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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 of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection) Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling) Description of remediation activities 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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete. Printed Name: Mark Ritchie ______ Title: HSE Manager _____ Signature: MArk Ritchia Date: 4/13/2023 email: mritchie@silverbackexp.com Telephone: 210-874-2406 **OCD Only** Received by: _____ Jocelyn Harimon _____ Date: 04/13/2023 Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations. Closure Approved by: <u>Robert Hamlet</u> Date: <u>8/31/2023</u> 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

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Mr. William Kierdorf, REM Project Manager

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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
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- 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 <u>Depth-to-Groundwater</u>

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 <u>Wellhead Protection Area</u>

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 <u>Closure Criteria</u>

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)

*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.

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 <u>Site Remediation and Confirmation Sampling</u>

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

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 <u>Waste Disposal</u>

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 <u>Site Backfill & Re-seeding</u>

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 <u>Closure Request</u>

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.

FORM C-141

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

Responsible Party Silverback Operating	OGRID 330968
Contact Name Mark Ritchie	Contact Telephone 210-874-2406
Contact email mritchie@silverbackexp.com	Incident # (assigned by OCD)
Contact mailing address 108 S. 4th st Artesia, NM 88211	· · · · · · · · · · · · · · · · · · ·

Location of Release Source

Latitude 32.722668

(NAD 83 in decimal degrees to 5 decimal places)

Site Name Shudde 27 CTB	Site Type Central Tank Battery
Date Release Discovered 1-13-2023	API# (if applicable)

Unit Letter	Section	Township	Range	County
D	26	18S	26E	Eddy

HINKLE, R R COMPANY, INC & SCHERTZ, MORRIS E Surface Owner: State Federal Tribal Private (Name:

Nature and Volume of Release

Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
Produced Water	Volume Released (bbls) 20	Volume Recovered (bbls) 20
, <u> </u>	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	Yes No
Condensate	Volume Released (bbls)	Volume Recovered (bbls)
🗌 Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release Water hauler left water load line valve open. Mistake was caught shortly after by next truck who began to recover standing fluid.

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m C-141	State of New Mexico		Incident ID	nAPP2302538491
2	Oil Conservation Divisi	on	District RP	IIAFF2302336491
			Facility ID	
			Application ID	
				n a de la competencia
Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the	responsible party conside	er this a major release	?
Yes No				
If YES, was immediate	notice given to the OCD? By whom?	To whom? When and by	y what means (phone,	email, etc)?
			2	
	-			
	Initia	al Response		
The responsible	e party must undertake the following actions imm	nediately unless they could crea	ate a safety hazard that wo	uld result in injury
The source of the re	lease has been stopped.			
The impacted area h	as been secured to protect human healt	• • • • • • • • • • • • • • • • • • •		
Ine impueted area in	as been secured to protect numan near	h and the environment.		
			ds, or other containm	ent devices.
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Received by OCD: 4/13/2023 3:27:18 PM



Volume Justification Sheet – Silverback Form 018

Volume Jus	stification		
This form is to be used to convey justification of spill volun	nes in the event of a rele	ease. Clearly	y indicate by
calculations or description in the space provided below.			
Justification: Run ticket from water hauler who re	moved standing fluid	d showing	20bbls.
Alliance Trucking, LLC PO Box 1599 Artesia, New Mexico, 88211 (575) 736-7468 Company: Silver Bach	Date: 🕻	N	
Lease: Schodde &7 CTB	Ordered By: R	afael	
Rig #: AFE #:	County:	Eddy Co	inty Nm
		RATE	CHARGE
FW Ticket #	BBLS		
BW Ticket #	BBLS		
SWD Ticket # 955-16349	BBLS 120.	.90	TOD
Chemical	GLNS	0	
Start Time & 00 am / 0 End Time 8,07 am /	Total Hours 6 hrs.	95a	570
DESCRÍPTION	0 1 11		
Prove to location, and the water from the ar clean the best and top from the frach pound to public. Swo and dra home (20 BBY spill)	OFF ond take it we backsubtotal TAX		Le Po.
Driver: Danel 7 Jebonn I	Trk #: 68 TOTAL		
Received By:	Pump Truck	X Vacu	um Truck
Approved by: Mark Ritchie	Date: 1/25/2023		

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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

District IV 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

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
jharimon	None	1/30/2023

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Action 179572

Received by OCD: 4/13/2023 3:27:18 PM Form C-141 State of New Mexico

Oil Conservation Division

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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?	<u>~75' (ft bgs)</u>
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 not on an exploration, development, production, or storage site?	🛛 Yes 🗌 No

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

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

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Field data

Page 3

- Data table of soil contaminant concentration data
- \boxtimes Depth to water determination
- Determination of water sources and significant watercourses within ¹/₂-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.

Received by OCD: 4/13/2023 3:	27:18 PM State of New Mexico			Page 14 of 113
			Incident ID	nAPP2302538491
Page 4	Oil Conservation Division		District RP	
			Facility ID	
			Application ID	
regulations all operators are requir public health or the environment. failed to adequately investigate and	tchie	fications and perform OCD does not relieve to groundwater, s	m corrective actions for rele e the operator of liability sho surface water, human health ompliance with any other fea anager	eases which may endanger ould their operations have or the environment. In
OCD Only Received by: Jocelyn H	larimon	Date:(04/13/2023	

Page 6

Oil Conservation Division

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 of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection) Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling) Description of remediation activities 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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete. Printed Name: Mark Ritchie Title: HSE Manager Signature: MArk Ritchis Date: 4/13/2023 Telephone: 210-874-2406 email: mritchie@silverbackexp.com **OCD Only** Received by: _____ Jocelyn Harimon _____ Date: 04/13/2023 Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations. Closure Approved by: _____ Date: _____ Title: Printed Name:

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	

Release Notification

Responsible Party

Responsible Party Silverback Operating	OGRID 330968	
Contact Name Mark Ritchie	Contact Telephone 210-874-2406	
Contact email mritchie@silverbackexp.com	Incident # (assigned by OCD)	
Contact mailing address 108 S. 4th st Artesia, NM 88211		

Location of Release Source

Latitude 32.722668

(NAD 83 in decimal degrees to 5 decimal places)

Site Name Shudde 27 CTB	Site Type Central Tank Battery
Date Release Discovered 1-19-2023	API# (if applicable)

Unit Letter	Section	Township	Range	County] ·
D	26	18S	26E	Eddy	

HINKLE, R R COMPANY, INC & SCHERTZ, MORRIS E Surface Owner: State Federal Tribal Private (Name:

Nature and Volume of Release

Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
Produced Water	Volume Released (bbls) 15	Volume Recovered (bbls) 15
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	Yes No
Condensate	Volume Released (bbls)	Volume Recovered (bbls)
Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
^{Cause of Release} Loc neg	ked out valve on water load line had enou ected to close after attempting to fill their	gh room to partially open and water hauler truck.

	State of New Mexi	0	Incident ID	nAPP2302541480
e 2	Oil Conservation Div	ision	District RP	
			Facility ID	* -10
			Application ID	in particular
Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the second s	he responsible party consid	ler this a major release?	2
	2.0			
🗌 Yes 🔳 No				
If YES, was immediate r	notice given to the OCD? By whom	? To whom? When and b	y what means (phone,	email, etc)?
	-			
	Ini	tial Response		
		nai Kesponse		
The responsible	party must undertake the following actions	immediately unless they could cre	eate a safety hazard that wou	ld result in injury
The source of the rel	ease has been stopped.			
		14 14 1		
The impacted area has	as been secured to protect human he	ealth and the environment.		
	ave been contained via the use of be		ads, or other containme	nt devices.
Released materials h	2 (* 19 8)	erms or dikes, absorbent pa		nt devices.
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Volume Justification Sheet – Silverback Form 018

Volume Ju	stification
This form is to be used to convey justification of spill volur	nes in the event of a release. Clearly indicate by
calculations or description in the space provided below.	
Justification: Run ticket from water hauler who re	moved standing fluid showing 15bbls.
Alliance Trucking, Luc De Box 1599 Artesia, New Mexico, 887 (575) 736-7468 Lease: Lease: Hig #: FW Ticket # BW Ticket # SWD Ticket # Dicket # SWD Ticket # SWD	DELIVERY TICKET: Date: /-19-8083 Ordered By:
10 top 014 .	1 4
Driver: Dovel & laborn	Trk #: 68 TOTAL
Received By:	Pump Truck Vacuum Truck
Approved by: Mark Ritchie	Date: 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

District IV 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

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 1/30/2023 jharimon None

.

CONDITIONS

Action 179577

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Oil Conservation Division

	rage 20 0J 11
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?	<u>~75' (ft bgs)</u>
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 not on an exploration, development, production, or storage site?	🛛 Yes 🗌 No

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

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

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Field data

Page 3

- Data table of soil contaminant concentration data
- \boxtimes Depth to water determination
- Determination of water sources and significant watercourses within ¹/₂-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.

<i>leceived by OCD: 4/13/2</i>	023 3:27:18 PM State of New Mexico				Page 21 of
				Incident ID	nAPP2302541480
age 4 Oil Co	Oil Conservation Divisio	Oil Conservation Division			
				Application ID	
failed to adequately investi addition, OCD acceptance and/or regulations. Printed Name: <u>Mark</u>	Ritchia	threat to gro r of responsi Title: Date:	undwater, surfac	ee water, human health iance with any other fe ger	or the environment. In

Page 6

Oil Conservation Division

Incident ID	nAPP2302541480
District RP	
Facility ID	
Application ID	

Closure

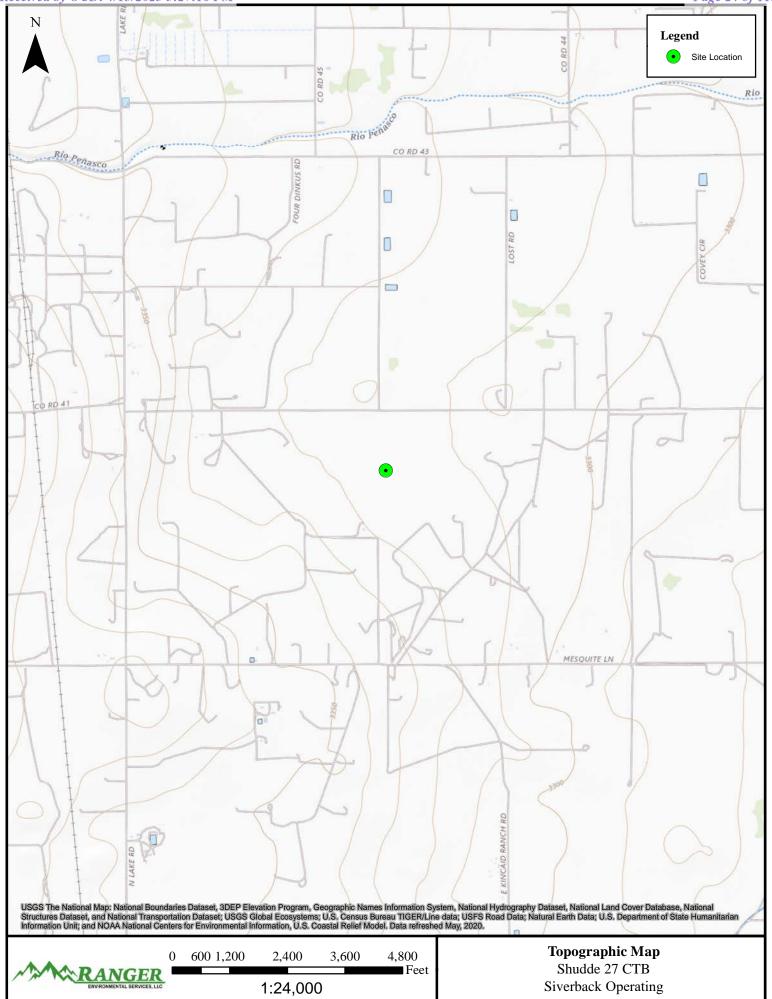
The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled 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.

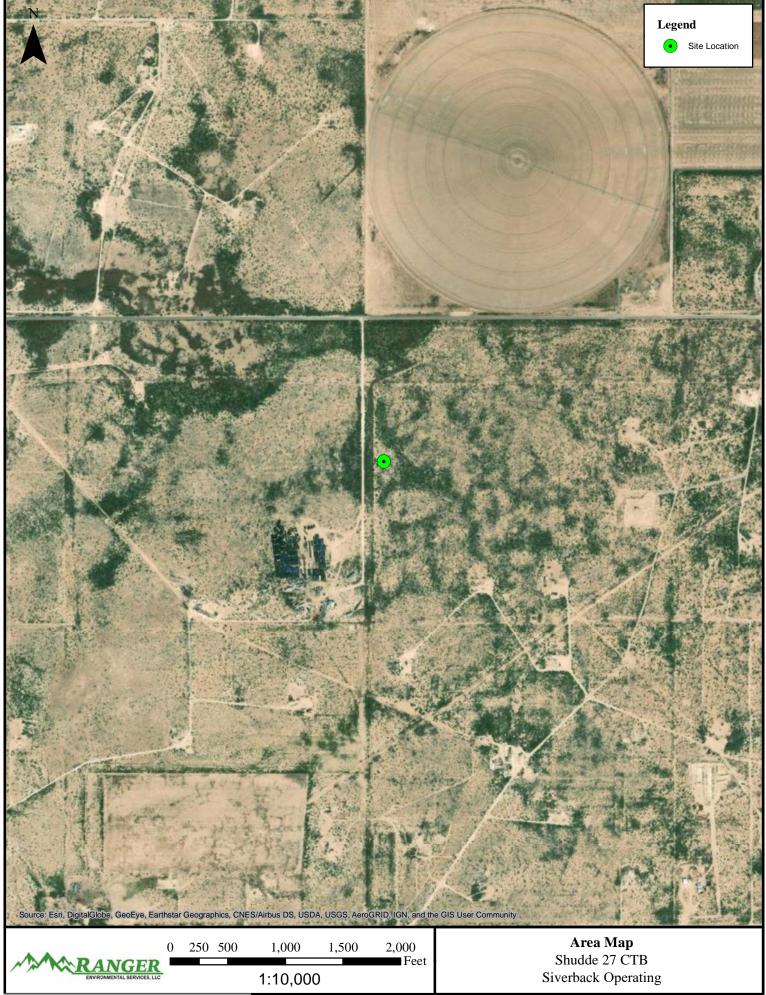
Closure Report Attachment Checklist: Each of the following items must be included in the closure report. A scaled site and sampling diagram as described in 19.15.29.11 NMAC Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection) Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling) Description of remediation activities 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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete. Printed Name: Mark Ritchie Title: HSE Manager Signature: MArk Ritchia Date: 4/13/2023 Telephone: 210-874-2406 email: mritchie@silverbackexp.com **OCD Only** Received by: Date: Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations. Closure Approved by: _____ Date: _____ Title: Printed Name:

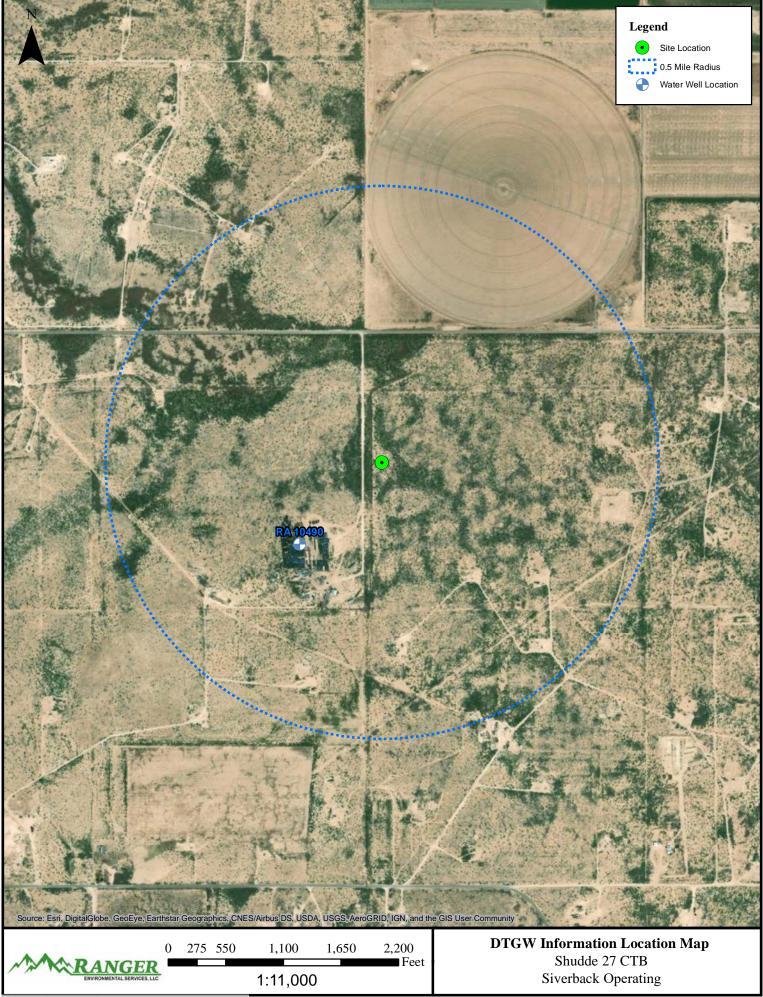
FIGURES

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

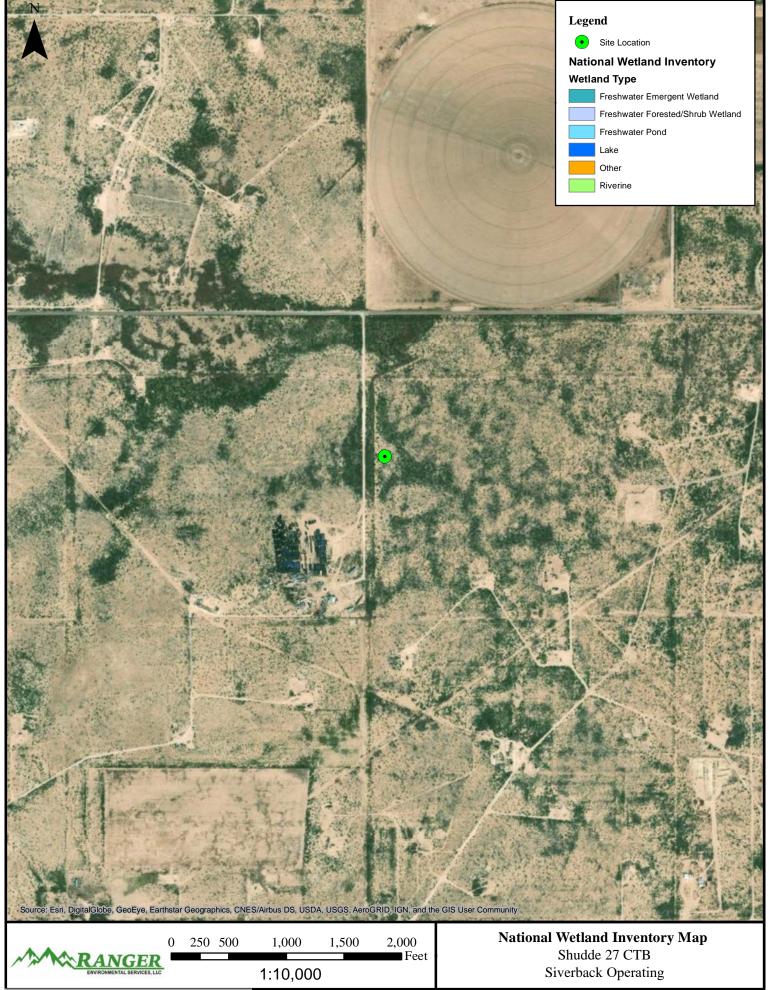
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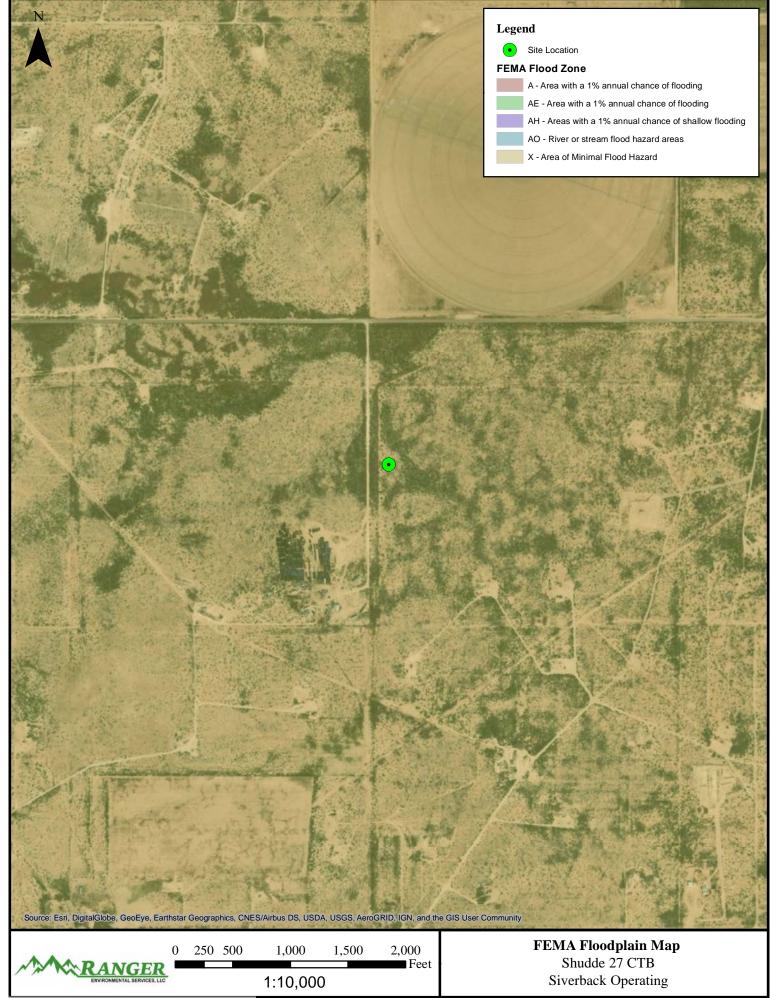


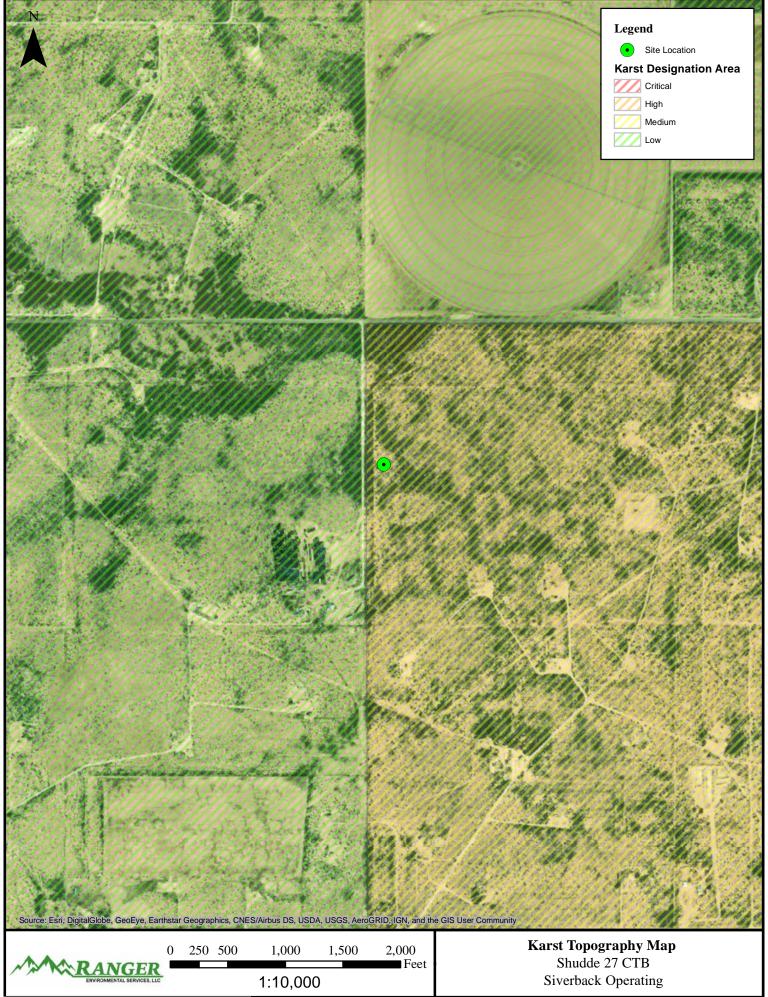




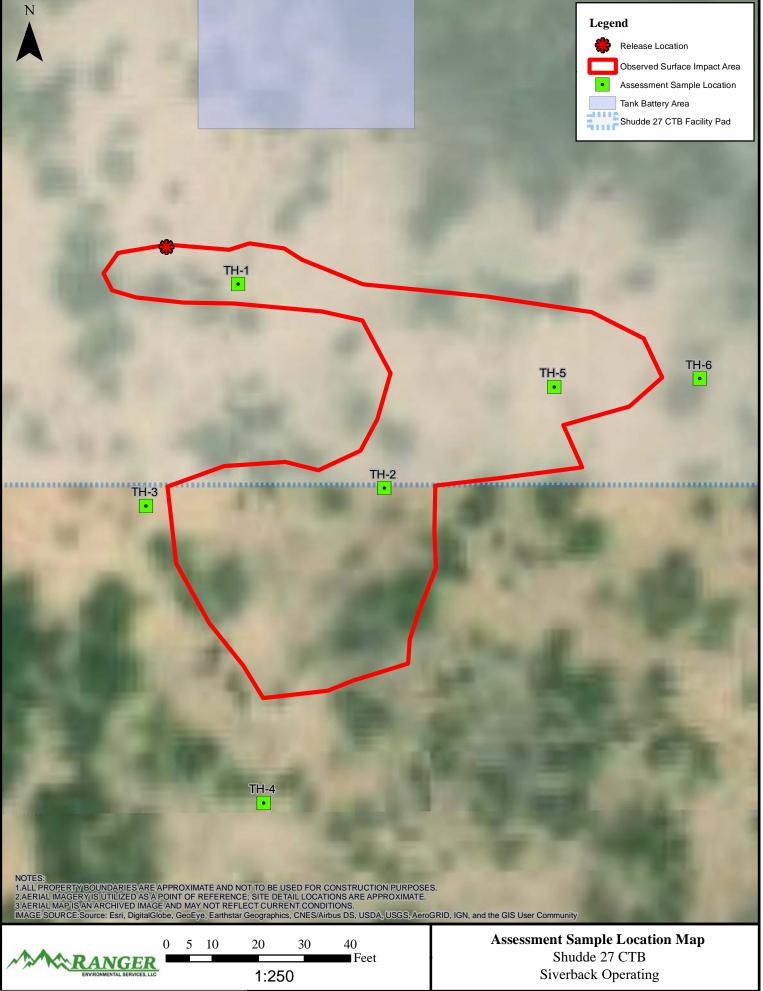
Page 27 of 113



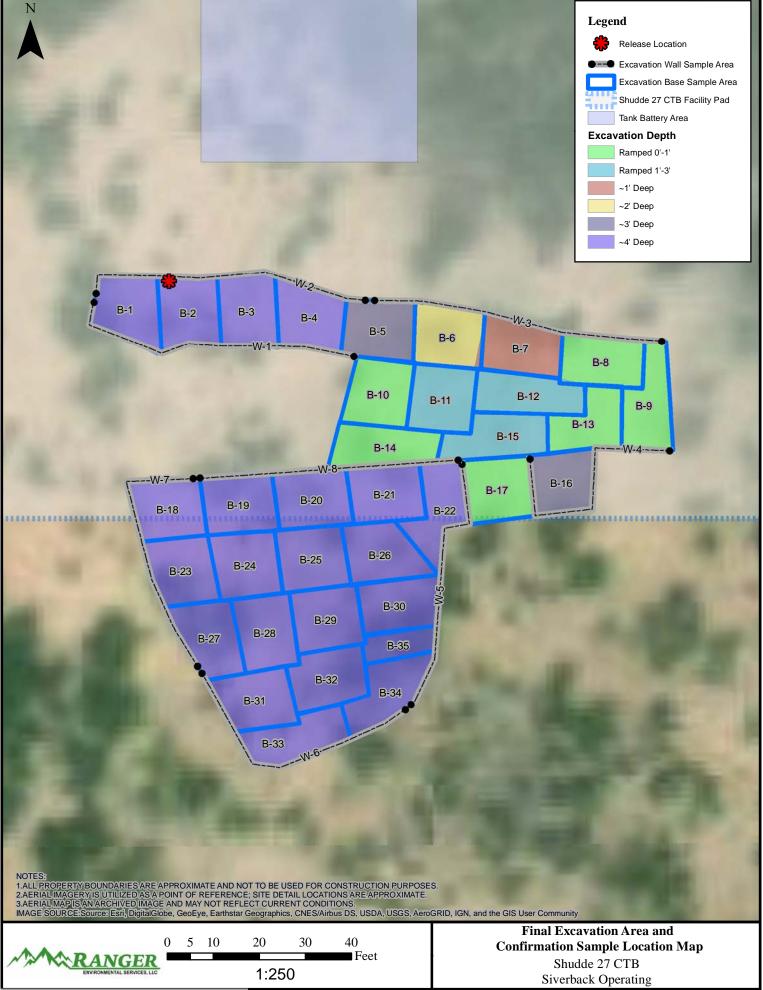




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TABLES

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 1 C Impacted by a Releas			10				50				1,000	2,500	10,000
19.15.29.13 NMAC Rec (0'-4' Soils)		teria	10 ³				50 ³					100 ³	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.

W-1 3/21/2023 W-2 3/21/2023 W-3 3/21/2023 W-4 3/21/2023 W-5 3/21/2023 W-6 3/21/2023 W-7 3/21/2023 W-8 3/21/2023 W-9 3/21/2023 W-9 3/21/2023 W-10 3/21/2023	DEPTH (FT) 0'-4' 0'-1'	BENZENE <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050	All val TOLUENE <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.0	ETHYL-BENZENE <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050	d in parts per TOTAL XYLENES <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150	TOTAL BTEX <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300	TPH GRO C6-C10 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0	TPH DRO C10-C28 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0	TPH MRO C28-C36 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0	TPH (GR0+DR0) <20.0 <20.0 <20.0 <20.0 <20.0 <20.0 <20.0 <20.0 <20.0 <20.0 <20.0 <20.0 <20.0 <20.0 <20.0 <20.0	TPH (GR0+DR0+ MRO) <30.0 <30.0 <30.0 <30.0 <30.0 <30.0 <30.0 <30.0 <30.0 <30.0 <30.0 <30.0 <30.0 <30.0 <30.0 <30.0 <30.0 <30.0	CHLORIDI 384 372 160 560 272 352 240 352 240 352 192 384
Side Wall Samples W-1 3/21/2023 W-2 3/21/2023 W-3 3/21/2023 W-4 3/21/2023 W-5 3/21/2023 W-6 3/21/2023 W-6 3/21/2023 W-7 3/21/2023 W-8 3/21/2023 W-9 3/21/2023 W-9 3/21/2023 W-10 3/21/2023 B-1 3/21/2023 B-2 3/21/2023 B-3 3/21/2023 B-3 3/21/2023 B-4 3/21/2023 B-5 3/21/2023 B-5 3/21/2023 B-6 3/21/2023 B-7 3/21/2023 B-7 3/21/2023 B-8 3/21/2023 B-11 3/21/2023 B-12 3/21/2023 B-13 3/21/2023 B-14 3/21/2023 B-13 3/21/2023 B-14 3/21/2023 B-15 <	(FT) 0'-4' 0'-4' 0'-4' 0'-4' 0'-4' 0'-4' 0'-4' 0'-4' 0'-4' 0'-4' 0'-4' 0'-4' 1' 0'-1'	<0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050	<0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050	<0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050	XYLENES <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 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<10.0 <10.0 <10.0 <10.0 <10.	C28-C36 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0	(GRO+DRO) <20.0 <20.0 <20.0 <20.0 <20.0 <20.0 <20.0 <20.0 <20.0 <20.0 <20.0 <20.0	(GRO+DRO+ MRO) <30.0 <30.0 <30.0 <30.0 <30.0 <30.0 <30.0 <30.0 <30.0 <30.0	384 372 160 560 272 352 240 352 192
W-2 3/21/2023 W-3 3/21/2023 W-4 3/21/2023 W-5 3/21/2023 W-6 3/21/2023 W-6 3/21/2023 W-7 3/21/2023 W-8 3/21/2023 W-9 3/21/2023 W-10 3/21/2023 W-10 3/21/2023 B-1 3/21/2023 B-2 3/21/2023 B-3 3/21/2023 B-3 3/21/2023 B-4 3/21/2023 B-5 3/21/2023 B-6 3/21/2023 B-7 3/21/2023 B-7 3/21/2023 B-7 3/21/2023 B-7 3/21/2023 B-10 3/21/2023 B-11 3/21/2023 B-12 3/21/2023 B-13 3/21/2023 B-14 3/21/2023 B-13 3/21/2023 B-14 3/21/2023 B-15 3/21/2023 B-1	0'-4' 0'-3' 0'-3' 0'-4' 0'-4' 0'-4' 0'-4' 0'-4' 0'-4' 4' 4' 4' 4' 4' 4' 1' 0'-1'	<0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050	<0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050	<0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050	<0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150	<0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300	<10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0	<10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0	<10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0	<pre><20.0 <20.0 <20.0</pre>	<30.0 <30.0 <30.0 <30.0 <30.0 <30.0 <30.0 <30.0 <30.0 <30.0 <30.0	372 160 560 272 352 240 352 192
W-2 3/21/2023 W-3 3/21/2023 W-4 3/21/2023 W-5 3/21/2023 W-6 3/21/2023 W-6 3/21/2023 W-7 3/21/2023 W-8 3/21/2023 W-9 3/21/2023 W-10 3/21/2023 W-10 3/21/2023 B-1 3/21/2023 B-2 3/21/2023 B-3 3/21/2023 B-4 3/21/2023 B-5 3/21/2023 B-6 3/21/2023 B-7 3/21/2023 B-7 3/21/2023 B-7 3/21/2023 B-7 3/21/2023 B-10 3/21/2023 B-11 3/21/2023 B-12 3/21/2023 B-13 3/21/2023 B-13 3/21/2023 B-14 3/21/2023 B-13 3/21/2023 B-14 3/21/2023 B-15 3/21/2023 B-	0'-4' 0'-3' 0'-3' 0'-4' 0'-4' 0'-4' 0'-4' 0'-4' 0'-4' 4' 4' 4' 4' 4' 4' 1' 0'-1'	<0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050	<0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050	<0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050	<0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150	<0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300	<10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0	<10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0	<10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0	<pre><20.0 <20.0 <20.0</pre>	 <30.0 	372 160 560 272 352 240 352 192
W-3 3/21/2023 W-4 3/21/2023 W-5 3/21/2023 W-6 3/21/2023 W-7 3/21/2023 W-8 3/21/2023 W-9 3/21/2023 W-9 3/21/2023 W-10 3/21/2023 B-1 3/21/2023 B-2 3/21/2023 B-3 3/21/2023 B-3 3/21/2023 B-4 3/21/2023 B-5 3/21/2023 B-6 3/21/2023 B-7 3/21/2023 B-6 3/21/2023 B-7 3/21/2023 B-8 3/21/2023 B-7 3/21/2023 B-10 3/21/2023 B-11 3/21/2023 B-10 3/21/2023 B-11 3/21/2023 B-12 3/21/2023 B-13 3/21/2023 B-14 3/21/2023 B-15 3/21/2023 B-14 3/21/2023 B-1	0'-4' 0'-3' 0'-4' 1'-4' 0'-4' 0'-4' 0'-4' 0'-4' 0'-4' 0'-4' 0'-4' 0'-4' 0'-4' 0'-1'	<0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0	<0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050	<0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050	<0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150	<0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300	<10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0	<10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0	<10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0	<pre><20.0 <20.0 <20.0 <20.0 <20.0 <20.0 <20.0 <20.0 <20.0 <20.0</pre>	<30.0 <30.0 <30.0 <30.0 <30.0 <30.0 <30.0 <30.0	160 560 272 352 240 352 192
W-4 3/21/2023 W-5 3/21/2023 W-6 3/21/2023 W-7 3/21/2023 W-8 3/21/2023 W-9 3/21/2023 W-10 3/21/2023 W-10 3/21/2023 B-1 3/21/2023 B-2 3/21/2023 B-3 3/21/2023 B-4 3/21/2023 B-5 3/21/2023 B-6 3/21/2023 B-7 3/21/2023 B-6 3/21/2023 B-7 3/21/2023 B-8 3/21/2023 B-7 3/21/2023 B-7 3/21/2023 B-7 3/21/2023 B-10 3/21/2023 B-11 3/21/2023 B-12 3/21/2023 B-13 3/21/2023 B-14 3/21/2023 B-15 3/21/2023 B-14 3/21/2023 B-15 3/21/2023 B-16 3/21/2023	0'-3' 0'-4' 0'-4' 0'-4 0'-4' 0'-4' 0'-4' 0'-4' 0'-4' 0'-4' 0'-4' 0'-4'	<0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0	<0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050	<0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050	<0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150	<0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300	<10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0	<10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0	<10.0 <10.0 <10.0 <10.0 <10.0 <10.0	<20.0 <20.0 <20.0 <20.0 <20.0 <20.0	<30.0 <30.0 <30.0 <30.0 <30.0 <30.0 <30.0	560 272 352 240 352 192
W-5 3/21/2023 W-6 3/21/2023 W-7 3/21/2023 W-8 3/21/2023 W-9 3/21/2023 W-10 3/21/2023 W-10 3/21/2023 B-1 3/21/2023 B-2 3/21/2023 B-3 3/21/2023 B-3 3/21/2023 B-4 3/21/2023 B-5 3/21/2023 B-6 3/21/2023 B-7 3/21/2023 B-8 3/21/2023 B-7 3/21/2023 B-8 3/21/2023 B-9 3/21/2023 B-10 3/21/2023 B-11 3/21/2023 B-12 3/21/2023 B-13 3/21/2023 B-14 3/21/2023 B-13 3/21/2023 B-14 3/21/2023 B-15 3/21/2023 B-14 3/21/2023 B-15 3/21/2023 B-16 3/21/2023	0'-4' 1'-4' 0'-4' 0'-4' 0'-4' 0'-4' 4' 4' 4' 4' 4' 1' 0'-1'	<0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050	<0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050	<0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050	<0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150	<0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300	<10.0 <10.0 <10.0 <10.0 <10.0 <10.0	<10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0	<10.0 <10.0 <10.0 <10.0 <10.0	<20.0 <20.0 <20.0 <20.0 <20.0 <20.0	<30.0 <30.0 <30.0 <30.0 <30.0 <30.0	272 352 240 352 192
W-6 3/21/2023 W-7 3/21/2023 W-8 3/21/2023 W-9 3/21/2023 W-10 3/21/2023 W-10 3/21/2023 B-1 3/21/2023 B-2 3/21/2023 B-3 3/21/2023 B-4 3/21/2023 B-5 3/21/2023 B-6 3/21/2023 B-6 3/21/2023 B-7 3/21/2023 B-8 3/21/2023 B-9 3/21/2023 B-10 3/21/2023 B-11 3/21/2023 B-12 3/21/2023 B-13 3/21/2023 B-14 3/21/2023 B-15 3/21/2023 B-14 3/21/2023 B-15 3/21/2023 B-16 3/21/2023	1'-4' 0'-4' 0'-4' 0'-4' 0'-4' 0'-4' 4' 4' 4' 4' 4' 4' 2' 1' 0'-1'	<0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050	<0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050	<0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050	<0.150 <0.150 <0.150 <0.150 <0.150 <0.150	<0.300 <0.300 <0.300 <0.300 <0.300 <0.300	<10.0 <10.0 <10.0 <10.0 <10.0	<10.0 <10.0 <10.0 <10.0 <10.0	<10.0 <10.0 <10.0 <10.0	<20.0 <20.0 <20.0 <20.0	<30.0 <30.0 <30.0 <30.0	352 240 352 192
W-7 3/21/2023 W-8 3/21/2023 W-9 3/21/2023 W-10 3/21/2023 W-10 3/21/2023 B-1 3/21/2023 B-1 3/21/2023 B-3 3/21/2023 B-3 3/21/2023 B-3 3/21/2023 B-4 3/21/2023 B-5 3/21/2023 B-6 3/21/2023 B-7 3/21/2023 B-8 3/21/2023 B-9 3/21/2023 B-10 3/21/2023 B-11 3/21/2023 B-12 3/21/2023 B-13 3/21/2023 B-14 3/21/2023 B-15 3/21/2023 B-14 3/21/2023 B-15 3/21/2023 B-16 3/21/2023	0'-4 0'-4' 0'-4' 4' 4' 4' 4' 3' 2' 1' 0'-1'	<0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050	<0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050	<0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050	<0.150 <0.150 <0.150 <0.150 <0.150	<0.300 <0.300 <0.300 <0.300 <0.300	<10.0 <10.0 <10.0	<10.0 <10.0 <10.0 <10.0	<10.0 <10.0	<20.0 <20.0	<30.0 <30.0	240 352 192
W-9 3/21/2023 W-10 3/21/2023 W-10 3/21/2023 B-1 3/21/2023 B-2 3/21/2023 B-3 3/21/2023 B-3 3/21/2023 B-4 3/21/2023 B-5 3/21/2023 B-6 3/21/2023 B-7 3/21/2023 B-7 3/21/2023 B-7 3/21/2023 B-7 3/21/2023 B-10 3/21/2023 B-11 3/21/2023 B-12 3/21/2023 B-13 3/21/2023 B-14 3/21/2023 B-15 3/21/2023 B-16 3/21/2023	0'-4' 0'-4' 4' 4' 4' 4' 4' 2' 1' 0'-1'	<0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050	<0.050 <0.050 <0.050 <0.050 <0.050 <0.050	<0.050 <0.050 <0.050 <0.050 <0.050	<0.150 <0.150 <0.150	<0.300 <0.300 <0.300	<10.0 <10.0	<10.0 <10.0	<10.0	<20.0	<30.0	192
W-10 3/21/2023 xcavation Base Samples 3/21/2023 B-1 3/21/2023 B-2 3/21/2023 B-3 3/21/2023 B-4 3/21/2023 B-5 3/21/2023 B-6 3/21/2023 B-6 3/21/2023 B-7 3/21/2023 B-8 3/21/2023 B-9 3/21/2023 B-10 3/21/2023 B-11 3/21/2023 B-12 3/21/2023 B-13 3/21/2023 B-14 3/21/2023 B-15 3/21/2023 B-16 3/21/2023	0'-4' 4' 4' 4' 4' 3' 2' 1' 0'-1'	<0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050	<0.050 <0.050 <0.050 <0.050 <0.050	<0.050 <0.050 <0.050 <0.050	<0.150 <0.150	<0.300	<10.0	<10.0				-
B-1 3/21/2023 B-2 3/21/2023 B-3 3/21/2023 B-3 3/21/2023 B-4 3/21/2023 B-5 3/21/2023 B-6 3/21/2023 B-7 3/21/2023 B-8 3/21/2023 B-9 3/21/2023 B-10 3/21/2023 B-11 3/21/2023 B-12 3/21/2023 B-13 3/21/2023 B-14 3/21/2023 B-15 3/21/2023 B-16 3/21/2023	4' 4' 4' 3' 2' 1' 0'-1'	 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 	<0.050 <0.050 <0.050 <0.050	<0.050 <0.050 <0.050	<0.150	<0.300			<10.0	<20.0	<30.0	384
B-1 3/21/2023 B-2 3/21/2023 B-3 3/21/2023 B-4 3/21/2023 B-5 3/21/2023 B-6 3/21/2023 B-7 3/21/2023 B-7 3/21/2023 B-7 3/21/2023 B-7 3/21/2023 B-10 3/21/2023 B-10 3/21/2023 B-11 3/21/2023 B-12 3/21/2023 B-13 3/21/2023 B-14 3/21/2023 B-15 3/21/2023 B-16 3/21/2023	4' 4' 3' 2' 1' 0'-1'	<0.050 <0.050 <0.050 <0.050 <0.050 <0.050	<0.050 <0.050 <0.050	<0.050 <0.050								
B-1 3/21/2023 B-2 3/21/2023 B-3 3/21/2023 B-4 3/21/2023 B-5 3/21/2023 B-6 3/21/2023 B-7 3/21/2023 B-7 3/21/2023 B-7 3/21/2023 B-7 3/21/2023 B-10 3/21/2023 B-10 3/21/2023 B-11 3/21/2023 B-12 3/21/2023 B-13 3/21/2023 B-14 3/21/2023 B-15 3/21/2023 B-16 3/21/2023	4' 4' 3' 2' 1' 0'-1'	<0.050 <0.050 <0.050 <0.050 <0.050 <0.050	<0.050 <0.050 <0.050	<0.050 <0.050			1					
B-2 3/21/2023 B-3 3/21/2023 B-4 3/21/2023 B-5 3/21/2023 B-6 3/21/2023 B-7 3/21/2023 B-8 3/21/2023 B-9 3/21/2023 B-10 3/21/2023 B-11 3/21/2023 B-12 3/21/2023 B-13 3/21/2023 B-13 3/21/2023 B-14 3/21/2023 B-15 3/21/2023 B-16 3/21/2023	4' 4' 3' 2' 1' 0'-1'	<0.050 <0.050 <0.050 <0.050 <0.050 <0.050	<0.050 <0.050 <0.050	<0.050 <0.050			<10.0	<10.0	<10.0	<20.0	<30.0	1.260
B-3 3/21/2023 B-4 3/21/2023 B-5 3/21/2023 B-6 3/21/2023 B-7 3/21/2023 B-8 3/21/2023 B-9 3/21/2023 B-10 3/21/2023 B-11 3/21/2023 B-12 3/21/2023 B-13 3/21/2023 B-14 3/21/2023 B-15 3/21/2023 B-16 3/21/2023	4' 4' 3' 2' 1' 0'-1'	<0.050 <0.050 <0.050 <0.050 <0.050	<0.050 <0.050	<0.050	0.100	<0.300	<10.0	<10.0	<10.0	<20.0	<30.0	800
B-5 3/21/2023 B-6 3/21/2023 B-7 3/21/2023 B-8 3/21/2023 B-9 3/21/2023 B-10 3/21/2023 B-11 3/21/2023 B-12 3/21/2023 B-13 3/21/2023 B-14 3/21/2023 B-15 3/21/2023 B-16 3/21/2023	3' 2' 1' 0'-1'	<0.050 <0.050 <0.050			<0.150	<0.300	<10.0	<10.0	<10.0	<20.0	<30.0	1,220
B-6 3/21/2023 B-7 3/21/2023 B-8 3/21/2023 B-9 3/21/2023 B-10 3/21/2023 B-11 3/21/2023 B-12 3/21/2023 B-13 3/21/2023 B-14 3/21/2023 B-15 3/21/2023 B-16 3/21/2023	2' 1' 0'-1'	<0.050 <0.050	<0.050	< 0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	<20.0	<30.0	2,120
B-7 3/21/2023 B-8 3/21/2023 B-9 3/21/2023 B-10 3/21/2023 B-11 3/21/2023 B-12 3/21/2023 B-13 3/21/2023 B-14 3/21/2023 B-15 3/21/2023 B-16 3/21/2023	1' 0'-1'	<0.050		<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<20.0	<30.0	176
B-8 3/21/2023 B-9 3/21/2023 B-10 3/21/2023 B-11 3/21/2023 B-12 3/21/2023 B-13 3/21/2023 B-14 3/21/2023 B-15 3/21/2023 B-16 3/21/2023	0'-1'		<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<20.0	<30.0	192
B-9 3/21/2023 B-10 3/21/2023 B-11 3/21/2023 B-12 3/21/2023 B-13 3/21/2023 B-14 3/21/2023 B-15 3/21/2023 B-16 3/21/2023			<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<20.0	<30.0	160
B-10 3/21/2023 B-11 3/21/2023 B-12 3/21/2023 B-13 3/21/2023 B-14 3/21/2023 B-15 3/21/2023 B-16 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	176
B-11 3/21/2023 B-12 3/21/2023 B-13 3/21/2023 B-14 3/21/2023 B-15 3/21/2023 B-16 3/21/2023	-	< 0.050	<0.050	< 0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<20.0	<30.0	160
B-12 3/21/2023 B-13 3/21/2023 B-14 3/21/2023 B-15 3/21/2023 B-16 3/21/2023	0'-1' 1'-3'	<0.050	<0.050 <0.050	<0.050 <0.050	<0.150 <0.150	<0.300	<10.0 <10.0	<10.0 <10.0	<10.0 <10.0	<20.0 <20.0	<30.0 <30.0	160 224
B-13 3/21/2023 B-14 3/21/2023 B-15 3/21/2023 B-16 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	224
B-14 3/21/2023 B-15 3/21/2023 B-16 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	224
B-15 3/21/2023 B-16 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	240
	-	< 0.050	< 0.050	< 0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<20.0	<30.0	320
B-17 3/21/2023	3'	< 0.050	<0.050	<0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	<20.0	<30.0	272
	1'-3'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<20.0	<30.0	368
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	1,140
B-19 3/21/2023		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<20.0	<30.0	800
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	416
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	1,720
B-22 3/21/2023 B-23 3/21/2023	4' 4'	<0.050 <0.050	<0.050 <0.050	<0.050 <0.050	<0.150 <0.150	<0.300 <0.300	<10.0 <10.0	<10.0 <10.0	<10.0 <10.0	<20.0 <20.0	<30.0 <30.0	1,170 864
B-23 3/21/2023 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	912
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	1,220
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	720
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	1,650
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	1,460
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	912
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	128
B-31 3/21/2023		< 0.050	< 0.050	< 0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<20.0	<30.0	768
B-32 3/21/2023		< 0.050	< 0.050	< 0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<20.0	<30.0	768
B-33 3/21/2023	4' 4'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<20.0	<30.0	288
B-34 3/21/2023 B-35 3/21/2023	4' 4'	<0.050 <0.050	<0.050	<0.050 <0.050	<0.150	<0.300	<10.0 <10.0	<10.0	<10.0 <10.0	<20.0 <20.0	<30.0 <30.0	432 496
B-30 3/21/2023	4	∿0.050	<0.050	~ 0.050	<0.150	<0.300	×10.0	<10.0	×10.0	∿∠0.0	~ 30.0	490
19.15.29.12 NMAC Table 1 Closure Crite Impacted by a Release (GW 51'-		10				50				1,000	2,500	10,000
19.15.29.13 NMAC Reclamation C (0'-4' Soils Only)	-	10 ³				50 ³					100 ³	600

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.

ATTACHMENT 1 – DEPTH-TO-GROUNDWATER INFORMATION



New Mexico Office of the State Engineer **Point of Diversion Summary**

			(quarters a					011000		
W. II T	DOD	NT	••			to largest) c Tws Rng			TM in meters)	
Well Tag	_	Number		-			-	X	Y	
	RA	10490	4	2	27	18S	26E	559659	3620486*)
Driller Lice	ense:	1229	Driller Co	mpan	ıy:	CA	RTER'S	WELL DR	ILLING	
Driller Nan	ne:	CARTER, RICH	ARD M.							
Drill Start]	Date:	03/18/2004	Drill Finis	sh Dat	te:	04	1/20/200)4 Pl	ug Date:	
Log File Date: 06/01/2004			PCW Rev	PCW Rcv Date:					urce:	Shallow
Pump Type: SUBMER			Pipe Disc	Pipe Discharge Size:					timated Yield	d: 5 GPM
Casing Size: 4.50		4.50	Depth We		2	00 feet	De	epth Water:	75 feet	
	Wate	er Bearing Stratif	ications:	Та	p l	Bottom	Descr	ription		
				10)0	110	Other	/Unknown		
				18	35	190	Other	/Unknown		
		Casing Perf	orations:	Та	p I	Bottom				
				10)0	200				

*UTM location was derived from PLSS - see Help

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

4/12/23 7:13 AM

POINT OF DIVERSION SUMMARY

ATTACHMENT 2 – SITE PHOTOGRAPHS



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)

ATTACHMENT 3 – LABORATORY REPORTS



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 www.tceq.texas.gov/field/ga/lab_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.

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,

Celeg D. Keine

Celey D. Keene Lab Director/Quality Manager



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	Qualifie
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	Analyze	d 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	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	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							

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keene

Celey D. Keene, Lab Director/Quality Manager



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 - 1/4 (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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d 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	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	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						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keene

Celey D. Keene, Lab Director/Quality Manager



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 - 2/3 (H230466-03)

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	108	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	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	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

Celeg D. Keene

Celey D. Keene, Lab Director/Quality Manager



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 - 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	Analyze	d 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	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	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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Celeg D. Keene

Celey D. Keene, Lab Director/Quality Manager



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 - 3/1 (H230466-05)

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	108	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	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	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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Celey D. Keene, Lab Director/Quality Manager



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 - 3/2 (H230466-06)

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	113 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	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	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						

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Celey D. Keene, Lab Director/Quality Manager



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 - 3/4 (H230466-07)

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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	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	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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Celey D. Keene, Lab Director/Quality Manager



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 - 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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	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	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						

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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 - 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, SM4500Cl-B	mg,	/kg	Analyze	d 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	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	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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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 - 5/3 (H230466-10)

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, SM4500Cl-B	mg	/kg	Analyze	d 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	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	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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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 - 5/4 (H230466-11)

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, SM4500Cl-B	mg/	′kg	Analyze	d 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	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	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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Celey D. Keene, Lab Director/Quality Manager



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 - 6/1 (H230466-12)

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, SM4500Cl-B	mg,	/kg	Analyze	d 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	d 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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Celey D. Keene, Lab Director/Quality Manager



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 - 6/3 (H230466-13)

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	114 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d 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	d 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, Lab Director/Quality Manager



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 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 SM4500CI-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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Celey D. Keene, Lab Director/Quality Manager

n C FIES

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Name For Disc. 201179 For Zip: 78720 Attr:: Number Zip: 8000 State: TV Zip: 78720 Attr:: Number Zip: 8000 Austin State: TV Zip: 78720 Attr:: Number Zip: 8000 State: Number Zip: 8000 et & 613.35-1765 Fas.# \$12.335-0627 Attr:: Marc Number Zip: 80211 et & 613.35-1765 Fas.# \$12.335-0277 Address: Number Zip: 80211 et & 613.41 Frage Number Zip: 80211 Frage Number Zip: 80211 et & 613.41 Frage Number Zip: 80211 Frage Number Zip: 80211 et & 613.41 Frage Number Zip: 80211 Frage Number Zip: 80211 et & 613.41 Frage Number Zip: 80211 Frage Number Zip: 80211 Number Zip: 80211 et Number Zip: 700 Frage Number Zip: 80211 Frage Number Zip: 80211	Company Name	1	the Convince			L	L	T	T	1	1	I	3				I			TAILEDT
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PO Box 201179 State: TX ZIP: 78720 Address: Number State: Submitted Special State: Special Stat	Project Manager									0	0.	1.77						_		
State: TX Zip: 78720 Attr:: Made Richards 335-1786 Fax #: 512-335-0527 Address: 108 Nudde 27 CTB Project Owner: Rafe:: Null: Rafe:: Null: Sample 1D. Sample 1D. G 1 RAFE: Null: Rafe:: Null: H11/1 G 1 RAFE Null: Rafe:: Null: Null	Address:	PO Box 201179								0	omp	Dany	5	Silverback E	xploration			_		
335-1786 Fax #: 512-335-0527 Address: 108 S. 4th St. Will Konnedy Project Owner: City: Andress: 108 S. 4th St. Shudde 27 CTB Fax #: Number 2012 Fax #: Number 2012 Will Konnedy Fax #: Fax #: Fax #: Fax #: Fax #: VVII Konnedy Fax #: Fax #: Fax #: Fax #: Fax #: Sample LD. G 1 Fax #: Fax #: Fax #: Fax #: H-1/11 G 1 R GROUNDWATER Fax #: Fax #: Fax #: Fax #: H-1/11 G 1 R GROUNDWATER G 1 R GROUNDWATER Fax #: Fax #: Fax #: H-1/11 G 1 R GROUNDWATER G 1 R GROUNDWATER Fax #: Fax #: Fax #: H-1/14 G 1 R GROUNDWATER G 1 R R GROUNDWATER Fax #: Fax #: <td>City: Austin</td> <td></td> <td></td> <td>Zip</td> <td>: 787</td> <td>720</td> <td></td> <td></td> <td></td> <td>A</td> <td>3</td> <td>Ma</td> <td>T A</td> <td>litchie</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	City: Austin			Zip	: 787	720				A	3	Ma	T A	litchie						
Project Owner: City: Antalia Shudde 27 CTB Phone #: 713-653-9830 Will Kannady Fast #: Fast #: Fast #: Fast #: Will Kannady G 1 Fast #: Fast #: Fast #: H11/11 G G 1 Fast #: Fast #: Fast #: H11/11 G G 1 Fast #: Fast #: Fast #: H12/12 G 1 Fast #: Fast	Phone #: 512-3	335-1785	Fax #:	512	2-335	-05	27			Þ	idre	SSS	10	8 S. 4th St.				_		
Shudde 27 CTB State: IMI Zip: 88211 Will Kannedy Fax #: Phone #: 713-653-9320 Will Kannedy Fax #: Pisserv. Sample ID. Sample ID. G I INATION PRESERV. Samplu ID. H1-1/1 G I INATION PRESERV. Samplu ID. H217 G I INATION PRESERV. Samplu ID. H217 G I INATION PRESERV. Samplu ID. H1-11/1 G I INATION PRESERV. Samplu ID. H1-11/1 G I INATION PRESERV. Samplu ID. H1-11/1 G I INATION PRESERV. Samplu ID. H1-11/2 G I INATION INATION INATION H217 G I INATION INATION INATION INATION H1-11/1 INATION INATION INATION INATION INATION H217 G I INATION INATION INATION INATION INATION H217	Project #: 6684		Project Owne	ā						0	ŧ.	A	tesia	-						
Shudde 27 CTB Phone #: 713-963-9820 Will Kennedy Fax #: Fax #: Fax #: Presserve Presserve SAMPLING Sample LD. 00 (C)OMP.	ime:	Shudde 27 CTB								S	ate	N	4	Zip: 88211				_		
Will Kennedy Fax 8: Provide MATRIX PRESERV SAMPLING Sample LD, G(3/AB OR (C)OMP. G(3/AB OR (C)OMP. G(3/AB OR (C)OMP. H-1/17 G(3/AB OR (C)OMP. G(3/AB OR (C)OMP. G(3/AB OR (C)OMP. H-1/17 G(3/AB OR (C)OMP. G(3/AB OR (C)OMP. G(3/AB OR (C)OMP. H-1/17 G(3/A OR (C)OMP. G(3/AB OR (C)OMP. G(3/AB OR (C)OMP. H-1/17 G(3/A OR (C)OMP. G(3/A OR (C)OMP. DATE TIME H-1/17 G(3/A OR (C)OMP. G(3/A OR (C)OMP. DATE TIME H-1/17 G(3/A OR (C)OMP. G(3/A OR (C)OMP. DATE TIME H-1/17 G(3/A OR (C)OMP. G(3/A OR (C)OMP. DATE TIME H-2/24 G(3/A OR (C)OMP. G(3/A OR (C)OMP. G(3/A OR (C)OMP. G(3/A OR (C)OMP. H-2/30 G(3/A OR (C)OMP. G(3/A OR (C)OMP. G(3/A OR (C)OMP. G(3/A OR (C)OMP. H-2/31 G(3/A OR (C)OMP. G(3/A OR (C)OMP. G(3/A OR (C)OMP. G(3/A OR (C)OMP. H-2/32 G(3/A OR (C)OMP. G(3/A OR (C)OMP.	Project Location:									P	nor	0 #	71	3-553-8320						
MATRIX PRESERV PRESERV SAMPLING H-1/1 G (G) (F, AB OR (C)OMP. (G) (F, AB OR (C)OMP. H-1/1 G (G) (F, AB OR (C)OMP. (G) (F, AB OR (C)OMP. H-1/1 G (G) (F, AB OR (C)OMP. (G) (F, AB OR (C)OMP. H-1/1 G (G) (F, AB OR (C)OMP. (G) (F, AB OR (C)OMP. H-1/1 G (G) (F, AB OR (C)OMP. (G) (F, AB OR (C)OMP. H-1/1 G (G) (F, AB OR (C)OMP. (G) (F, AB OR (C)OMP. H-1/1 G (G) (F, AB OR (C)OMP. (G) (F, AB OR (C)OMP. H-1/1 G (G) (F, AB OR (C)OMP. (G) (F, AB OR (C)OMP. H-1/1 G (G) (F, AB OR (C)OMP. (G) (F, AB OR (C)OMP. H-1/2 G (G) (F, AB OR (C)OMP. (G) (F, AB OR (C)OMP. H-1/2 G (G) (F, AB OR (C)OMP. (G) (F, AB OR (C)OMP. H-1/2 G (G) (F, AB OR (C)OMP. (G) (F, AB OR (C)OMP. H-1/2 G (G) (F, AB OR (C)ON (F)OR	Sampler Name:									T	¥ X	<i></i>						_	_	
Sample I.D. G (G)RAB OR (C)OMP. H-1/17 G (G)RAB OR (C)OMP. H-2/2 G (G)RAB OR (C)OMP. H-2/14 G (G) 1 X H-2/2 G (G) 1 X H-2/2 G (G) 1 X I H-2/2 G (G) 1 X I H-2/2 G (G) 1 X I H-3/17 G (G) 1 X I X H-3/2 G (G) 1 X I X I/30/23 H-4/1 G (G) 1 X I X I/30/23 I004 X X H-4/2 X I X I/30/23 I002 X X X H-5/3 I X </td <td>FOR LAB USE ONLY</td> <td></td> <td></td> <td>1</td> <td></td> <td></td> <td>3</td> <td>ATR</td> <td>×</td> <td></td> <td>P</td> <td>RESI</td> <td>R</td> <td></td> <td>ā</td> <td></td> <td>-</td> <td></td> <td></td> <td></td>	FOR LAB USE ONLY			1			3	ATR	×		P	RESI	R		ā		-			
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s. Please fax written changes to 575-393-2476

Page 56 of 113



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 www.tceq.texas.gov/field/ga/lab_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.

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,

Celeg D. Keine

Celey D. Keene Lab Director/Quality Manager



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: W - 1 (H231327-01)

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	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, SM4500Cl-B	mg/kg		Analyze	d 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	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	96.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	95.0	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keene

Celey D. Keene, Lab Director/Quality Manager



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: W - 2 (H231327-02)

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	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

Celeg D. Keene

Celey D. Keene, Lab Director/Quality Manager



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: W - 3 (H231327-03)

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	2.09	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, SM4500Cl-B	4500Cl-B mg/kg			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	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	79.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	80.0	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keene

Celey D. Keene, Lab Director/Quality Manager



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: W - 4 (H231327-04)

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	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, SM4500Cl-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						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keene

Celey D. Keene, Lab Director/Quality Manager



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: W - 5 (H231327-05)

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	2.09	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, SM4500Cl-B	mg,	/kg	Analyze	d 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	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	91.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	91.8	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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: W - 6 (H231327-06)

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	2.09	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	352	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	84.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	85.7	% 49.1-14	8						

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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: W - 7 (H231327-07)

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	2.09	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 9	% 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	240	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	74.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	75.4	% 49.1-14	8						

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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: W - 8 (H231327-08)

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	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	d 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	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	81.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	81.9	% 49.1-14	8						

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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: W - 9 (H231327-09)

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	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	192	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	79.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	79.6	% 49.1-14	8						

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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: W - 10 (H231327-10)

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	2.09	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, SM4500Cl-B	mg,	′kg	Analyze	d 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	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	84.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	85.1	% 49.1-14	8						

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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 - 1 (H231327-11)

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	102	% 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	1260	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	91.4	% 49.1-14	8						

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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 - 2 (H231327-12)

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	104 9	% 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	800	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	91.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	91.2	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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 - 3 (H231327-13)

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, SM4500Cl-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	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	97.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	96.2	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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 - 4 (H231327-14)

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	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	2120	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	100	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	101	% 49.1-14	8						

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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 - 5 (H231327-15)

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, SM4500Cl-B	mg,	′kg	Analyze	d 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	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	84.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	84.9	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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 - 6 (H231327-16)

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	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	192	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	78.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	77.6	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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 - 7 (H231327-17)

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	102	% 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	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	69.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	68.9	% 49.1-14	8						

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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 - 8 (H231327-18)

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	103	% 71.5-13	4						
Chloride, SM4500Cl-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	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	81.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	80.7	% 49.1-14	8						

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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 - 9 (H231327-19)

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	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						

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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 - 10 (H231327-20)

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	107 9	% 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	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	104 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	105 9	% 49.1-14	8						

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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 - 11 (H231327-21)

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, SM4500Cl-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	78.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	85.1	% 49.1-14	8						

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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 - 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	% 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	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						

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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 - 13 (H231327-23)

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	104 9	% 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	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	65.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	67.6	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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 - 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, SM4500Cl-B	mg,	/kg	Analyze	d 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						

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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 - 15 (H231327-25)

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	104	% 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	320	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	75.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	78.1	% 49.1-14	8						

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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, SM4500Cl-B	mg/	/kg	Analyze	d 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						

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Celey D. Keene, Lab Director/Quality Manager



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 - 17 (H231327-27)

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	104	% 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	368	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	73.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	74.8	% 49.1-14	8						

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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 - 18 (H231327-28)

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	106	% 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	1140	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	77.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	78.4	% 49.1-14	8						

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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 - 19 (H231327-29)

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	104	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	′kg	Analyze	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	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	64.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	67.1	% 49.1-14	8						

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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 - 20 (H231327-30)

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	2.04	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, SM4500Cl-B	mg/	/kg	Analyze	d 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	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	65.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	67.2	% 49.1-14	8						

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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 - 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 9	% 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	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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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 - 22 (H231327-32)

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, SM4500Cl-B	mg/	′kg	Analyze	d 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	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	88.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	90.7	% 49.1-14	8						

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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 - 23 (H231327-33)

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 9	% 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	864	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	74.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	77.6	% 49.1-14	8						

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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 - 24 (H231327-34)

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, SM4500Cl-B	mg,	/kg	Analyze	d 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	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	74.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	78.2	% 49.1-14	8						

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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 - 25 (H231327-35)

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 9	% 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	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						

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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 - 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, SM4500Cl-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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Celey D. Keene, Lab Director/Quality Manager



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	% 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	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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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 - 28 (H231327-38)

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, SM4500Cl-B	mg,	′kg	Analyze	d 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	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	71.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	75.7	% 49.1-14	8						

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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 - 29 (H231327-39)

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, SM4500Cl-B	mg,	/kg	Analyze	d 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	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	70.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	73.7	% 49.1-14	8						

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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 - 30 (H231327-40)

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, SM4500Cl-B	mg/	/kg	Analyzed 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	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	75.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	77.7	% 49.1-14	8						

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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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	′kg	Analyzed 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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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 - 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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	′kg	Analyzed 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						

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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 - 33 (H231327-43)

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, SM4500Cl-B	mg/	′kg	Analyzed 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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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 - 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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed 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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Celey D. Keene, Lab Director/Quality Manager



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 - 35 (H231327-45)

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, SM4500Cl-B	mg/	kg	Analyzed 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	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	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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Celey D. Keene, Lab Director/Quality Manager

Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Address: PO	PO Box 201179			P.O. #:				
Austin	State:	TX 7in.	7 in: 19700		Silverback	1	Silverback Exploration	Exploration
Phone #: 512-497-1556			512-335-0527	Address: 100 C ALL C	Ritchie	*	£	2
8	Project Owner:	wner:		City: Artesia		40	A.F.	40
uno	27 CTB			State: NM		8821	Zip: 88211	88211
2	Shudde 27 CTB			Phone #: 04	0.974	0400	000011	0400
Sampler Name: J. M.	J. Martinez				0	0047410012	1-2400	4-2400
A REAL PROPERTY AND A REAL			MATRIX	PRESERV.	1	SAMPLIN	SAMPLING	SAMPLING
LabID	0		ATER					EXT
.2	sample I.D.	(G)RAB OR # CONTAIN	GROUNDW WASTEWAT SOIL OIL SLUDGE	OTHER : ACID/BASE: CE / COOL DTHER :	p	DATE	TIME	
3-	W-1	_	×		3-21-23	-23	1118	
<u>ז ע</u>	2-M	G 1	×	×	3-21-23	-23	1120	1120 X
£ (C-AA	-	×	×	3-21-23	23	1122	1122 X
1	W	G 1	×	×	3-21-23	23	1124	1124 X
10	C-M	G 1	×	×	3-21-23	8	1126	1126 X
K	W-7	-	×	×	3-21-23	ü	1128	1128 X
R	W-R	-	×	×	3-21-23	ü	1130	-
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Page 104 of 113

s. Please fax written changes to 575-393-2476 Sampler - UPS - Bus - Other Delivered By: (Circle One) r e g. 50 Cool Intact Sample Condition CHECKED BY: (Initials)

Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Project Manager: Will Kierdorf	ierdorf		*	DIFF 10				ANALYSIS REQUEST
Address: PO Bo	PO Box 201179		7.0. #		L			
City: Austin	State:		Company:	Silverback Exploration	lion			
Phone #: 512-497-1556	Eav #	1A Zip: 78720	Attn: Mark Ritchie	Ritchie				
Project #: 6684	Project Owner	012-335-0527	Address: 108 S. 4th St	08 S. 4th St.				
Project Name: Shudde 27 CTB			City: Artesia	Ø		-		
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FOR LAB USE ONLY	inez							
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s. Please fax written changes to 575-393-2476

Sampler - UPS - Bus - Other: Delivered By: (Circle One)なってうして-〇・しと 1.6. N TYes Tyes Sample Condition Cool Intact CHECKED BY: (Initials)

CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

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Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

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FOR LAB USE ONLY	Sampler Name:	Project Location:	ocation:	Project Name: Shi	Project #: 6684		Aus	Address:		Company Name: Project Manager:
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Page 109 of 113

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ATTACHMENT 4

NMOCD CORRESPONDENCE

.



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

District IV

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

Operator:	OGRID:
Silverback Operating II, LLC	330968
19707 IH10 West, Suite 201	Action Number:
San Antonio, TX 78256	207685
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By Condition

We have received your closure report and final C-141 for Incident #NAPP2302538491 SHUDDE 27 CTB, thank you. This closure is approved. 8/31/2023 rhamlet

CONDITIONS

Action 207685

Condition Date