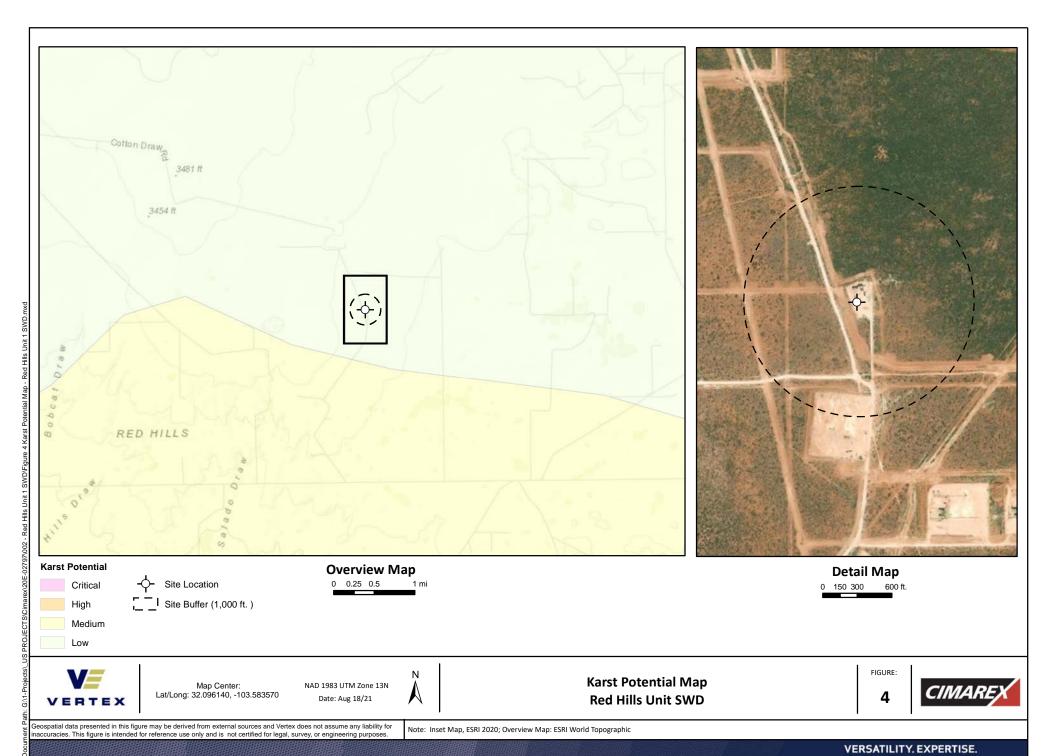
This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.



8/18/2021, 3:49:28 PM



Source: Esri, USDA FSA, Texas Parks & Wildlife, Esri, HERE, Garmin, SafeGraph, METI/NASA, USGS, EPA, NPS, USDA, Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User



# National Flood Hazard Layer FIRMette





SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT Without Base Flood Elevation (BFE) With BFE or Depth Zone AE, AO, AH, VE, AR SPECIAL FLOOD HAZARD AREAS Regulatory Floodway 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X **Future Conditions 1% Annual** Chance Flood Hazard Zone X Area with Reduced Flood Risk due to Levee. See Notes. Zone X OTHER AREAS OF Area with Flood Risk due to Levee Zone D FLOOD HAZARD NO SCREEN Area of Minimal Flood Hazard Zone X Effective LOMRs OTHER AREAS Area of Undetermined Flood Hazard Zone D - - - Channel, Culvert, or Storm Sewer **GENERAL** STRUCTURES | LILLIL Levee, Dike, or Floodwall 20.2 Cross Sections with 1% Annual Chance 17.5 Water Surface Elevation **Coastal Transect** ----- Base Flood Elevation Line (BFE) Limit of Study **Jurisdiction Boundary** --- Coastal Transect Baseline OTHER **Profile Baseline FEATURES** Hydrographic Feature Digital Data Available No Digital Data Available MAP PANELS Unmapped The pin displayed on the map is an approximate

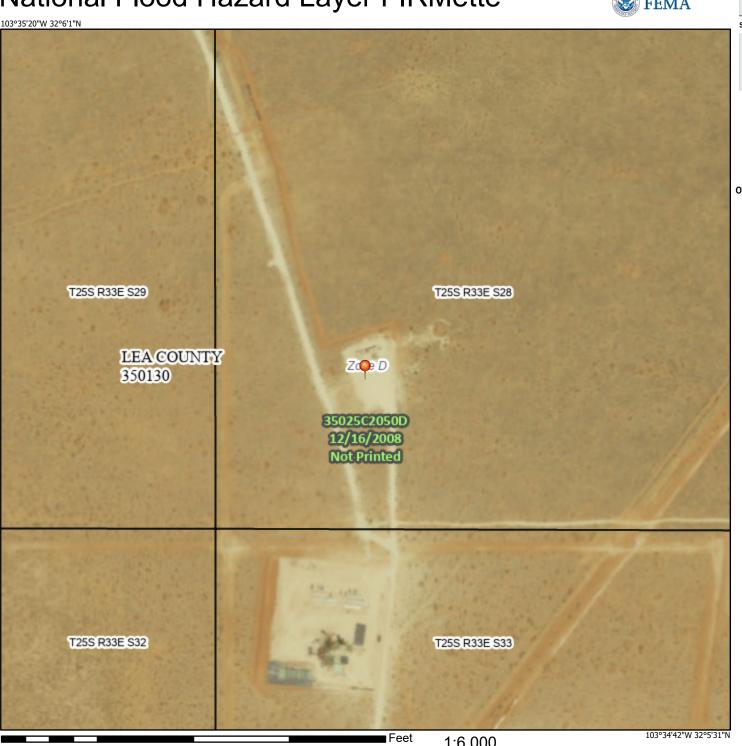
This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

point selected by the user and does not represent

an authoritative property location.

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 8/18/2021 at 5:33 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.



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#### MAP LEGEND

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**Water Features** 

Transportation

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Background

Spoil Area

Stony Spot

Wet Spot

Other

Rails

**US Routes** 

Major Roads

Local Roads

Very Stony Spot

Special Line Features

Streams and Canals

Interstate Highways

Aerial Photography

#### Area of Interest (AOI)

Area of Interest (AOI)

#### Soils

Soil Map Unit Polygons



Soil Map Unit Points

#### **Special Point Features**

Blowout

Borrow Pit

Clay Spot

Closed Depression

Gravel Pit

Gravelly Spot

Landfill

Lava Flow

Marsh or swamp

Mine or Quarry

Miscellaneous Water

Perennial Water

Rock Outcrop

+ Saline Spot

Sandy Spot

Severely Eroded Spot

Sinkhole

Slide or Slip

Sodic Spot

## MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20.000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Lea County, New Mexico Survey Area Data: Version 17, Jun 8, 2020

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Feb 7, 2020—May 12, 2020

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

# **Map Unit Legend**

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
PT	Pyote loamy fine sand	15.3	100.0%
Totals for Area of Interest		15.3	100.0%

## Lea County, New Mexico

## PT—Pyote loamy fine sand

## **Map Unit Setting**

National map unit symbol: dmqp Elevation: 3,000 to 3,900 feet

Mean annual precipitation: 10 to 12 inches Mean annual air temperature: 60 to 62 degrees F

Frost-free period: 190 to 200 days

Farmland classification: Farmland of statewide importance

## **Map Unit Composition**

Pyote and similar soils: 85 percent Minor components: 15 percent

Estimates are based on observations, descriptions, and transects of

the mapunit.

## **Description of Pyote**

#### Setting

Landform: Plains

Landform position (three-dimensional): Rise

Down-slope shape: Linear Across-slope shape: Linear

Parent material: Sandy eolian deposits derived from sedimentary

rock

#### Typical profile

A - 0 to 25 inches: loamy fine sand Bt - 25 to 60 inches: fine sandy loam

#### **Properties and qualities**

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained Runoff class: Negligible

Capacity of the most limiting layer to transmit water (Ksat): High

(2.00 to 6.00 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 5 percent

Gypsum, maximum content: 1 percent

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0

mmhos/cm)

Sodium adsorption ratio, maximum: 2.0

Available water supply, 0 to 60 inches: Low (about 5.3 inches)

#### Interpretive groups

Land capability classification (irrigated): 6e Land capability classification (nonirrigated): 7s



Hydrologic Soil Group: A

Ecological site: R042XC003NM - Loamy Sand

Hydric soil rating: No

## **Minor Components**

## Maljamar

Percent of map unit: 8 percent

Ecological site: R042XC003NM - Loamy Sand

Hydric soil rating: No

### **Palomas**

Percent of map unit: 7 percent

Ecological site: R042XC003NM - Loamy Sand

Hydric soil rating: No

## **Data Source Information**

Soil Survey Area: Lea County, New Mexico Survey Area Data: Version 17, Jun 8, 2020

	Ecological I	Reference Works	heet	
Author(s) / participant(s):	John Tunberg,			
Contact for lead author:	505-761-4488		Reference site used? Yes/No	No
<b>Date:</b> 2/17/2010 <b>M</b>	ALRA: 42.3 Ecological Sit	te: Loamy Sand	This <i>must</i> be verified based on so	ils
and climate (see Ecological S	ite Description). Current plant	community <u>cannot</u> be	used to identify the ecological site.	
<b>Indicators:</b> For each indicators	ntor, describe the potential for t	the site. Where possible	e, (1) use numbers, (2) include expected	
range of values for above and	below average years for each	community within the	reference state, when appropriate &	
(3) site data. Continue descrip	tion on separate sheet.			
After wildfires, or abnormally hi	margins of this site after high-inte	r extended drought or con	nbinations of these disturbances rills may doul rms. Any rills formed should not be long lived	
2. Presence of water flow pa	tterns: None on slopes less tha	n 5%. Few on slopes from	n 5 to 9% with lenghts of 3 feet or length.	
-	ngth and numbers may double after		imits at the margins of this site. Numerous obs y high human or herbivore impacts or extende	
3. Number and height of ero	sional pedestals or terracettes:	There should not be an	ny pedestals and terracettes should be rare.	
	ormally high human or herbivore i	*	aused pedestals are rare and only would be on ght or combinations of these disturbances. The	
4. Bare ground from Ecologic	ical Site Description or other stu	udies (rock, litter, licher	, moss, plant canopy are not bare ground)	:
-	to 25% of the aerial cover on this sthan 12 inches and not connected	_	. This value may be too high for a wet year. E	3are
5. Number of gullies and ero	sion associated with gullies:	There should not be any g	ullies or erosion associated with gullies on this	s site.
summer thunderstorms or after w	vildfire, or abnormally high human	n or herbivore impacts or	be any accelerated erosion. After high-intensextended drought or combinations of these ng within 1 year of event and continuing after	
	lowouts and/or depositional are		ing within 1 year of event and continuing after	titati
Wind scoured, blowouts and/or wind erosion is minimal when the summer thunderstorms, after will After rain events, exposed soil su	depositional areas should be rare and site is in a well vegetated condidire, or abnormally high human curfaces form physical crusts that to	and associated with distuition. Significant wind eroor herbivore impacts or execute to reduce wind erosion	rbances (e.g. small mammal burrows, resting a psion would only be present following high-instended drought or combinations of these distributions. Deposition from off site sources can be contour when vegetation is removed or significantly	tensity urbances mmon on
7. Amount of litter movemen	nt (describe size and distance ex	pected to travel) :		
T1 : C41 1:44 ( 1:44 )	1 111 11 15	. 1 111 1 .1 1		
	should be small and its movemen			-la
plant canopy and interspa	, ,	values are averages - m	ost sites will show a range of values for bot	n.
	•		:	T1.:-
would be true at the surface and	_	e estimated to be 5 to 4 in	interspaces and 4 to 5 at bases of vegetation.	THIS
		d strength of structure,	and A-horizon color and thickness for both	h
plant canopy and interspa	· · · · · · · · · · · · · · · · · · ·	·		
*	d (5YR 5/6) fine sand, yellowish r es thick) The SOM content should		le grained; loose; many roots; porous; neutral;	; clear
			al groups) & spatial distribution on infiltra	tion

In a grassland with uniformly distributed grass patches on coarse-textured soils, runoff should be low to nil. Most water infiltrates at the plant

11. Presence and thickness of compaction layer (usually none; describe soil profile features which may be mistaken for

Released to Imaging: 5/9/2022 11:32:28 AM

bases as well as in the interspaces.

& runoff:

compact	ion):	There	should	not	be	any	com	paction	lay	ers	on	this	site.
---------	-------	-------	--------	-----	----	-----	-----	---------	-----	-----	----	------	-------

There are soil profile features in the top 9 inches of the soil profile that would be mistaken for a management induced soil compaction layer. Management induced compaction layers will be more difficult to penetrate than clay lenses.

12. Functional/Structural Groups (list in order of descending dominance by above-ground weight using symbols: indicate much greater than (>>), greater than (>), and equal to (=):

Dominants: Black grama = Dropseeds = Bluestems > Subdominants: Warm season mid grasses > Minor Component: Shrubs (not creosotebush and mesquite) > Forbs

### 13. Amount of plant mortality and decadence (include which functional groups are expected to show mortality or decadence):

Perennial plants are long lived on this site. Long lasting drought can cause some Short-lived perennial component can exhibit significant mortality in drought, black grama tends to exhibit mortality only when exposed to drought in addition to other stressors. Shrubs/yucca should exhibit low mortality rates.

14. Average percent litter cover (\_\_\_\_\_\_%) and depth (\_\_\_\_\_inches).

25 to 30 % litter cover on this site. Well distributed. Depth of 1/2 inch.

## 15. Expected annual production (this is **TOTAL** above-ground production, not just forage production):

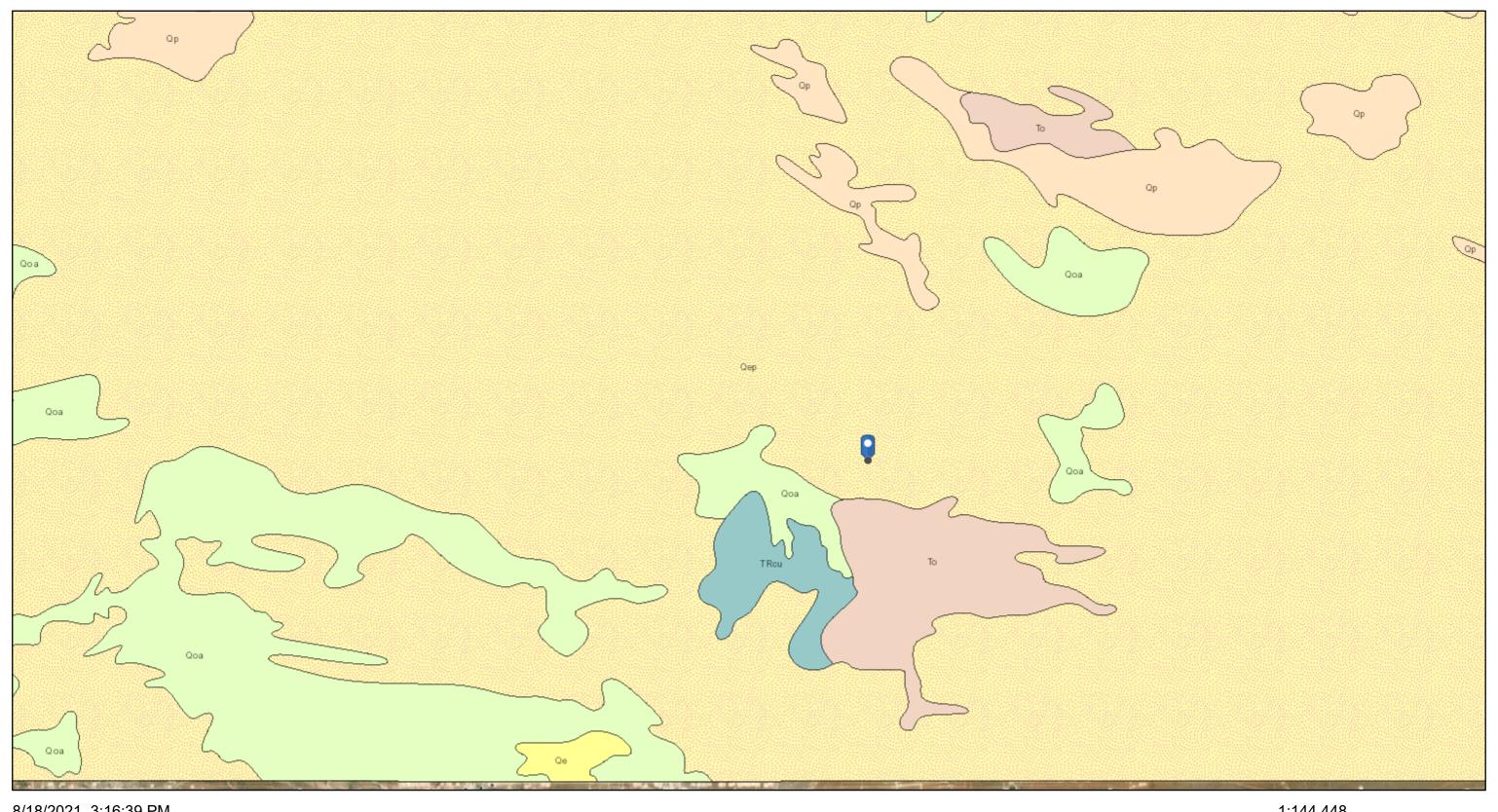
(Low Production 650 lbs./ac.) (Average RV Production 1225 lbs./ac.) (High Production 1800 lbs./ac.) After wildfires, high herbivore impacts, extended drought, or combinations of these disturbances, can cause production to be significantly reduced (100-200 lbs per ac. the first growing season following a wildfire) and recover slowly under below average precipitation regimes.

16. Potential invasive (including noxious) species (native and non-native). List species which characterize degraded states and which, after a threshold is crossed, "can, and often do, continue to increase regardless of the management of the site and may eventually dominate

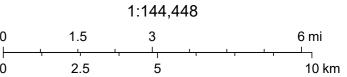
Mesquite, Shinery Oak and creosotebush (where gravel content high) and sand sage can be invaders of this site. Invasive plants should not occur in reference plant community. However, lovegrass, Russian thistle, kochia, and other nonnative annuals may initially invade following extended disturbance. Mesquite and Shinnery oak and creosote and sand sage and lovegrass are the greatest threat to dominate this site in the long term after disturbance (primarily following wildfire exclusion but also includes high human or herbivore impacts and extended drought). Mesquite and Shinnery Oak and creosote and sand sage and lovegrass are most likely to retain dominance if allowed to alter natural fire regime (this alteration may require poor land management combined with years of wet winter-spring; dry summer-fall conditions). Any of these invaded communities represent a departure from the reference state.

#### 17. Perennial plant reproductive capability:

Black grama reproduces by seed sporadically and reproduction by tiller and stolon can be common. The dropseeds should have high reproductive potential and rapidly recover from drought in the absence of additional stresses (grazing).

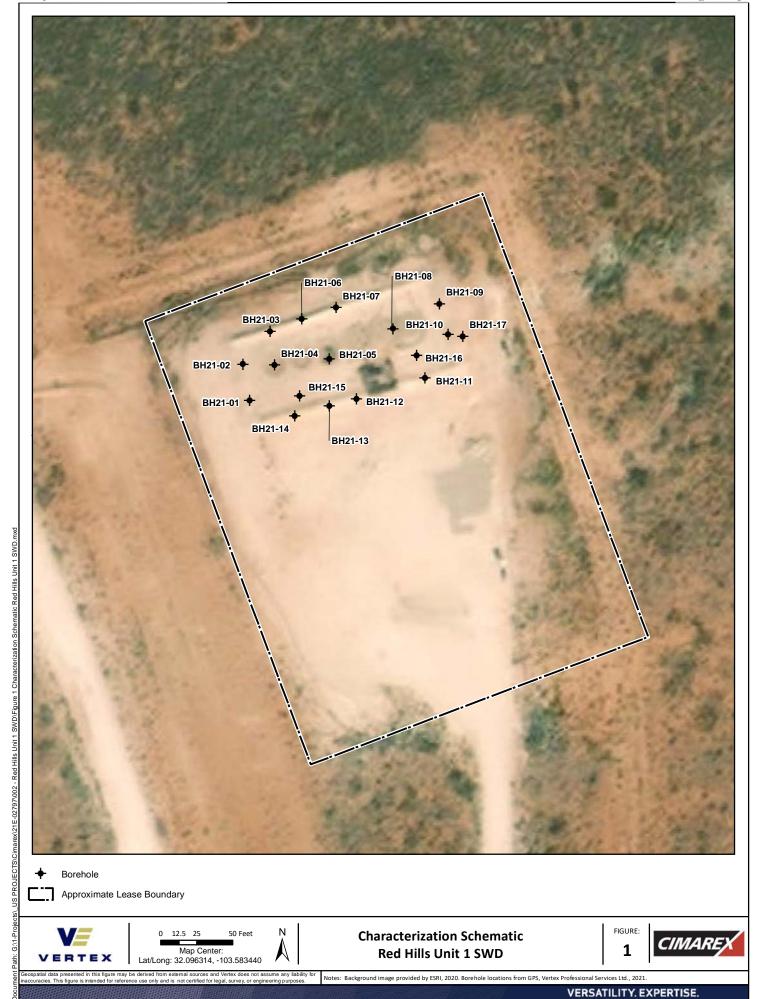






Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community, NMBGMR

# **ATTACHMENT 2**



# **ATTACHMENT 3**

Client Name: Cimarex Site Name: Red Hills SWD 1 NMOCD Tracking #: 1RP-3506 Project #: 21E-02797-002 Lab Report: 2112D85

	Table 2.	Initial Characteri	zation San	ple Field :	Screen an	d Laborato	ory Results	- Depth t	o Ground	water 51-1	.00 feet bខ្	ζS	
	Sample Descrip	otion	Fi	eld Screeni	ng			Petrole	eum Hydro	carbons			
			ş			Vol	atile			Extractable			Inorgani
Sample ID	Depth (ft)	Sample Date	Volatile Organic Compounds (PID)	Extractable Organic Compounds (PetroFlag)	Chloride Concentration	Benzene	BTEX (Total)	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	(GRO + DRO)	Total Petroleum Hydrocarbons (TPH)	Chloride Concentration
			(ppm)	(ppm)	(ppm)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
BH21-01	4	12-22-2021	0	_	320	<0.023	<0.094	<4.7	<9.6	<48	<14.3	<62.3	160
BH21-03	2	12-22-2021	0	-	597	<0.023	<0.092	<4.6	<9.1	<46	<13.7	<59.7	390
BH21-04	4	12-22-2021	63	970	412	<0.11	<0.46	<23	810	260	810	1070	220
BH21-05	4	12-22-2021	1,335	1,480	75	<0.12	2.5	650	1800	240	2450	2690	<59
BH21-08	4	12-22-2021	0	120	85	<0.025	<0.098	<4.9	<9.2	<46	<14.1	<60.1	<61
BH21-09	4	12-22-2021	0	_	427	<0.025	<0.098	<4.9	<9.2	<46	<14.1	<60.1	140
BH21-10	4	12-22-2021	2	_	3,657	<0.023	<0.094	<4.7	150	75	150	225	2600
BH21-11	4	12-22-2021	0	_	192	<0.024	<0.094	<4.7	<9.8	<49	<14.5	<63.5	<60
BH21-14	4	12-22-2021	0	_	992	<0.024	<0.098	<4.9	<9.4	<47	<14.3	<61.3	710
BH21-15	4	12-22-2021	0	_	6,002	<0.024	<0.096	<4.8	<9.6	<48	<14.4	<62.4	6500
BH21-16	4	12-22-2021	0	_	132	<0.023	<0.093	<4.7	<9.8	<49	<14.5	<63.5	<60
BH21-17	4	12-22-2021	0	_	182	<0.023	<0.093	<4.7	<9.6	<48	<14.3	<62.3	<60

<sup>&</sup>quot;ND" Not Detected at the Reporting Limit

Bold and grey shaded indicates exceedance outside of NM OCD Closure Criteria (on-pad)

Bold and green shaded indicates exceedance outside of NM OCD Reclamation Criteria (off-pad)



<sup>&</sup>quot;-" indicates not analyzed/assessed



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

January 07, 2022

Michael Moffitt Vertex Resources Services, Inc. 3101 Boyd Drive Carlsbad, NM 88220 TEL: (505) 506-0040

FAX:

RE: Redhills SWD 1 OrderNo.: 2112D85

#### Dear Michael Moffitt:

Hall Environmental Analysis Laboratory received 12 sample(s) on 12/28/2021 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

andy

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 1/7/2022

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Vertex Resources Services, Inc. Client Sample ID: BH21-01

 Project:
 Redhills SWD 1
 Collection Date: 12/22/2021 10:00:00 AM

 Lab ID:
 2112D85-001
 Matrix: SOIL
 Received Date: 12/28/2021 7:50:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE C	RGANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	1/3/2022 1:50:09 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	1/3/2022 1:50:09 PM
Surr: DNOP	83.0	70-130	%Rec	1	1/3/2022 1:50:09 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: mb
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	12/29/2021 4:52:00 PM
Surr: BFB	86.3	70-130	%Rec	1	12/29/2021 4:52:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: mb
Benzene	ND	0.023	mg/Kg	1	12/29/2021 4:52:00 PM
Toluene	ND	0.047	mg/Kg	1	12/29/2021 4:52:00 PM
Ethylbenzene	ND	0.047	mg/Kg	1	12/29/2021 4:52:00 PM
Xylenes, Total	ND	0.094	mg/Kg	1	12/29/2021 4:52:00 PM
Surr: 4-Bromofluorobenzene	78.8	70-130	%Rec	1	12/29/2021 4:52:00 PM
EPA METHOD 300.0: ANIONS					Analyst: <b>JMT</b>
Chloride	160	60	mg/Kg	20	1/3/2022 6:05:31 PM

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

Qualifiers:

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

Page 1 of 19

Date Reported: 1/7/2022

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Vertex Resources Services, Inc. Client Sample ID: BH21-03

 Project:
 Redhills SWD 1
 Collection Date: 12/22/2021 1:05:00 PM

 Lab ID:
 2112D85-002
 Matrix: SOIL
 Received Date: 12/28/2021 7:50:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE C	ORGANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	9.1	mg/Kg	1	1/3/2022 2:00:57 PM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	1/3/2022 2:00:57 PM
Surr: DNOP	77.9	70-130	%Rec	1	1/3/2022 2:00:57 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: <b>mb</b>
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	12/29/2021 5:12:00 PM
Surr: BFB	86.9	70-130	%Rec	1	12/29/2021 5:12:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: mb
Benzene	ND	0.023	mg/Kg	1	12/29/2021 5:12:00 PM
Toluene	ND	0.046	mg/Kg	1	12/29/2021 5:12:00 PM
Ethylbenzene	ND	0.046	mg/Kg	1	12/29/2021 5:12:00 PM
Xylenes, Total	ND	0.092	mg/Kg	1	12/29/2021 5:12:00 PM
Surr: 4-Bromofluorobenzene	80.6	70-130	%Rec	1	12/29/2021 5:12:00 PM
EPA METHOD 300.0: ANIONS					Analyst: <b>JMT</b>
Chloride	390	60	mg/Kg	20	1/3/2022 3:25:02 PM

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 2 of 19

Date Reported: 1/7/2022

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Vertex Resources Services, Inc. Client Sample ID: BH21-04

**Project:** Redhills SWD 1
 Collection Date: 12/22/2021 11:00:00 AM

 **Lab ID:** 2112D85-003
 Matrix: SOIL
 Received Date: 12/28/2021 7:50:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE	Analyst: SB				
Diesel Range Organics (DRO)	810	10	mg/Kg	1	1/3/2022 2:11:47 PM
Motor Oil Range Organics (MRO)	260	50	mg/Kg	1	1/3/2022 2:11:47 PM
Surr: DNOP	91.6	70-130	%Rec	1	1/3/2022 2:11:47 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: <b>mb</b>
Gasoline Range Organics (GRO)	ND	23	mg/Kg	5	12/29/2021 5:32:00 PM
Surr: BFB	113	70-130	%Rec	5	12/29/2021 5:32:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: <b>mb</b>
Benzene	ND	0.11	mg/Kg	5	12/29/2021 5:32:00 PM
Toluene	ND	0.23	mg/Kg	5	12/29/2021 5:32:00 PM
Ethylbenzene	ND	0.23	mg/Kg	5	12/29/2021 5:32:00 PM
Xylenes, Total	ND	0.46	mg/Kg	5	12/29/2021 5:32:00 PM
Surr: 4-Bromofluorobenzene	89.6	70-130	%Rec	5	12/29/2021 5:32:00 PM
EPA METHOD 300.0: ANIONS					Analyst: <b>JMT</b>
Chloride	220	61	mg/Kg	20	1/3/2022 3:37:23 PM

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

Qualifiers:

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

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Date Reported: 1/7/2022

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Vertex Resources Services, Inc. Client Sample ID: BH21-05

 Project:
 Redhills SWD 1
 Collection Date: 12/22/2021 10:15:00 AM

 Lab ID:
 2112D85-004
 Matrix: SOIL
 Received Date: 12/28/2021 7:50:00 AM

Analyses	Result	RL (	Qual Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OI	RGANICS				Analyst: SB
Diesel Range Organics (DRO)	1800	46	mg/Kg	5	1/4/2022 4:32:25 PM
Motor Oil Range Organics (MRO)	240	230	mg/Kg	5	1/4/2022 4:32:25 PM
Surr: DNOP	85.7	70-130	%Rec	5	1/4/2022 4:32:25 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: mb
Gasoline Range Organics (GRO)	650	24	mg/Kg	5	12/29/2021 5:51:00 PM
Surr: BFB	352	70-130	S %Rec	5	12/29/2021 5:51:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: mb
Benzene	ND	0.12	mg/Kg	5	12/29/2021 5:51:00 PM
Toluene	ND	0.24	mg/Kg	5	12/29/2021 5:51:00 PM
Ethylbenzene	1.5	0.24	mg/Kg	5	12/29/2021 5:51:00 PM
Xylenes, Total	2.5	0.47	mg/Kg	5	12/29/2021 5:51:00 PM
Surr: 4-Bromofluorobenzene	123	70-130	%Rec	5	12/29/2021 5:51:00 PM
EPA METHOD 300.0: ANIONS					Analyst: <b>JMT</b>
Chloride	ND	59	mg/Kg	20	1/3/2022 3:49:44 PM

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
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 1/7/2022

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Vertex Resources Services, Inc. Client Sample ID: BH21-08

Redhills SWD 1 Project: **Collection Date:** 12/22/2021 1:15:00 PM 2112D85-005 Matrix: SOIL Received Date: 12/28/2021 7:50:00 AM Lab ID:

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE		Analyst: SB			
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	1/3/2022 2:33:18 PM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	1/3/2022 2:33:18 PM
Surr: DNOP	89.3	70-130	%Rec	1	1/3/2022 2:33:18 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>	<u> </u>				Analyst: mb
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	12/29/2021 6:11:00 PM
Surr: BFB	118	70-130	%Rec	1	12/29/2021 6:11:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: mb
Benzene	ND	0.025	mg/Kg	1	12/29/2021 6:11:00 PM
Toluene	ND	0.049	mg/Kg	1	12/29/2021 6:11:00 PM
Ethylbenzene	ND	0.049	mg/Kg	1	12/29/2021 6:11:00 PM
Xylenes, Total	ND	0.098	mg/Kg	1	12/29/2021 6:11:00 PM
Surr: 4-Bromofluorobenzene	81.9	70-130	%Rec	1	12/29/2021 6:11:00 PM
EPA METHOD 300.0: ANIONS					Analyst: <b>JMT</b>
Chloride	ND	61	mg/Kg	20	1/3/2022 4:26:46 PM

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

Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix interference

Analyte detected in the associated Method Blank

Е Estimated value

J Analyte detected below quantitation limits

Sample pH Not In Range

Page 5 of 19 RL Reporting Limit

Date Reported: 1/7/2022

## Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Vertex Resources Services, Inc. Client Sample ID: BH21-09

Redhills SWD 1 **Collection Date:** 12/22/2021 11:20:00 AM Project: Received Date: 12/28/2021 7:50:00 AM Lab ID: 2112D85-006 Matrix: SOIL

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	Analyst: SB				
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	1/3/2022 2:44:04 PM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	1/3/2022 2:44:04 PM
Surr: DNOP	89.0	70-130	%Rec	1	1/3/2022 2:44:04 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: mb
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	12/29/2021 7:10:00 PM
Surr: BFB	91.5	70-130	%Rec	1	12/29/2021 7:10:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: mb
Benzene	ND	0.025	mg/Kg	1	12/29/2021 7:10:00 PM
Toluene	ND	0.049	mg/Kg	1	12/29/2021 7:10:00 PM
Ethylbenzene	ND	0.049	mg/Kg	1	12/29/2021 7:10:00 PM
Xylenes, Total	ND	0.098	mg/Kg	1	12/29/2021 7:10:00 PM
Surr: 4-Bromofluorobenzene	81.1	70-130	%Rec	1	12/29/2021 7:10:00 PM
EPA METHOD 300.0: ANIONS					Analyst: <b>JMT</b>
Chloride	140	60	mg/Kg	20	1/3/2022 4:39:06 PM

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

Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix interference

Analyte detected in the associated Method Blank

Е Estimated value

J Analyte detected below quantitation limits

Sample pH Not In Range

Page 6 of 19 RL Reporting Limit

Date Reported: 1/7/2022

#### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Vertex Resources Services, Inc. Client Sample ID: BH21-10

 Project:
 Redhills SWD 1
 Collection Date: 12/22/2021 11:25:00 AM

 Lab ID:
 2112D85-007
 Matrix: SOIL
 Received Date: 12/28/2021 7:50:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	Analyst: SB				
Diesel Range Organics (DRO)	150	8.7	mg/Kg	1	1/3/2022 2:54:51 PM
Motor Oil Range Organics (MRO)	75	44	mg/Kg	1	1/3/2022 2:54:51 PM
Surr: DNOP	87.3	70-130	%Rec	1	1/3/2022 2:54:51 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: mb
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	12/29/2021 7:30:00 PM
Surr: BFB	85.2	70-130	%Rec	1	12/29/2021 7:30:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: mb
Benzene	ND	0.023	mg/Kg	1	12/29/2021 7:30:00 PM
Toluene	ND	0.047	mg/Kg	1	12/29/2021 7:30:00 PM
Ethylbenzene	ND	0.047	mg/Kg	1	12/29/2021 7:30:00 PM
Xylenes, Total	ND	0.094	mg/Kg	1	12/29/2021 7:30:00 PM
Surr: 4-Bromofluorobenzene	78.7	70-130	%Rec	1	12/29/2021 7:30:00 PM
EPA METHOD 300.0: ANIONS					Analyst: <b>JMT</b>
Chloride	2600	150	mg/Kg	50	1/4/2022 10:23:11 PM

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 1/7/2022

#### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Vertex Resources Services, Inc. Client Sample ID: BH21-11

**Project:** Redhills SWD 1
 Collection Date: 12/22/2021 11:50:00 AM

 **Lab ID:** 2112D85-008
 Matrix: SOIL
 Received Date: 12/28/2021 7:50:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	1/3/2022 3:05:35 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	1/3/2022 3:05:35 PM
Surr: DNOP	83.8	70-130	%Rec	1	1/3/2022 3:05:35 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: mb
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	12/29/2021 7:49:00 PM
Surr: BFB	85.9	70-130	%Rec	1	12/29/2021 7:49:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: mb
Benzene	ND	0.024	mg/Kg	1	12/29/2021 7:49:00 PM
Toluene	ND	0.047	mg/Kg	1	12/29/2021 7:49:00 PM
Ethylbenzene	ND	0.047	mg/Kg	1	12/29/2021 7:49:00 PM
Xylenes, Total	ND	0.094	mg/Kg	1	12/29/2021 7:49:00 PM
Surr: 4-Bromofluorobenzene	79.1	70-130	%Rec	1	12/29/2021 7:49:00 PM
EPA METHOD 300.0: ANIONS					Analyst: <b>JMT</b>
Chloride	ND	60	mg/Kg	20	1/3/2022 5:03:48 PM

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

Qualifiers:

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

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Date Reported: 1/7/2022

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Vertex Resources Services, Inc. Client Sample ID: BH21-14

 Project:
 Redhills SWD 1
 Collection Date: 12/22/2021 12:05:00 PM

 Lab ID:
 2112D85-009
 Matrix: SOIL
 Received Date: 12/28/2021 7:50:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS					Analyst: SB
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	1/3/2022 3:16:18 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	1/3/2022 3:16:18 PM
Surr: DNOP	89.8	70-130	%Rec	1	1/3/2022 3:16:18 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: <b>mb</b>
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	12/29/2021 8:09:00 PM
Surr: BFB	87.4	70-130	%Rec	1	12/29/2021 8:09:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: <b>mb</b>
Benzene	ND	0.024	mg/Kg	1	12/29/2021 8:09:00 PM
Toluene	ND	0.049	mg/Kg	1	12/29/2021 8:09:00 PM
Ethylbenzene	ND	0.049	mg/Kg	1	12/29/2021 8:09:00 PM
Xylenes, Total	ND	0.098	mg/Kg	1	12/29/2021 8:09:00 PM
Surr: 4-Bromofluorobenzene	77.6	70-130	%Rec	1	12/29/2021 8:09:00 PM
EPA METHOD 300.0: ANIONS					Analyst: <b>JMT</b>
Chloride	710	60	mg/Kg	20	1/3/2022 5:16:08 PM

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 1/7/2022

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH21-15

**Project:** Redhills SWD 1
 Collection Date: 12/22/2021 1:10:00 PM

 **Lab ID:** 2112D85-010
 Matrix: SOIL
 Received Date: 12/28/2021 7:50:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS					Analyst: SB
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	1/3/2022 3:27:00 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	1/3/2022 3:27:00 PM
Surr: DNOP	106	70-130	%Rec	1	1/3/2022 3:27:00 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: mb
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	12/29/2021 8:29:00 PM
Surr: BFB	88.0	70-130	%Rec	1	12/29/2021 8:29:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: <b>mb</b>
Benzene	ND	0.024	mg/Kg	1	12/29/2021 8:29:00 PM
Toluene	ND	0.048	mg/Kg	1	12/29/2021 8:29:00 PM
Ethylbenzene	ND	0.048	mg/Kg	1	12/29/2021 8:29:00 PM
Xylenes, Total	ND	0.096	mg/Kg	1	12/29/2021 8:29:00 PM
Surr: 4-Bromofluorobenzene	80.3	70-130	%Rec	1	12/29/2021 8:29:00 PM
EPA METHOD 300.0: ANIONS					Analyst: <b>JMT</b>
Chloride	6500	300	mg/Kg	100	1/4/2022 10:35:31 PM

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

Qualifiers:

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

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Date Reported: 1/7/2022

## Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Vertex Resources Services, Inc. Client Sample ID: BH21-16

 Project:
 Redhills SWD 1
 Collection Date: 12/22/2021 1:15:00 PM

 Lab ID:
 2112D85-011
 Matrix: SOIL
 Received Date: 12/28/2021 7:50:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE O	RGANICS				Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	12/30/2021 11:49:56 AM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	12/30/2021 11:49:56 AM
Surr: DNOP	81.3	70-130	%Rec	1	12/30/2021 11:49:56 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: mb
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	12/29/2021 9:47:00 PM
Surr: BFB	84.9	70-130	%Rec	1	12/29/2021 9:47:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: mb
Benzene	ND	0.023	mg/Kg	1	12/29/2021 9:47:00 PM
Toluene	ND	0.047	mg/Kg	1	12/29/2021 9:47:00 PM
Ethylbenzene	ND	0.047	mg/Kg	1	12/29/2021 9:47:00 PM
Xylenes, Total	ND	0.093	mg/Kg	1	12/29/2021 9:47:00 PM
Surr: 4-Bromofluorobenzene	79.2	70-130	%Rec	1	12/29/2021 9:47:00 PM
EPA METHOD 300.0: ANIONS					Analyst: <b>JMT</b>
Chloride	ND	60	mg/Kg	20	1/3/2022 5:40:49 PM

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

Qualifiers:

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

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Date Reported: 1/7/2022

#### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Vertex Resources Services, Inc. Client Sample ID: BH21-17

**Project:** Redhills SWD 1
 Collection Date: 12/22/2021 1:20:00 PM

 **Lab ID:** 2112D85-012
 Matrix: SOIL
 Received Date: 12/28/2021 7:50:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	Analyst: SB				
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	12/30/2021 12:21:49 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	12/30/2021 12:21:49 PM
Surr: DNOP	78.1	70-130	%Rec	1	12/30/2021 12:21:49 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: mb
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	12/29/2021 10:46:00 PM
Surr: BFB	84.0	70-130	%Rec	1	12/29/2021 10:46:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: mb
Benzene	ND	0.023	mg/Kg	1	12/29/2021 10:46:00 PM
Toluene	ND	0.047	mg/Kg	1	12/29/2021 10:46:00 PM
Ethylbenzene	ND	0.047	mg/Kg	1	12/29/2021 10:46:00 PM
Xylenes, Total	ND	0.093	mg/Kg	1	12/29/2021 10:46:00 PM
Surr: 4-Bromofluorobenzene	78.0	70-130	%Rec	1	12/29/2021 10:46:00 PM
EPA METHOD 300.0: ANIONS					Analyst: <b>JMT</b>
Chloride	ND	60	mg/Kg	20	1/3/2022 5:53:10 PM

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

Qualifiers:

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

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### Hall Environmental Analysis Laboratory, Inc.

WO#: **2112D85 07-Jan-22** 

**Client:** Vertex Resources Services, Inc.

**Project:** Redhills SWD 1

Sample ID: MB-64817 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 64817 RunNo: 84901

Prep Date: 1/3/2022 Analysis Date: 1/3/2022 SeqNo: 2987245 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-64817 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 64817 RunNo: 84901

Prep Date: 1/3/2022 Analysis Date: 1/3/2022 SeqNo: 2987246 Units: mg/Kg

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

Chloride 15 1.5 15.00 0 98.7 90 110

#### Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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### Hall Environmental Analysis Laboratory, Inc.

4.0

WO#: **2112D85 07-Jan-22** 

**Client:** Vertex Resources Services, Inc.

**Project:** Redhills SWD 1

Sample ID: <b>2112D85-011AMS</b>	SampT	ype: MS	6	Tes	tCode: <b>El</b>	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: BH21-16	Batch	ID: <b>64</b> 7	781	F	RunNo: 8	4875				
Prep Date: 12/29/2021	Analysis D	ate: 12	2/30/2021	9	SeqNo: 2	985746	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	8.9	44.60	0	101	39.3	155			
Surr: DNOP	3.4		4.460		75.4	70	130			
Sample ID: 2112D85-011AMSI	<b>S</b> ampT	ype: MS	SD	Tes	tCode: EI	PA Method	8015M/D: Die	esel Range	e Organics	
Sample ID: 2112D85-011AMSI Client ID: BH21-16		ype: <b>MS</b>			tCode: El		8015M/D: Did	esel Range	e Organics	
		ID: <b>64</b> 7	781	F		4875	8015M/D: Did	J	e Organics	
Client ID: BH21-16	Batch	ID: <b>64</b> 7	781 2/30/2021	F	RunNo: 8	4875		J	e Organics RPDLimit	Qual

Sample ID: LCS-64781	SampT	ype: <b>LC</b>	S	Tes	TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID: LCSS	Batch	n ID: <b>64</b>	781	F	RunNo: 8	4875				
Prep Date: 12/29/2021	Analysis D	Date: 12	2/30/2021	8	SeqNo: 2	985761	Units: mg/k	ζg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	42	10	50.00	0	84.6	68.9	135			
Surr: DNOP	4.1		5.000		82.4	70	130			

80.4

70

130

0

0

4.990

Sample ID: MB-64781	SampT	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID: PBS	Batch	n ID: <b>64</b>	781	F	RunNo: 8	4875				
Prep Date: 12/29/2021	Analysis D	oate: 12	2/30/2021	8	SeqNo: 2	985763	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.9		10.00		88.8	70	130			

Sample ID: LCS-64780	SampT	ype: <b>LC</b>	S	Tes	tCode: El	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: LCSS	Batch	ID: <b>64</b>	780	F	RunNo: 8	4903				
Prep Date: 12/30/2021	Analysis D	ate: 1/	3/2022	S	SeqNo: 2	986775	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	42	10	50.00	0	83.3	68.9	135			
Surr: DNOP	4.1		5.000		82.2	70	130			

#### Qualifiers:

Surr: DNOP

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

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### Hall Environmental Analysis Laboratory, Inc.

WO#: **2112D85** 

07-Jan-22

Client: Vertex Resources Services, Inc.

**Project:** Redhills SWD 1

Sample ID: MB-64780 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 64780 RunNo: 84903

Prep Date: 12/30/2021 Analysis Date: 1/3/2022 SeqNo: 2986777 Units: mg/Kg

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

Diesel Range Organics (DRO) ND 10

Motor Oil Range Organics (MRO) ND 50

Surr: DNOP 8.6 10.00 86.1 70 130

#### Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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#### Hall Environmental Analysis Laboratory, Inc.

WO#: 2112D85 07-Jan-22

**Client:** Vertex Resources Services, Inc.

**Project:** Redhills SWD 1

Sample ID: mb-64756 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 64756 RunNo: 84840

Prep Date: 12/28/2021 Analysis Date: 12/29/2021 SeqNo: 2984350 Units: mg/Kg

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

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 860 1000 86.1 70 130

Sample ID: Ics-64756 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 64756 RunNo: 84840

Prep Date: 12/28/2021 SeqNo: 2984351 Analysis Date: 12/29/2021 Units: mg/Kg

HighLimit Analyte Result PQL SPK value SPK Ref Val %REC LowLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 26 5.0 25.00 O 103 78.6 131 Surr: BFB 1100 1000 106 70 130

Sample ID: mb-64758 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 64758 RunNo: 84840

Prep Date: 12/28/2021 Analysis Date: 12/29/2021 SeqNo: 2984707 Units: mg/Kg

SPK value SPK Ref Val %REC LowLimit %RPD **RPDLimit** Analyte Result PQL HighLimit Qual Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 810 1000 81.4 70 130

Sample ID: Ics-64758 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 64758 RunNo: 84840

Prep Date: 12/28/2021 Analysis Date: 12/29/2021 SeqNo: 2984708 Units: mg/Kg

SPK value SPK Ref Val %REC %RPD **RPDLimit** Result PQL LowLimit HighLimit Qual Gasoline Range Organics (GRO) 24 5.0 97.5 25.00 78.6 131

Surr: BFB 960 1000 95.6 70 130

Sample ID: 2112D85-011ams SampType: MS TestCode: EPA Method 8015D: Gasoline Range

Client ID: BH21-16 Batch ID: 64758 RunNo: 84840

Prep Date: 12/28/2021 Analysis Date: 12/29/2021 SeqNo: 2984710 Units: mg/Kg

Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 20 4.6 0 61.3 23.00 85.0 114 Surr: BFB 940 920.0 103 70 130

Sample ID: 2112D85-011amsd TestCode: EPA Method 8015D: Gasoline Range SampType: MSD

Client ID: BH21-16 Batch ID: 64758 RunNo: 84840

Prep Date: SeqNo: 2984712 Units: mg/Kg 12/28/2021 Analysis Date: 12/29/2021

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

#### Qualifiers:

Value exceeds Maximum Contaminant Level

D Sample Diluted Due to Matrix

Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix interference

Analyte detected in the associated Method Blank

Estimated value

Analyte detected below quantitation limits

Sample pH Not In Range

RL Reporting Limit Page 16 of 19

## Hall Environmental Analysis Laboratory, Inc.

WO#: **2112D85** 

07-Jan-22

Client: Vertex Resources Services, Inc.

**Project:** Redhills SWD 1

Sample ID: 2112D85-011amsd SampType: MSD TestCode: EPA Method 8015D: Gasoline Range

Client ID: **BH21-16** Batch ID: **64758** RunNo: **84840** 

Prep Date: 12/28/2021 Analysis Date: 12/29/2021 SeqNo: 2984712 Units: mg/Kg

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	18	4.8	24.02	0	74.9	61.3	114	8.39	20	
Surr: BFB	930		960.6		96.3	70	130	0	0	

#### Qualifiers:

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

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### Hall Environmental Analysis Laboratory, Inc.

WO#: **2112D85 07-Jan-22** 

**Client:** Vertex Resources Services, Inc.

**Project:** Redhills SWD 1

Sample ID: <b>mb-64756</b>	SampT	Type: ME	BLK	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: PBS	Batc	h ID: <b>64</b>	756	F	tunNo: 8	4840				
Prep Date: 12/28/2021	Analysis D	Date: 12	2/29/2021	S	SeqNo: 2	984364	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.79		1.000		78.5	70	130			

Sample ID: Ics-64756	SampT	ype: <b>LC</b>	S	TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch	n ID: <b>64</b> 7	756	F	RunNo: 8	4840				
Prep Date: 12/28/2021	Analysis D	Date: 12	2/29/2021	S	SeqNo: 2	984365	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.87	0.025	1.000	0	87.5	80	120			
Toluene	0.86	0.050	1.000	0	86.2	80	120			
Ethylbenzene	0.87	0.050	1.000	0	86.7	80	120			
Xylenes, Total	2.5	0.10	3.000	0	84.8	80	120			
Surr: 4-Bromofluorobenzene	0.80		1.000		80.4	70	130			

Sample ID: <b>mb-64758</b>	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: PBS	Batcl	n ID: <b>64</b> 7	758	F	RunNo: 8	4840				
Prep Date: 12/28/2021	Analysis D	oate: 12	2/29/2021	8	SeqNo: 2	984742	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.77		1.000		77.5	70	130			

Sample ID: Ics-64758	SampT	ype: <b>LC</b>	S	TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch	n ID: <b>64</b> 7	758	F	RunNo: 8	4840				
Prep Date: 12/28/2021	Analysis D	ate: 12	2/29/2021	S	SeqNo: 2	984743	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.88	0.025	1.000	0	88.4	80	120			
Toluene	0.87	0.050	1.000	0	86.9	80	120			
Ethylbenzene	0.87	0.050	1.000	0	87.0	80	120			
Xylenes, Total	2.6	0.10	3.000	0	85.2	80	120			
Surr: 4-Bromofluorobenzene	0.80		1.000		79.6	70	130			

#### Qualifiers:

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

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## Hall Environmental Analysis Laboratory, Inc.

WO#: **2112D85** 

07-Jan-22

**Client:** Vertex Resources Services, Inc.

**Project:** Redhills SWD 1

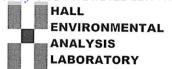
Sample ID: 2112D85-012ams	SampT	Гуре: <b>М</b> S	3	TestCode: EPA Method 8021B: Volatiles						
Client ID: BH21-17	Batcl	h ID: <b>64</b> 7	758	F	RunNo: 84	4854				
Prep Date: 12/28/2021	Analysis D	Date: 12	2/30/2021	8	SeqNo: 29	985924	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.76	0.024	0.9625	0	79.2	80	120			S
Toluene	0.75	0.048	0.9625	0	77.9	80	120			S
Ethylbenzene	0.74	0.048	0.9625	0	77.4	80	120			S
Xylenes, Total	2.2	0.096	2.887	0	75.9	80	120			S
Surr: 4-Bromofluorobenzene	0.74		0.9625		76.8	70	130			

Sample ID: 2112D85-012am	nsd SampT	Гуре: <b>М</b> \$	SD	Tes						
Client ID: BH21-17	Batcl	h ID: <b>64</b>	758	F	RunNo: 8					
Prep Date: 12/28/2021	Analysis D	Date: 12	2/30/2021	\$	SeqNo: 2	985926	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.79	0.024	0.9756	0	80.8	80	120	3.45	20	
Toluene	0.78	0.049	0.9756	0	79.7	80	120	3.64	20	S
Ethylbenzene	0.78	0.049	0.9756	0	80.2	80	120	4.92	20	
Xylenes, Total	2.3	0.098	2.927	0	78.3	80	120	4.48	20	S
Surr: 4-Bromofluorobenzene	0.79		0.9756		80.8	70	130	0	0	

#### Qualifiers:

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

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

Website: clients.hallenvironmental.com

## Sample Log-In Check List

Client Name:	Vertex Resources Services, Inc.	Work Order Nun	nber: 2112D85		RcptNo: 1	
Received By:	Tracy Casarrubias	12/28/2021 7:50:0	0 AM			
Completed By:	Tracy Casarrubias	12/28/2021 8:20:3	1 AM			
Reviewed By:	cu	12/28/4				
Chain of Cus	<u>tody</u>					
1. Is Chain of Co	ustody complete?		Yes 🗹	No 🗌	Not Present	
2. How was the	sample delivered?		Courier			
<u>Log In</u>						
3. Was an attem	npt made to cool the samples	?	Yes 🗸	No 🗌	NA 🗌	
4. Were all samp	oles received at a temperatur	e 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 test	(s)?	Yes 🗸	No 🗌		
7. Are samples (	except VOA and ONG) prope	erly preserved?	Yes 🗹	No 🗌		
8. Was preservat	tive added to bottles?		Yes	No 🗸	NA 🗆	
9. Received at lea	ast 1 vial with headspace <1	/4" for AQ VOA?	Yes	No 🗌	NA 🔽	
10, Were any sam	nple containers received brol	en?	Yes	No 🗸	# of preserved	
	ork match bottle labels?		Yes 🗸	No 🗌	bottles checked for pH: (<2 or >12 unle	ess noted)
	orrectly identified on Chain of	f Custody?	Yes 🗸	No 🗌	Adjusted?	,
	analyses were requested?		Yes 🗸	No 🗌		1
	ng times able to be met?  ustomer for authorization.)		Yes 🗸	No 🗆	Checked by: JA 12	28/21
Special Handli	ing (if applicable)					
15. Was client not	tified of all discrepancies with	this order?	Yes	No 🗌	NA 🗸	
Person I	Notified:	Date				
By Who	m:	Via:	eMail P	hone  Fax	☐ In Person	
Regardir	ng:					
16. Additional ren	*					
17. <u>Cooler Inforr</u>	mation	Seellisteet   Seellis	0.10			
Cooler No	Temp °C Condition 3.1 Good Y	Seal Intact Seal No	Seal Date	Signed By		

CONMENTAL ABORATORY OCD: 3/16/505, NM 87109	77:53 PM	Page 58 of 67
HALL ENVIRONMENT ANALYSIS LABORATC www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109 Tel. 505-345-3975 Fax 505-345-4107	A TEM	Remarks: CC: MCNce MP: ##
Turn-Around Time: Sidery  Standard Rush Project Name:  Rathills Simm ##   Project #:	AL No.	Time: Relinquished by: Received by: Via: Date Time Remarks:  Received by: Via: Date Time Remarks:  Received by: Via: Contract Date Time  Received by: Via: Contract Date Time
Client: Vertex Mailing Address: On the	QA/QC Package:         □ Standard       □ Level 4 (Full Validation)         Accreditation:       □ Az Compliance         □ NELAC       □ Other         □ EDD (Type)       □ Other	Date: Time: Relinquished by:  Date: Time: Relinquished by:  Date: Time: Relinquished by:  Date: Time: Relinquished by:

### **ATTACHMENT 4**



Client:	Cimarex Energy Company of Colorado	Inspection Date:	2/10/2022			
Site Location Name:	Red Hills Unit 1 SWD	Report Run Date:	2/28/2022 4:17 PM			
Client Contact Name:	Kyle Blevins	API #:				
Client Contact Phone #:	(575)441-6781					
Unique Project ID		Project Owner:				
Project Reference #		Project Manager:				
Summary of Times						
Arrived at Site	2/10/2022 9:00 AM					
Departed Site	2/10/2022 11:00 AM					
Field Notes						

9:10 Arrived on site and met up with Laci Luig from cimarex and no Scarborough drilling to drill for a GW bore.

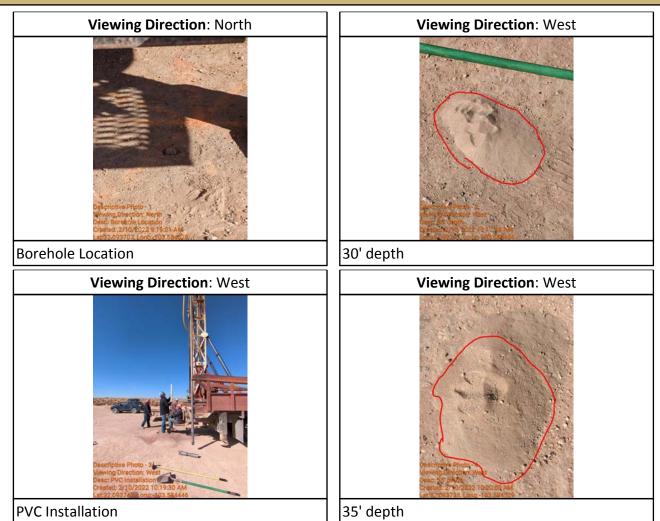
9:14 Signed Cimarex JSA

#### **Next Steps & Recommendations**

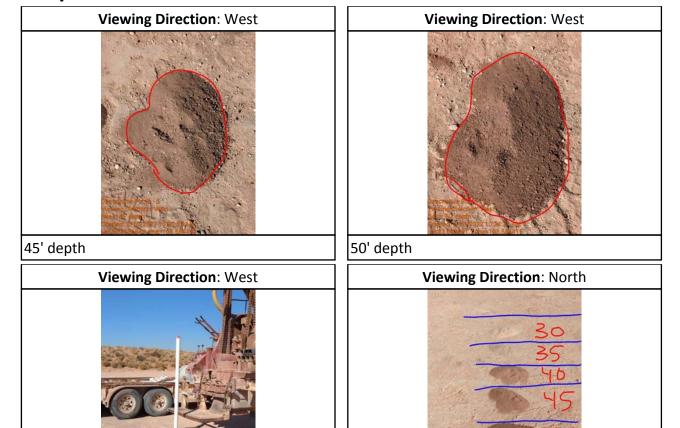
1 Digitize the drilling log and come back within 72 hours to see if a bailer pulls up water. Borehole was drilled to 55 feet.



#### **Site Photos**









#### **Daily Site Visit Signature**

**Inspector:** Mike Moffitt

Signature:



Client:	Cimarex Energy Company of Colorado	Inspection Date:	2/15/2022		
Site Location Name:	Red Hills Unit 1 SWD	Report Run Date:	2/28/2022 3:56 PM		
Client Contact Name:	Kyle Blevins	API #:			
Client Contact Phone #:	(575)441-6781				
Unique Project ID		Project Owner:			
Project Reference #		Project Manager:			
Summary of Times					
Arrived at Site	2/15/2022 11:30 AM				
Departed Site	2/15/2022 11:52 AM				
Field Notes					

#### Field Notes

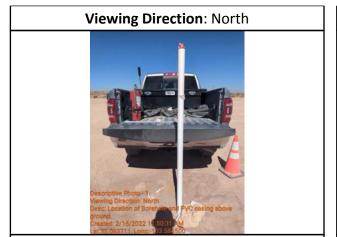
- 11:42 Arrived on site to put a bailer down the borehole to see if water moves through the screen and collected at depth.
- 11:43 Tied off the bailer with rope and a slip note around my hand for 65 feet worth of depth. this was to account for the 2 inch casing above ground.
- 11:44 Sent the bailer down hole from on top of my truck bed.
- 11:45 Moisture was felt on the hand line while pulling the bailer up. This was likely due to humidity within the casing and having been left to sit for over 72 hours plus.
- 11:46 Pulled the bailer up and only moisture but no water was found to be present.
- 11:49 Total depth of the well was measured with a tape and weight to be 55 feet BGS and 61 feet total. The additional footage was from the 6ft of PVC casing located above the hole. The driller did this to make the Borehole location known to the workers on the pad.

#### **Next Steps & Recommendations**

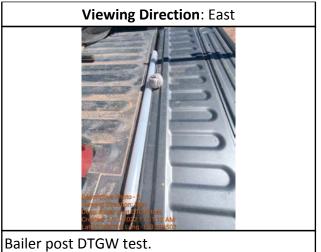
1 Water was not present at the bottom of the borehole as evidenced by the results of trying to bail the well. This location is ready for P & A. No further testing will be required. GW is not present at 55' feet BGS.



#### **Site Photos**



Location of Borehole and PVC casing above ground.





#### **Daily Site Visit Signature**

**Inspector:** Mike Moffitt

Signature: Signature

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 90790

#### **CONDITIONS**

Operator:	OGRID:
CIMAREX ENERGY CO. OF COLORADO	162683
600 N. Marienfeld Street	Action Number:
Midland, TX 79701	90790
	Action Type:
	[C-141] Release Corrective Action (C-141)

#### CONDITIONS

Created	Condition	Condition
Ву		Date
jnobui	Remediation Plan Approved with Conditions. Please excavate past 4' at location BH21-05 to complete vertical delineation and removal. Going forward, please include a site plan showing extent of excavation.	5/9/2022