Page 1 of 113

Incident ID	nAPP2302541480
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.
A scaled site and sampling diagram as described in 19.15.29.	11 NMAC
Photographs of the remediated site prior to backfill or photomust be notified 2 days prior to liner inspection)	s of the liner integrity if applicable (Note: appropriate OCD District office
☐ Laboratory analyses of final sampling (Note: appropriate OD	C District office must be notified 2 days prior to final sampling)
Description of remediation activities	
and regulations all operators are required to report and/or file certa may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and re- human health or the environment. In addition, OCD acceptance of	lations. The responsible party acknowledges they must substantially onditions that existed prior to the release or their final land use in OCD when reclamation and re-vegetation are complete.
Signature: MAsk Ritchia	Date: 4/13/2023
email: mritchie@silverbackexp.com	Telephone: 210-874-2406
OCD Only	
Received by: Robert Hamlet	Date: 8/31/2023
	y 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: Robert Hamlet	Date: 8/31/2023
Printed Name: Robert Hamlet	Title: Environmental Specialist - Advanced



## SITE CHARACTERIZATION, ASSESSMENT, REMEDIATION, AND **CLOSURE REPORT**

SHUDDE 27 CTB - LOAD LINE AREA 32.722668, -104.360797 UNIT D, SECTION 26, T18S-R26E **EDDY COUNTY, NEW MEXICO** NMOCD INCIDENT ID # nAPP2302538491 & nAPP2302541480

## PREPARED FOR:

SILVERBACK OPERATING ARTESIA DIVISION **108 S 4TH STREET ARTESIA, NEW MEXICO 88210** 

## PREPARED BY:

RANGER ENVIRONMENTAL SERVICES, LLC P.O. BOX 201179 **AUSTIN, TEXAS 78720** 

**APRIL 13, 2023** 

Mr. William Kierdorf, REM **Project Manager** 

Mr. Max Cook, CAPM (TX) **Senior Project Manager** 

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## **FORM C-141**

#### **FIGURES**

- Topographic Map
- Area Map
- DTGW Information Location Map
- National Wetland Inventory Map
- FEMA Floodplain Map
- Karst Topography Map
- Assessment Sample Location Map
- Final Excavation Area and Confirmation Sample Location Map

## **TABLES**

- Site Assessment Soil BTEX (EPA 8260), TPH (EPA 8015) & Chloride (SM 4500)
   Analytical Data
- Confirmation Sample Soil BTEX (EPA 8260), TPH (EPA 8015) & Chloride (SM 4500) Analytical Data

## **ATTACHMENTS**

- Attachment 1 Depth-to-Groundwater Data
- Attachment 2 Photographic Documentation
- Attachment 3 Laboratory Analytical Reports
- Attachment 4 NMOCD Correspondence



SITE CHARACTERIZATION, ASSESSMENT, REMEDIATION, AND CLOSURE REPORT SHUDDE 27 CTB – LOAD LINE AREA 32.722668, -104.360797 EDDY COUNTY, NEW MEXICO NMOCD INCIDENT ID # nAPP2302538491 & nAPP2302541480

#### 1.0 SITE LOCATION AND BACKGROUND

The Shudde 27 CTB (Site) is located on private property, approximately 8.5 miles south-southeast of Artesia, within Eddy County, New Mexico. The Site is situated in Unit D, Section 26, T18S-R26E at GPS coordinates 32.722668, -104.360797.

On January 13, 2023, a release was discovered at the Site originating from a water load line located on the southern portion of the facility pad. A control valve on the water load line was inadvertently left open resulting in the release of approximately 20 barrels (bbls) of produced water. Upon discovery the valve was closed, and a vacuum truck was dispatched to the location to recover all available fluids. On January 19, 2023, an additional release was discovered at the Site due to the valve on the water load line being left open resulting in the release of approximately 15 bbls. Upon discovery of the additional release, a vacuum truck was dispatched to the location to recover all available fluids. Based on the location of the releases, the areas impacted by the incidents were noted to share the same approximate footprint on the southern extent of the facility pad and immediately south of the facility boundary. Due to the volume and nature of the releases the incidents were reported to the New Mexico Oil Conservation Division (NMOCD) (NMOCD Incident # nAPP2302538491 and nAPP2302541480).

Silverback Operating (Silverback) has engaged Ranger Environmental Services, LLC (Ranger) to assist in the remediation efforts at the Site. On January 31, 2023, Ranger personnel and representatives of Silverback conducted an initial assessment of the impacted area which included the collection of soil samples for laboratory analysis. Subsequently, remedial efforts were completed to bring the impacted areas into compliance with NMAC 19.15.29. Due to the shared impact area from the releases, the two incidents were addressed in conjunction with one another. The following report has been prepared to provide details of the site characterization, site assessment, and remedial actions undertaken to address the impacts from the releases.

The previously submitted Initial C-141 Form Release Notifications are attached. Additionally, Site Assessment/Characterization and Closure sections of Form C-141, are attached. A Topographic Map and Area Map noting the location of the Site and surrounding areas, and site maps illustrating Site features and sampling locations, are provided in the Figures section.

#### 2.0 SITE CHARACTERIZATION

## 2.1 Depth-to-Groundwater

To determine the depth-to-groundwater in the vicinity of the Site, data available from the U.S. Geological Survey (USGS) and the New Mexico Office of the State Engineer (NMOSE) was reviewed. Based upon the reviewed information, one water well (RA 10940) was identified within a half-mile of the Site. Upon review of the water well data, depth-to-groundwater in the well is documented to be approximately 75 feet below ground surface (bgs). The data is noted to be within the NMOCD acceptable distance and time-frame criteria.

Based upon the reviewed information, the depth-to-groundwater in the area of the Site appears to be approximately 75 feet bgs. Depth-to-groundwater information that was reviewed as part of this assessment is attached.

## 2.2 Wellhead Protection Area

Based upon the USGS and NMOSE information, one water source (water well RA 10490) was identified within a half-mile of the Site.

Upon review of the National Wetland Inventory, the impacted area is not within 300 feet of a mapped feature.

The Site and impacted area are outside of the FEMA 100-year flood plain and fall in the area of minimal flood hazard.

The Site area is within an area of "Medium Karst" probability and is noted to be immediately adjacent to an area of "Low Karst" probability.

## 2.3 <u>Distance to Nearest Significance Watercourse</u>

Based upon available online resources, no significant water courses are located within a half-mile of the site.

## 2.4 Closure Criteria

Based upon the Site characterization details, and per NMAC 19.15.29.12, the Site was remediated to Table 1 19.15.29.12 NMAC Table 1 (groundwater 51-100 feet) criteria (Table 1 Closure Criteria). Additionally, the remediation activities were conducted to bring the area into compliance with the Restoration, Reclamation and Re-Vegetation Criteria (Restoration Criteria) detailed in NMAC 19.15.29.13. The regulatory criteria are summarized below:

REGULATORY STANDARD	CHLORIDE	TPH (GRO+DRO +MRO)	TPH (GRO+DRO)	BTEX	BENZENE
19.15.29.12 NMAC Table 1 Closure Criteria for Soils Impacted by a Release (GW 51'-100')	10,000	2,500	1,000	50	10
19.15.29.13 NMAC Restoration, Reclamation and Re-Vegetation (Soils 0'-4')	600	100*		50*	10*

All Values Presented in Parts Per Million (mg/Kg)

## 3.0 SITE ASSESSMENT, REMEDIATION, AND CONFIRMATION SAMPLING

## 3.1 January 31, 2023 – Site Assessment

On January 31, 2023, Ranger personnel and representatives of Silverback completed assessment activities in areas impacted by both releases. The assessment process included the installation of excavation test holes and the collection of soil samples for laboratory analysis.

During the January 31, 2023 assessment, a total of six test excavations (TH-1 through TH-6) were completed. The test excavations were completed to a maximum depth of approximately four feet bgs. During the test hole installation process, field screening of the encountered soils were analyzed by Ranger personnel at the surface and at approximate one-foot intervals using an organic vapor monitor (OVM) and a field chloride titration kit to assist in evaluating soil conditions and/or levels of impacts in the area.

In order to document site conditions, a minimum of two soil samples were collected for laboratory analysis from each test hole location. A total of 13 samples were collected from the area during the January 31, 2023 site assessment activities. Upon collection, the soil samples were submitted to Cardinal Laboratories in Hobbs, New Mexico for analysis of total petroleum hydrocarbons (TPH) using EPA Method 8015; benzene, toluene, ethylbenzene, and xylenes (BTEX) using EPA Method 8021; and, total chloride using SM 4500. The samples were collected and managed using standard QA/QC and chain-of-custody procedures.

The initial assessment soil sample analytical results are summarized in the attached table. A copy of the laboratory analytical report is also attached.

## 3.2 Site Remediation and Confirmation Sampling

In order to address the impacts at the Site and bring the location into compliance with NMAC 19.15.29, soil removal operations were completed at the Site in March 2023. Based on the information collected during the Site assessment activities, initial removal operations were completed to depths and boundaries anticipated to be within the closure criteria. During the excavation process, Ranger personnel collected field readings utilizing an OVM and field chloride titration kit to guide the excavation boundaries and depths.

Upon completion of the soil removal operations, the excavated area was irregular in shape and was documented to have maximum dimensions of approximately 125 feet by 107 feet. The

<sup>\*</sup>Value derived from the State of New Mexico Energy, Minerals and Natural Resources Department document Procedures for the Implementation of the Spill Rule (19.15.29 NMAC) dated September 6, 2019.

excavation area was completed to depths varying from approximately one to a maximum of four feet bgs.

To confirm that the excavated areas had been completed to appropriate boundaries, cleanup confirmation soil samples were collected as five-part composite samples in accordance with NMAC 19.15.29.12, with each sample representing less than 200 square feet. Cleanup confirmation soil sampling activities were conducted on March 21, 2023. Prior to the cleanup confirmation sampling event, notice was provided to the NMOCD in accordance with NMAC 19.15.29.12(D). A copy of the notification is attached.

Upon collection, all cleanup confirmation soil samples were submitted to Cardinal Laboratories in Hobbs, New Mexico for TPH, BTEX, and, total chloride analysis using the aforementioned laboratory methods. The samples were collected and managed using standard QA/QC and chain-of-custody procedures.

A Final Excavation and Confirmation Sample Location Map depicting the final excavation boundaries and the cleanup confirmation sample locations is attached.

## 3.3 Final Confirmation Sample Results

Upon review of the cleanup confirmation laboratory sample results, all areas have been documented to be in attainment of the Restoration, Reclamation and Re-Vegetation criteria detailed in NMAC 19.15.29.13 and/or NMAC 19.15.9.12 Table 1 (DTGW 51'-100') criteria. A comprehensive sample results table summarizing the laboratory analytical results for the cleanup confirmation soil samples attached. A copy of the laboratory analytical report including chain-of-custody documentation is also attached.

## 3.4 Waste Disposal

All soils generated during the remedial excavation activities were transported and disposed of at Lea Land disposal facility in Lea County, New Mexico.

## 4.0 SITE CLOSURE

## 4.1 Site Backfill & Re-seeding

Based on the cleanup confirmation soil sample results, the excavated area will be backfilled with clean fill material in accordance with NMAC 19.15.29.12 and NMAC 19.15.29.13. The surface portion of the on-pad impact/remediation area will be completed with caliche pad material. Revegetation efforts in the off-pad impact/remediation area will be completed in accordance with NMAC 19.15.29.13.

## 4.2 Closure Request

Based on the analytical results for the cleanup confirmation soil samples, the site has been properly addressed pursuant to NMAC 19.15.29 and Silverback respectfully requests closure of the incident. A final C-141 form is attached.

Page 8 of

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	nAPP2302538491
District RP	
Facility ID	
Application ID	

## **Release Notification**

Responsible Party Silverback Operating				OGRID	330968	
Contact Name Mark Ritchie				Contact	Telephone 210-874-2406	
Contact email mritchie@silverbackexp.com			.com	Incident	Incident # (assigned by OCD)	
			tesia, NM 8821	11		
			Location	of Release	Source	
atitude 32	.722668	3		Longitude	, -104.360797	
iiiude			(NAD 83 in dec	imal degrees to 5 dec	cimal places)	
ite Name St	nudde 27 (	СТВ	•	Site Type	Central Tank Battery	
		1-13-2023	**************************************	API# (if a	the Manual Property of the Control o	
Unit Letter	Section	Township	Range	Co	unty	
D	26	18S	26E		ddy	
irrace Owne.	~				R R COMPANY, INC & SCHERTZ, MORRIS E	
	<u>Materia</u>	l(s) Released (Select al	Nature and	Volume of	Release	
Crude Oi	<u>Materia</u>	l(s) Released (Select al Volume Release	Nature and	Volume of	Release  fic justification for the volumes provided below)  Volume Recovered (bbls)	
Crude Oi	<u>Materia</u>	l(s) Released (Select al Volume Release Volume Release	Nature and  I that apply and attach d (bbls) d (bbls) 20	l Volume of	fic justification for the volumes provided below)  Volume Recovered (bbls)  Volume Recovered (bbls) 20	
Crude Oi	<u>Materia</u>	l(s) Released (Select al Volume Release Volume Release Is the concentrat	Nature and  I that apply and attach d (bbls) d (bbls) 20 ion of dissolved cl	l Volume of	Release  fic justification for the volumes provided below)  Volume Recovered (bbls)	
Crude Oi	Materia l Water	l(s) Released (Select al Volume Release Volume Release	Nature and that apply and attach d (bbls) d (bbls) 20 ion of dissolved cl >10,000 mg/l?	l Volume of	fic justification for the volumes provided below)  Volume Recovered (bbls)  Volume Recovered (bbls) 20	
Crude Oi	Materia l Water	l(s) Released (Select al Volume Release Volume Release Is the concentral produced water	Nature and I that apply and attach d (bbls) d (bbls) 20 ion of dissolved cl >10,000 mg/l? d (bbls)	l Volume of	Release  fic justification for the volumes provided below)  Volume Recovered (bbls)  Volume Recovered (bbls) 20  Yes \( \square \) No	
Crude Oi Produced Condense	Materia Water	l(s) Released (Select al Volume Release Volume Release Is the concentral produced water Volume Release	Nature and I that apply and attach d (bbls) d (bbls) 20 ion of dissolved cl >10,000 mg/l? d (bbls)	l Volume of	TRelease  fic justification for the volumes provided below)  Volume Recovered (bbls)  Volume Recovered (bbls) 20  Yes No  Volume Recovered (bbls)	

Form C-141 Page 2

## State of New Mexico Oil Conservation Division

Incident ID	nAPP2302538491
District RP	
Facility ID	1
Application ID	

Was this a major	If YES, for what reason(s) does the respon	sible party consider this a major release?
release as defined by 19.15.29.7(A) NMAC?		
19.13.29.7(11) 144110.		1
Yes No	5 914	
	· · · · · · · · · · · · · · · · · · ·	5.2
		*
If YES, was immediate no	otice given to the OCD? By whom? To wh	om? When and by what means (phone, email, etc)?
4		•
3 -		
3	Initial Ro	esponse
The responsible	party must undertake the following actions immediatel	y unless they could create a safety hazard that would result in injury
The responsible j		
The source of the rele	ease has been stopped.	
☐ The impacted area ha	s been secured to protect human health and	the environment.
Released materials ha	ave been contained via the use of berms or contained via the use of the use o	likes, absorbent pads, or other containment devices.
All free liquids and re	ecoverable materials have been removed an	d managed appropriately.
If all the actions describe	d above have <u>not</u> been undertaken, explain	why:
Standing fluid was r	emoved so there was no need to	contain the released material, and release was
		would have prevented egress in an emergency
event.		
- 4		
Per 19.15.29.8 B. (4) NM	IAC the responsible party may commence r	emediation immediately after discovery of a release. If remediation
has begun, please attach	a narrative of actions to date. If remedial	efforts have been successfully completed or if the release occurred blease attach all information needed for closure evaluation.
I hereby certify that the info	rmation 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 noti	fications and perform corrective actions for releases which may endanger
		OCD does not relieve the operator of liability should their operations have at to groundwater, surface water, human health or the environment. In
addition, OCD acceptance o		responsibility for compliance with any other federal, state, or local laws
and/or regulations.	Ditabia	LICE Manager
Printed Name: IVIAI'K	Ritchie	Title: HSE Manager
Signature: Par	Whi	Date: 1/25/2023
email: mritchie@s	silverbackexp.com	Telephone: 210-874-2406
	4 _	
OCD Only		
	lyn Harimon	01/30/2023
Received by:		Date:
í l		



Volume Justification Sheet - Silverback Form 018

## **Volume Justification**

This form is to be used to convey justification of spill volumes in the event of a release. Clearly indicate by calculations or description in the space provided below.

Justification: Run ticket from water hauler who removed standing fluid showing 20bbls.

1)	1-13- ofuel Pady lo RATE	2003 CHARGE
BBLS BBLS BBLS BBLS BBLS GLNS Durs & hos.	RATE	CHARGE
BBLS BBLS BBLS 126. GLNS Durs 6 hrs.	RATE .90	CHARGE
BBLS 120. GLNS Durs 6 hrs.	.90	CHARGE
BBLS 120. GLNS Durs 6 hrs.		570=
BBLS 126. GLNS Durs 6 hrs.		2000
GLNS ours 6 hrs.		5705
GLNS ours 6 hrs.	9,-a	2000
	9,-a	570=
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	rfv	_
☐ Pump Truck	Vacuu	ım Truck
Arms to participate of the second		
	Pump Truck	

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 179572

## **CONDITIONS**

Operator:	OGRID:
Silverback Operating II, LLC	330968
IH10 West, Suite 201	Action Number:
San Antonio, TX 78257	179572
	Action Type:
	[C-141] Release Corrective Action (C-141)

#### CONDITIONS

Created By	Condition	Condition Date
jharimor	None	1/30/2023

	Page 13 of 11	13
Incident ID	nAPP2302538491	
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?	~75'_(ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ⊠ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ⊠ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ⊠ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ⊠ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ⊠ 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?	☐ 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 <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 ver- contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	rtical extents of soil
Characterization Report Checklist: Each of the following items must be included in the report.	
<ul> <li>Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring well Field data</li> <li>Data table of soil contaminant concentration data</li> <li>Depth to water determination</li> <li>Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release</li> <li>Boring or excavation logs</li> <li>Photographs including date and GIS information</li> </ul>	lls.

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.

Topographic/Aerial maps

□ Laboratory data including chain of custody

Received by OCD: 4/13/2023 3:32:54 PM Form C-141 State of New Mexico Page 4 Oil Conservation Division

	Page 14 of 11	3
Incident ID	nAPP2302538491	
District RP		
Facility ID		
Application ID		

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: Mark Ritchie Title: HSE Manager \_\_\_\_\_ Date: <u>4/13/2023</u> Signature: MArk Ritchia mritchie@silverbackexp.com Telephone: \_ 210-874-2406 email: **OCD Only** Jocelyn Harimon Date: 04/13/2023 Received by: \_\_\_

Received by OCD: 4/13/2023 3:32:54 PM Form C-141 State of New Mexico Page 6 Oil Conservation Division

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Incident ID nAPP2302538491

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.
A scaled site and sampling diagram as described in 19.15.29.	11 NMAC
Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	s of the liner integrity if applicable (Note: appropriate OCD District office
☐ Laboratory analyses of final sampling (Note: appropriate OD	C District office must be notified 2 days prior to final sampling)
Description of remediation activities	
and regulations all operators are required to report and/or file certa may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and rehuman health or the environment. In addition, OCD acceptance of compliance with any other federal, state, or local laws and/or regularestore, reclaim, and re-vegetate the impacted surface area to the coaccordance with 19.15.29.13 NMAC including notification with 19.15.29.13 NMAC including notific	lations. The responsible party acknowledges they must substantially onditions that existed prior to the release or their final land use in OCD when reclamation and re-vegetation are complete.
Printed Name: Mark Ritchie	
Signature: MArk Ritchis	Date:
email: mritchie@silverbackexp.com	Telephone: 210-874-2406
OCD Only	
Received by:	Date: <u>04/13/2023</u>
	y 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:	Date:
Printed Name:	Title:

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	nAPP2302541480
District RP	
Facility ID	
Application ID	

			Resp	onsible Part	<b>y</b> . ,
Responsible	Party Silver	back Operating		OGRID 3	30968
Contact Nam				Contact T	Celephone 210-874-2406
		@silverbackexp	.com	Incident #	(assigned by OCD)
		108 S. 4th st Ar		1 .	
			Location	of Release S	ource
Latitude 32	.722668	8		T	-104.360797
Latitude			(NAD 83 in dec	Longitude imal degrees to 5 deci	imal places)
Site Name Sh	nudde 27 (	CTR		Site Type	Central Tank Battery
Date Release				API# (if ap	
=	- M-19.	1 10 2020			
Unit Letter	Section	Township	Range	Cou	nty
D	26	18\$	26E	Ed	dy
Surface Owner	r State	☐ Federal ☐ Tr	ibal 🔳 Private (λ	Jame: HINKLE, R	R COMPANY, INC & SCHERTZ, MORRIS E
Juliuse Swille	<u> </u>		`		
			Nature and	Volume of	Release
	Materia	l(s) Released (Select al	l that apply and attach	calculations or specifi	c justification for the volumes provided below)
Crude Oil	1	Volume Release	d (bbls)		Volume Recovered (bbls)
	Water	Maluma Dalagas			(00.0)
Produced	:	voiume Keiease	d (bbls) 15		Volume Recovered (bbls) 15
Produced	<u> </u>	Is the concentrat	ion of dissolved ch	nloride in the	
Produced  Condensa	nte		ion of dissolved cl >10,000 mg/l?	nloride in the	Volume Recovered (bbls) 15
		Is the concentrat produced water >	ion of dissolved ch >10,000 mg/l? d (bbls)	nloride in the	Volume Recovered (bbls) 15  Yes No
☐ Condensa	as	Is the concentrat produced water > Volume Release Volume Release	ion of dissolved ch >10,000 mg/l? d (bbls)	· · · · · · · · · · · · · · · · · · ·	Volume Recovered (bbls) 15  Yes No  Volume Recovered (bbls)
Condensa	as	Is the concentrat produced water > Volume Release Volume Release	ion of dissolved ch >10,000 mg/l? d (bbls) d (Mcf)	· · · · · · · · · · · · · · · · · · ·	Volume Recovered (bbls) 15  Yes No  Volume Recovered (bbls)  Volume Recovered (Mcf)
Condensa	ease Locke	Is the concentrat produced water? Volume Release Volume/Weight	ion of dissolved ch >10,000 mg/l? d (bbls) d (Mcf) Released (provide	units) ne had enoug	Volume Recovered (bbls) 15  Yes No  Volume Recovered (bbls)  Volume Recovered (Mcf)  Volume/Weight Recovered (provide units)  In room to partially open and water hauler
Condensa Natural G	ease Locke	Is the concentrat produced water? Volume Release Volume Release Volume/Weight	ion of dissolved ch >10,000 mg/l? d (bbls) d (Mcf) Released (provide	units) ne had enoug	Volume Recovered (bbls) 15  Yes No  Volume Recovered (bbls)  Volume Recovered (Mcf)  Volume/Weight Recovered (provide units)  In room to partially open and water hauler
Condensa Natural G	ease Locke	Is the concentrat produced water? Volume Release Volume/Weight	ion of dissolved ch >10,000 mg/l? d (bbls) d (Mcf) Released (provide	units) ne had enoug	Volume Recovered (bbls) 15  Yes No  Volume Recovered (bbls)  Volume Recovered (Mcf)  Volume/Weight Recovered (provide units)  In room to partially open and water hauler

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## State of New Mexico Oil Conservation Division

Incident ID	nAPP2302541480
District RP	28
Facility ID	1 119
Application ID	lan gardet

Was this a major	If YES, for what reason(s) does the respon	sible party consider this a major release?
release as defined by 19.15.29.7(A) NMAC?	1 2	
Yes No		
Tes III No		
	1.	
If YES, was immediate n	otice given to the OCD? By whom? To wh	om? When and by what means (phone, email, etc)?
1 /		*
	Initial R	esponse
The responsible	party must undertake the following actions immediated	y unless they could create a safety hazard that would result in injury
The source of the rele	ease has been stopped.	
	is been secured to protect human health and	the environment.
Released materials ha	ave been contained via the use of berms or o	ikes, absorbent pads, or other containment devices.
All free liquids and re	ecoverable materials have been removed an	d managed appropriately.
If all the actions describe	d above have <u>not</u> been undertaken, explain	why:
		contain the released material, and release was
contained mostly to event.	the lease road where fencing off	would have prevented egress in an emergency
event.		
(1 ≤ n − 15)		
Per 19.15.29.8 B. (4) NM	IAC the responsible party may commence r	emediation immediately after discovery of a release. If remediation
has begun, please attach	a narrative of actions to date. If remedial	efforts have been successfully completed or if the release occurred lease attach all information needed for closure evaluation.
		best of my knowledge and understand that pursuant to OCD rules and
		fications and perform corrective actions for releases which may endanger CD does not relieve the operator of liability should their operations have
	경기 :	at to groundwater, surface water, human health or the environment. In responsibility for compliance with any other federal, state, or local laws
and/or regulations.		
Printed Name: Mark	Ritchie	Title: HSE Manager
Signature: Mark M	wohi	Date: 1/25/2023
email: mritchie@s	silverbackexp.com	Telephone: 210-874-2406
OCD Only	n Harimon	01/30/2023
Received by:	n Harimon	Date:



Volume Justification Sheet - Silverback Form 018

## **Volume Justification**

This form is to be used to convey justification of spill volumes in the event of a release. Clearly indicate by calculations or description in the space provided below.

Justification: Run ticket from water hauler who removed standing fluid showing 15bbls.

PO Box 1599 Artesia, New Mexico, 88211  company: (575) 736-7468  cease: Chilled Company		TAN	308903
Rig #: AFE #:	Ordered By:	1-19-20	
FW Ticket #	County:	2669 60	All pla
BW Ticket #	BBLS	RATE	CHARGE
SWD Ticket # Nove	BBLS		4
SWD Ticket # N° xo C	BBLS /20		
Start Time 9:00 empl pm End Time 3:00 am / mm	GLNS		
DESCRIPTION	Total Hours 6 hrs		
	Approximate and the second		
all the mess in the ground	ean		
We recovered 15 bbs ground	the		
A STATE OF THE PARTY OF THE PAR	50050		
	C DONA SUBTOTA		
to too all:	TA	×	
Driver: Danel Flaharin	Trk#: 68 тот	AL	

Approved by: Mark Ritchie	<b>Date:</b> 1/25/2023
---------------------------	------------------------

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 179577

## **CONDITIONS**

Operator:	OGRID:
Silverback Operating II, LLC	330968
IH10 West, Suite 201	Action Number:
San Antonio, TX 78257	179577
	Action Type:
	[C-141] Release Corrective Action (C-141)

#### CONDITIONS

Created By	Condition	Condition Date
jharimor	None	1/30/2023

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Incident ID	nAPP2302541480	
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?	~75' (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ⊠ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ⊠ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ⊠ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ⊠ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ⊠ 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?	☐ 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 <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 ver contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	tical extents of soil
Characterization Report Checklist: Each of the following items must be included in the report.	
<ul> <li>         \infty         Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring well         \infty         Field data     </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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Facility ID	
Application ID	

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: Mark Ritchie \_\_\_\_\_ Title: HSE Manager

Signature: MArk Ritchis	Date: <u>4/13/2023</u>
email: mritchie@silverbackexp.com	Telephone: 210-874-2406
OCD Only	
Received by:	Date:

Received by OCD: 4/13/2023 3:32:54 PM Form C-141 State of New Mexico Page 6 Oil Conservation Division

Incident ID nAPP2302541480
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.

A scaled site and sampling diagram as described in 19.15.29.1	1 NMAC
Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	of the liner integrity if applicable (Note: appropriate OCD District office
☐ Laboratory analyses of final sampling (Note: appropriate ODC	District office must be notified 2 days prior to final sampling)
Description of remediation activities	
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of a should their operations have failed to adequately investigate and remuman health or the environment. In addition, OCD acceptance of a compliance with any other federal, state, or local laws and/or regulativestore, reclaim, and re-vegetate the impacted surface area to the conformation accordance with 19.15.29.13 NMAC including notification to the OC Printed Name:  Mark Ritchie  Signature:  MArk Pitchia	rediate contamination that pose a threat to groundwater, surface water, C-141 report does not relieve the operator of responsibility for ions. The responsible party acknowledges they must substantially editions that existed prior to the release or their final land use in CD when reclamation and re-vegetation are complete.  Title: HSE Manager
OCD Only	
Received by:	Date:
	of liability should their operations have failed to adequately investigate and vater, human health, or the environment nor does not relieve the responsible or regulations.
Closure Approved by:	Date:
Printed Name:	Title:

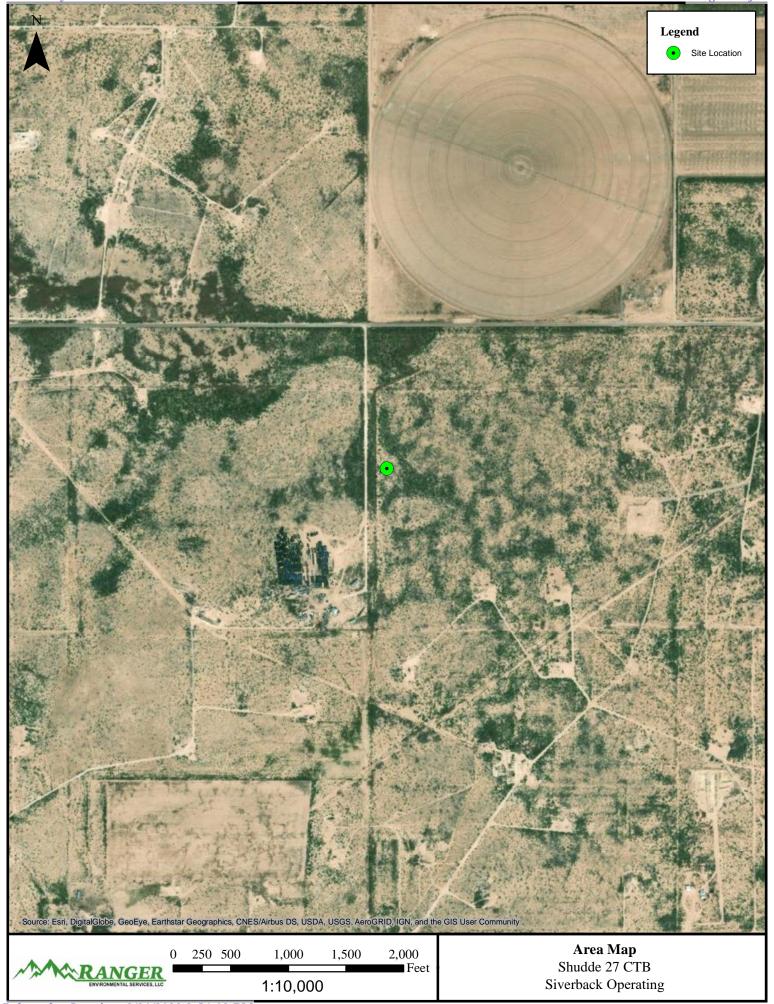
## **FIGURES**

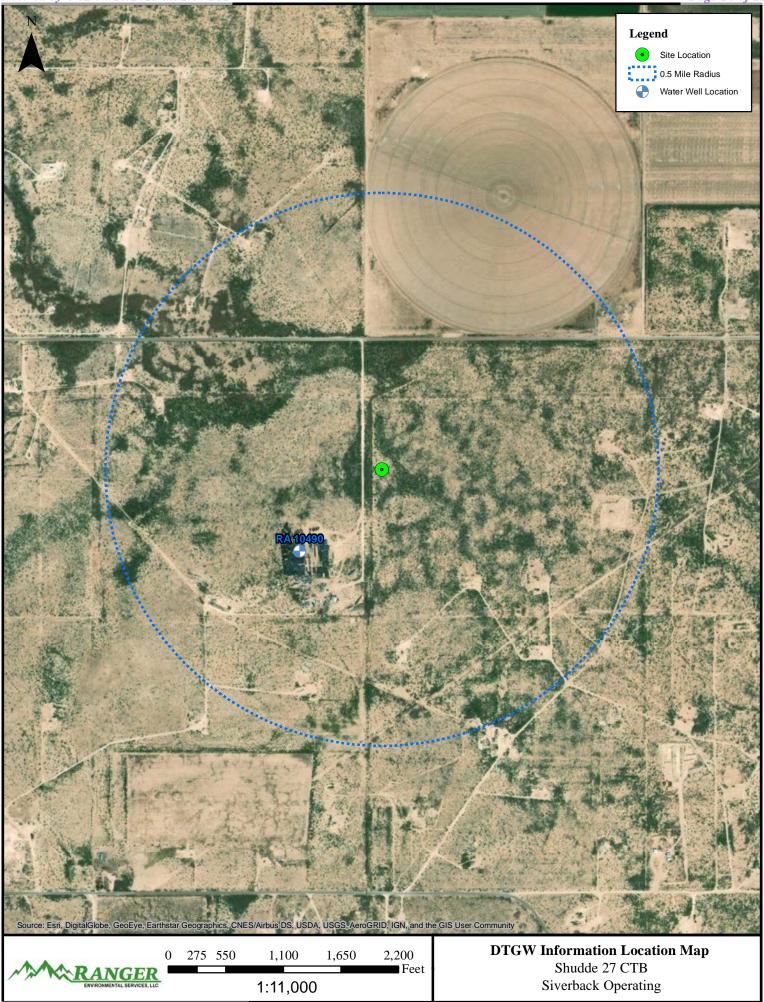
Topographic Map
Area Map
DTGW Information Location Map
National Wetland Inventory Map
FEMA Floodplain Map
Karst Topography Map
Assessment Sample Location Map
Final Excavation Area and Confirmation Sample Location Map

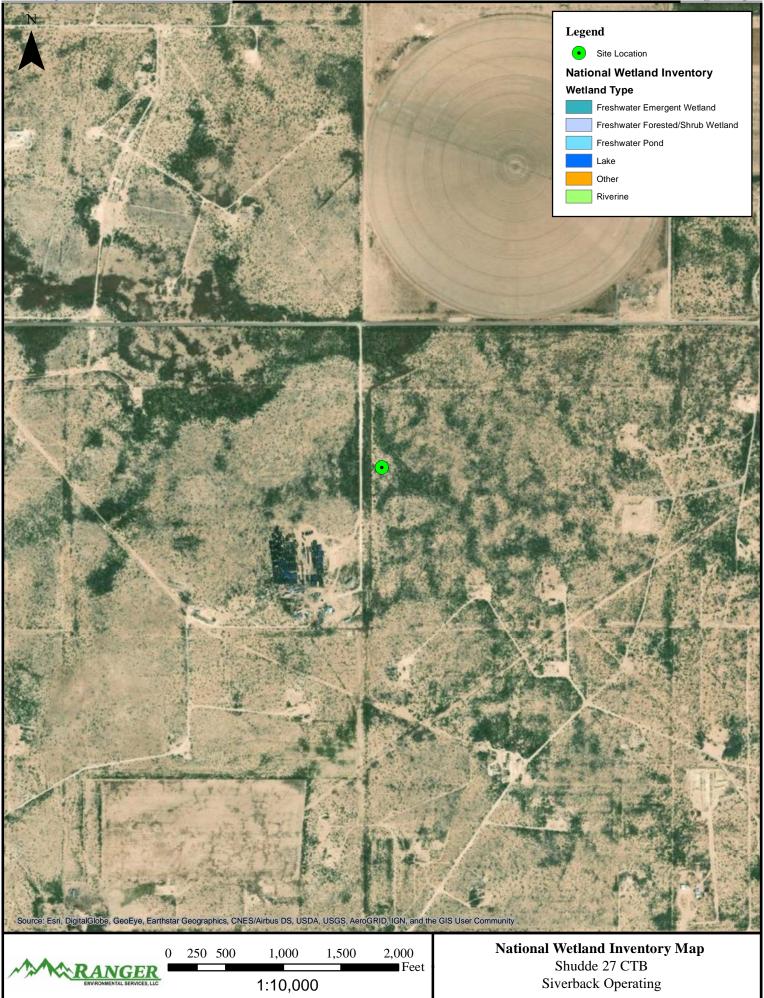
O 600 1,200 2,400 3,600 4,800 Shudde 27 CTB

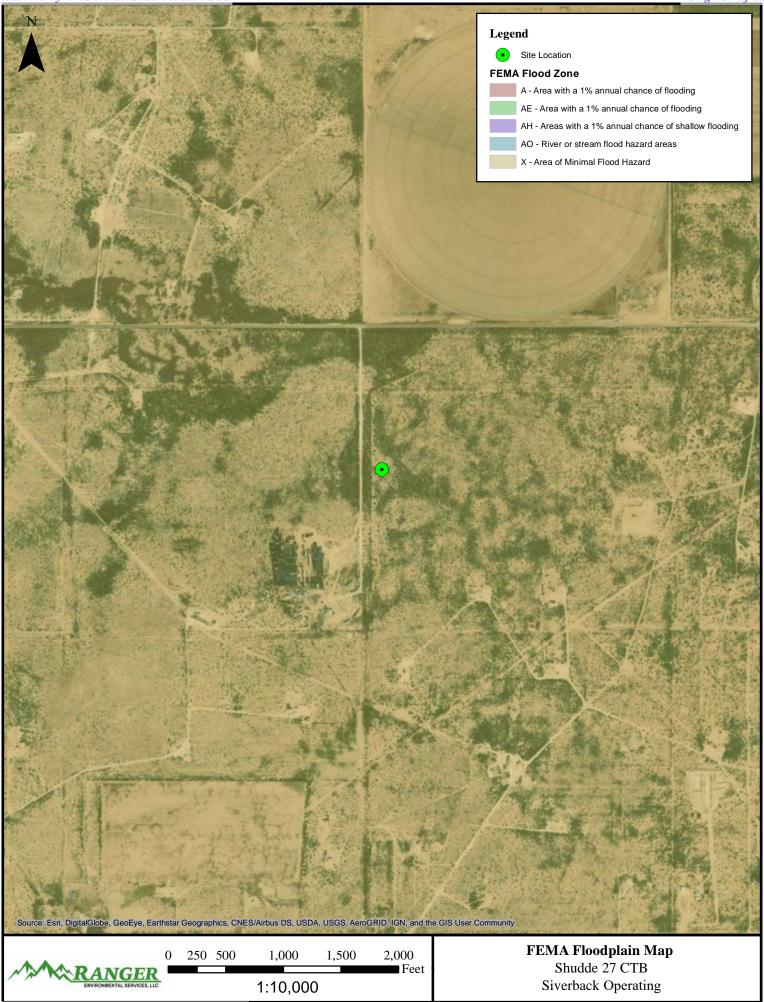
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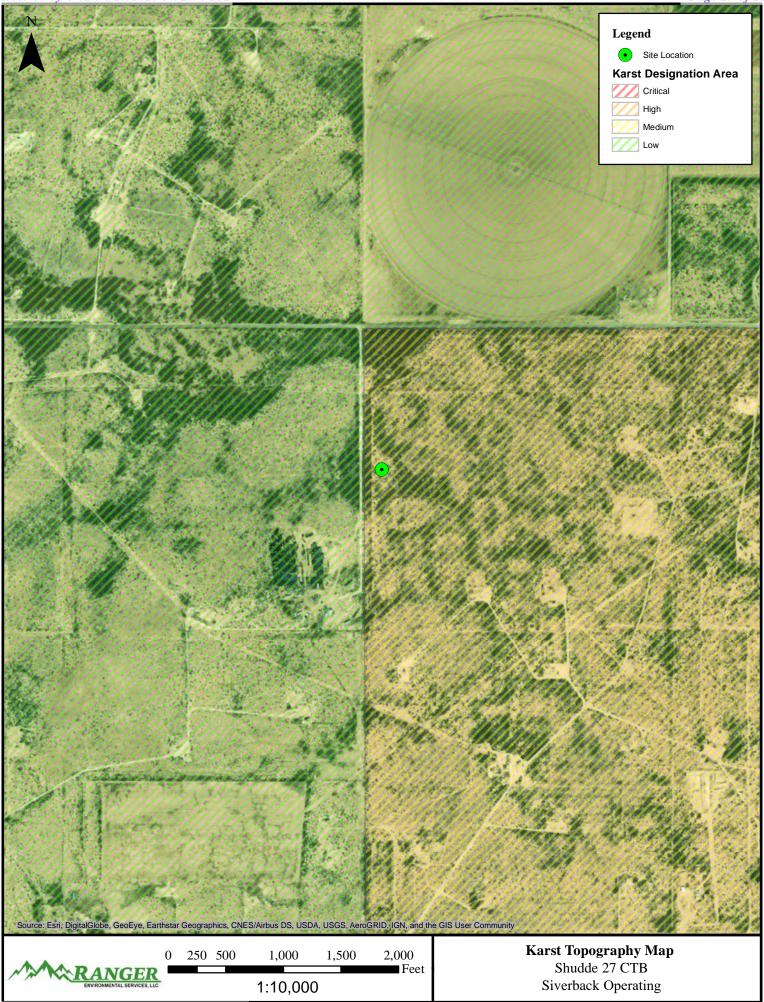
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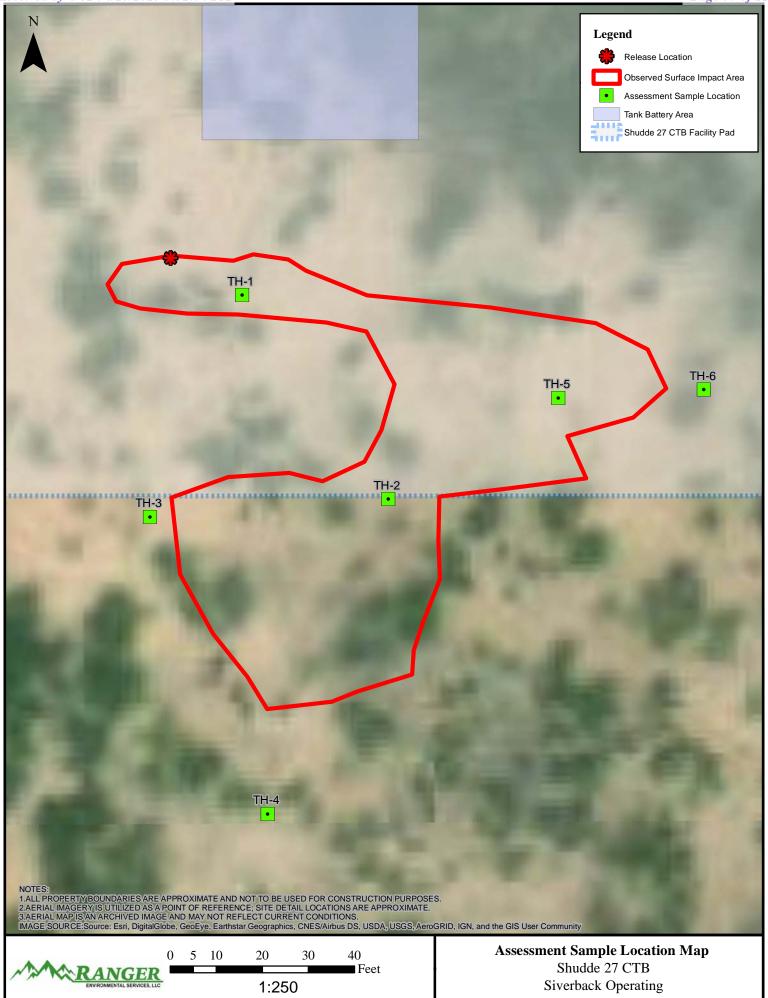


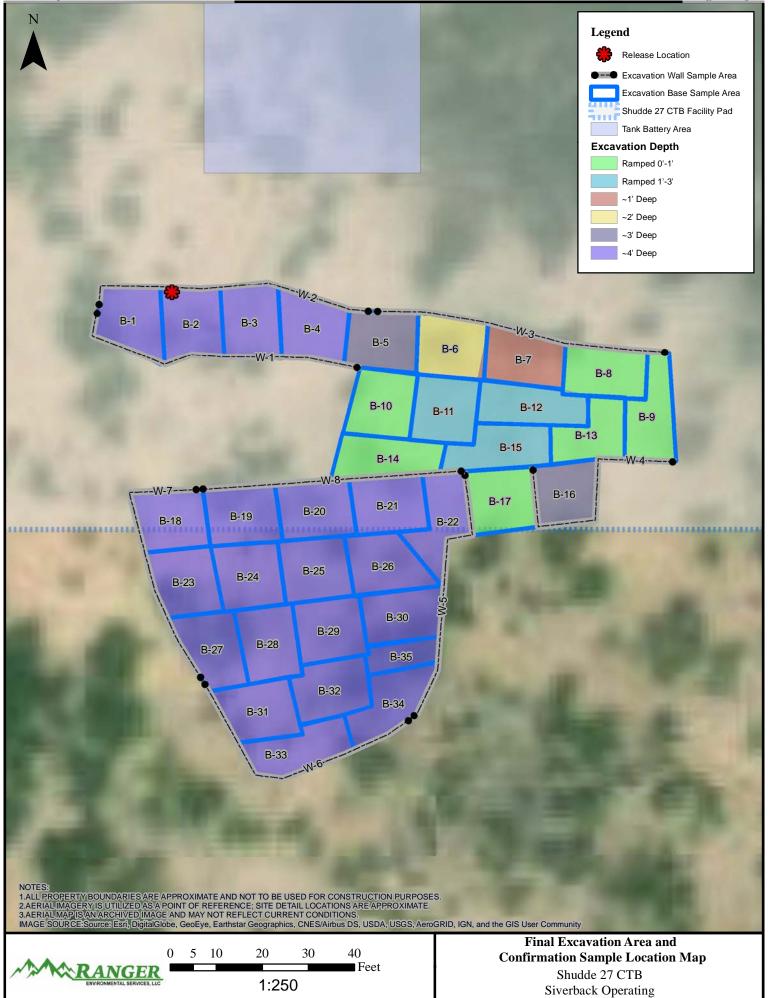












## **TABLES**

Site Assessment Soil BTEX (EPA 8260), TPH (EPA 8015) & Chloride (SM 4500) Analytical Data

Confirmation Sample Soil BTEX (EPA 8260), TPH (EPA 8015) & Chloride (SM 4500) Analytical Data

## SITE ASSESSMENT SOIL SAMPLE BTEX (EPA 8021), TPH (SW 8015) & CHLORIDE (SM 4500) ANALYTICAL DATA SILVERBACK OPERATING SHUDDE 27 CT - LOAD LINE AREA

#### All values presented in parts per million (mg/Kg)

SAMPLE ID	DATE	DEPTH (FT)	BENZENE	TOLUENE	ETHYL- BENZENE	TOTAL XYLENES	TOTAL BTEX	TPH GRO C6-C10	TPH DRO C10-C28	TPH MRO C28-C36	TPH (GRO+DRO)	TPH (GRO+DRO+ MRO)	CHLORIDE
TH-1/1	1/31/2023	1'	< 0.050	< 0.050	< 0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	<20.0	<30.0	304
TH-1/4	1/31/2023	4'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<20.0	<30.0	432
TH-2/3	1/31/2023	3'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<20.0	<30.0	576
TH-2/4	1/31/2023	4'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<20.0	<30.0	976
TH-3/1	1/31/2023	1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<20.0	<30.0	800
TH-3/2	1/31/2023	2'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<20.0	<30.0	208
TH-3/4	1/31/2023	4'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<20.0	<30.0	224
TH-4/1	1/31/2023	1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<20.0	<30.0	528
TH-4/4	1/31/2023	4'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<20.0	<30.0	432
TH-5/3	1/31/2023	3'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<20.0	<30.0	704
TH-5/4	1/31/2023	4'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<20.0	<30.0	256
TH-6/1	1/31/2023	1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<20.0	<30.0	80.0
TH-6/3'	1/31/2023	3'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<20.0	<30.0	320
19.15.29.12 NMAC Table Impacted by a Re			10				50				1,000	2,500	10,000
19.15.29.13 NMAC (0'-4' S	Reclamation Critoils Only)	teria	10 <sup>3</sup>				50 <sup>3</sup>					100 <sup>3</sup>	600

#### Notes:

- 1. Results exceeding the Table 1 Closure Criteria are presented in bold type and are highlighted yellow.
- 2. Results exceeding the NMAC Restoration, Reclamation and re-vegetation chloride concentration requirements are presented in bold red type.
- 3. Value derived from the State of New Mexico Energy, Minerals and Natural Resources Department document Procedures for the Implementation of the Spill Rule (19.15.29 NMAC) dated September 6, 2019.

## CONFIRMATION SOIL SAMPLE BTEX (EPA 8021), TPH (SW 8015) & CHLORIDE (SM 4500) ANALYTICAL DATA SILVERBACK OPERATING SHUDDE 27 CTB - LOAD LINE AREA

SAMPLE ID	DATE	DEPTH (FT)	BENZENE	TOLUENE	ETHYL- BENZENE	TOTAL XYLENES	TOTAL BTEX	TPH GRO C6-C10	TPH DRO C10-C28	TPH MRO C28-C36	TPH (GRO+DRO)	TPH (GRO+DRO+ MRO)	CHLOR
vation Side Wall Sample	es			l								i iii(O)	
W-1	3/21/2023	0'-4'	< 0.050	< 0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<20.0	<30.0	384
W-2	3/21/2023	0'-4'	<0.050	< 0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<20.0	<30.0	372
W-3	3/21/2023	0'-4'	< 0.050	< 0.050	<0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	<20.0	<30.0	16
W-4	3/21/2023	0'-3'	<0.050	< 0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<20.0	<30.0	56
W-5	3/21/2023	0'-4'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<20.0	<30.0	27
W-6	3/21/2023	1'-4'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<20.0	<30.0	35
W-7	3/21/2023	0'-4'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<20.0	<30.0	2
W-8	3/21/2023	0'-4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<20.0	<30.0	3
W-9	3/21/2023	0'-4'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<20.0	<30.0	1
W-10	3/21/2023	0'-4'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<20.0	<30.0	3
ation Base Samples													
B-1	3/21/2023	4'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<20.0	<30.0	1,2
B-2	3/21/2023	4'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<20.0	<30.0	8
B-3	3/21/2023	4'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<20.0	<30.0	1,3
B-4	3/21/2023	4'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<20.0	<30.0	2,
B-5	3/21/2023	3'	< 0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<20.0	<30.0	1
B-6	3/21/2023	2'	< 0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<20.0	<30.0	1
B-7	3/21/2023	1'	< 0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<20.0	<30.0	1
B-8	3/21/2023	0'-1'	< 0.050	< 0.050	< 0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<20.0	<30.0	1
B-9	3/21/2023	0'-1'	< 0.050	< 0.050	< 0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<20.0	<30.0	1
B-10	3/21/2023	0'-1'	< 0.050	< 0.050	< 0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	<20.0	<30.0	1
B-11	3/21/2023	1'-3'	< 0.050	< 0.050	< 0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	<20.0	<30.0	2
B-12	3/21/2023	1'-3'	< 0.050	< 0.050	<0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	<20.0	<30.0	2
B-13	3/21/2023	0'-1'	< 0.050	< 0.050	<0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	<20.0	<30.0	2
B-14	3/21/2023	0'-1'	< 0.050	< 0.050	<0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	<20.0	<30.0	2
B-15	3/21/2023	1'-2'	< 0.050	< 0.050	<0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	<20.0	<30.0	3
B-16	3/21/2023	3'	< 0.050	<0.050	<0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	<20.0	<30.0	2
B-17	3/21/2023	1'-3'	< 0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<20.0	<30.0	3
B-18	3/21/2023	4'	< 0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<20.0	<30.0	1,
B-19	3/21/2023	4'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<20.0	<30.0	8
B-20	3/21/2023	4'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<20.0	<30.0	4
B-21	3/21/2023	4'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<20.0	<30.0	1,
B-22	3/21/2023	4'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<20.0	<30.0	1,
B-23	3/21/2023	4'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<20.0	<30.0	8
B-24	3/21/2023	4'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<20.0	<30.0	9
B-25	3/21/2023	4'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<20.0	<30.0	1,
B-26	3/21/2023	4'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<20.0	<30.0	7
B-27	3/21/2023	4'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<20.0	<30.0	1,
B-28	3/21/2023	4'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<20.0	<30.0	1,
B-29	3/21/2023	4'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<20.0	<30.0	9
B-29 B-30	3/21/2023	4'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<20.0	<30.0	1
B-30	3/21/2023	4'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<20.0	<30.0	7
B-31	3/21/2023	4'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<20.0	<30.0	7
B-32	3/21/2023	4'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<20.0	<30.0	2
B-33	3/21/2023	4'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<20.0	<30.0	4
B-35	3/21/2023	4'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<20.0	<30.0	4
D-00	3/2/1/2023		~0.000	~0.000	~0.000	٦٥. ١٥٥	~0.000	10.0	10.0	10.0	720.0	<b>~30.0</b>	
15.29.12 NMAC Table 1 Impacted by a Rel			10				50				1,000	2,500	10,
19.15.29.13 NMAC I	Reclamation Crit	teria	10 <sup>3</sup>				50 <sup>3</sup>					100 <sup>3</sup>	6

<sup>1.</sup> Results exceeding the Table 1 Closure Criteria are presented in bold type and are highlighted yellow.

<sup>2.</sup> Results exceeding the NMAC Restoration, Reclamation and re-vegetation chloride concentration requirements are presented in bold red type.

<sup>3.</sup> Value derived from the State of New Mexico Energy, Minerals and Natural Resources Department document Procedures for the Implementation of the Spill Rule (19.15.29 NMAC) dated September 6, 2019.

# ATTACHMENT 1 – DEPTH-TO-GROUNDWATER INFORMATION



## New Mexico Office of the State Engineer

## **Point of Diversion Summary**

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag **POD Number**  Q64 Q16 Q4 Sec Tws Rng

X

RA 10490

18S 26E 27

3620486\*

**Driller License:** 

1229

**Driller Company:** 

CARTER'S WELL DRILLING

559659

**Driller Name:** 

CARTER, RICHARD M.

03/18/2004

**Drill Finish Date:** 

04/20/2004

**Plug Date:** 

**Drill Start Date:** Log File Date:

06/01/2004

**PCW Rcv Date:** 

Source:

Shallow

**Pump Type:** 

Pipe Discharge Size:

**Estimated Yield:** 

5 GPM

**Casing Size:** 

**SUBMER** 4.50

Depth Well:

200 feet

Depth Water:

75 feet

Water Bearing Stratifications:

Top **Bottom Description** 100

Other/Unknown

185

Other/Unknown

**Casing Perforations:** 

Top **Bottom** 100

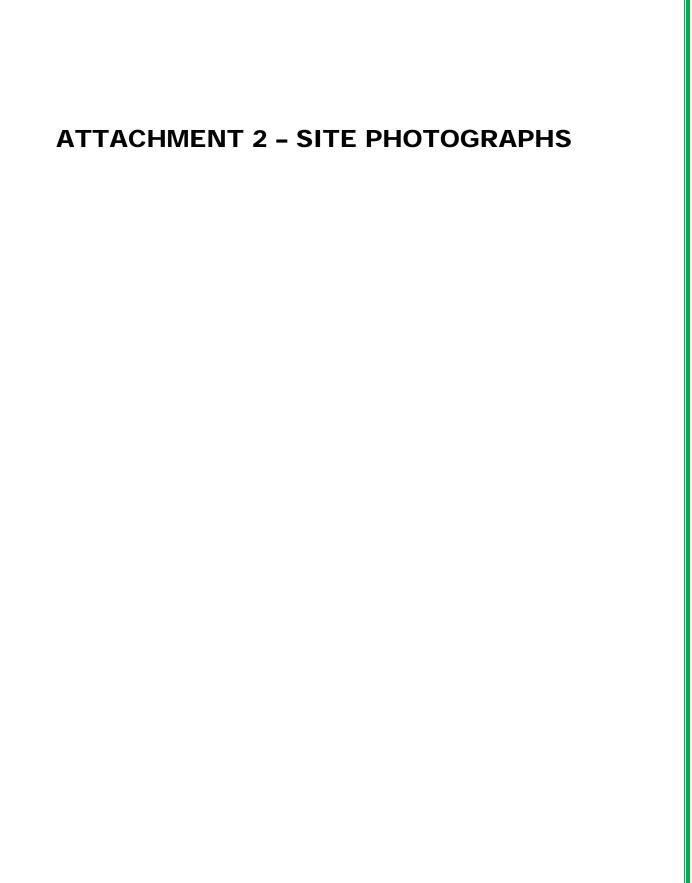
200

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.

4/12/23 7:13 AM

POINT OF DIVERSION SUMMARY

<sup>\*</sup>UTM location was derived from PLSS - see Help





PHOTOGRAPH NO. 1 – A view of the January 13, 2023 release upon discovery. The view is towards the southwest.

(Approximate GPS Coordinates: 32.722879, -104.360521)



PHOTOGRAPH NO. 2 – A view of the site during the site assessment activities completed on January 31, 2023. The view is towards the north.

(Approximate GPS Coordinates: 32.722772, -104.360836)



PHOTOGRAPH NO. 3 – A view of the excavation area upon completion of the remedial operations at the site. The view is towards the southeast.

(Approximate GPS Coordinates: 32.722942, -104.361016)



PHOTOGRAPH NO. 4 – An additional view of the excavation area upon completion of the remedial operations at the site. The view is towards the northeast.

(Approximate GPS Coordinates: 32.722606, -104.360916)



February 06, 2023

WILL KIERDORF

RANGER ENVIRONMENTAL SERVICES, INC.

PO BOX 201179

AUSTIN, TX 78729

RE: SHUDDE 27 CTB

Enclosed are the results of analyses for samples received by the laboratory on 02/02/23 13:05.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keene

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



### Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC.

WILL KIERDORF PO BOX 201179 AUSTIN TX, 78729

Fax To: (512) 335-0527

Received: 02/02/2023 Sampling Date: 01/30/2023

Reported: 02/06/2023 Sampling Type: Soil

Project Name: SHUDDE 27 CTB Sampling Condition: Cool & Intact Project Number: 6684 Sample Received By: Shalyn Rodriguez

Project Location: SILVERBACK EXPL. - ROOSEVELT CO NM

### Sample ID: TH - 1/1 (H230466-01)

BTEX 8021B	mg,	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/03/2023	ND	2.01	101	2.00	5.27	
Toluene*	<0.050	0.050	02/03/2023	ND	2.05	103	2.00	2.81	
Ethylbenzene*	<0.050	0.050	02/03/2023	ND	2.03	101	2.00	2.93	
Total Xylenes*	<0.150	0.150	02/03/2023	ND	6.15	102	6.00	2.28	
Total BTEX	<0.300	0.300	02/03/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	02/02/2023	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/02/2023	ND	201	100	200	3.55	
DRO >C10-C28*	<10.0	10.0	02/02/2023	ND	214	107	200	5.22	
EXT DRO >C28-C36	<10.0	10.0	02/02/2023	ND					
Surrogate: 1-Chlorooctane	75.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	85.3	% 49.1-14	8						

### Cardinal Laboratories \*=Accredited Analyte

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Celeg D. Kreene



### Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC.

WILL KIERDORF PO BOX 201179 AUSTIN TX, 78729

Fax To: (512) 335-0527

Received: 02/02/2023 Sampling Date: 01/30/2023

Reported: 02/06/2023 Sampling Type: Soil

Project Name: SHUDDE 27 CTB Sampling Condition: Cool & Intact Project Number: Sample Received By: 6684 Shalyn Rodriguez

Project Location: SILVERBACK EXPL. - ROOSEVELT CO NM

### Sample ID: TH - 1/4 (H230466-02)

BTEX 8021B	mg/	'kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/03/2023	ND	2.01	101	2.00	5.27	
Toluene*	<0.050	0.050	02/03/2023	ND	2.05	103	2.00	2.81	
Ethylbenzene*	<0.050	0.050	02/03/2023	ND	2.03	101	2.00	2.93	
Total Xylenes*	<0.150	0.150	02/03/2023	ND	6.15	102	6.00	2.28	
Total BTEX	<0.300	0.300	02/03/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 5	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	02/02/2023	ND	400	100	400	3.92	
TPH 8015M	mg/	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/02/2023	ND	201	100	200	3.55	
DRO >C10-C28*	<10.0	10.0	02/02/2023	ND	214	107	200	5.22	
EXT DRO >C28-C36	<10.0	10.0	02/02/2023	ND					
Surrogate: 1-Chlorooctane	74.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	84.6	% 49.1-14	8						

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### Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC.

WILL KIERDORF PO BOX 201179 AUSTIN TX, 78729

Fax To: (512) 335-0527

Received: 02/02/2023 Sampling Date: 01/30/2023

Reported: 02/06/2023 Sampling Type: Soil

Project Name: SHUDDE 27 CTB Sampling Condition: Cool & Intact
Project Number: Sample Received By: Shalyn Rodriguez

Analyzed By: JH/

Project Location: SILVERBACK EXPL. - ROOSEVELT CO NM

mg/kg

### Sample ID: TH - 2/3 (H230466-03)

BTEX 8021B

DILX GOZID	ıııg,	, kg	Alldiyzo	.u Dy. 3117					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/03/2023	ND	2.01	101	2.00	5.27	
Toluene*	<0.050	0.050	02/03/2023	ND	2.05	103	2.00	2.81	
Ethylbenzene*	<0.050	0.050	02/03/2023	ND	2.03	101	2.00	2.93	
Total Xylenes*	<0.150	0.150	02/03/2023	ND	6.15	102	6.00	2.28	
Total BTEX	<0.300	0.300	02/03/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	576	16.0	02/02/2023	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/02/2023	ND	201	100	200	3.55	
DRO >C10-C28*	<10.0	10.0	02/02/2023	ND	214	107	200	5.22	
EXT DRO >C28-C36	<10.0	10.0	02/02/2023	ND					
Surrogate: 1-Chlorooctane	65.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	73.7	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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### Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC.

WILL KIERDORF PO BOX 201179 AUSTIN TX, 78729

Fax To: (512) 335-0527

Received: 02/02/2023 Sampling Date: 01/30/2023

Reported: 02/06/2023 Sampling Type: Soil

Project Name: SHUDDE 27 CTB Sampling Condition: Cool & Intact Project Number: Sample Received By: 6684 Shalyn Rodriguez

Project Location: SILVERBACK EXPL. - ROOSEVELT CO NM

### Sample ID: TH - 2/4 (H230466-04)

BTEX 8021B	mg,	'kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/03/2023	ND	2.01	101	2.00	5.27	
Toluene*	<0.050	0.050	02/03/2023	ND	2.05	103	2.00	2.81	
Ethylbenzene*	<0.050	0.050	02/03/2023	ND	2.03	101	2.00	2.93	
Total Xylenes*	<0.150	0.150	02/03/2023	ND	6.15	102	6.00	2.28	
Total BTEX	<0.300	0.300	02/03/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	976	16.0	02/02/2023	ND	400	100	400	3.92	
TPH 8015M	mg,	'kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/02/2023	ND	201	100	200	3.55	
DRO >C10-C28*	<10.0	10.0	02/02/2023	ND	214	107	200	5.22	
EXT DRO >C28-C36	<10.0	10.0	02/02/2023	ND					
Surrogate: 1-Chlorooctane	82.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	95.1	% 49.1-14	8						

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### Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC.

WILL KIERDORF PO BOX 201179 AUSTIN TX, 78729

Fax To: (512) 335-0527

Received: 02/02/2023 Sampling Date: 01/30/2023

Reported: 02/06/2023 Sampling Type: Soil

Project Name: SHUDDE 27 CTB Sampling Condition: Cool & Intact
Project Number: Sample Received By: Shalyn Rodriguez

Analyzed By: JH/

Project Location: SILVERBACK EXPL. - ROOSEVELT CO NM

mg/kg

### Sample ID: TH - 3/1 (H230466-05)

BTEX 8021B

	9,	9	7	7: 5::.,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/03/2023	ND	2.01	101	2.00	5.27	
Toluene*	<0.050	0.050	02/03/2023	ND	2.05	103	2.00	2.81	
Ethylbenzene*	<0.050	0.050	02/03/2023	ND	2.03	101	2.00	2.93	
Total Xylenes*	<0.150	0.150	02/03/2023	ND	6.15	102	6.00	2.28	
Total BTEX	<0.300	0.300	02/03/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	800	16.0	02/02/2023	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/02/2023	ND	201	100	200	3.55	
DRO >C10-C28*	<10.0	10.0	02/02/2023	ND	214	107	200	5.22	
EXT DRO >C28-C36	<10.0	10.0	02/02/2023	ND					
Surrogate: 1-Chlorooctane	75.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	88.6	% 49.1-14	8						

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Celeg D. Freene



### Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC.

WILL KIERDORF PO BOX 201179 AUSTIN TX, 78729

Fax To: (512) 335-0527

Received: 02/02/2023 Sampling Date: 01/30/2023

Reported: 02/06/2023 Sampling Type: Soil

Project Name: SHUDDE 27 CTB Sampling Condition: Cool & Intact
Project Number: Sample Received By: Shalyn Rodriguez

Analyzed By: JH/

Project Location: SILVERBACK EXPL. - ROOSEVELT CO NM

mg/kg

### Sample ID: TH - 3/2 (H230466-06)

BTEX 8021B

DILX GOZID	mg/	ng .	Alldiyzo	u by. 511/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/03/2023	ND	2.07	103	2.00	3.28	
Toluene*	<0.050	0.050	02/03/2023	ND	2.11	105	2.00	3.47	
Ethylbenzene*	<0.050	0.050	02/03/2023	ND	2.05	103	2.00	4.09	
Total Xylenes*	<0.150	0.150	02/03/2023	ND	6.33	106	6.00	4.40	
Total BTEX	<0.300	0.300	02/03/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	02/02/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/02/2023	ND	201	100	200	3.55	
DRO >C10-C28*	<10.0	10.0	02/02/2023	ND	214	107	200	5.22	
EXT DRO >C28-C36	<10.0	10.0	02/02/2023	ND					
Surrogate: 1-Chlorooctane	71.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	82.5	% 49.1-14	8						

# Cardinal Laboratories \*=Accredited Analyte

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Celeg D. Freene



### Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC.

WILL KIERDORF PO BOX 201179 AUSTIN TX, 78729

Fax To: (512) 335-0527

Received: 02/02/2023 Sampling Date: 01/30/2023

Reported: 02/06/2023 Sampling Type: Soil

Project Name: SHUDDE 27 CTB Sampling Condition: Cool & Intact
Project Number: Sample Received By: Shalyn Rodriguez

Analyzed By: JH/

Project Location: SILVERBACK EXPL. - ROOSEVELT CO NM

mg/kg

### Sample ID: TH - 3/4 (H230466-07)

BTEX 8021B

DIEX GOZID	11197	K9	Allulyzo	a by. 5117					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/03/2023	ND	2.07	103	2.00	3.28	
Toluene*	<0.050	0.050	02/03/2023	ND	2.11	105	2.00	3.47	
Ethylbenzene*	<0.050	0.050	02/03/2023	ND	2.05	103	2.00	4.09	
Total Xylenes*	<0.150	0.150	02/03/2023	ND	6.33	106	6.00	4.40	
Total BTEX	<0.300	0.300	02/03/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	'kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	02/02/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	'kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/02/2023	ND	201	100	200	3.55	
DRO >C10-C28*	<10.0	10.0	02/02/2023	ND	214	107	200	5.22	
EXT DRO >C28-C36	<10.0	10.0	02/02/2023	ND					
Surrogate: 1-Chlorooctane	72.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	83.0	% 49.1-14	8						

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Celeg D. Freene



### Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC.

WILL KIERDORF PO BOX 201179 AUSTIN TX, 78729

Fax To: (512) 335-0527

Received: 02/02/2023 Sampling Date: 01/30/2023

Reported: 02/06/2023 Sampling Type: Soil

Project Name: SHUDDE 27 CTB Sampling Condition: Cool & Intact Project Number: Sample Received By: Shalyn Rodriguez 6684

Project Location: SILVERBACK EXPL. - ROOSEVELT CO NM

### Sample ID: TH - 4/1 (H230466-08)

BTEX 8021B	mg	'kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/03/2023	ND	2.07	103	2.00	3.28	
Toluene*	<0.050	0.050	02/03/2023	ND	2.11	105	2.00	3.47	
Ethylbenzene*	<0.050	0.050	02/03/2023	ND	2.05	103	2.00	4.09	
Total Xylenes*	<0.150	0.150	02/03/2023	ND	6.33	106	6.00	4.40	
Total BTEX	<0.300	0.300	02/03/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	112	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	'kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	02/02/2023	ND	416	104	400	3.77	
TPH 8015M	mg	'kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/02/2023	ND	201	100	200	3.55	
DRO >C10-C28*	<10.0	10.0	02/02/2023	ND	214	107	200	5.22	
EXT DRO >C28-C36	<10.0	10.0	02/02/2023	ND					
Surrogate: 1-Chlorooctane	74.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	83.4	% 49.1-14	8						

### Cardinal Laboratories \*=Accredited Analyte

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### Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC.

WILL KIERDORF PO BOX 201179 AUSTIN TX, 78729

Fax To: (512) 335-0527

Received: 02/02/2023 Sampling Date: 01/30/2023

Reported: 02/06/2023 Sampling Type: Soil

Project Name: SHUDDE 27 CTB Sampling Condition: Cool & Intact Project Number: Sample Received By: 6684 Shalyn Rodriguez

Project Location: SILVERBACK EXPL. - ROOSEVELT CO NM

### Sample ID: TH - 4/4 (H230466-09)

BTEX 8021B	mg,	'kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/03/2023	ND	2.07	103	2.00	3.28	
Toluene*	<0.050	0.050	02/03/2023	ND	2.11	105	2.00	3.47	
Ethylbenzene*	<0.050	0.050	02/03/2023	ND	2.05	103	2.00	4.09	
Total Xylenes*	<0.150	0.150	02/03/2023	ND	6.33	106	6.00	4.40	
Total BTEX	<0.300	0.300	02/03/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	02/02/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	'kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/02/2023	ND	201	100	200	3.55	
DRO >C10-C28*	<10.0	10.0	02/02/2023	ND	214	107	200	5.22	
EXT DRO >C28-C36	<10.0	10.0	02/02/2023	ND					
Surrogate: 1-Chlorooctane	77.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	88.2	% 49.1-14	8						

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### Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC.

WILL KIERDORF PO BOX 201179 AUSTIN TX, 78729

Fax To: (512) 335-0527

Received: 02/02/2023 Sampling Date: 01/30/2023

Reported: 02/06/2023 Sampling Type: Soil

Project Name: SHUDDE 27 CTB Sampling Condition: Cool & Intact
Project Number: Sample Received By: Shalyn Rodriguez

Analyzed By: JH/

Project Location: SILVERBACK EXPL. - ROOSEVELT CO NM

mg/kg

### Sample ID: TH - 5/3 (H230466-10)

BTEX 8021B

	9,	9	7	7: 5::.,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/03/2023	ND	2.07	103	2.00	3.28	
Toluene*	<0.050	0.050	02/03/2023	ND	2.11	105	2.00	3.47	
Ethylbenzene*	<0.050	0.050	02/03/2023	ND	2.05	103	2.00	4.09	
Total Xylenes*	<0.150	0.150	02/03/2023	ND	6.33	106	6.00	4.40	
Total BTEX	<0.300	0.300	02/03/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	112	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	704	16.0	02/02/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/02/2023	ND	201	100	200	3.55	
DRO >C10-C28*	<10.0	10.0	02/02/2023	ND	214	107	200	5.22	
EXT DRO >C28-C36	<10.0	10.0	02/02/2023	ND					
Surrogate: 1-Chlorooctane	80.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	87.4	% 49.1-14	8						

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Celey D. Keene



### Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC.

WILL KIERDORF PO BOX 201179 AUSTIN TX, 78729

Fax To: (512) 335-0527

Received: 02/02/2023 Sampling Date: 01/30/2023

Reported: 02/06/2023 Sampling Type: Soil

Project Name: SHUDDE 27 CTB Sampling Condition: Cool & Intact
Project Number: Sample Received By: Shalyn Rodriguez

Analyzed By: JH/

Project Location: SILVERBACK EXPL. - ROOSEVELT CO NM

mg/kg

### Sample ID: TH - 5/4 (H230466-11)

BTEX 8021B

DILX GOZID	ıııg,	, kg	Allulyzo	.u Dy. 3117					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/03/2023	ND	2.07	103	2.00	3.28	
Toluene*	<0.050	0.050	02/03/2023	ND	2.11	105	2.00	3.47	
Ethylbenzene*	<0.050	0.050	02/03/2023	ND	2.05	103	2.00	4.09	
Total Xylenes*	<0.150	0.150	02/03/2023	ND	6.33	106	6.00	4.40	
Total BTEX	<0.300	0.300	02/03/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	111	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	02/02/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/02/2023	ND	244	122	200	4.41	
DRO >C10-C28*	<10.0	10.0	02/02/2023	ND	213	106	200	5.34	
EXT DRO >C28-C36	<10.0	10.0	02/02/2023	ND					
Surrogate: 1-Chlorooctane	73.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	82.6	% 49.1-14	8						

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### Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC.

WILL KIERDORF PO BOX 201179 AUSTIN TX, 78729

Fax To: (512) 335-0527

Received: 02/02/2023 Sampling Date: 01/30/2023

Reported: 02/06/2023 Sampling Type: Soil

Project Name: SHUDDE 27 CTB Sampling Condition: Cool & Intact
Project Number: Sample Received By: Shalyn Rodriguez

Analyzed By: JH/

Project Location: SILVERBACK EXPL. - ROOSEVELT CO NM

mg/kg

### Sample ID: TH - 6/1 (H230466-12)

BTEX 8021B

DILX GOZID	11197	K9	Alldiyzo	a by. 5117					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/03/2023	ND	2.07	103	2.00	3.28	
Toluene*	<0.050	0.050	02/03/2023	ND	2.11	105	2.00	3.47	
Ethylbenzene*	<0.050	0.050	02/03/2023	ND	2.05	103	2.00	4.09	
Total Xylenes*	<0.150	0.150	02/03/2023	ND	6.33	106	6.00	4.40	
Total BTEX	<0.300	0.300	02/03/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	'kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	02/02/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	'kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/02/2023	ND	244	122	200	4.41	
DRO >C10-C28*	<10.0	10.0	02/02/2023	ND	213	106	200	5.34	
EXT DRO >C28-C36	<10.0	10.0	02/02/2023	ND					
Surrogate: 1-Chlorooctane	70.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	84.2	% 49.1-14	8						

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### Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC.

WILL KIERDORF PO BOX 201179 AUSTIN TX, 78729

Fax To: (512) 335-0527

Received: 02/02/2023 Sampling Date: 01/30/2023

Reported: 02/06/2023 Sampling Type: Soil

Project Name: SHUDDE 27 CTB Sampling Condition: Cool & Intact
Project Number: Sample Received By: Shalyn Rodriguez

Analyzed By: JH/

Project Location: SILVERBACK EXPL. - ROOSEVELT CO NM

mg/kg

### Sample ID: TH - 6/3 (H230466-13)

BTEX 8021B

	9/	9	7111411720	,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/03/2023	ND	2.07	103	2.00	3.28	
Toluene*	<0.050	0.050	02/03/2023	ND	2.11	105	2.00	3.47	
Ethylbenzene*	<0.050	0.050	02/03/2023	ND	2.05	103	2.00	4.09	
Total Xylenes*	<0.150	0.150	02/03/2023	ND	6.33	106	6.00	4.40	
Total BTEX	<0.300	0.300	02/03/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	02/02/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	'kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/02/2023	ND	244	122	200	4.41	
DRO >C10-C28*	<10.0	10.0	02/02/2023	ND	213	106	200	5.34	
EXT DRO >C28-C36	<10.0	10.0	02/02/2023	ND					
Surrogate: 1-Chlorooctane	69.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	83.4	% 49.1-14	8						

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Celey D. Keene



### **Notes and Definitions**

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS

ecovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Celeg D. Freene

s. Please fax written changes to 575-393-2476

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

# 101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

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Company Name.		ć						Т	ı	1	18	BILL 10			1	1	1	ANALYSIS		KEQUESI	12		
Project Manager:	r: Will Kjerdorf							0.	P.O. #:	75						T							
Address:	PO Box 201179							O	duo	Company:		Silverback Exploration	xploration								1		_
City: Austin	State: TX	Zip	Zip: 78720	720				A	2	Ma	고	Attn: Mark Ritchie											
Phone #: 512-	512-335-1785 Fax #:	512	512-335-0527	5-05	27			A	dre	SS	108	Address: 108 S. 4th St.								_		_	_
Project #: 6684	4 Project Owner:	ā						C	City:	Artesia	esia										-		_
me:	Shudde 27 CTB							S	ate:	State: NM		Zip: 88211											_
Project Location:	n: Shudde 27 CTB							P	nor	#	713	Phone #: 713-553-8320											
Sampler Name:	Will Kennedy							וד	Fax #:														_
FOR LAB USE ONLY		$\exists$	$\dashv$	$\Box$		MATRIX	×	l l	P	PRESERV.	R <	SAMPLING	ดี										
Lab I.D.	Sample I.D.	G)RAB OR (C)OMP.	CONTAINERS	GROUNDWATER	VASTEWATER	SOIL	SLUDGE	OTHER:	ACID/BASE:	CE / COOL	OTHER:	DATE	TIME	TPH (8015)	BTEX (8021)	Chloride (SM 4500)							
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4	TH-2/4	G	>			×				×		1/30/23	0938	×	×	×							
	TH-3/1	G				×				×		1/30/23	1002	×	×	×							
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7	TH-3/4	G	->			×	-		Т	×		1/30/23	1008	×	×	×							
≪)	TH-4/1	G				×				×		1/30/23	1016	×	×	×							
0	TH-4/4	ရ	>			×	-			×		1/30/23	1022	×	×	×							
0	TH-5/3	G	>			×			П	×		1/30/23	1042	×	×	×							
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PLEASE NOTE: Liability an	TH-6/3 and Damages. Cerdinal's liability and client's exclusive remady for a	G G	-	and a	76	×	5 .	tract or tort	W X	×	8 6 8	1/30/23	123 1146	×	×	×	r	F			$\vdash$	F	-
nalyses. All claims including anyon. In no event shall Car ifflates or successors arising	nce and any other cause whateoever incidental or consequental damages, to the performance of services hereur	erg cem esmed v vilhout li edinal, n	waived unless r limitation, busin regardless of w	uniess r uniess r on, busin	made ir boss irb hether	writing arruptio	of air is based up	a of use	by Ca	rdhai wit as of pro	office in	may no ny vanin mininy minina balesy a tootano o ny taona parantany ao ny vanina no ban'ny taona ny sandrany s I said be deemed watwed united made in wating and reserved by Cardchal within 30 days after completion of sa i rincloding without limitations, business imminiptions, loss of use, or loss of profits incurred by cloth, its substitution in the completion of the profits incurred by clother, its substitution of the profits in the completion of the comple	eton of the application of the a	80 8									
Relinquished By:	Date: 2/2	1	Received By:	red	SON SE	2	>	?			>	,	Phone Result: Fax Result: REMARKS:	ult:	□ Yes	8 8	No	Add'l Phone #: Add'l Fax #:	44				
Relinquished By	home	Re	Received By:	ed l	* 6	2	Z	_0	2	~	0	95	* Standard T	nall lat	repor	1 to W	III@Rar	* Standard TAT ** Please email lab report to Will@RangerEnv.com					
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March 29, 2023

WILL KIERDORF

RANGER ENVIRONMENTAL SERVICES, INC.

PO BOX 201179

AUSTIN, TX 78729

RE: SHUDDE 27 CTB

Enclosed are the results of analyses for samples received by the laboratory on 03/22/23 11:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keene

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



### Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC.

WILL KIERDORF PO BOX 201179 AUSTIN TX, 78729

Fax To: (512) 335-0527

Received: 03/22/2023 Sampling Date: 03/21/2023

Reported: 03/29/2023 Sampling Type: Soil

Project Name: SHUDDE 27 CTB Sampling Condition: Cool & Intact
Project Number: Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: SILVERBACK EXPL. - ROOSEVELT CO NM

mg/kg

### Sample ID: W - 1 (H231327-01)

BTEX 8021B

BIEX GOEED	9/	119	Anaryzo	a 2 y : 3 : 1					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/27/2023	ND	2.09	105	2.00	2.60	
Toluene*	<0.050	0.050	03/27/2023	ND	2.12	106	2.00	2.15	
Ethylbenzene*	<0.050	0.050	03/27/2023	ND	2.22	111	2.00	2.71	
Total Xylenes*	<0.150	0.150	03/27/2023	ND	6.82	114	6.00	2.90	
Total BTEX	<0.300	0.300	03/27/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	03/28/2023	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/28/2023	ND	208	104	200	2.15	
DRO >C10-C28*	<10.0	10.0	03/28/2023	ND	210	105	200	2.19	
EXT DRO >C28-C36	<10.0	10.0	03/28/2023	ND					
Surrogate: 1-Chlorooctane	96.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	95.0	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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Celeg D. Freene



### Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC.

WILL KIERDORF PO BOX 201179 AUSTIN TX, 78729

Fax To: (512) 335-0527

Received: 03/22/2023 Sampling Date: 03/21/2023

Reported: 03/29/2023 Sampling Type: Soil

Project Name: SHUDDE 27 CTB Sampling Condition: Cool & Intact
Project Number: Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: SILVERBACK EXPL. - ROOSEVELT CO NM

mg/kg

### Sample ID: W - 2 (H231327-02)

BTEX 8021B

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/27/2023	ND	2.09	105	2.00	2.60	
Toluene*	<0.050	0.050	03/27/2023	ND	2.12	106	2.00	2.15	
Ethylbenzene*	<0.050	0.050	03/27/2023	ND	2.22	111	2.00	2.71	
Total Xylenes*	<0.150	0.150	03/27/2023	ND	6.82	114	6.00	2.90	
Total BTEX	<0.300	0.300	03/27/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	372	16.0	03/28/2023	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/28/2023	ND	208	104	200	2.15	
DRO >C10-C28*	<10.0	10.0	03/28/2023	ND	210	105	200	2.19	
EXT DRO >C28-C36	<10.0	10.0	03/28/2023	ND					
Surrogate: 1-Chlorooctane	93.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	95.6	% 49.1-14	8						

# Cardinal Laboratories \*=Accredited Analyte

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### Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC.

WILL KIERDORF PO BOX 201179 AUSTIN TX, 78729

Fax To: (512) 335-0527

Received: 03/22/2023 Sampling Date: 03/21/2023

Reported: 03/29/2023 Sampling Type: Soil

Project Name: SHUDDE 27 CTB Sampling Condition: Cool & Intact
Project Number: Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: SILVERBACK EXPL. - ROOSEVELT CO NM

mg/kg

### Sample ID: W - 3 (H231327-03)

BTEX 8021B

	9/	9	7111411720	,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/27/2023	ND	2.09	105	2.00	2.60	
Toluene*	<0.050	0.050	03/27/2023	ND	2.12	106	2.00	2.15	
Ethylbenzene*	<0.050	0.050	03/27/2023	ND	2.22	111	2.00	2.71	
Total Xylenes*	<0.150	0.150	03/27/2023	ND	6.82	114	6.00	2.90	
Total BTEX	<0.300	0.300	03/27/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	03/28/2023	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/28/2023	ND	208	104	200	2.15	
DRO >C10-C28*	<10.0	10.0	03/28/2023	ND	210	105	200	2.19	
EXT DRO >C28-C36	<10.0	10.0	03/28/2023	ND					
Surrogate: 1-Chlorooctane	79.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	80.0	% 49.1-14	8						

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### Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC.

WILL KIERDORF PO BOX 201179 AUSTIN TX, 78729

Fax To: (512) 335-0527

Received: 03/22/2023 Sampling Date: 03/21/2023

Reported: 03/29/2023 Sampling Type: Soil

Project Name: SHUDDE 27 CTB Sampling Condition: Cool & Intact
Project Number: Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: SILVERBACK EXPL. - ROOSEVELT CO NM

mg/kg

### Sample ID: W - 4 (H231327-04)

BTEX 8021B

	<u> </u>			. ,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/27/2023	ND	2.09	105	2.00	2.60	
Toluene*	<0.050	0.050	03/27/2023	ND	2.12	106	2.00	2.15	
Ethylbenzene*	<0.050	0.050	03/27/2023	ND	2.22	111	2.00	2.71	
Total Xylenes*	<0.150	0.150	03/27/2023	ND	6.82	114	6.00	2.90	
Total BTEX	<0.300	0.300	03/27/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	03/28/2023	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/28/2023	ND	208	104	200	2.15	
DRO >C10-C28*	<10.0	10.0	03/28/2023	ND	210	105	200	2.19	
EXT DRO >C28-C36	<10.0	10.0	03/28/2023	ND					
Surrogate: 1-Chlorooctane	91.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	93.4	% 49.1-14	8						

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### Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC.

WILL KIERDORF PO BOX 201179 AUSTIN TX, 78729

Fax To: (512) 335-0527

Received: 03/22/2023 Sampling Date: 03/21/2023

Reported: 03/29/2023 Sampling Type: Soil

Project Name: SHUDDE 27 CTB Sampling Condition: Cool & Intact
Project Number: Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: SILVERBACK EXPL. - ROOSEVELT CO NM

mg/kg

### Sample ID: W - 5 (H231327-05)

BTEX 8021B

DIEX GOZID	11197	ng .	Alldiyzo	.u by. 511					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/27/2023	ND	2.09	105	2.00	2.60	
Toluene*	<0.050	0.050	03/27/2023	ND	2.12	106	2.00	2.15	
Ethylbenzene*	<0.050	0.050	03/27/2023	ND	2.22	111	2.00	2.71	
Total Xylenes*	<0.150	0.150	03/27/2023	ND	6.82	114	6.00	2.90	
Total BTEX	<0.300	0.300	03/27/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	03/28/2023	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/28/2023	ND	208	104	200	2.15	
DRO >C10-C28*	<10.0	10.0	03/28/2023	ND	210	105	200	2.19	
EXT DRO >C28-C36	<10.0	10.0	03/28/2023	ND					
Surrogate: 1-Chlorooctane	91.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	91.8	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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# Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC.

WILL KIERDORF PO BOX 201179 AUSTIN TX, 78729

Fax To: (512) 335-0527

Received: 03/22/2023 Sampling Date: 03/21/2023

Reported: 03/29/2023 Sampling Type: Soil

Project Name: SHUDDE 27 CTB Sampling Condition: Cool & Intact
Project Number: Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: SILVERBACK EXPL. - ROOSEVELT CO NM

mg/kg

### Sample ID: W - 6 (H231327-06)

BTEX 8021B

	9/	9	7111411720	,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/27/2023	ND	2.09	105	2.00	2.60	
Toluene*	<0.050	0.050	03/27/2023	ND	2.12	106	2.00	2.15	
Ethylbenzene*	<0.050	0.050	03/27/2023	ND	2.22	111	2.00	2.71	
Total Xylenes*	<0.150	0.150	03/27/2023	ND	6.82	114	6.00	2.90	
Total BTEX	<0.300	0.300	03/27/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	03/28/2023	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/28/2023	ND	208	104	200	2.15	
DRO >C10-C28*	<10.0	10.0	03/28/2023	ND	210	105	200	2.19	
EXT DRO >C28-C36	<10.0	10.0	03/28/2023	ND					
Surrogate: 1-Chlorooctane	84.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	85.7	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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Celeg D. Freene



### Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC.

WILL KIERDORF PO BOX 201179 AUSTIN TX, 78729

Fax To: (512) 335-0527

Received: 03/22/2023 Sampling Date: 03/21/2023

Reported: 03/29/2023 Sampling Type: Soil

Project Name: SHUDDE 27 CTB Sampling Condition: Cool & Intact
Project Number: Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: SILVERBACK EXPL. - ROOSEVELT CO NM

mg/kg

### Sample ID: W - 7 (H231327-07)

BTEX 8021B

	9/	9	7111411720	,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/27/2023	ND	2.09	105	2.00	2.60	
Toluene*	<0.050	0.050	03/27/2023	ND	2.12	106	2.00	2.15	
Ethylbenzene*	<0.050	0.050	03/27/2023	ND	2.22	111	2.00	2.71	
Total Xylenes*	<0.150	0.150	03/27/2023	ND	6.82	114	6.00	2.90	
Total BTEX	<0.300	0.300	03/27/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	03/28/2023	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/28/2023	ND	208	104	200	2.15	
DRO >C10-C28*	<10.0	10.0	03/28/2023	ND	210	105	200	2.19	
EXT DRO >C28-C36	<10.0	10.0	03/28/2023	ND					
Surrogate: 1-Chlorooctane	74.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	75.4	% 49.1-14	8						

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### Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC.

WILL KIERDORF PO BOX 201179 AUSTIN TX, 78729

Fax To: (512) 335-0527

Received: 03/22/2023 Sampling Date: 03/21/2023

Reported: 03/29/2023 Sampling Type: Soil

Project Name: SHUDDE 27 CTB Sampling Condition: Cool & Intact
Project Number: Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: SILVERBACK EXPL. - ROOSEVELT CO NM

mg/kg

### Sample ID: W - 8 (H231327-08)

BTEX 8021B

	9,	9	7	7: 5::					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/27/2023	ND	2.09	105	2.00	2.60	
Toluene*	<0.050	0.050	03/27/2023	ND	2.12	106	2.00	2.15	
Ethylbenzene*	<0.050	0.050	03/27/2023	ND	2.22	111	2.00	2.71	
Total Xylenes*	<0.150	0.150	03/27/2023	ND	6.82	114	6.00	2.90	
Total BTEX	<0.300	0.300	03/27/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	03/28/2023	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/28/2023	ND	208	104	200	2.15	
DRO >C10-C28*	<10.0	10.0	03/28/2023	ND	210	105	200	2.19	
EXT DRO >C28-C36	<10.0	10.0	03/28/2023	ND					
Surrogate: 1-Chlorooctane	81.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	81.9	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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Celeg D. Freene



### Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC.

WILL KIERDORF PO BOX 201179 AUSTIN TX, 78729

Fax To: (512) 335-0527

Received: 03/22/2023 Sampling Date: 03/21/2023

Reported: 03/29/2023 Sampling Type: Soil

Project Name: SHUDDE 27 CTB Sampling Condition: Cool & Intact
Project Number: Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: SILVERBACK EXPL. - ROOSEVELT CO NM

mg/kg

### Sample ID: W - 9 (H231327-09)

BTEX 8021B

DIEX GOZID	11197	ng .	Alldiyzo	.u by. 511					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/27/2023	ND	2.09	105	2.00	2.60	
Toluene*	<0.050	0.050	03/27/2023	ND	2.12	106	2.00	2.15	
Ethylbenzene*	<0.050	0.050	03/27/2023	ND	2.22	111	2.00	2.71	
Total Xylenes*	<0.150	0.150	03/27/2023	ND	6.82	114	6.00	2.90	
Total BTEX	<0.300	0.300	03/27/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	03/28/2023	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/28/2023	ND	208	104	200	2.15	
DRO >C10-C28*	<10.0	10.0	03/28/2023	ND	210	105	200	2.19	
EXT DRO >C28-C36	<10.0	10.0	03/28/2023	ND					
Surrogate: 1-Chlorooctane	79.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	79.6	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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### Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC.

WILL KIERDORF PO BOX 201179 AUSTIN TX, 78729

Fax To: (512) 335-0527

Received: 03/22/2023 Sampling Date: 03/21/2023

Reported: 03/29/2023 Sampling Type: Soil

Project Name: SHUDDE 27 CTB Sampling Condition: Cool & Intact
Project Number: Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: SILVERBACK EXPL. - ROOSEVELT CO NM

mg/kg

### Sample ID: W - 10 (H231327-10)

BTEX 8021B

	979		7						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/27/2023	ND	2.09	105	2.00	2.60	
Toluene*	<0.050	0.050	03/27/2023	ND	2.12	106	2.00	2.15	
Ethylbenzene*	<0.050	0.050	03/27/2023	ND	2.22	111	2.00	2.71	
Total Xylenes*	<0.150	0.150	03/27/2023	ND	6.82	114	6.00	2.90	
Total BTEX	<0.300	0.300	03/27/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106% 71.5-1.		4						
Chloride, SM4500CI-B	mg,	'kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	03/28/2023	ND	432	108	400	0.00	
TPH 8015M	mg,	'kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/28/2023	ND	208	104	200	2.15	
DRO >C10-C28*	<10.0	10.0	03/28/2023	ND	210	105	200	2.19	
EXT DRO >C28-C36	<10.0	10.0	03/28/2023	ND					
Surrogate: 1-Chlorooctane	84.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	85.1	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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### Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC.

WILL KIERDORF PO BOX 201179 AUSTIN TX, 78729

Fax To: (512) 335-0527

Received: 03/22/2023 Sampling Date: 03/21/2023

Reported: 03/29/2023 Sampling Type: Soil

Project Name: SHUDDE 27 CTB Sampling Condition: Cool & Intact
Project Number: Sample Received By: Shalyn Rodriguez

Analyzed By: JH/

Project Location: SILVERBACK EXPL. - ROOSEVELT CO NM

mg/kg

### Sample ID: B - 1 (H231327-11)

BTEX 8021B

DIEX GOZID	mg/kg		Analyzea by: 511/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/27/2023	ND	2.04	102	2.00	12.3	
Toluene*	<0.050	0.050	03/27/2023	ND	2.05	102	2.00	9.52	
Ethylbenzene*	<0.050	0.050	03/27/2023	ND	2.05	103	2.00	7.61	
Total Xylenes*	<0.150	0.150	03/27/2023	ND	6.25	104	6.00	7.22	
Total BTEX	<0.300	0.300	03/27/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1260	16.0	03/28/2023	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/28/2023	ND	208	104	200	2.15	
DRO >C10-C28*	<10.0	10.0	03/28/2023	ND	210	105	200	2.19	
EXT DRO >C28-C36	<10.0	10.0	03/28/2023	ND					
Surrogate: 1-Chlorooctane	93.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	91.4	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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### Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC.

WILL KIERDORF PO BOX 201179 AUSTIN TX, 78729

Fax To: (512) 335-0527

Received: 03/22/2023 Sampling Date: 03/21/2023

Reported: 03/29/2023 Sampling Type: Soil

Project Name: SHUDDE 27 CTB Sampling Condition: Cool & Intact
Project Number: Sample Received By: Shalyn Rodriguez

Analyzed By: JH/

Project Location: SILVERBACK EXPL. - ROOSEVELT CO NM

mg/kg

### Sample ID: B - 2 (H231327-12)

BTEX 8021B

	<u> </u>								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/27/2023	ND	2.04	102	2.00	12.3	
Toluene*	<0.050	0.050	03/27/2023	ND	2.05	102	2.00	9.52	
Ethylbenzene*	<0.050	0.050	03/27/2023	ND	2.05	103	2.00	7.61	
Total Xylenes*	<0.150	0.150	03/27/2023	ND	6.25	104	6.00	7.22	
Total BTEX	<0.300	0.300	03/27/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 % 71.5-1.		4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	800	16.0	03/28/2023	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/28/2023	ND	208	104	200	2.15	
DRO >C10-C28*	<10.0	10.0	03/28/2023	ND	210	105	200	2.19	
EXT DRO >C28-C36	<10.0	10.0	03/28/2023	ND					
Surrogate: 1-Chlorooctane	91.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	91.2	% 49.1-14	8						

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### Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC.

WILL KIERDORF PO BOX 201179 AUSTIN TX, 78729

Fax To: (512) 335-0527

Received: 03/22/2023 Sampling Date: 03/21/2023

Reported: 03/29/2023 Sampling Type: Soil

Project Name: SHUDDE 27 CTB Sampling Condition: Cool & Intact
Project Number: Sample Received By: Shalyn Rodriguez

Analyzed By: JH/

Project Location: SILVERBACK EXPL. - ROOSEVELT CO NM

mg/kg

### Sample ID: B - 3 (H231327-13)

BTEX 8021B

	9/9		7						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/27/2023	ND	2.04	102	2.00	12.3	
Toluene*	<0.050	0.050	03/27/2023	ND	2.05	102	2.00	9.52	
Ethylbenzene*	<0.050	0.050	03/27/2023	ND	2.05	103	2.00	7.61	
Total Xylenes*	<0.150	0.150	03/27/2023	ND	6.25	104	6.00	7.22	
Total BTEX	<0.300	0.300	03/27/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 % 71.5-1.		4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1220	16.0	03/28/2023	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/28/2023	ND	208	104	200	2.15	
DRO >C10-C28*	<10.0	10.0	03/28/2023	ND	210	105	200	2.19	
EXT DRO >C28-C36	<10.0	10.0	03/28/2023	ND					
Surrogate: 1-Chlorooctane	97.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	96.2	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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### Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC.

WILL KIERDORF PO BOX 201179 AUSTIN TX, 78729

Fax To: (512) 335-0527

Received: 03/22/2023 Sampling Date: 03/21/2023

Reported: 03/29/2023 Sampling Type: Soil

Project Name: SHUDDE 27 CTB Sampling Condition: Cool & Intact
Project Number: Sample Received By: Shalyn Rodriguez

Analyzed By: JH/

Project Location: SILVERBACK EXPL. - ROOSEVELT CO NM

mg/kg

### Sample ID: B - 4 (H231327-14)

BTEX 8021B

DIEX GOZID	ilig/ kg		Allulyzed by: 3117						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/27/2023	ND	2.04	102	2.00	12.3	
Toluene*	<0.050	0.050	03/27/2023	ND	2.05	102	2.00	9.52	
Ethylbenzene*	<0.050	0.050	03/27/2023	ND	2.05	103	2.00	7.61	
Total Xylenes*	<0.150	0.150	03/27/2023	ND	6.25	104	6.00	7.22	
Total BTEX	<0.300	0.300	03/27/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2120	16.0	03/28/2023	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/28/2023	ND	208	104	200	2.15	
DRO >C10-C28*	<10.0	10.0	03/28/2023	ND	210	105	200	2.19	
EXT DRO >C28-C36	<10.0	10.0	03/28/2023	ND					
Surrogate: 1-Chlorooctane	100	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	101	% 49.1-14							

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### Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC.

WILL KIERDORF PO BOX 201179 AUSTIN TX, 78729

Fax To: (512) 335-0527

Received: 03/22/2023 Sampling Date: 03/21/2023

Reported: 03/29/2023 Sampling Type: Soil

Project Name: SHUDDE 27 CTB Sampling Condition: Cool & Intact
Project Number: Sample Received By: Shalyn Rodriguez

Analyzed By: JH/

Project Location: SILVERBACK EXPL. - ROOSEVELT CO NM

mg/kg

### Sample ID: B - 5 (H231327-15)

BTEX 8021B

	97.1.9		7						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/27/2023	ND	2.04	102	2.00	12.3	
Toluene*	<0.050	0.050	03/27/2023	ND	2.05	102	2.00	9.52	
Ethylbenzene*	<0.050	0.050	03/27/2023	ND	2.05	103	2.00	7.61	
Total Xylenes*	<0.150	0.150	03/27/2023	ND	6.25	104	6.00	7.22	
Total BTEX	<0.300	0.300	03/27/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 % 71.5-1.		4						
Chloride, SM4500CI-B	mg/	'kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	03/28/2023	ND	432	108	400	0.00	
TPH 8015M	mg/	'kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/28/2023	ND	208	104	200	2.15	
DRO >C10-C28*	<10.0	10.0	03/28/2023	ND	210	105	200	2.19	
EXT DRO >C28-C36	<10.0	10.0	03/28/2023	ND					
Surrogate: 1-Chlorooctane	84.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	84.9	% 49.1-14	8						

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### Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC.

WILL KIERDORF PO BOX 201179 AUSTIN TX, 78729

Fax To: (512) 335-0527

Received: 03/22/2023 Sampling Date: 03/21/2023

Reported: 03/29/2023 Sampling Type: Soil

Project Name: SHUDDE 27 CTB Sampling Condition: Cool & Intact
Project Number: Sample Received By: Shalyn Rodriguez

Analyzed By: JH/

Project Location: SILVERBACK EXPL. - ROOSEVELT CO NM

mg/kg

### Sample ID: B - 6 (H231327-16)

BTEX 8021B

	<u> </u>			. , . ,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/27/2023	ND	2.04	102	2.00	12.3	
Toluene*	<0.050	0.050	03/27/2023	ND	2.05	102	2.00	9.52	
Ethylbenzene*	<0.050	0.050	03/27/2023	ND	2.05	103	2.00	7.61	
Total Xylenes*	<0.150	0.150	03/27/2023	ND	6.25	104	6.00	7.22	
Total BTEX	<0.300	0.300	03/27/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	03/28/2023	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/28/2023	ND	208	104	200	2.15	
DRO >C10-C28*	<10.0	10.0	03/28/2023	ND	210	105	200	2.19	
EXT DRO >C28-C36	<10.0	10.0	03/28/2023	ND					
Surrogate: 1-Chlorooctane	78.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	77.6	% 49.1-14	8						

### Cardinal Laboratories \*=Accredited Analyte

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### Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC.

WILL KIERDORF PO BOX 201179 AUSTIN TX, 78729

Fax To: (512) 335-0527

Received: 03/22/2023 Sampling Date: 03/21/2023

Reported: 03/29/2023 Sampling Type: Soil

Project Name: SHUDDE 27 CTB Sampling Condition: Cool & Intact
Project Number: Sample Received By: Shalyn Rodriguez

Analyzed By: JH/

Project Location: SILVERBACK EXPL. - ROOSEVELT CO NM

mg/kg

### Sample ID: B - 7 (H231327-17)

BTEX 8021B

	9/	9	7111411720	,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/27/2023	ND	2.04	102	2.00	12.3	
Toluene*	< 0.050	0.050	03/27/2023	ND	2.05	102	2.00	9.52	
Ethylbenzene*	<0.050	0.050	03/27/2023	ND	2.05	103	2.00	7.61	
Total Xylenes*	<0.150	0.150	03/27/2023	ND	6.25	104	6.00	7.22	
Total BTEX	<0.300	0.300	03/27/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	03/28/2023	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/28/2023	ND	208	104	200	2.15	
DRO >C10-C28*	<10.0	10.0	03/28/2023	ND	210	105	200	2.19	
EXT DRO >C28-C36	<10.0	10.0	03/28/2023	ND					
Surrogate: 1-Chlorooctane	69.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	68.9	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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### Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC.

WILL KIERDORF PO BOX 201179 AUSTIN TX, 78729

Fax To: (512) 335-0527

Received: 03/22/2023 Sampling Date: 03/21/2023

Reported: 03/29/2023 Sampling Type: Soil

Project Name: SHUDDE 27 CTB Sampling Condition: Cool & Intact
Project Number: Sample Received By: Shalyn Rodriguez

Analyzed By: JH/

Project Location: SILVERBACK EXPL. - ROOSEVELT CO NM

mg/kg

### Sample ID: B - 8 (H231327-18)

BTEX 8021B

	9/	9	7	7: 5::.,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/27/2023	ND	2.04	102	2.00	12.3	
Toluene*	<0.050	0.050	03/27/2023	ND	2.05	102	2.00	9.52	
Ethylbenzene*	<0.050	0.050	03/27/2023	ND	2.05	103	2.00	7.61	
Total Xylenes*	<0.150	0.150	03/27/2023	ND	6.25	104	6.00	7.22	
Total BTEX	<0.300	0.300	03/27/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	03/28/2023	ND	432	108	400	3.64	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/28/2023	ND	208	104	200	2.15	
DRO >C10-C28*	<10.0	10.0	03/28/2023	ND	210	105	200	2.19	
EXT DRO >C28-C36	<10.0	10.0	03/28/2023	ND					
Surrogate: 1-Chlorooctane	81.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	80.7	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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### Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC.

WILL KIERDORF PO BOX 201179 AUSTIN TX, 78729

Fax To: (512) 335-0527

Received: 03/22/2023 Sampling Date: 03/21/2023

Reported: 03/29/2023 Sampling Type: Soil

Project Name: SHUDDE 27 CTB Sampling Condition: Cool & Intact
Project Number: Sample Received By: Shalyn Rodriguez

Analyzed By: JH/

Project Location: SILVERBACK EXPL. - ROOSEVELT CO NM

mg/kg

### Sample ID: B - 9 (H231327-19)

BTEX 8021B

	<u> </u>								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/27/2023	ND	2.04	102	2.00	12.3	
Toluene*	<0.050	0.050	03/27/2023	ND	2.05	102	2.00	9.52	
Ethylbenzene*	<0.050	0.050	03/27/2023	ND	2.05	103	2.00	7.61	
Total Xylenes*	<0.150	0.150	03/27/2023	ND	6.25	104	6.00	7.22	
Total BTEX	<0.300	0.300	03/27/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	03/28/2023	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/28/2023	ND	208	104	200	2.15	
DRO >C10-C28*	<10.0	10.0	03/28/2023	ND	210	105	200	2.19	
EXT DRO >C28-C36	<10.0	10.0	03/28/2023	ND					
Surrogate: 1-Chlorooctane	107	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	108	% 49.1-14	8						

### Cardinal Laboratories \*=Accredited Analyte

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### Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC.

WILL KIERDORF PO BOX 201179 AUSTIN TX, 78729

Fax To: (512) 335-0527

Received: 03/22/2023 Sampling Date: 03/21/2023

Reported: 03/29/2023 Sampling Type: Soil

Project Name: SHUDDE 27 CTB Sampling Condition: Cool & Intact
Project Number: Sample Received By: Shalyn Rodriguez

Analyzed By: JH/

Project Location: SILVERBACK EXPL. - ROOSEVELT CO NM

mg/kg

### Sample ID: B - 10 (H231327-20)

BTEX 8021B

	9/	9	7	7: 5::.,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/27/2023	ND	2.04	102	2.00	12.3	
Toluene*	<0.050	0.050	03/27/2023	ND	2.05	102	2.00	9.52	
Ethylbenzene*	<0.050	0.050	03/27/2023	ND	2.05	103	2.00	7.61	
Total Xylenes*	<0.150	0.150	03/27/2023	ND	6.25	104	6.00	7.22	
Total BTEX	<0.300	0.300	03/27/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	03/28/2023	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/28/2023	ND	208	104	200	2.15	
DRO >C10-C28*	<10.0	10.0	03/28/2023	ND	210	105	200	2.19	
EXT DRO >C28-C36	<10.0	10.0	03/28/2023	ND					
Surrogate: 1-Chlorooctane	104	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	105	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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### Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC.

WILL KIERDORF PO BOX 201179 AUSTIN TX, 78729

Fax To: (512) 335-0527

Received: 03/22/2023 Sampling Date: 03/21/2023

Reported: 03/29/2023 Sampling Type: Soil

Project Name: SHUDDE 27 CTB Sampling Condition: Cool & Intact
Project Number: Sample Received By: Shalyn Rodriguez

Analyzed By: JH/

Project Location: SILVERBACK EXPL. - ROOSEVELT CO NM

mg/kg

### Sample ID: B - 11 (H231327-21)

BTEX 8021B

	91	9	7	7: 5::.,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/27/2023	ND	2.04	102	2.00	12.3	
Toluene*	<0.050	0.050	03/27/2023	ND	2.05	102	2.00	9.52	
Ethylbenzene*	<0.050	0.050	03/27/2023	ND	2.05	103	2.00	7.61	
Total Xylenes*	<0.150	0.150	03/27/2023	ND	6.25	104	6.00	7.22	
Total BTEX	<0.300	0.300	03/27/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	03/28/2023	ND	432	108	400	3.64	
TPH 8015M	mg/	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/28/2023	ND	197	98.6	200	2.14	
DRO >C10-C28*	<10.0	10.0	03/28/2023	ND	183	91.5	200	0.736	
EXT DRO >C28-C36	<10.0	10.0	03/28/2023	ND					
Surrogate: 1-Chlorooctane	78.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	85.1	% 49.1-14	8						

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### Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC.

WILL KIERDORF PO BOX 201179 AUSTIN TX, 78729

Fax To: (512) 335-0527

Received: 03/22/2023 Sampling Date: 03/21/2023

Reported: 03/29/2023 Sampling Type: Soil

Project Name: SHUDDE 27 CTB Sampling Condition: Cool & Intact Project Number: Sample Received By: 6684 Shalyn Rodriguez

Project Location: SILVERBACK EXPL. - ROOSEVELT CO NM

### Sample ID: B - 12 (H231327-22)

BTEX 8021B	mg/	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/27/2023	ND	2.04	102	2.00	12.3	
Toluene*	<0.050	0.050	03/27/2023	ND	2.05	102	2.00	9.52	
Ethylbenzene*	<0.050	0.050	03/27/2023	ND	2.05	103	2.00	7.61	
Total Xylenes*	<0.150	0.150	03/27/2023	ND	6.25	104	6.00	7.22	
Total BTEX	<0.300	0.300	03/27/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	03/28/2023	ND	432	108	400	3.64	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/28/2023	ND	197	98.6	200	2.14	
DRO >C10-C28*	<10.0	10.0	03/28/2023	ND	183	91.5	200	0.736	
EXT DRO >C28-C36	<10.0	10.0	03/28/2023	ND					
Surrogate: 1-Chlorooctane	68.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	68.8	% 49.1-14	8						

### Cardinal Laboratories \*=Accredited Analyte

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### Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC.

WILL KIERDORF PO BOX 201179 AUSTIN TX, 78729

Fax To: (512) 335-0527

Received: 03/22/2023 Sampling Date: 03/21/2023

Reported: 03/29/2023 Sampling Type: Soil

Project Name: SHUDDE 27 CTB Sampling Condition: Cool & Intact
Project Number: Sample Received By: Shalyn Rodriguez

Analyzed By: JH/

Project Location: SILVERBACK EXPL. - ROOSEVELT CO NM

mg/kg

### Sample ID: B - 13 (H231327-23)

BTEX 8021B

	9/	9	7111411720	,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/27/2023	ND	2.04	102	2.00	12.3	
Toluene*	<0.050	0.050	03/27/2023	ND	2.05	102	2.00	9.52	
Ethylbenzene*	<0.050	0.050	03/27/2023	ND	2.05	103	2.00	7.61	
Total Xylenes*	<0.150	0.150	03/27/2023	ND	6.25	104	6.00	7.22	
Total BTEX	<0.300	0.300	03/27/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	03/28/2023	ND	432	108	400	3.64	
TPH 8015M	mg/	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/28/2023	ND	197	98.6	200	2.14	
DRO >C10-C28*	<10.0	10.0	03/28/2023	ND	183	91.5	200	0.736	
EXT DRO >C28-C36	<10.0	10.0	03/28/2023	ND					
Surrogate: 1-Chlorooctane	65.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	67.6	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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### Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC.

WILL KIERDORF PO BOX 201179 AUSTIN TX, 78729

Fax To: (512) 335-0527

Received: 03/22/2023 Sampling Date: 03/21/2023

Reported: 03/29/2023 Sampling Type: Soil

Project Name: SHUDDE 27 CTB Sampling Condition: Cool & Intact Project Number: Sample Received By: Shalyn Rodriguez 6684

Project Location: SILVERBACK EXPL. - ROOSEVELT CO NM

### Sample ID: B - 14 (H231327-24)

BTEX 8021B	mg,	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/27/2023	ND	2.04	102	2.00	12.3	
Toluene*	<0.050	0.050	03/27/2023	ND	2.05	102	2.00	9.52	
Ethylbenzene*	<0.050	0.050	03/27/2023	ND	2.05	103	2.00	7.61	
Total Xylenes*	<0.150	0.150	03/27/2023	ND	6.25	104	6.00	7.22	
Total BTEX	<0.300	0.300	03/27/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	03/28/2023	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/28/2023	ND	197	98.6	200	2.14	
DRO >C10-C28*	<10.0	10.0	03/28/2023	ND	183	91.5	200	0.736	
EXT DRO >C28-C36	<10.0	10.0	03/28/2023	ND					
Surrogate: 1-Chlorooctane	68.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	70.5	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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### Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC.

WILL KIERDORF PO BOX 201179 AUSTIN TX, 78729

Fax To: (512) 335-0527

Received: 03/22/2023 Sampling Date: 03/21/2023

Reported: 03/29/2023 Sampling Type: Soil

Project Name: SHUDDE 27 CTB Sampling Condition: Cool & Intact
Project Number: Sample Received By: Shalyn Rodriguez

Analyzed By: JH/

Project Location: SILVERBACK EXPL. - ROOSEVELT CO NM

mg/kg

### Sample ID: B - 15 (H231327-25)

BTEX 8021B

DILX GOZID	11197	ng .	Alldiyac	a by. 5117					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/27/2023	ND	2.04	102	2.00	12.3	
Toluene*	<0.050	0.050	03/27/2023	ND	2.05	102	2.00	9.52	
Ethylbenzene*	<0.050	0.050	03/27/2023	ND	2.05	103	2.00	7.61	
Total Xylenes*	<0.150	0.150	03/27/2023	ND	6.25	104	6.00	7.22	
Total BTEX	<0.300	0.300	03/27/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	03/28/2023	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/28/2023	ND	197	98.6	200	2.14	
DRO >C10-C28*	<10.0	10.0	03/28/2023	ND	183	91.5	200	0.736	
EXT DRO >C28-C36	<10.0	10.0	03/28/2023	ND					
Surrogate: 1-Chlorooctane	75.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	78.1	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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### Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC.

WILL KIERDORF PO BOX 201179 AUSTIN TX, 78729

Fax To: (512) 335-0527

Received: 03/22/2023 Sampling Date: 03/21/2023

Reported: 03/29/2023 Sampling Type: Soil

Project Name: SHUDDE 27 CTB Sampling Condition: Cool & Intact Project Number: 6684 Sample Received By: Shalyn Rodriguez

Project Location: SILVERBACK EXPL. - ROOSEVELT CO NM

### Sample ID: B - 16 (H231327-26)

BTEX 8021B	mg/	kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/27/2023	ND	2.04	102	2.00	12.3	
Toluene*	<0.050	0.050	03/27/2023	ND	2.05	102	2.00	9.52	
Ethylbenzene*	<0.050	0.050	03/27/2023	ND	2.05	103	2.00	7.61	
Total Xylenes*	<0.150	0.150	03/27/2023	ND	6.25	104	6.00	7.22	
Total BTEX	<0.300	0.300	03/27/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	03/28/2023	ND	432	108	400	3.64	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/28/2023	ND	197	98.6	200	2.14	
DRO >C10-C28*	<10.0	10.0	03/28/2023	ND	183	91.5	200	0.736	
EXT DRO >C28-C36	<10.0	10.0	03/28/2023	ND					
Surrogate: 1-Chlorooctane	81.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	85.3	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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### Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC.

WILL KIERDORF PO BOX 201179 AUSTIN TX, 78729

Fax To: (512) 335-0527

Received: 03/22/2023 Sampling Date: 03/21/2023

Reported: 03/29/2023 Sampling Type: Soil

Project Name: SHUDDE 27 CTB Sampling Condition: Cool & Intact
Project Number: Sample Received By: Shalyn Rodriguez

Analyzed By: JH/

Project Location: SILVERBACK EXPL. - ROOSEVELT CO NM

mg/kg

### Sample ID: B - 17 (H231327-27)

BTEX 8021B

	9/	9	71.14.1, = 0	,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/27/2023	ND	2.04	102	2.00	12.3	
Toluene*	<0.050	0.050	03/27/2023	ND	2.05	102	2.00	9.52	
Ethylbenzene*	<0.050	0.050	03/27/2023	ND	2.05	103	2.00	7.61	
Total Xylenes*	<0.150	0.150	03/27/2023	ND	6.25	104	6.00	7.22	
Total BTEX	<0.300	0.300	03/27/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	03/28/2023	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/28/2023	ND	197	98.6	200	2.14	
DRO >C10-C28*	<10.0	10.0	03/28/2023	ND	183	91.5	200	0.736	
EXT DRO >C28-C36	<10.0	10.0	03/28/2023	ND					
Surrogate: 1-Chlorooctane	73.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	74.8	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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### Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC.

WILL KIERDORF PO BOX 201179 AUSTIN TX, 78729

Fax To: (512) 335-0527

Received: 03/22/2023 Sampling Date: 03/21/2023

Reported: 03/29/2023 Sampling Type: Soil

Project Name: SHUDDE 27 CTB Sampling Condition: Cool & Intact
Project Number: Sample Received By: Shalyn Rodriguez

Analyzed By: JH/

Project Location: SILVERBACK EXPL. - ROOSEVELT CO NM

mg/kg

### Sample ID: B - 18 (H231327-28)

BTEX 8021B

	9,	9	7	7: 5::.,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/27/2023	ND	2.04	102	2.00	12.3	
Toluene*	<0.050	0.050	03/27/2023	ND	2.05	102	2.00	9.52	
Ethylbenzene*	<0.050	0.050	03/27/2023	ND	2.05	103	2.00	7.61	
Total Xylenes*	<0.150	0.150	03/27/2023	ND	6.25	104	6.00	7.22	
Total BTEX	<0.300	0.300	03/27/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1140	16.0	03/28/2023	ND	432	108	400	3.64	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/28/2023	ND	197	98.6	200	2.14	
DRO >C10-C28*	<10.0	10.0	03/28/2023	ND	183	91.5	200	0.736	
EXT DRO >C28-C36	<10.0	10.0	03/28/2023	ND					
Surrogate: 1-Chlorooctane	77.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	78.4	% 49.1-14	8						

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### Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC.

WILL KIERDORF PO BOX 201179 AUSTIN TX, 78729

Fax To: (512) 335-0527

Received: 03/22/2023 Sampling Date: 03/21/2023

Reported: 03/29/2023 Sampling Type: Soil

Project Name: SHUDDE 27 CTB Sampling Condition: Cool & Intact
Project Number: Sample Received By: Shalyn Rodriguez

Analyzed By: JH/

Project Location: SILVERBACK EXPL. - ROOSEVELT CO NM

mg/kg

### Sample ID: B - 19 (H231327-29)

BTEX 8021B

DILX GOZID	11197	, kg	Allulyzo	a by. 5117					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/27/2023	ND	2.04	102	2.00	12.3	
Toluene*	<0.050	0.050	03/27/2023	ND	2.05	102	2.00	9.52	
Ethylbenzene*	<0.050	0.050	03/27/2023	ND	2.05	103	2.00	7.61	
Total Xylenes*	<0.150	0.150	03/27/2023	ND	6.25	104	6.00	7.22	
Total BTEX	<0.300	0.300	03/27/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	800	16.0	03/28/2023	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/28/2023	ND	197	98.6	200	2.14	
DRO >C10-C28*	<10.0	10.0	03/28/2023	ND	183	91.5	200	0.736	
EXT DRO >C28-C36	<10.0	10.0	03/28/2023	ND					
Surrogate: 1-Chlorooctane	64.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	67.1	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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### Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC.

WILL KIERDORF PO BOX 201179 AUSTIN TX, 78729

Fax To: (512) 335-0527

Received: 03/22/2023 Sampling Date: 03/21/2023

Reported: 03/29/2023 Sampling Type: Soil

Project Name: SHUDDE 27 CTB Sampling Condition: Cool & Intact
Project Number: Sample Received By: Shalyn Rodriguez

Analyzed By: JH/

Project Location: SILVERBACK EXPL. - ROOSEVELT CO NM

mg/kg

### Sample ID: B - 20 (H231327-30)

BTEX 8021B

	9/	9	7111411720	,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/28/2023	ND	2.04	102	2.00	12.3	
Toluene*	<0.050	0.050	03/28/2023	ND	2.05	102	2.00	9.52	
Ethylbenzene*	<0.050	0.050	03/28/2023	ND	2.05	103	2.00	7.61	
Total Xylenes*	<0.150	0.150	03/28/2023	ND	6.25	104	6.00	7.22	
Total BTEX	<0.300	0.300	03/28/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	03/28/2023	ND	432	108	400	3.64	
TPH 8015M	mg/	'kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/28/2023	ND	197	98.6	200	2.14	
DRO >C10-C28*	<10.0	10.0	03/28/2023	ND	183	91.5	200	0.736	
EXT DRO >C28-C36	<10.0	10.0	03/28/2023	ND					
Surrogate: 1-Chlorooctane	65.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	67.2	% 49.1-14	8						

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### Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC.

WILL KIERDORF PO BOX 201179 AUSTIN TX, 78729

Fax To: (512) 335-0527

Received: 03/22/2023 Sampling Date: 03/21/2023

Reported: 03/29/2023 Sampling Type: Soil

Project Name: SHUDDE 27 CTB Sampling Condition: Cool & Intact
Project Number: Sample Received By: Shalyn Rodriguez

Project Location: SILVERBACK EXPL. - ROOSEVELT CO NM

### Sample ID: B - 21 (H231327-31)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/28/2023	ND	2.01	100	2.00	0.439	
Toluene*	<0.050	0.050	03/28/2023	ND	2.04	102	2.00	0.588	QR-03
Ethylbenzene*	<0.050	0.050	03/28/2023	ND	2.12	106	2.00	0.201	
Total Xylenes*	<0.150	0.150	03/28/2023	ND	6.49	108	6.00	1.07	
Total BTEX	<0.300	0.300	03/28/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1720	16.0	03/28/2023	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/28/2023	ND	197	98.6	200	2.14	
DRO >C10-C28*	<10.0	10.0	03/28/2023	ND	183	91.5	200	0.736	
EXT DRO >C28-C36	<10.0	10.0	03/28/2023	ND					
Surrogate: 1-Chlorooctane	82.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	85.5	% 49.1-14	8						

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### Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC.

WILL KIERDORF PO BOX 201179 AUSTIN TX, 78729

Fax To: (512) 335-0527

Received: 03/22/2023 Sampling Date: 03/21/2023

Reported: 03/29/2023 Sampling Type: Soil

Project Name: SHUDDE 27 CTB Sampling Condition: Cool & Intact
Project Number: Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: SILVERBACK EXPL. - ROOSEVELT CO NM

mg/kg

### Sample ID: B - 22 (H231327-32)

BTEX 8021B

DILX GOZID	ıııg,	, kg	Allulyzo	.u Dy. 311					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/28/2023	ND	2.01	100	2.00	0.439	
Toluene*	<0.050	0.050	03/28/2023	ND	2.04	102	2.00	0.588	
Ethylbenzene*	<0.050	0.050	03/28/2023	ND	2.12	106	2.00	0.201	
Total Xylenes*	<0.150	0.150	03/28/2023	ND	6.49	108	6.00	1.07	
Total BTEX	<0.300	0.300	03/28/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1170	16.0	03/28/2023	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/28/2023	ND	197	98.6	200	2.14	
DRO >C10-C28*	<10.0	10.0	03/28/2023	ND	183	91.5	200	0.736	
EXT DRO >C28-C36	<10.0	10.0	03/28/2023	ND					
Surrogate: 1-Chlorooctane	88.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	90.7	% 49.1-14	8						

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### Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC.

WILL KIERDORF PO BOX 201179 AUSTIN TX, 78729

Fax To: (512) 335-0527

Received: 03/22/2023 Sampling Date: 03/21/2023

Reported: 03/29/2023 Sampling Type: Soil

Project Name: SHUDDE 27 CTB Sampling Condition: Cool & Intact
Project Number: Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: SILVERBACK EXPL. - ROOSEVELT CO NM

mg/kg

### Sample ID: B - 23 (H231327-33)

BTEX 8021B

DILX GOZID	ıııg,	K9	Allulyzo	a by. 511					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/28/2023	ND	2.01	100	2.00	0.439	
Toluene*	<0.050	0.050	03/28/2023	ND	2.04	102	2.00	0.588	
Ethylbenzene*	<0.050	0.050	03/28/2023	ND	2.12	106	2.00	0.201	
Total Xylenes*	<0.150	0.150	03/28/2023	ND	6.49	108	6.00	1.07	
Total BTEX	<0.300	0.300	03/28/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	108 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	864	16.0	03/28/2023	ND	432	108	400	3.64	
TPH 8015M	mg/	'kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/28/2023	ND	197	98.6	200	2.14	
DRO >C10-C28*	<10.0	10.0	03/28/2023	ND	183	91.5	200	0.736	
EXT DRO >C28-C36	<10.0	10.0	03/28/2023	ND					
Surrogate: 1-Chlorooctane	74.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	77.6	% 49.1-14	8						

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### Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC.

WILL KIERDORF PO BOX 201179 AUSTIN TX, 78729

Fax To: (512) 335-0527

Received: 03/22/2023 Sampling Date: 03/21/2023

Reported: 03/29/2023 Sampling Type: Soil

Project Name: SHUDDE 27 CTB Sampling Condition: Cool & Intact
Project Number: Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: SILVERBACK EXPL. - ROOSEVELT CO NM

mg/kg

### Sample ID: B - 24 (H231327-34)

BTEX 8021B

	9,	9	7	7: 5::					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/28/2023	ND	2.01	100	2.00	0.439	
Toluene*	<0.050	0.050	03/28/2023	ND	2.04	102	2.00	0.588	
Ethylbenzene*	<0.050	0.050	03/28/2023	ND	2.12	106	2.00	0.201	
Total Xylenes*	<0.150	0.150	03/28/2023	ND	6.49	108	6.00	1.07	
Total BTEX	<0.300	0.300	03/28/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	912	16.0	03/28/2023	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/28/2023	ND	197	98.6	200	2.14	
DRO >C10-C28*	<10.0	10.0	03/28/2023	ND	183	91.5	200	0.736	
EXT DRO >C28-C36	<10.0	10.0	03/28/2023	ND					
Surrogate: 1-Chlorooctane	74.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	78.2	% 49.1-14	8						

### Cardinal Laboratories \*=Accredited Analyte

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Celeg D. Freene



### Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC.

WILL KIERDORF PO BOX 201179 AUSTIN TX, 78729

Fax To: (512) 335-0527

Received: 03/22/2023 Sampling Date: 03/21/2023

Reported: 03/29/2023 Sampling Type: Soil

Project Name: SHUDDE 27 CTB Sampling Condition: Cool & Intact
Project Number: Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: SILVERBACK EXPL. - ROOSEVELT CO NM

mg/kg

### Sample ID: B - 25 (H231327-35)

BTEX 8021B

DILX GOZID	ıııg,	, kg	Andryzo	u by. 511					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/28/2023	ND	2.01	100	2.00	0.439	
Toluene*	<0.050	0.050	03/28/2023	ND	2.04	102	2.00	0.588	
Ethylbenzene*	<0.050	0.050	03/28/2023	ND	2.12	106	2.00	0.201	
Total Xylenes*	<0.150	0.150	03/28/2023	ND	6.49	108	6.00	1.07	
Total BTEX	<0.300	0.300	03/28/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1220	16.0	03/28/2023	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/28/2023	ND	197	98.6	200	2.14	
DRO >C10-C28*	<10.0	10.0	03/28/2023	ND	183	91.5	200	0.736	
EXT DRO >C28-C36	<10.0	10.0	03/28/2023	ND					
Surrogate: 1-Chlorooctane	75.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	78.7	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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### Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC.

WILL KIERDORF PO BOX 201179 AUSTIN TX, 78729

Fax To: (512) 335-0527

Received: 03/22/2023 Sampling Date: 03/21/2023

Reported: 03/29/2023 Sampling Type: Soil

Project Name: SHUDDE 27 CTB Sampling Condition: Cool & Intact
Project Number: Sample Received By: Shalyn Rodriguez

Project Location: SILVERBACK EXPL. - ROOSEVELT CO NM

### Sample ID: B - 26 (H231327-36)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/28/2023	ND	2.01	100	2.00	0.439	
Toluene*	<0.050	0.050	03/28/2023	ND	2.04	102	2.00	0.588	
Ethylbenzene*	<0.050	0.050	03/28/2023	ND	2.12	106	2.00	0.201	
Total Xylenes*	<0.150	0.150	03/28/2023	ND	6.49	108	6.00	1.07	
Total BTEX	<0.300	0.300	03/28/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	720	16.0	03/28/2023	ND	432	108	400	3.64	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/28/2023	ND	197	98.6	200	2.14	
DRO >C10-C28*	<10.0	10.0	03/28/2023	ND	183	91.5	200	0.736	
EXT DRO >C28-C36	<10.0	10.0	03/28/2023	ND					
Surrogate: 1-Chlorooctane	80.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	83.6	% 49.1-14	8						

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### Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC.

WILL KIERDORF PO BOX 201179 AUSTIN TX, 78729

Fax To: (512) 335-0527

Received: 03/22/2023 Sampling Date: 03/21/2023

Reported: 03/29/2023 Sampling Type: Soil

Project Name: SHUDDE 27 CTB Sampling Condition: Cool & Intact Project Number: 6684 Sample Received By: Shalyn Rodriguez

Project Location: SILVERBACK EXPL. - ROOSEVELT CO NM

### Sample ID: B - 27 (H231327-37)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/28/2023	ND	2.01	100	2.00	0.439	
Toluene*	<0.050	0.050	03/28/2023	ND	2.04	102	2.00	0.588	
Ethylbenzene*	<0.050	0.050	03/28/2023	ND	2.12	106	2.00	0.201	
Total Xylenes*	<0.150	0.150	03/28/2023	ND	6.49	108	6.00	1.07	
Total BTEX	<0.300	0.300	03/28/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 9	71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1650	16.0	03/28/2023	ND	432	108	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/28/2023	ND	197	98.6	200	2.14	
DRO >C10-C28*	<10.0	10.0	03/28/2023	ND	183	91.5	200	0.736	
EXT DRO >C28-C36	<10.0	10.0	03/28/2023	ND					
Surrogate: 1-Chlorooctane	76.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	80.3	% 49.1-14	8						

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### Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC.

WILL KIERDORF PO BOX 201179 AUSTIN TX, 78729

Fax To: (512) 335-0527

Received: 03/22/2023 Sampling Date: 03/21/2023

Reported: 03/29/2023 Sampling Type: Soil

Project Name: SHUDDE 27 CTB Sampling Condition: Cool & Intact
Project Number: Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: SILVERBACK EXPL. - ROOSEVELT CO NM

mg/kg

### Sample ID: B - 28 (H231327-38)

BTEX 8021B

DILX GOZID	ilig/	, kg	Allulyzo	.u Dy. 311					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/28/2023	ND	2.01	100	2.00	0.439	
Toluene*	<0.050	0.050	03/28/2023	ND	2.04	102	2.00	0.588	
Ethylbenzene*	<0.050	0.050	03/28/2023	ND	2.12	106	2.00	0.201	
Total Xylenes*	<0.150	0.150	03/28/2023	ND	6.49	108	6.00	1.07	
Total BTEX	<0.300	0.300	03/28/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1460	16.0	03/28/2023	ND	416	104	400	3.77	QM-07
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/28/2023	ND	197	98.6	200	2.14	
DRO >C10-C28*	<10.0	10.0	03/28/2023	ND	183	91.5	200	0.736	
EXT DRO >C28-C36	<10.0	10.0	03/28/2023	ND					
Surrogate: 1-Chlorooctane	71.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	75.7	% 49.1-14	8						

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### Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC.

WILL KIERDORF PO BOX 201179 AUSTIN TX, 78729

Fax To: (512) 335-0527

Received: 03/22/2023 Sampling Date: 03/21/2023

Reported: 03/29/2023 Sampling Type: Soil

Project Name: SHUDDE 27 CTB Sampling Condition: Cool & Intact
Project Number: Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: SILVERBACK EXPL. - ROOSEVELT CO NM

mg/kg

### Sample ID: B - 29 (H231327-39)

BTEX 8021B

DILX GOZID	ıııg,	, kg	Allulyzo	.u Dy. 311					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/28/2023	ND	2.01	100	2.00	0.439	
Toluene*	<0.050	0.050	03/28/2023	ND	2.04	102	2.00	0.588	
Ethylbenzene*	<0.050	0.050	03/28/2023	ND	2.12	106	2.00	0.201	
Total Xylenes*	<0.150	0.150	03/28/2023	ND	6.49	108	6.00	1.07	
Total BTEX	<0.300	0.300	03/28/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	912	16.0	03/28/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/28/2023	ND	197	98.6	200	2.14	
DRO >C10-C28*	<10.0	10.0	03/28/2023	ND	183	91.5	200	0.736	
EXT DRO >C28-C36	<10.0	10.0	03/28/2023	ND					
Surrogate: 1-Chlorooctane	70.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	73.7	% 49.1-14	8						

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### Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC.

WILL KIERDORF PO BOX 201179 AUSTIN TX, 78729

Fax To: (512) 335-0527

Received: 03/22/2023 Sampling Date: 03/21/2023

Reported: 03/29/2023 Sampling Type: Soil

Project Name: SHUDDE 27 CTB Sampling Condition: Cool & Intact
Project Number: Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: SILVERBACK EXPL. - ROOSEVELT CO NM

mg/kg

### Sample ID: B - 30 (H231327-40)

BTEX 8021B

	9,	9	7	7: 5::					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/28/2023	ND	2.01	100	2.00	0.439	
Toluene*	<0.050	0.050	03/28/2023	ND	2.04	102	2.00	0.588	
Ethylbenzene*	<0.050	0.050	03/28/2023	ND	2.12	106	2.00	0.201	
Total Xylenes*	<0.150	0.150	03/28/2023	ND	6.49	108	6.00	1.07	
Total BTEX	<0.300	0.300	03/28/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	03/28/2023	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/28/2023	ND	197	98.6	200	2.14	
DRO >C10-C28*	<10.0	10.0	03/28/2023	ND	183	91.5	200	0.736	
EXT DRO >C28-C36	<10.0	10.0	03/28/2023	ND					
Surrogate: 1-Chlorooctane	75.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	77.7	% 49.1-14	8						

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### Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC.

WILL KIERDORF PO BOX 201179 AUSTIN TX, 78729

Fax To: (512) 335-0527

Received: 03/22/2023 Sampling Date: 03/21/2023

Reported: 03/29/2023 Sampling Type: Soil

Project Name: SHUDDE 27 CTB Sampling Condition: Cool & Intact Project Number: 6684 Sample Received By: Shalyn Rodriguez

Project Location: SILVERBACK EXPL. - ROOSEVELT CO NM

### Sample ID: B - 31 (H231327-41)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/28/2023	ND	2.01	100	2.00	0.439	
Toluene*	<0.050	0.050	03/28/2023	ND	2.04	102	2.00	0.588	
Ethylbenzene*	<0.050	0.050	03/28/2023	ND	2.12	106	2.00	0.201	
Total Xylenes*	<0.150	0.150	03/28/2023	ND	6.49	108	6.00	1.07	
Total BTEX	<0.300	0.300	03/28/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	768	16.0	03/28/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2023	ND	191	95.5	200	1.68	
DRO >C10-C28*	<10.0	10.0	03/27/2023	ND	185	92.4	200	3.11	
EXT DRO >C28-C36	<10.0	10.0	03/27/2023	ND					
Surrogate: 1-Chlorooctane	94.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	99.2	% 49.1-14	8						

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### Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC.

WILL KIERDORF PO BOX 201179 AUSTIN TX, 78729

Fax To: (512) 335-0527

Received: 03/22/2023 Sampling Date: 03/21/2023

Reported: 03/29/2023 Sampling Type: Soil

Project Name: SHUDDE 27 CTB Sampling Condition: Cool & Intact Project Number: Sample Received By: Shalyn Rodriguez 6684

Project Location: SILVERBACK EXPL. - ROOSEVELT CO NM

### Sample ID: B - 32 (H231327-42)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/28/2023	ND	2.01	100	2.00	0.439	
Toluene*	<0.050	0.050	03/28/2023	ND	2.04	102	2.00	0.588	
Ethylbenzene*	<0.050	0.050	03/28/2023	ND	2.12	106	2.00	0.201	
Total Xylenes*	<0.150	0.150	03/28/2023	ND	6.49	108	6.00	1.07	
Total BTEX	<0.300	0.300	03/28/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	768	16.0	03/28/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2023	ND	191	95.5	200	1.68	
DRO >C10-C28*	<10.0	10.0	03/27/2023	ND	185	92.4	200	3.11	
EXT DRO >C28-C36	<10.0	10.0	03/27/2023	ND					
Surrogate: 1-Chlorooctane	78.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	88.3	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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Celeg D. Kreene



### Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC.

WILL KIERDORF PO BOX 201179 AUSTIN TX, 78729

Fax To: (512) 335-0527

Received: 03/22/2023 Sampling Date: 03/21/2023

Reported: 03/29/2023 Sampling Type: Soil

Project Name: SHUDDE 27 CTB Sampling Condition: Cool & Intact
Project Number: Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: SILVERBACK EXPL. - ROOSEVELT CO NM

mg/kg

### Sample ID: B - 33 (H231327-43)

BTEX 8021B

	<u> </u>			. ,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/28/2023	ND	2.01	100	2.00	0.439	
Toluene*	<0.050	0.050	03/28/2023	ND	2.04	102	2.00	0.588	
Ethylbenzene*	<0.050	0.050	03/28/2023	ND	2.12	106	2.00	0.201	
Total Xylenes*	<0.150	0.150	03/28/2023	ND	6.49	108	6.00	1.07	
Total BTEX	<0.300	0.300	03/28/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	03/28/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2023	ND	191	95.5	200	1.68	
DRO >C10-C28*	<10.0	10.0	03/27/2023	ND	185	92.4	200	3.11	
EXT DRO >C28-C36	<10.0	10.0	03/27/2023	ND					
Surrogate: 1-Chlorooctane	86.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	92.9	% 49.1-14	8						

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### Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC.

WILL KIERDORF PO BOX 201179 AUSTIN TX, 78729

Fax To: (512) 335-0527

Received: 03/22/2023 Sampling Date: 03/21/2023

Reported: 03/29/2023 Sampling Type: Soil

Project Name: SHUDDE 27 CTB Sampling Condition: Cool & Intact Project Number: Sample Received By: Shalyn Rodriguez 6684

Project Location: SILVERBACK EXPL. - ROOSEVELT CO NM

### Sample ID: B - 34 (H231327-44)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/28/2023	ND	2.01	100	2.00	0.439	
Toluene*	<0.050	0.050	03/28/2023	ND	2.04	102	2.00	0.588	
Ethylbenzene*	<0.050	0.050	03/28/2023	ND	2.12	106	2.00	0.201	
Total Xylenes*	<0.150	0.150	03/28/2023	ND	6.49	108	6.00	1.07	
Total BTEX	<0.300	0.300	03/28/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	03/28/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2023	ND	191	95.5	200	1.68	
DRO >C10-C28*	<10.0	10.0	03/27/2023	ND	185	92.4	200	3.11	
EXT DRO >C28-C36	<10.0	10.0	03/27/2023	ND					
Surrogate: 1-Chlorooctane	77.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	81.8	% 49.1-14	8						

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### Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC.

WILL KIERDORF PO BOX 201179 AUSTIN TX, 78729

Fax To: (512) 335-0527

Received: 03/22/2023 Sampling Date: 03/21/2023

Reported: 03/29/2023 Sampling Type: Soil

Project Name: SHUDDE 27 CTB Sampling Condition: Cool & Intact
Project Number: Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: SILVERBACK EXPL. - ROOSEVELT CO NM

mg/kg

### Sample ID: B - 35 (H231327-45)

BTEX 8021B

	9,	9	7	7: 5::					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/28/2023	ND	2.01	100	2.00	0.439	
Toluene*	<0.050	0.050	03/28/2023	ND	2.04	102	2.00	0.588	
Ethylbenzene*	<0.050	0.050	03/28/2023	ND	2.12	106	2.00	0.201	
Total Xylenes*	<0.150	0.150	03/28/2023	ND	6.49	108	6.00	1.07	
Total BTEX	<0.300	0.300	03/28/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	03/28/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2023	ND	191	95.5	200	1.68	
DRO >C10-C28*	<10.0	10.0	03/27/2023	ND	185	92.4	200	3.11	
EXT DRO >C28-C36	<10.0	10.0	03/27/2023	ND					
Surrogate: 1-Chlorooctane	88.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	95.8	% 49.1-14	8						

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### **Notes and Definitions**

QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS

recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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### 101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

Company Name:

inalyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable PLEASE NOTE: Liability and Da Relina Pishad By R 2.0 Relinquished By service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business #23 132 Sampler Name: Project Location: Project Name: City: Project #: Phone #: Address: Project Manager: Lab I.D. FOR LAB USE ONLY 200 16 WW 512-497-1556 Shudde 27 CTB Shudde 27 CTB Will Kierdorf Ranger Environmental Services, Inc. PO Box 201179 Sample I.D. W-10 B 2 W-9 ₩-8 W-7 ₩-6 W-5 W-4 W-3 W-2 Time: //Чо Date: Time: \$22.23 Fax #: Project Owner: State: remedy for any claim Z Received By Received **a** 0 0 0 0 0 **@** G 0 0 0 ω (G)RAB OR (C)OMP 512-335-0527 Zip: 78720 # CONTAINERS GROUNDWATER WASTEWATER × × × uptions, loss of use, or loss of profits incurred by client, its subsidiaries  $\times$ × × × × × × × × SOIL MATRIX OIL SLUDGE OTHER Fax #: Phone #: 210-874-2406 State: NM Address: 108 S. 4th St Attn: Mark Ritchie Company: P.O. #: ACID/BASE PRESERV × × × × × × × × × × × ICE / COOL OTHER BILL TO 3-21-23 3-21-23 3-21-23 3-21-23 3-21-23 3-21-23 3-21-23 3-21-23 3-21-23 3-21-23 3-21-23 3-21-23 3-21-23 Zip: 88211 Silverback Exploration DATE SAMPLING Fax Result: REMARKS: Phone Result: 1234 1230 1136 1232 1134 1132 1130 1128 1126 1124 1122 1118 1120 TIME × × × × × × × × × ×  $\times$ × TPH: (8015) EXT Yes × × × × × × × × × × × BTEX (8021B) × × × × 00 × × × × × × × Chloride (SM 4500) No Add'l Phone #: Add'l Fax #: ANALYSIS REQUEST

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

FORM-006 R 2.0

s. Please fax written changes to 575-393-2476 Sampler - UPS - Bus - Other Delivered By: (Circle One) Cool Intact

Yes Yes Sample Condition CHECKED BY: (Initials)

# 101 East Marland, Hobbs, NM 88240

(575) 393-2326 FAX (575) 393-2476 Ranger Environmental Services, Inc.

BILL

70

ANALYSIS

REQUEST

Project Manager: Company Name:

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

FORM-006 R 2.0

s. Please fax written changes to 575-393-2476 Sampler - UPS - Bus - Other: Delivered By: (Circle One) えっつう) こつ・しょ 1.6 D No D No Sample Condition Cool Intact CHECKED BY:

### Page 108 of 113

## CARDINA Laboratorie

## 101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

Company Name:	Ranger Environmental Services, Inc.	īc.	- 1	- 1	- 1	- 1	- 1	- 1					RILL	770		1	l					ı											1
Project Manager:	Will Kierdorf									P.O. #	#	- 1	ı			7	1		]	ANALYSIS	45	<u>8</u>		REQUEST	ľč	-ES	17	1		1	1	1	1
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City: Austin	State: TX		Zip: 78720	787	ŏ					4	: 5	Attn: Mark	0	DIVERDACK	Silverback Exploration									_		_						_	
Phone #: 512-497-1556	Fax #:		512-335-0527	35-	052	7				Address:	res	9	108	108 S 4th St												_							
Project #: 6684	Project Owner:									City.		Атосіо	0											_		_							
Project Name: Shi	Shudde 27 CTB								_			100												_									
Project Location:	Shudde 27 CTB								-	Diane. INIVI	ď			cip: 00211																			
Opmala N	C. C								_	Phone #:	ne #		210-8	210-874-2406										_									
Sampler Name:	J. Martinez								_	Fax #:	*													_									
FOR LAB USE ONLY		$\dashv$	$\dashv$	$\dashv$	-	3	MATRIX	×	ŀ	닊	R	PRESERV	4	SAMPI	Š									_									
		OMP.							_	-	- 6	- 5		SAMPLING	NG	т		(00)															
Lab I.D. #23:327	Sample I.D.	(G)RAB OR (C)	# CONTAINERS	GROUNDWATE	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	CE / COOL	OTHER:	THEK;	DATE	T M	PH: (8015) EX	TEX (8021B)	hloride (SM 45)															
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tot	B-24	G	_			×				_	×		ω	3-21-23	1412	×	×	×	+			+			$\perp$		+		+		+		
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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

## CARDINA! Laboratorie 101 East Marland, Hobbs, NM 88:

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

State: TX   Zip: 78720   Athn: Mark Ritchie	State: TX Zip:78720   Anth: Mark Ricchie	Project Manager:	Ranger Environmental Services, Inc. Will Kierdorf	Inc.							7	P.O. #	*	B	BILL TO		71	11	11
State: TX Zip: 78720   Athn: Mark Ritchile	State: TX Zip: 78720	Address:	PO Box 201179								0	m	ban	۱ 🗈	Silverback	Exploration			
2497-1556   Fax #:   512-335-0527   Address: 108 S. 4th St.     34	Time:	City: Austin	F	×	Zip:	787	20				>	#	<b>Z</b>	R R	itchie	and the second second			
Shudde 27 CTB   State: NM Zip: 88211	Sample I.D.   Sample I.D.   Sample I.D.   Sate: NM Zip: 88211	Phone #: 512-49			512-	335	052	7			A	ddn	SSS	000	8 S. 4th St.				
Shudde 27 CTB	Sample I.D.	Project #: 6684	Project Ov								0	2	4	D					
Shudde 27 CTB	Shudde 27 CTB	Project Name: Sh									SO .	tate	2	1		2			
Fax #:   F	Sample I.D.    Pack     Pack     Pack	Project Location:	Shudde 27 CTB								ס	hon	#	210	1.874.2406				
Sample I.D.    COMP   CONTRIX   PRESERV   SAMPLING	B-30  B-30  G 1 GRADINERS  B-31  G 1 GRADINERS  B-32  G 1 MATRIX PRESERV, SAMPLING  B-32  G 1 MATRIX PRESERV, SAMPLING  B-31  B-32  G 1 MATRIX PRESERV, SAMPLING  B-32  G 1 MATRIX PRESERV, SAMPLING  B-31  G 1 MATRIX PRESERV, SAMPLING  B-32  G 1 MATRIX PRESERV, SAMPLING  B-30  G 1 MATRIX PRESERV, SAMPLING  B-31  G 1 MATRIX PRESERV, SAMPLING  B-32  G 1 MATRIX PRESERV, SAMPLING  TIME  THE (8001B)  ACIC JCE	Sampler Name:	J. Martinez								n :		1	1	VOLT 110.				
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B-31   G   1   X   X   3-21-23   1426   X   X   X   X   X   X   X   X   X	B-31	40		4	_	_	-		-	-	-	_	( IC	0	DATE	TIME	TP	ВТ	Ch
B-32   G   1   X   3-21-23   1426   X   X   X   X   X   X   X   X   X	B-32	14		4	-		+	< >	1				< ×	_	3-21-23	1424	×	×	×
B-33  G 1	B-33  G 1 X X 3-21-23 1428 X X X X B-34  B-34  G 1 X X 3-21-23 1430 X X X X X X X X B-35  B-35  G 1 X X 3-21-23 1430 X X X X X X X X B-35  G 1 X X 3-21-23 1432 X X X X X X X X B-35  G 1 X X 3-21-23 1432 X X X X X X X X X B-35  G 1 X X X 3-21-23 1432 X X X X X X X X X B-35  G 1 X X X 3-21-23 1432 X X X X X X X X X X X X X X X X X X X	42		1		+	+	,	+	$^{\dagger}$	T		×		3-21-23	1426	×	×	×
B-34  G 1 X X 3-21-23 1430 X X X  B-35  G 1 X X 3-21-23 1432 X X X  B-35  G 1 X X 3-21-23 1432 X X X X  G 1 X X 3-21-23 1432 X X X X  G 1 X X 3-21-23 1434 X X X X  Dranger. Cardina's lability and client's auxilustive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the first incidental or conversperant damages, including without fembetistics, business retemptions, loss of use, or base of profits incurred by client, its subbidiaries, of or related to the performance of services herearder by Cardinal, regardless of whether such claim is based upon any of the above stated resource or otherwise.  Date:  3-21-23 1432 X X X X X  Received By:  Phone Result:  Yes  No  REMARDER: No	B-34  G 1	62		-	+	-	+	. >	+	+	T		×	_	3-21-23	1428	×	×	×
B-35  G 1	B-35  G 1	Jul Jul		-	-	+	+	>	1	$\dagger$	I		×	_	3-21-23	1430	×	×	×
G 1	G 1	1457			-		+	×	-				×	_	3-21-23	1432	×	×	×
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G 1  Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the final be facility to correspond damages, holizing without limitation, business made in writing and received by Cardinal within 30 days after completion of the applicable out or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated resons or otherwise.    Contract   Con	G 1  G 1  G 1  G 1  G 1  G 1  G 1  G 1			_	-	-												_	-
G 1  Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the three for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stristed resource or otherwise.  Time:  Time:  Yes □ No  REMARKEN:	G 1  G 1  G 1  G 1  G 1  G 1  G 1  G 1			_	_	_								_				_	_
G 1  Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be linked to the amount paid by the client for the those for regiligence and any other cause whitsoever shall be deemed walved unless made in writing and received by Cardinal within 30 days after completion of the applicable final be liable for incidental or consequential damages, including without incidence, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.	g 1  res. Cardinal's liability and client's exclusive remedy for any claim striang whether based in contract or tort, shall be limited to the amount paid by the client for the liabile for incidential or corresopantial damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reservoir or otherwise.    Date:   Received By:   Phone Result:   Yes   No   Remarks:   Yes   No   No   Remarks:   Yes   No   No   Remarks:   Yes   No   No   Yes   Yes   No   No   Yes   No   No   Yes   Yes   No   Yes   No   Yes   No   Yes   No   Yes   Yes   No   Yes   Yes   No   Yes   Y			-	-	-								-				4	$\perp$
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Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the those for negligence and any other cause whatboover that be deemed walved unless made in writing and received by Cardinal within 30 days after completion of the applicable for incidental or corresponding without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is breed upon any of the above stated reasons or otherwise.    Phone Result:   Yes   No   REMARKS.   No	res. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the liable for incidental or correspond damages, including without femiliation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries,  Trelated to the performance of any does hereundar by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.  Phone Result:  Yes  No  Time:  Received By:  Time:  Received By:			_									-	-			4	-	+
those for regisjence and any other a successer remony for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the final be facilitied or consequental damages, including without divisions and recolved by Cardinal within 30 days after completion of the applicable out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.    Date: 3-11.73   Received By:   Phone Result:   Yes   No	Time:    Date:   Received By:   Received By:   Time:   Time:   Received By:   Time:   Received By:   Received B	LEASE NOTE: Liability and Dama	tes Cardina's liability and disselfs available.		1	Н								$\vdash$			4	_	+
Time: Received By:  Phone Result:   Phone Result:   Pess   No  REMARKS:   Phone Result:   Pess   No  REMARKS:   REMARKS:  REMAR	Time:  Received By:  Phone Result:	yses. All claims including those toe. In no event shall Cardinal bates or successors arising out of the control	or regigence and any other cause whatsoever shall be slable for incidental or consequental damages, including or related to the performance of services hereunder by	eny clain deemed without Cardinal	waived i imitation regard	wheth ariess , busing ess of	er base made i made i made i made i	ed in co	ontract ng and ions, lo ions, lo	receives of use has	shall ed by ( se, or ed upo	be limi Cardin loss o	ed to with	the am 1 30 da incurr bove s	ourt paid by the ys after complet ed by client, its a stated reasons or	client for the on of the applicable ubsideries, otherwise		-	-
	Date: Time:	A-M	\$	<b>↑</b> 20	eceiv	Sed ed	<b>₩</b>	2	20	9	2	>	8			Phone Result: Fax Result: REMARKS:			

FORM-006 R 2.0

Delivered By: (Circle One) s. Please fax written changes to 575-393-2476 Sampler - UPS - Bus - Other Cool Intact

A Yes A Yes

No No No Sample Condition CHECKED BY: (Initials)





3:48 PM (27 minutes ago) 🐈 👆 🚦





Mark Ritchie

to Mike,, me 🕶

Mr. Bratcher, please be advised that we will be taking confirmation samples next Tuesday 3/21/23 in pursuit of closure for incidents nAPP2302538491 and nAPP2302541490 at the Shudde 27 CTB facility.

Respectfully,

Mark Ritchie

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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 207688

### **CONDITIONS**

Operator:	OGRID:
Silverback Operating II, LLC	330968
19707 IH10 West, Suite 201	Action Number:
San Antonio, TX 78256	207688
	Action Type:
	[C-141] Release Corrective Action (C-141)

### CONDITIONS

Created	By Condition	Condition Date
rhamle	We have received your closure report and final C-141 for Incident #NAPP2302541480 SHUDDE 27 CTB, thank you. This closure is approved.	8/31/2023