Trinity Oilfield Services & Rentals, LLC



July 3rd, 2024

Oil Conservation Division, District I 1625 N. French Drive Hobbs, NM 88240

Re: Remediation Closure Request

North Vacuum Abo East Battery Tracking #: NAPP2402167703

Trinity Oilfield Services (Trinity), on behalf of Cross Timbers Energy, LLC, hereby submits the following Remediation Closure Request in response to a release that occurred at the above-referenced location, and further described below.

Site Information						
Incident ID	NAPP2402167703					
Site Name	North Vacuum Abo East Battery					
Company	Cross Timbers Energy, LLC					
County	Lea					
ULSTR	K-07-17S-35E					
GPS Coordinates (NAD 83)	32.846238, -103.497564					
Landowner	Private					

RELEASE BACKGROUND

On 01/21/2024, Cross Timbers Energy, LLC reported a release at the North Vacuum Abo East Battery. The release was caused by a freeze. Approximately 6,810 sqft. of the Pad was found to be damp upon initial inspection.

Release Information						
Date of Release	01/20/2024					
Type of Release	Crude Oil and Produced Water					
Source of Release	Freeze					
Volume Released – Produced Water	60 bbls					
Volume Recovered – Produced Water	57 bbls					
Volume Released – Crude Oil	5 bbls					
Volume Recovered – Crude Oil	3 bbls					
Affected Area – Damp Soil	Pad and Pasture - Approximately 6,810 sqft.					
Site Location Map	Attached					

SITE CHARACTERIZATION AND CLOSURE CRITERIA

Depth to Groundwater/Wellhead Protection:

Data Source	Well Number	Data Date	Depth (ft.)
NM OSE	L-1329 POD 1	09/09/2014	86'
USGS	325032103294301	12/15/2010	80.93'
USGS	325032103294302	01/06/2016	76.5'
Soil Bore	DTW-3	02/07/2023	105'

A search of the groundwater well databases maintained by the New Mexico Office of the State Engineer (NMOSE) and the United States Geological Survey (USGS) was conducted to determine if any registered groundwater wells are located within a $^{1}/_{2}$ mile of the release site. The search revealed that Three (3) wells occurred in the databases that meet the NMOCD criteria for the age of data, the distance of the data point well from the release point, and a data point well having a diagram of construction.

On 02/07/2023, Kane Environmental Engineering along with Scarborough Drilling was onsite to drill a groundwater determination borehole (DTW-3) to 105' below ground surface within a ½ mile radius of the incident location. The borehole was left open for 96 hours and checked for the presence of groundwater. As a result, no water was detected at 105' below surface at the borehole location (32.84301, -103.49063). The driller log is attached for reference.

General Site Characterization:

Site Assessment						
Karst Potential	Low					
Distance to Watercourse	> 1,000 ft.					
Within 100 yr Floodplain	No					
Pasture Impact	No					

A risk-based site assessment/characterization was performed following the New Mexico Oil Conservation Division (NMOCD) Rule (Title 19 Chapter 15 Part 29) for releases on oil and gas development and production in New Mexico (effective August 14, 2018). To summarize the site assessment/characterization evaluation, the affected area has Low potential for cave and karst, and no other receptors (residence, school, hospital, institution, church, mining, municipal, or other ordinance boundaries) were located within the regulatorily promulgated distances from the site.

Soil Assessment						
Soil Series	Kimbrough-Lea					
Fragile Soil Interpretive Class	Fragile					
Erodibility Value	0.32					
Wind Erodibility Group	5					
Badland Soils	No					
Gypsum Soils	No					
Representative Slope	1%					
Depth to Restrictive Feature	25 cm					
Depth to Bedrock	> 200 cm					
Severe Wildland Burn	No					

A soil assessment/characterization was performed following the New Mexico State Land Office Environmental Compliance Office (ECO) Spill and Release Reporting Guidelines (Part 2 Letter D).

Closure Criteria:

On-Site & Off-Site 4ft bgs Recommended Remedial Action Levels (RRALs)						
Chlorides	10,000 mg/kg					
TPH (GRO and DRO and MRO)	2,500 mg/kg					
TPH (GRO and DRO)	1,000 mg/kg					
BTEX	50 mg/kg					
Benzene	10 mg/kg					

A reclamation standard of 600 mg/kg chloride and 100 mg/kg TPH was applied to the top four feet of the pasture area if impacted by the release, per NMAC 19.15.29.13.D (1) for the top four feet of areas that will be reclaimed following remediation.

INITIAL ASSESSMENT AND REMEDIATION ACTIVITIES

Initial Sample Activities:

Delineation Summary							
Delineation Dates	01/24/2024 - 03/08/2024						
Depths Sampled	0' - 4'						
Delineation Map	Attached						
Laboratory Results	Table 1						

All soil samples were placed into laboratory-supplied glassware, labeled, and maintained on ice until delivery to an NMOCD-approved laboratory (Cardinal Laboratories of Hobbs, NM) for the analysis of chloride using Method SM4500 Cl-B, Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX) by EPA Method 8021 B and Total Petroleum Hydrocarbon (TPH) constituents the by EPA 8015M.

Confirmation Activities:

Remediation Summary							
Remediation Dates	05/10/2024 - 05/28/2024						
Workplan Approval	04/29/2024						
Liner Variance Request	None						
Deferral Request	None						
Depths Excavated	0.1' - 1.5'						
Area Represented by the required 5-point Confirmation Samples – Floors and Walls	400 sqft.						
Total Volume of Excavated Soil	440 yards						
Remediation Map	Attached						
Laboratory Results	Table 2						

Impacted soil within the release margins was excavated and temporarily stockpiled on-site on a 6-mil plastic sheeting, pending final disposition. Unless a Variance Request has been approved, all Floor and On-Site Walls of the excavated area were advanced until laboratory analytical results from confirmation soil samples indicate Chloride, Benzene, BTEX, and TPH concentrations are below the RRAL NMOCD Closure Criteria listed in the Table above, and all Off-Site Walls were advanced to meet reclamation standards. Confirmation soil samples (five-point composites representing no more than 400 sqft. of the excavated area) were collected from the floor and sidewalls.

Upon receiving laboratory analytical data showing that confirmation soil samples from the excavated areas yield results below the selected NMOCD Table 1 Closure Criteria; the impacted soil was transported under manifest to an NMOCD-approved disposal facility. Upon approval, the excavated area will be backfilled with locally sourced, non-impacted "like" material.

SITE RECLAMATION AND RESTORATION

Areas affected by the release and the associated remediation activities will be restored to a condition that existed before the release to the extent practicable. The affected area will be contoured and/or compacted to provide erosion control, stability, and preservation of surface water flow. The area will be fenced off to mitigate grazing and soil compaction by cattle.

Affected areas not on production pads and/or lease roads, will be reseeded with a prescribed BLM, NMSLO, and/or Private Landowner requested seed mixture during the first favorable growing season following closure of the site in accordance with the applicable regulatory agency.

REQUEST FOR REMEDIATION CLOSURE

Supporting Documentation								
Delineation and Remediation Maps	Attached							
Depth to Groundwater Maps and Source	Attached							
US NWI Map	Attached							
FEMA Flood Hazard Map	Attached							
USDA Soil Survey	Attached							
Site Photography	Attached							
Laboratory Analytics with COCs	Attached							

The site has been remediated to meet the standards of Table I of 19.15.29.12 NMAC; therefore, Trinity Oilfield Services respectfully requests that the New Mexico Oil Conservation Division grant remediation closure approval for the referenced release.

Final reclamation of the well pad shall take place in accordance with 19.15.29.13 NMAC once the site is no longer being used for oil and gas operations.

Sincerely,

Dan Dunkelberg

Dan Dunkelberg

Project Manager

Cynthia Jordan Project Scientist

Cynthia Jordan

Received by OCD: 7/9/2024 10:28:07 AM

TABLE 1 CONCENTRATIONS OF BENZENE, BTEX, TPH & CHLORIDE IN SOIL

CROSS TIMBERS ENERGY, LLC NORTH VACUUM ABO EAST BATTERY LEA COUNTY, NEW MEXICO NMOCD REFERENCE #: NAPP2402167703



SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	VERTICAL/ HORIZONTAL	OFF-SITE/ ON-SITE	SAMPLE TYPE	SOIL STATUS	CHLORIDE (mg/Kg)	TPH C6-C36 (mg/Kg)	GRO+ DRO (mg/kg)	GRO C6-C10 (mg/Kg)	DRO C10-C28 (mg/Kg)	MRO C28-C36 (mg/Kg)	TOTAL BTEX (mg/Kg)	BENZENE (mg/Kg)
		On-Site, & De	eper than 4' Past	ure			10000	2500	1000	NE	NE	NE	50	10
Deline	ation Special	Circumstance	, NMOCD Delinea	tion Limits Pa	sture to 4'		600	100	NE	NE	NE	NE	50	10
						Vertical D	elineation							
DV-001.0-00.0-S	0	1/24/2024	Vertical	On-Site	Grab	In-Situ	1,330.0	57,150.0	49,250.0	6,750.0	42,500.0	7,900.0	737.0	56.70
DV-001.0-01.5-S	1.5	1/24/2024	Vertical	On-Site	Grab	In-Situ	1,260.0	830.3	716.3	94.3	622.0	114.0	20.7	1.31
DV-001.0-04.0-S	4	3/8/2024	Vertical	On-Site	Grab	In-Situ	432.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
DV-002.0-00.0-S	0	2/13/2024	Vertical	On-Site	Grab	In-Situ	800.0	13,018.0	10,678.0	78.0	10,600.0	2,340.0	0.3	<10.0
DV-002.0-02.0-S	2	3/4/2024	Vertical	On-Site	Grab	In-Situ	640.0	1,096.0	657.0	<10.0	657.0	439.0	<10.0	<10.0
DV-002.0-04.0-S	4	3/8/2024	Vertical	On-Site	Grab	In-Situ	400.0	25.3	25.3	<10.0	25.3	<10.0	<10.0	<10.0
DV-003.0-00.0-S	0	2/13/2024	Vertical	On-Site	Grab	In-Situ	1,840.0	143.8	76.1	<10.0	76.1	67.7	<10.0	<10.0
DV-003.0-02.0-S	2	3/8/2024	Vertical	On-Site	Grab	In-Situ	224.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
						Horizontal	Delineation							
DH-001.0-01.0-S	1	1/24/2024	Horizontal	On-Site	Grab	In-Situ	512.0	239.6	144.0	<10.0	144.0	95.6	<10.0	<10.0
DH-001.1-01.0-S	1	1/24/2024	Horizontal	On-Site	Grab	In-Situ	160.0	70.8	50.3	<10.0	50.3	20.5	<10.0	<10.0
DH-002.0-01.0-S	1	1/24/2024	Horizontal	On-Site	Grab	In-Situ	1,460.0	254.0	153.0	<10.0	153.0	101.0	<10.0	<10.0
DH-002.2-01.0-P	1	3/4/2024	Horizontal	Off-Site	Grab	In-Situ	192.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
DH-003.0-01.0-P	1	1/24/2024	Horizontal	On-Site	Grab	In-Situ	192.0	74.8	54.9	<10.0	54.9	19.9	<10.0	<10.0
DH-004.0-01.0-S	1	1/24/2024	Horizontal	On-Site	Grab	In-Situ	1,960.0	33.6	22.5	<10.0	22.5	11.1	<10.0	0.15
DH-004.2-01.0-P	1	1/24/2024	Horizontal	Off-Site	Grab	In-Situ	112.0	239.0	108.0	<10.0	108.0	131.0	<10.0	<10.0
DH-004.3-01.0-S	1	2/13/2024	Horizontal	Off-Site	Grab	In-Situ	16.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0

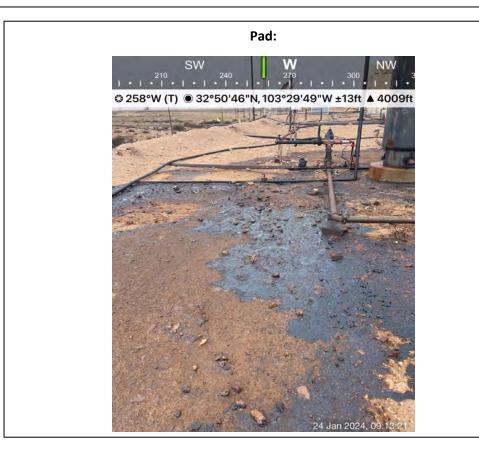
TABLE 2 CONCENTRATIONS OF BENZENE, BTEX, TPH & CHLORIDE IN SOIL

CROSS TIMBERS ENERGY, LLC NORTH VACUUM ABO EAST BATTERY LEA COUNTY, NEW MEXICO NMOCD REFERENCE #: NAPP2402167703



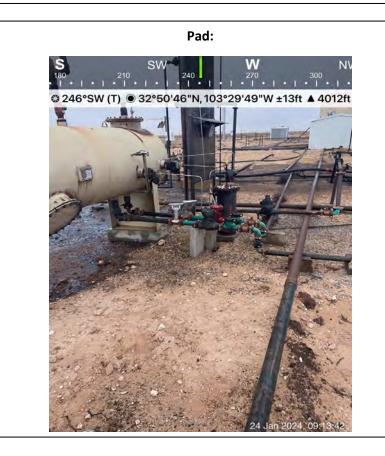
SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	FLOOR/ WALL	OFF-SITE/ ON-SITE	SAMPLE TYPE	SOIL STATUS	CHLORIDE (mg/Kg)	TPH C6-C36 (mg/Kg)	GRO+ DRO (mg/kg)	GRO C6-C10 (mg/Kg)	DRO C10-C28 (mg/Kg)	MRO C28-C36 (mg/Kg)	TOTAL BTEX (mg/Kg)	BENZENE (mg/Kg)
		NMOCD Clos	sure Limits Pad				10000	2500	1000	NE	NE	NE	50	10
	N	MOCD Closure	Limits Pasture	to 4'			600	100	NE	NE	NE	NE	50	10
						Remedi	ation Floors							
CF-001.0-01.5-P	1.5	5/10/2024	Floor	Off-Site	Composite	In-Situ	64.0	<10.0	<10.0	<10.0	<10.0	<10.0	<.300	<0.50
CF-002.0-01.5-P	1.5	5/10/2024	Floor	Off-Site	Composite	In-Situ	112.0	<10.0	<10.0	<10.0	<10.0	<10.0	<.300	<0.50
CF-003.0-00.3-S	0.3	5/10/2024	Floor	On-Site	Composite	In-Situ	1,310.0	87.7	63.1	<10.0	63.1	24.6	<.300	<0.50
CF-004.0-00.3-S	0.3	5/10/2024	Floor	On-Site	Composite	In-Situ	800.0	<10.0	<10.0	<10.0	<10.0	<10.0	<.300	<0.50
CF-005.0-00.3-S	0.3	5/10/2024	Floor	On-Site	Composite	In-Situ	1,100.0	319.0	170.0	<10.0	170.0	149.0	<.300	<0.50
CF-006.0-00.3-S	0.3	5/10/2024	Floor	On-Site	Composite	In-Situ	784.0	49.3	32.2	<10.0	32.2	17.1	<.300	<0.50
CF-007.0-00.3-S	0.3	5/10/2024	Floor	On-Site	Composite	Excavated	976.0	3,420.0	2,370.0	<10.0	2,370.0	1,050.0	<.300	<0.50
CF-007.0-00.5-S	0.5	5/28/2024	Floor	On-Site	Composite	In-Situ	368.0	24.4	24.4	<10.0	24.4	<10.0	<.300	<0.50
CF-008.0-00.3-S	0.3	5/10/2024	Floor	On-Site	Composite	In-Situ	2,400.0	1,000.0	662.0	<10.0	662.0	338.0	<.300	<0.50
CF-009.0-00.3-S	0.3	5/10/2024	Floor	On-Site	Composite	Excavated	640.0	2,158.0	1,440.0	<10.0	1,440.0	718.0	<.300	<0.50
CF-009.0-01.0-S	1	5/28/2024	Floor	On-Site	Composite	In-Situ	384.0	57.7	41.7	<10.0	41.7	16.0	<.300	<0.50
CF-010.0-01.0-S	1	5/10/2024	Floor	On-Site	Composite	In-Situ	672.0	359.0	230.0	<10.0	230.0	129.0	<.300	<0.50
CF-011.0-01.0-S	1	5/10/2024	Floor	On-Site	Composite	In-Situ	384.0	510.0	308.0	<10.0	308.0	202.0	<.300	<0.50
CF-012.0-01.0-S	1	5/10/2024	Floor	On-Site	Composite	In-Situ	592.0	86.5	54.1	<10.0	54.1	32.4	<.300	<0.50
CF-013.0-00.3-S	0.3	5/10/2024	Floor	On-Site	Composite	In-Situ	8,240.0	276.5	193.0	<10.0	193.0	83.5	<.300	<0.50
CF-014.0-01.5-S	1.5	5/10/2024	Floor	On-Site	Composite	In-Situ	416.0	369.0	247.0	<10.0	247.0	122.0	<.300	<0.50
CF-015.0-01.5-S	1.5	5/10/2024	Floor	On-Site	Composite	In-Situ	832.0	119.3	83.3	<10.0	83.3	36.0	<.300	<0.50
CF-016.0-01.5-S	1.5	5/10/2024	Floor	On-Site	Composite	In-Situ	1,070.0	495.0	295.0	<10.0	295.0	200.0	<.300	<0.50
CF-017.0-01.5-S	1.5	5/17/2024	Floor	On-Site	Composite	In-Situ	384.0	850.0	516.0	<10.0	516.0	334.0	<.300	<0.50
CF-018.0-01.5-S	1.5	5/17/2024	Floor	On-Site	Composite	In-Situ	432.0	86.8	56.5	<10.0	56.5	30.3	<.300	<0.50
CF-019.0-01.5-S	1.5	5/17/2024	Floor	On-Site	Composite	In-Situ	192.0	81.4	59.5	<10.0	59.5	21.9	<.300	<0.50
CF-020.0-01.5-S	1.5	5/10/2024	Floor	On-Site	Composite	In-Situ	1,040.0	369.0	210.0	<10.0	210.0	159.0	<.300	<0.50
CF-021.0-01.5-S	1.5	5/10/2024	Floor	On-Site	Composite	In-Situ	944.0	396.0	234.0	<10.0	234.0	162.0	<.300	<0.50
CF-022.0-01.5-S	1.5	5/10/2024	Floor	On-Site	Composite	In-Situ	2,120.0	76.9	44.5	<10.0	44.5	32.4	<.300	<0.50
CF-023.0-00.1-P	0.1	5/10/2024	Floor	Off-Site	Composite	In-Situ	144.0	72.0	34.4	<10.0	34.4	37.6	<.300	<0.50
						Remedi	ation Walls							
CW-001.0-00.1-S	0.1	5/17/2024	Wall	On-Site	Composite	In-Situ	528.0	66.1	47.7	<10.0	47.7	18.4	<.300	<0.50
CW-002.0-01.0-S	1	5/17/2024	Wall	On-Site	Composite	In-Situ	496.0	97.6	61.8	<10.0	61.8	35.8	<.300	< 0.50

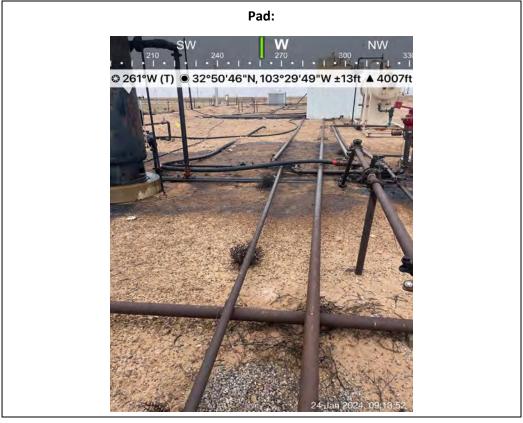




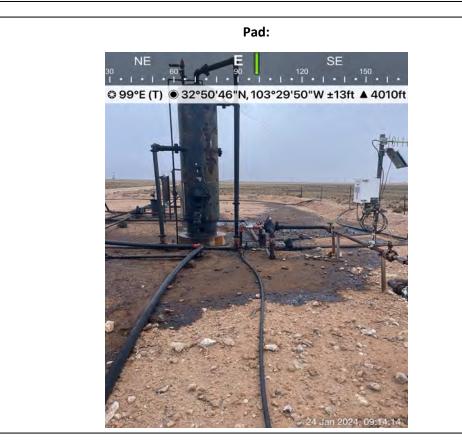


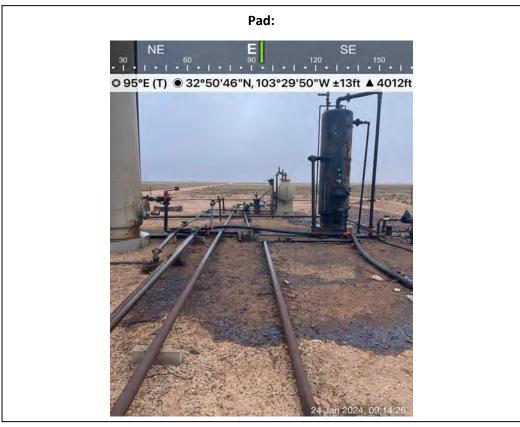












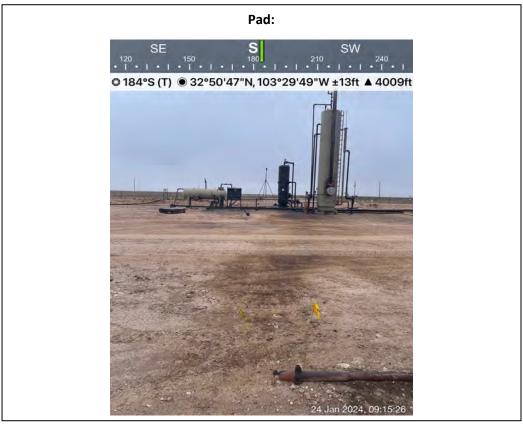
















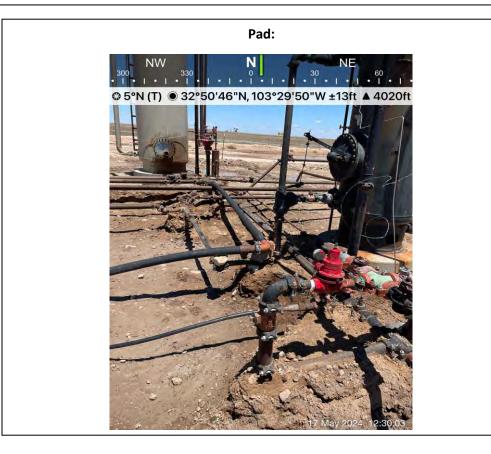


















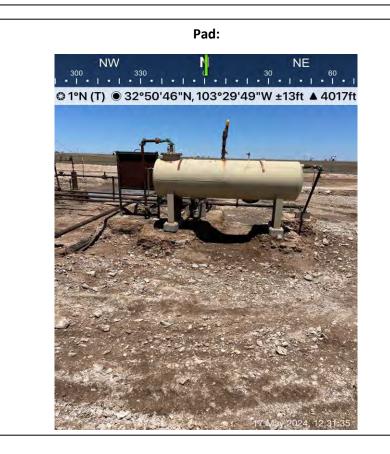






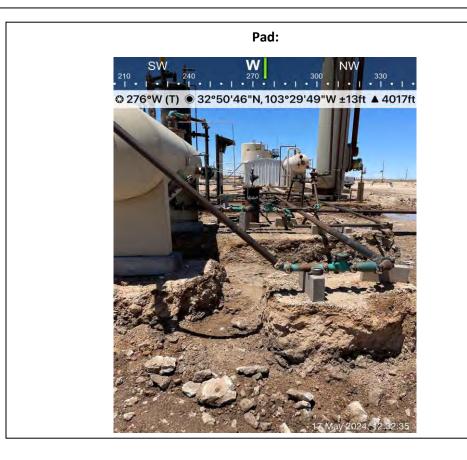


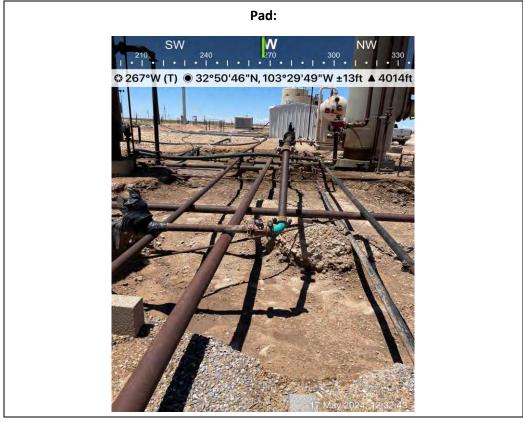




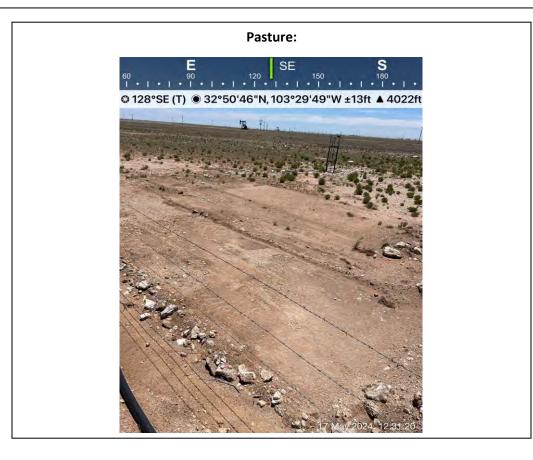


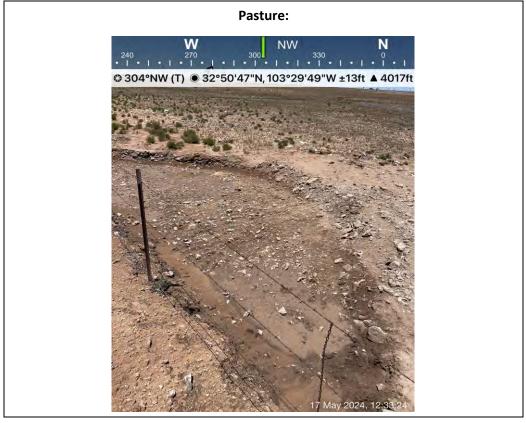




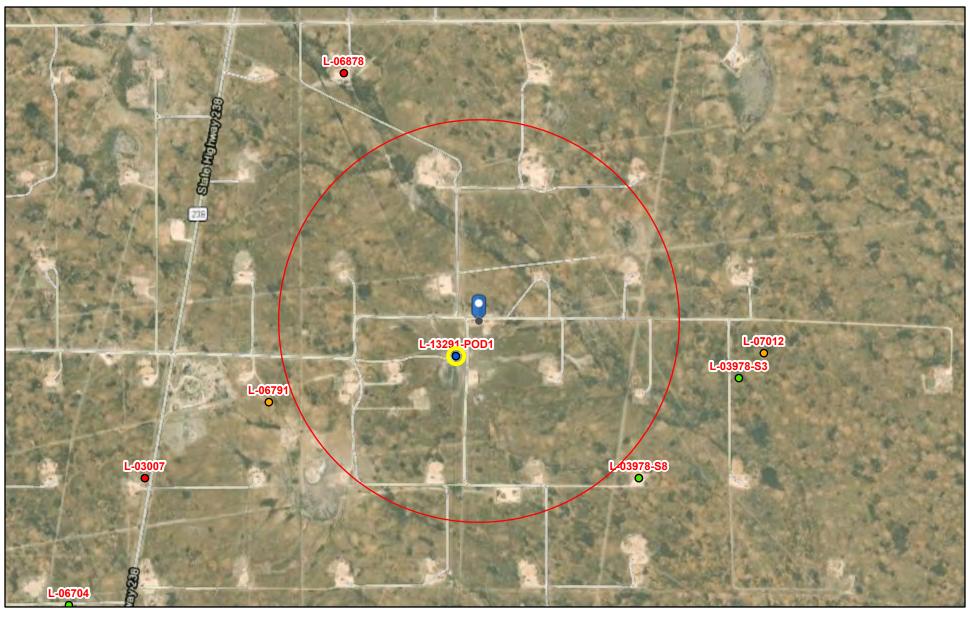








NAPP2402167703 | NORTH VACUUM ABO EAST BATTERY



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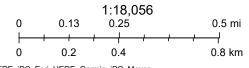
GIS WATERS PODs

Active

Pending

Capped

Plugged



Esri, HERE, iPC, Esri, HERE, Garmin, iPC, Maxar



New Mexico Office of the State Engineer

Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag POD Number

Q64 Q16 Q4 Sec Tws Rng

X Y

L 13291 POD1

2 4 3 07 17S 35E

640512 3635098

98 🌉

Driller License: 1626

Driller Company:

TAYLOR DRILLING

Driller Name:

ROY A TAYLOR

Drill Finish Date:

08/26/2014 Plug Date:

Challarr

Drill Start Date: Log File Date: 08/26/2014 09/09/2014

PCW Rcv Date:

Depth Well:

Source:

Shallow

Pump Type:

Pipe Discharge Size:

Estimated Yield:

15 GPM

Casing Size: 5.14

Depth Water:

86 feet

Water Bearing Stratifications:

25

203 Sandstone/Gravel/Conglomerate

203

Top

206 Sandstone/Gravel/Conglomerate

Casing Perforations:

Top Bottom

170 210

210 feet

Bottom Description

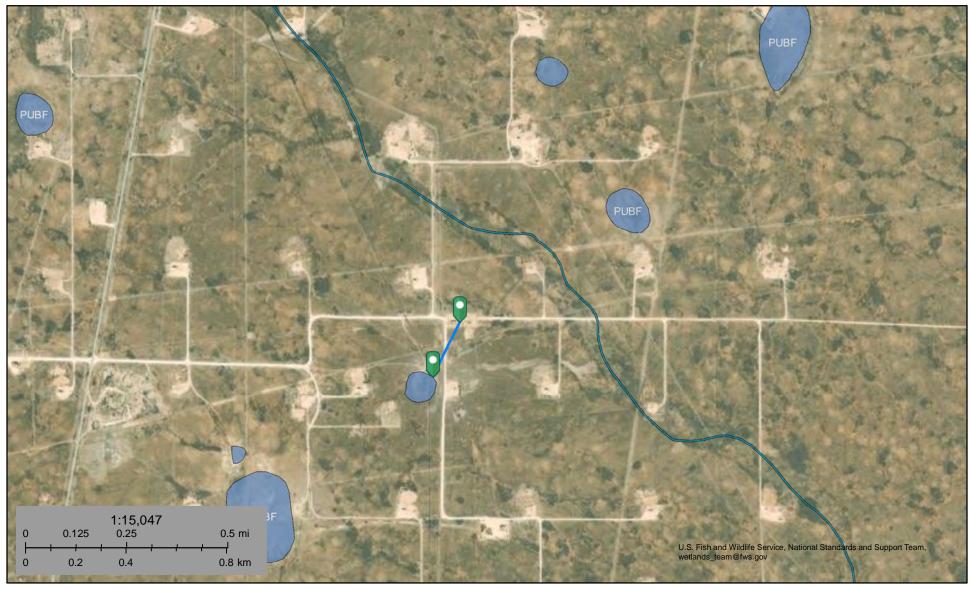
The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, or suitability for any particular purpose of the data.

1/29/24 3:17 PM

POINT OF DIVERSION SUMMARY



NAPP2402167703 | NORTH VACUUM ABO EAST BATTERY



January 29, 2024

Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Lake

Freshwater Forested/Shrub Wetland

Other

Freshwater Pond



Riverine

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

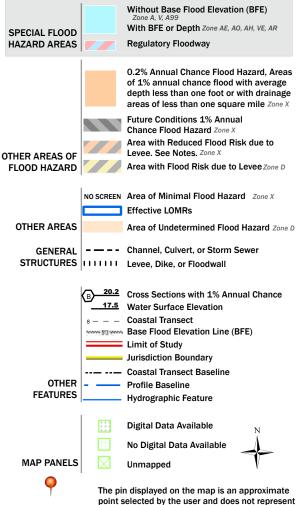
Received by OCD: 7/9/2024 10:28:07,AM National Flood Hazard Layer FIRMette





Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT



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

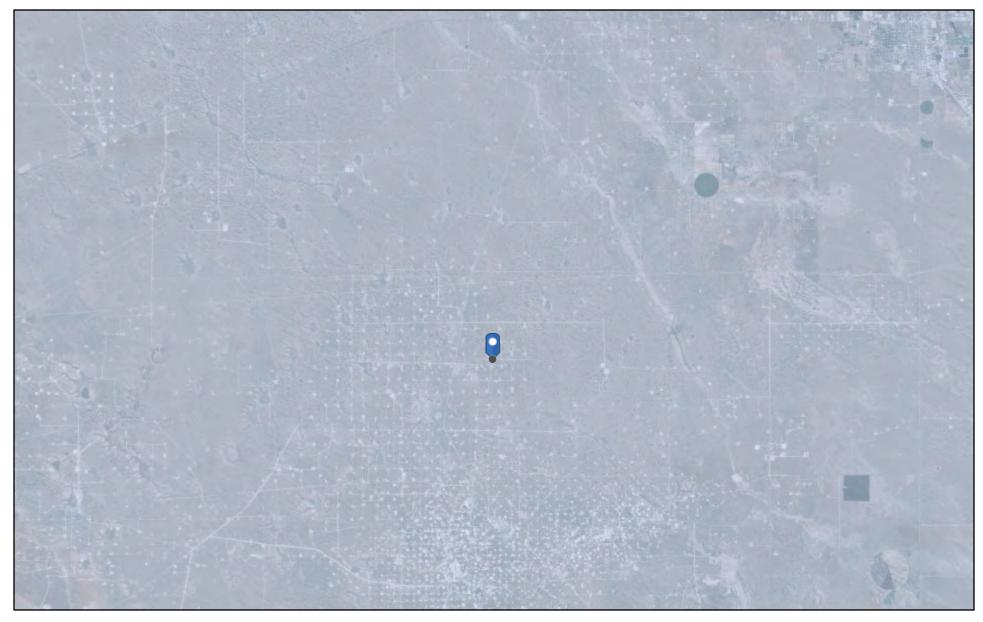
an authoritative property location.

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 1/29/2024 at 5:35 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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



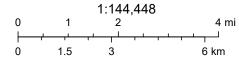
NAPP2402167703 | NORTH VACUUM ABO EAST BATTERY



1/29/2024, 3:33:54 PM

Karst Occurrence Potential





BLM, OCD, New Mexico Tech, Earthstar Geographics

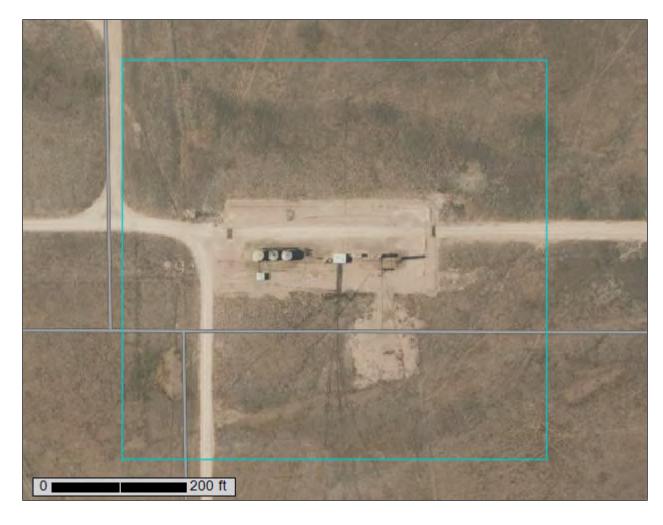


VRCS

Natural Resources Conservation Service A product of the National Cooperative Soil Survey, a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local participants

Custom Soil Resource Report for Lea County, New Mexico

NAPP2402167703 | NORTH VACUUM ABO EAST BATTERY



Preface

Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (https://offices.sc.egov.usda.gov/locator/app?agency=nrcs) or your NRCS State Soil Scientist (http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2 053951).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Web Soil Survey, the site for official soil survey information.

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How Soil Surveys Are Made

Soil surveys are made to provide information about the soils and miscellaneous areas in a specific area. They include a description of the soils and miscellaneous areas and their location on the landscape and tables that show soil properties and limitations affecting various uses. Soil scientists observed the steepness, length, and shape of the slopes; the general pattern of drainage; the kinds of crops and native plants; and the kinds of bedrock. They observed and described many soil profiles. A soil profile is the sequence of natural layers, or horizons, in a soil. The profile extends from the surface down into the unconsolidated material in which the soil formed or from the surface down to bedrock. The unconsolidated material is devoid of roots and other living organisms and has not been changed by other biological activity.

Currently, soils are mapped according to the boundaries of major land resource areas (MLRAs). MLRAs are geographically associated land resource units that share common characteristics related to physiography, geology, climate, water resources, soils, biological resources, and land uses (USDA, 2006). Soil survey areas typically consist of parts of one or more MLRA.

The soils and miscellaneous areas in a survey area occur in an orderly pattern that is related to the geology, landforms, relief, climate, and natural vegetation of the area. Each kind of soil and miscellaneous area is associated with a particular kind of landform or with a segment of the landform. By observing the soils and miscellaneous areas in the survey area and relating their position to specific segments of the landform, a soil scientist develops a concept, or model, of how they were formed. Thus, during mapping, this model enables the soil scientist to predict with a considerable degree of accuracy the kind of soil or miscellaneous area at a specific location on the landscape.

Commonly, individual soils on the landscape merge into one another as their characteristics gradually change. To construct an accurate soil map, however, soil scientists must determine the boundaries between the soils. They can observe only a limited number of soil profiles. Nevertheless, these observations, supplemented by an understanding of the soil-vegetation-landscape relationship, are sufficient to verify predictions of the kinds of soil in an area and to determine the boundaries.

Soil scientists recorded the characteristics of the soil profiles that they studied. They noted soil color, texture, size and shape of soil aggregates, kind and amount of rock fragments, distribution of plant roots, reaction, and other features that enable them to identify soils. After describing the soils in the survey area and determining their properties, the soil scientists assigned the soils to taxonomic classes (units). Taxonomic classes are concepts. Each taxonomic class has a set of soil characteristics with precisely defined limits. The classes are used as a basis for comparison to classify soils systematically. Soil taxonomy, the system of taxonomic classification used in the United States, is based mainly on the kind and character of soil properties and the arrangement of horizons within the profile. After the soil

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scientists classified and named the soils in the survey area, they compared the individual soils with similar soils in the same taxonomic class in other areas so that they could confirm data and assemble additional data based on experience and research.

The objective of soil mapping is not to delineate pure map unit components; the objective is to separate the landscape into landforms or landform segments that have similar use and management requirements. Each map unit is defined by a unique combination of soil components and/or miscellaneous areas in predictable proportions. Some components may be highly contrasting to the other components of the map unit. The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The delineation of such landforms and landform segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, onsite investigation is needed to define and locate the soils and miscellaneous areas.

Soil scientists make many field observations in the process of producing a soil map. The frequency of observation is dependent upon several factors, including scale of mapping, intensity of mapping, design of map units, complexity of the landscape, and experience of the soil scientist. Observations are made to test and refine the soil-landscape model and predictions and to verify the classification of the soils at specific locations. Once the soil-landscape model is refined, a significantly smaller number of measurements of individual soil properties are made and recorded. These measurements may include field measurements, such as those for color, depth to bedrock, and texture, and laboratory measurements, such as those for content of sand, silt, clay, salt, and other components. Properties of each soil typically vary from one point to another across the landscape.

Observations for map unit components are aggregated to develop ranges of characteristics for the components. The aggregated values are presented. Direct measurements do not exist for every property presented for every map unit component. Values for some properties are estimated from combinations of other properties.

While a soil survey is in progress, samples of some of the soils in the area generally are collected for laboratory analyses and for engineering tests. Soil scientists interpret the data from these analyses and tests as well as the field-observed characteristics and the soil properties to determine the expected behavior of the soils under different uses. Interpretations for all of the soils are field tested through observation of the soils in different uses and under different levels of management. Some interpretations are modified to fit local conditions, and some new interpretations are developed to meet local needs. Data are assembled from other sources, such as research information, production records, and field experience of specialists. For example, data on crop yields under defined levels of management are assembled from farm records and from field or plot experiments on the same kinds of soil.

Predictions about soil behavior are based not only on soil properties but also on such variables as climate and biological activity. Soil conditions are predictable over long periods of time, but they are not predictable from year to year. For example, soil scientists can predict with a fairly high degree of accuracy that a given soil will have a high water table within certain depths in most years, but they cannot predict that a high water table will always be at a specific level in the soil on a specific date.

After soil scientists located and identified the significant natural bodies of soil in the survey area, they drew the boundaries of these bodies on aerial photographs and

Custom Soil Resource Report

identified each as a specific map unit. Aerial photographs show trees, buildings, fields, roads, and rivers, all of which help in locating boundaries accurately.

Soil Map

The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.



MAP LEGEND

Area of Interest (AOI)

Area of Interest (AOI)

Soils

Soil Map Unit Polygons

Soil Map Unit Lines

Soil Map Unit Points

Special Point Features

ဖ

Blowout

Borrow Pit

Clay Spot

Closed Depression

Gravel Pit

Gravelly Spot

Landfill Lava Flow

Marsh or swamp

Mine or Quarry

Miscellaneous Water

Perennial Water

Rock Outcrop

Saline Spot

Sandy Spot

Severely Eroded Spot

Sinkhole

Sodic Spot

Slide or Slip

Spoil Area



Stony Spot



Very Stony Spot



Wet Spot Other



Special Line Features

Water Features

Streams and Canals

Transportation

Rails

Interstate Highways

US Routes Major Roads

00

Local Roads

Background

Aerial Photography

MAP INFORMATION

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

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

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

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

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

Coordinate System: Web Mercator (EPSG:3857)

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

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

Soil Survey Area: Lea County, New Mexico Survey Area Data: Version 20, Sep 6, 2023

Soil map units are labeled (as space allows) for map scales 1:50.000 or larger.

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

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

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
ко	Kimbrough gravelly loam, dry, 0 to 3 percent slopes	0.6	7.2%
KU	Kimbrough-Lea complex, dry, 0 to 3 percent slopes	7.9	92.8%
Totals for Area of Interest		8.5	100.0%

Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however,

onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An association is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Lea County, New Mexico

KO—Kimbrough gravelly loam, dry, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 2tw43 Elevation: 2,500 to 4,800 feet

Mean annual precipitation: 14 to 16 inches Mean annual air temperature: 57 to 63 degrees F

Frost-free period: 180 to 220 days

Farmland classification: Not prime farmland

Map Unit Composition

Kimbrough, dry, and similar soils: 80 percent

Minor components: 20 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Kimbrough, Dry

Setting

Landform: Playa rims, plains
Down-slope shape: Convex, linear
Across-slope shape: Concave, linear

Parent material: Loamy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 3 inches: gravelly loam Bw - 3 to 10 inches: loam

Bkkm1 - 10 to 16 inches: cemented material Bkkm2 - 16 to 80 inches: cemented material

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: 4 to 18 inches to petrocalcic

Drainage class: Well drained Runoff class: Very high

Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately

low (0.00 to 0.01 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 95 percent

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

Sodium adsorption ratio, maximum: 1.0

Available water supply, 0 to 60 inches: Very low (about 1.4 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7s

Hydrologic Soil Group: D

Ecological site: R077DY049TX - Very Shallow 12-17" PZ

Hydric soil rating: No

Minor Components

Eunice

Percent of map unit: 10 percent

Landform: Plains

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

Ecological site: R077DY049TX - Very Shallow 12-17" PZ

Hydric soil rating: No

Spraberry

Percent of map unit: 6 percent Landform: Playa rims, plains Down-slope shape: Convex, linear

Across-slope shape: Linear

Ecological site: R077DY049TX - Very Shallow 12-17" PZ

Hydric soil rating: No

Kenhill

Percent of map unit: 4 percent

Landform: Plains

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

Ecological site: R077DY038TX - Clay Loam 12-17" PZ

Hydric soil rating: No

KU—Kimbrough-Lea complex, dry, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 2tw46 Elevation: 2,500 to 4,800 feet

Mean annual precipitation: 14 to 16 inches Mean annual air temperature: 57 to 63 degrees F

Frost-free period: 180 to 220 days

Farmland classification: Not prime farmland

Map Unit Composition

Kimbrough and similar soils: 45 percent Lea and similar soils: 25 percent

Minor components: 30 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Kimbrough

Setting

Landform: Playa rims, plains Down-slope shape: Convex, linear Across-slope shape: Concave, linear

Parent material: Loamy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 3 inches: gravelly loam Bw - 3 to 10 inches: loam

Bkkm1 - 10 to 16 inches: cemented material Bkkm2 - 16 to 80 inches: cemented material

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: 4 to 18 inches to petrocalcic

Drainage class: Well drained Runoff class: Very high

Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately

low (0.00 to 0.01 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 95 percent

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

Sodium adsorption ratio, maximum: 1.0

Available water supply, 0 to 60 inches: Very low (about 1.4 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7s

Hydrologic Soil Group: D

Ecological site: R077DY049TX - Very Shallow 12-17" PZ

Hydric soil rating: No

Description of Lea

Setting

Landform: Plains

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

Parent material: Calcareous, loamy eolian deposits from the blackwater draw formation of pleistocene age over indurated caliche of pliocene age

Typical profile

A - 0 to 10 inches: loam Bk - 10 to 18 inches: loam

Bkk - 18 to 26 inches: gravelly fine sandy loam Bkkm - 26 to 80 inches: cemented material

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: 22 to 30 inches to petrocalcic

Drainage class: Well drained

Runoff class: High

Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately

low (0.00 to 0.06 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 90 percent

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

Sodium adsorption ratio, maximum: 3.0

Available water supply, 0 to 60 inches: Very low (about 2.9 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7s

Hydrologic Soil Group: D

Ecological site: R077DY047TX - Sandy Loam 12-17" PZ

Hydric soil rating: No

Minor Components

Kenhill

Percent of map unit: 12 percent

Landform: Plains

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

Ecological site: R077DY038TX - Clay Loam 12-17" PZ

Hydric soil rating: No

Douro

Percent of map unit: 12 percent

Landform: Plains

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

Ecological site: R077DY047TX - Sandy Loam 12-17" PZ Other vegetative classification: Unnamed (G077DH000TX)

Hydric soil rating: No

Spraberry

Percent of map unit: 6 percent Landform: Playa rims, plains Down-slope shape: Convex, linear

Across-slope shape: Linear

Ecological site: R077DY049TX - Very Shallow 12-17" PZ Other vegetative classification: Unnamed (G077DH000TX)

Hydric soil rating: No

Soil Information for All Uses

Suitabilities and Limitations for Use

The Suitabilities and Limitations for Use section includes various soil interpretations displayed as thematic maps with a summary table for the soil map units in the selected area of interest. A single value or rating for each map unit is generated by aggregating the interpretive ratings of individual map unit components. This aggregation process is defined for each interpretation.

Soil Health

Soil health interpretations are designed to be used as tools for evaluating and managing a soil's capacity to function as a vital living ecosystem that sustains plants, animals, and humans. Example interpretations include compaction, surface sealing, carbon sequestration, resistance and resilience, management systems and practices, and cover crops.

Fragile Soil Index

SOH - Soil Health

Soils can be rated based on their susceptibility to degradation in the "Fragile Soil Index" interpretation. Fragile soils are those that are most vulnerable to degradation. In other words, they can be easily degradedthey have a low resistance to degradation processes. They tend to be highly susceptible to erosion and can have a low capacity to recover after degradation has occurred (low resilience). Fragile soils are generally characterized by a low content of organic matter, low aggregate stability, and weak soil structure. They are generally located on sloping ground, have sparse plant cover, and tend to be in arid or semiarid regions. The index can be used for conservation and watershed planning to assist in identifying soils and areas highly vulnerable to degradation.

Depending on inherent soil characteristics and the climate, soils can vary from highly resistant, or stable, to vulnerable and extremely sensitive to degradation. Under stress, fragile soils can degrade to a new altered state, which may be less favorable or unfavorable for plant growth and less capable of performing soil functions. To assess the fragility of the soil, indicators of vulnerability to degradation

processes are used. They include organic matter, soil structure, rooting depth, vegetative cover, slope, and aridity.

The organic matter content indicates the capacity of the soil to resist and/or recover from degradation processes. Organic matter improves the soil pore structure, increases water infiltration, and reduces soil compaction and soil erosion. Soil structure indicates the capacity of the soil to resist degradation from accelerated water erosion (by increasing the amount of infiltration). Pore structure is the most important aspect of soil structure as pores provide habitat for organism. Shallow soils are more vulnerable to degradation processes because they have limited rooting depth and have a reduced amount of material from which to form new soil. As erosion removes the upper soil profile, productivity will decline if the subsoil is limiting for crop growth. Vegetative cover is very important as uncovered soil is most vulnerable to the processes of soil erosion, both by wind and water. Slope (a measure of the steepness or the degree of inclination) indicates the degree of vulnerability to erosion and mass movement. Aridity is defined by the shortage of moisture. Lack of water is a main factor limiting biological processes and the ability of the soil to resist and/or recover from degradation.

Soils are placed into interpretive classes based on their index rating, which ranges from 0 to 1. An index rating of 1 is the most fragile, while a rating of zero is the least fragile. Interpretative classes are as follows:

Not Fragile (index rating less than or equal to 0.009) These soils have a very high potential to resist degradation and be highly resilient. They are highly structured with an organic matter content greater than 5.7%, are nearly level, are deep or very deep, have greater than 85% vegetative cover, and are in a climate that is wet or very wet.

Slightly Fragile (index rating less than 0.009 and less than or equal to 0.209) These soils have a high potential to resist degradation and be resilient. They are:

- Poorly structured to weakly structured soils that have an extremely low to moderate content of organic matter, are very deep, have high vegetative cover, occur on nearly level ground, and are in wet or very wet climates;
- Highly structured soils that have a very high content of organic matter, are very shallow to moderately deep, have high vegetative cover, occur on nearly level ground, and are in wet or very wet climates;
- Highly structured soils that have a very high content of organic matter, are very deep, have low to moderately high vegetative cover, occur on nearly level ground, and are in wet or very wet climates;
- Highly structured soils that have a very high content of organic matter, are very deep, have high vegetative cover; are on slopes greater than 3%, and are in wet or very wet climates; or
- Highly structured soils that have a very high content of organic matter, are very deep, have high vegetative cover; occur on nearly level ground, and in semi-dry to mildly wet climates;

Moderately Fragile (index rating greater than 0.209 and less than or equal to 0.409) These soils have a moderate potential to resist degradation and be moderately resilient. They are:

- Highly structured soils that have a very high content of organic matter, are very shallow, have high vegetative cover, occur in nearly level to moderately sloping areas, and are in semi-dry climates;
- Poorly structured soils that have an extremely low content of organic matter, are deep, have low vegetative cover, occur in nearly level areas, and are in wet or very wet climates;
- Poorly structured soils that have an extremely low content of organic matter, occur on gentle to very steep slopes, have high vegetative cover, and are in wet or very wet climates;
- Weakly structured soils that have a very low content of organic matter, are deep, occur in nearly level to gently sloping areas, have high vegetative cover, and are in semi-dry climates; or
- Weakly structured soils that have a very low content of organic matter, are very shallow to very deep, occur in nearly level to strongly sloping areas, have high vegetative cover, and are in mildly wet climates.

Fragile (index rating greater than 0.409 and less than or equal to 0.609) These soils have a low potential to resist degradation and low resilience. They are:

- Well structured soils that have a low content of organic matter, are shallow to very deep, have moderate to moderately high vegetative cover, occur on steep slopes, and are in dry climates;
- Well structured soils that have a low content of organic matter, are shallow to very deep, have a low vegetative cover, occur in nearly level to gently sloping areas, and are in dry climates;
- Well structured soils that have a low content of organic matter, are deep, have low vegetative cover, occur on nearly level to very steep slopes, and are in a semi-dry climate;
- Moderately structured soils that have a very low content of organic matter, are deep, have moderately high vegetative cover, occur on moderately steep to very steep slopes, and are in semi-dry climates; or
- Weakly structured soils that have a low content of organic matter, occur on moderately steep to very steep slopes, have low vegetative cover, and are in wet or very wet climates.

Very Fragile (index rating greater than 0.609 and less than or equal to 0.809) These soils have a very low potential to resist degradation and very low resilience. They are:

- Weakly structured soils that have an extremely low content of organic matter, are deep, have low vegetative cover, occur on nearly level to very steep slopes, and are in dry climates;
- Weakly structured soils that have an extremely low content of organic matter, are shallow to very deep, have low vegetative cover, occur on nearly level to very steep slopes, and are in very dry climates; or
- Poorly structured soils that have an extremely low content of organic matter, are very shallow, have no vegetative cover, occur on steep slopes, and are in mildly wet to wet climates.

Extremely Fragile (index rating greater than 0.809 and less than or equal to 1.0) These soils can have no potential to resist degradation and no resilience. They are:

- Poorly structured soils that have an extremely low content of organic matter, are very shallow, have low vegetative cover, occur on very steep slopes, and are in dry or very dry climates;
- Weakly structured soils that have a very low content of organic matter, are nearly level to very deep, have low vegetative cover, occur on very steep slopes, and are in dry climates; or
- Very shallow soils on steep slopes.

The interpretive rating is based on soils that occur in the dominant land use for the map unit component and may not represent soils that occur in site-specific land uses.



MAP LEGEND MAP INFORMATION Area of Interest (AOI) The soil surveys that comprise your AOI were mapped at Not rated or not available 1:20.000. Area of Interest (AOI) **Water Features** Soils Streams and Canals Warning: Soil Map may not be valid at this scale. Soil Rating Polygons Transportation Extremely fragile Rails +++ Enlargement of maps beyond the scale of mapping can cause Highly fragile misunderstanding of the detail of mapping and accuracy of soil Interstate Highways line placement. The maps do not show the small areas of Fragile **US Routes** contrasting soils that could have been shown at a more detailed Moderately fragile scale. Major Roads Slightly fragile Local Roads Please rely on the bar scale on each map sheet for map Not fragile measurements. Background Aerial Photography Not rated or not available Source of Map: Natural Resources Conservation Service Soil Rating Lines Web Soil Survey URL: Extremely fragile Coordinate System: Web Mercator (EPSG:3857) Highly fragile Maps from the Web Soil Survey are based on the Web Mercator Fragile projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Moderately fragile Albers equal-area conic projection, should be used if more Slightly fragile accurate calculations of distance or area are required. Not fragile This product is generated from the USDA-NRCS certified data as Not rated or not available of the version date(s) listed below. **Soil Rating Points** Soil Survey Area: Lea County, New Mexico Extremely fragile Survey Area Data: Version 20, Sep 6, 2023 Highly fragile Soil map units are labeled (as space allows) for map scales Fragile 1:50.000 or larger. Moderately fragile Date(s) aerial images were photographed: Feb 7, 2020—May Slightly fragile 12. 2020 Not fragile The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Tables—Fragile Soil Index

Map unit symbol	Map unit name	Rating	Component name (percent)	Rating reasons (numeric values)	Acres in AOI	Percent of AOI					
КО	Kimbrough gravelly loam,	gravelly loam,	gravelly loam, (8	Kimbrough, dry (80%)	Poor structure (1.00)	0.6	7.2%				
	dry, 0 to 3 percent slopes			Dry (0.70)							
				Low organic matter (0.69)							
		5	Shallow (0.65)								
				High vegetative cover (0.07)							
			Eunice (10%)	Extremely low organic matter (0.96)							
				Weakly structured (0.75)							
				Dry (0.70)							
				Shallow (0.60)							
		High vegetative cover (0.07) Spraberry (6%) Extremely low organic matter (0.97) Weakly structured (0.75) Dry (0.70) Moderately deep (0.45)									
			organic matter								
									structured		
				High vegetative cover (0.07)							
			Kenhill (4%)	Poor structure (1.00)							
				Very low organic matter (0.91)							
				Dry (0.70)							
			Moderately deep (0.27)								
			Moderately-high vegetative cover (0.14)								
KU	Kimbrough-Lea complex, dry, 0 to 3 percent slopes	Kimbrough (45%)	Poor structure (1.00)	7.9	92.8%						
			Dry (0.70)								
				Low organic matter (0.69)							

Map unit symbol	Map unit name	Rating	Component name (percent)	Rating reasons (numeric values)	Acres in AOI	Percent of AC
				Shallow (0.65)		
				High vegetative cover (0.07)		
			Kenhill (12%)	Poor structure (1.00)		
				Very low organic matter (0.91)		
				Dry (0.70)		
				Moderately deep (0.27)		
				Moderately-high vegetative cover (0.14)		
			Douro (12%)	Extremely low organic matter (0.95)		
				Weakly structured (0.75)		
				Dry (0.70)		
				Moderately deep (0.25)		
				Nearly level (0.02)		
			Spraberry (6%)	Extremely low organic matter (0.97)		
				Weakly structured (0.75)		
				Dry (0.70)		
				Moderately deep (0.45)		
				High vegetative cover (0.07)		

Rating	Acres in AOI	Percent of AOI
Fragile	8.5	100.0%
Totals for Area of Interest	8.5	100.0%

Rating Options—Fragile Soil Index

Aggregation Method: Dominant Condition

Aggregation is the process by which a set of component attribute values is reduced to a single value that represents the map unit as a whole.

A map unit is typically composed of one or more "components". A component is either some type of soil or some nonsoil entity, e.g., rock outcrop. For the attribute being aggregated, the first step of the aggregation process is to derive one attribute value for each of a map unit's components. From this set of component attributes, the next step of the aggregation process derives a single value that represents the map unit as a whole. Once a single value for each map unit is derived, a thematic map for soil map units can be rendered. Aggregation must be done because, on any soil map, map units are delineated but components are not.

For each of a map unit's components, a corresponding percent composition is recorded. A percent composition of 60 indicates that the corresponding component typically makes up approximately 60% of the map unit. Percent composition is a critical factor in some, but not all, aggregation methods.

The aggregation method "Dominant Condition" first groups like attribute values for the components in a map unit. For each group, percent composition is set to the sum of the percent composition of all components participating in that group. These groups now represent "conditions" rather than components. The attribute value associated with the group with the highest cumulative percent composition is returned. If more than one group shares the highest cumulative percent composition, the corresponding "tie-break" rule determines which value should be returned. The "tie-break" rule indicates whether the lower or higher group value should be returned in the case of a percent composition tie. The result returned by this aggregation method represents the dominant condition throughout the map unit only when no tie has occurred.

Component Percent Cutoff: None Specified

Components whose percent composition is below the cutoff value will not be considered. If no cutoff value is specified, all components in the database will be considered. The data for some contrasting soils of minor extent may not be in the database, and therefore are not considered.

Tie-break Rule: Higher

The tie-break rule indicates which value should be selected from a set of multiple candidate values, or which value should be selected in the event of a percent composition tie.

Soil Properties and Qualities

The Soil Properties and Qualities section includes various soil properties and qualities displayed as thematic maps with a summary table for the soil map units in the selected area of interest. A single value or rating for each map unit is generated by aggregating the interpretive ratings of individual map unit components. This aggregation process is defined for each property or quality.

Soil Chemical Properties

Soil Chemical Properties are measured or inferred from direct observations in the field or laboratory. Examples of soil chemical properties include pH, cation exchange capacity, calcium carbonate, gypsum, and electrical conductivity.

Gypsum

The content of gypsum is the percent, by weight, of hydrated calcium sulfates in the fraction of the soil less than 20 millimeters in size. Gypsum is partially soluble in water. Soils high in content of gypsum, such as those with more than 10 percent gypsum, may collapse if the gypsum is removed by percolating water. Gypsum is corrosive to concrete.

For each soil layer, this attribute is actually recorded as three separate values in the database. A low value and a high value indicate the range of this attribute for the soil component. A "representative" value indicates the expected value of this attribute for the component. For this soil property, only the representative value is used.



MAP LEGEND

Area of Interest (AOI)

Area of Interest (AOI)

Soils

Soil Rating Polygons

= 0

Not rated or not available

Soil Rating Lines

•

Not rated or not available

Soil Rating Points

=

Not rated or not available

Water Features

Streams and Canals

Transportation

+++ Rails

Interstate Highways

US Routes

Major Roads

Local Roads

Background

Aerial Photography

MAP INFORMATION

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

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

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

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

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

Coordinate System: Web Mercator (EPSG:3857)

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

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

Soil Survey Area: Lea County, New Mexico Survey Area Data: Version 20, Sep 6, 2023

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

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

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

Table—Gypsum

Map unit symbol	Map unit name	Rating (percent)	Acres in AOI	Percent of AOI
КО	Kimbrough gravelly loam, dry, 0 to 3 percent slopes	0	0.6	7.2%
ки	Kimbrough-Lea complex, dry, 0 to 3 percent slopes	0	7.9	92.8%
Totals for Area of Interest			8.5	100.0%

Rating Options—Gypsum

Units of Measure: percent

Aggregation Method: Dominant Component

Aggregation is the process by which a set of component attribute values is reduced to a single value that represents the map unit as a whole.

A map unit is typically composed of one or more "components". A component is either some type of soil or some nonsoil entity, e.g., rock outcrop. For the attribute being aggregated, the first step of the aggregation process is to derive one attribute value for each of a map unit's components. From this set of component attributes, the next step of the aggregation process derives a single value that represents the map unit as a whole. Once a single value for each map unit is derived, a thematic map for soil map units can be rendered. Aggregation must be done because, on any soil map, map units are delineated but components are not.

For each of a map unit's components, a corresponding percent composition is recorded. A percent composition of 60 indicates that the corresponding component typically makes up approximately 60% of the map unit. Percent composition is a critical factor in some, but not all, aggregation methods.

The aggregation method "Dominant Component" returns the attribute value associated with the component with the highest percent composition in the map unit. If more than one component shares the highest percent composition, the corresponding "tie-break" rule determines which value should be returned. The "tie-break" rule indicates whether the lower or higher attribute value should be returned in the case of a percent composition tie. The result returned by this aggregation method may or may not represent the dominant condition throughout the map unit.

Component Percent Cutoff: None Specified

Components whose percent composition is below the cutoff value will not be considered. If no cutoff value is specified, all components in the database will be considered. The data for some contrasting soils of minor extent may not be in the database, and therefore are not considered.

Tie-break Rule: Higher

The tie-break rule indicates which value should be selected from a set of multiple candidate values, or which value should be selected in the event of a percent composition tie.

Interpret Nulls as Zero: Yes

This option indicates if a null value for a component should be converted to zero before aggregation occurs. This will be done only if a map unit has at least one component where this value is not null.

Layer Options (Horizon Aggregation Method): Surface Layer (Not applicable)

For an attribute of a soil horizon, a depth qualification must be specified. In most cases it is probably most appropriate to specify a fixed depth range, either in centimeters or inches. The Bottom Depth must be greater than the Top Depth, and the Top Depth can be greater than zero. The choice of "inches" or "centimeters" only applies to the depth of soil to be evaluated. It has no influence on the units of measure the data are presented in.

When "Surface Layer" is specified as the depth qualifier, only the surface layer or horizon is considered when deriving a value for a component, but keep in mind that the thickness of the surface layer varies from component to component.

When "All Layers" is specified as the depth qualifier, all layers recorded for a component are considered when deriving the value for that component.

Whenever more than one layer or horizon is considered when deriving a value for a component, and the attribute being aggregated is a numeric attribute, a weighted average value is returned, where the weighting factor is the layer or horizon thickness.

Soil Erosion Factors

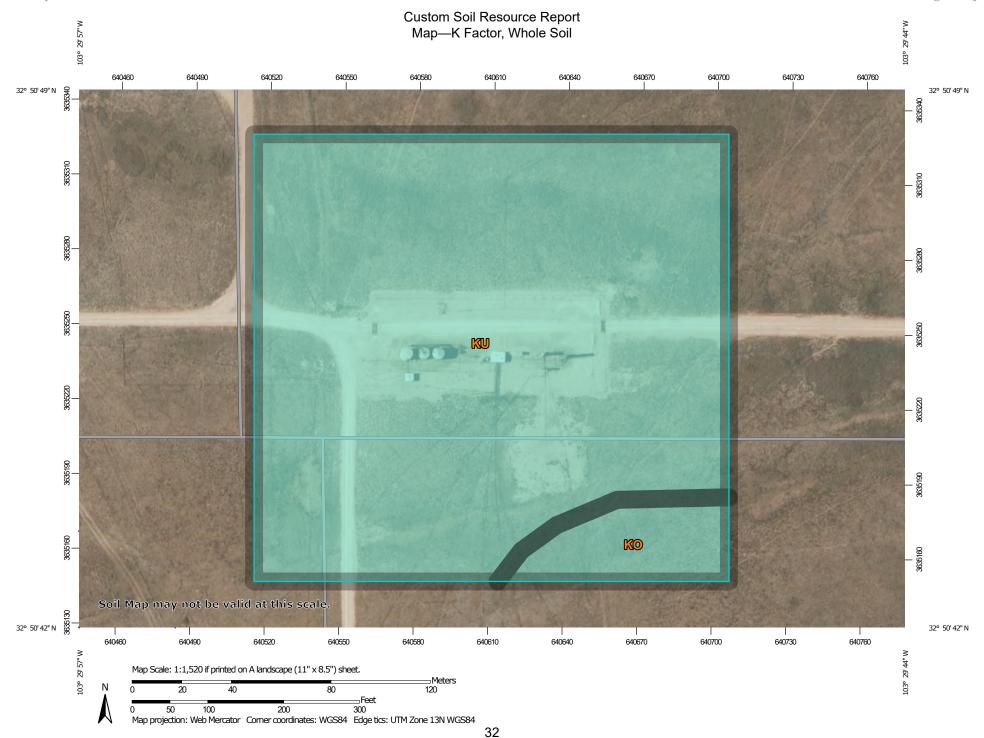
Soil Erosion Factors are soil properties and interpretations used in evaluating the soil for potential erosion. Example soil erosion factors can include K factor for the whole soil or on a rock free basis, T factor, wind erodibility group and wind erodibility index.

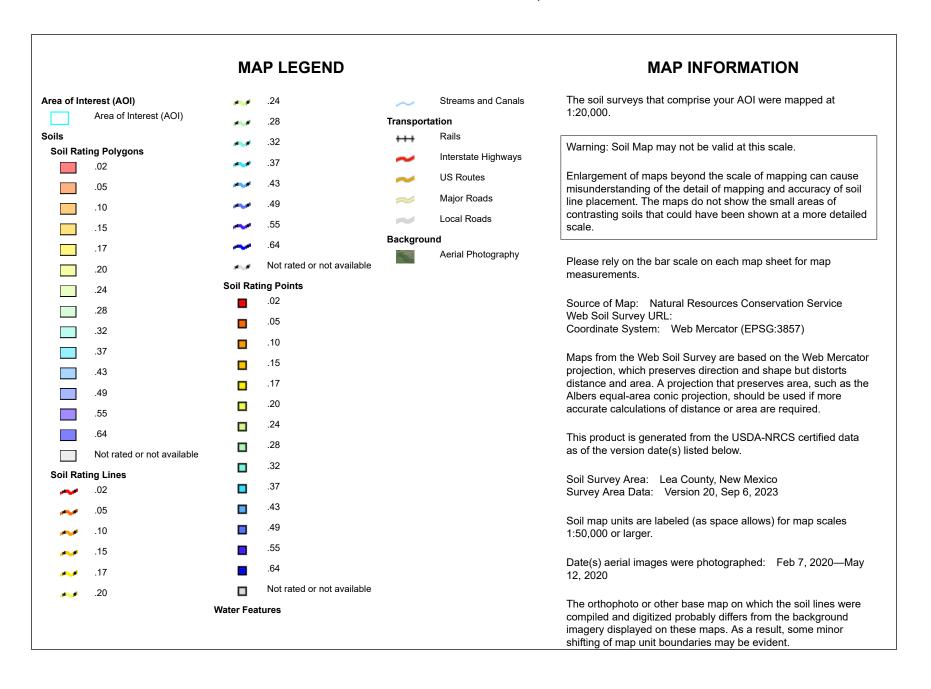
K Factor, Whole Soil

Erosion factor K indicates the susceptibility of a soil to sheet and rill erosion by water. Factor K is one of six factors used in the Universal Soil Loss Equation (USLE) and the Revised Universal Soil Loss Equation (RUSLE) to predict the average annual rate of soil loss by sheet and rill erosion in tons per acre per year. The estimates are based primarily on percentage of silt, sand, and organic matter and on soil structure and saturated hydraulic conductivity (Ksat). Values of K range from 0.02 to 0.69. Other factors being equal, the higher the value, the more susceptible the soil is to sheet and rill erosion by water.

"Erosion factor Kw (whole soil)" indicates the erodibility of the whole soil. The estimates are modified by the presence of rock fragments.

Factor K does not apply to organic horizons and is not reported for those layers.





Table—K Factor, Whole Soil

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
ко	Kimbrough gravelly loam, dry, 0 to 3 percent slopes	.32	0.6	7.2%
ки	Kimbrough-Lea complex, dry, 0 to 3 percent slopes	.32	7.9	92.8%
Totals for Area of Interest			8.5	100.0%

Rating Options—K Factor, Whole Soil

Aggregation Method: Dominant Condition

Aggregation is the process by which a set of component attribute values is reduced to a single value that represents the map unit as a whole.

A map unit is typically composed of one or more "components". A component is either some type of soil or some nonsoil entity, e.g., rock outcrop. For the attribute being aggregated, the first step of the aggregation process is to derive one attribute value for each of a map unit's components. From this set of component attributes, the next step of the aggregation process derives a single value that represents the map unit as a whole. Once a single value for each map unit is derived, a thematic map for soil map units can be rendered. Aggregation must be done because, on any soil map, map units are delineated but components are not.

For each of a map unit's components, a corresponding percent composition is recorded. A percent composition of 60 indicates that the corresponding component typically makes up approximately 60% of the map unit. Percent composition is a critical factor in some, but not all, aggregation methods.

The aggregation method "Dominant Condition" first groups like attribute values for the components in a map unit. For each group, percent composition is set to the sum of the percent composition of all components participating in that group. These groups now represent "conditions" rather than components. The attribute value associated with the group with the highest cumulative percent composition is returned. If more than one group shares the highest cumulative percent composition, the corresponding "tie-break" rule determines which value should be returned. The "tie-break" rule indicates whether the lower or higher group value should be returned in the case of a percent composition tie. The result returned by this aggregation method represents the dominant condition throughout the map unit only when no tie has occurred.

Component Percent Cutoff: None Specified

Components whose percent composition is below the cutoff value will not be considered. If no cutoff value is specified, all components in the database will be considered. The data for some contrasting soils of minor extent may not be in the database, and therefore are not considered.

Tie-break Rule: Higher

The tie-break rule indicates which value should be selected from a set of multiple candidate values, or which value should be selected in the event of a percent composition tie.

Layer Options (Horizon Aggregation Method): Surface Layer (Not applicable)

For an attribute of a soil horizon, a depth qualification must be specified. In most cases it is probably most appropriate to specify a fixed depth range, either in centimeters or inches. The Bottom Depth must be greater than the Top Depth, and the Top Depth can be greater than zero. The choice of "inches" or "centimeters" only applies to the depth of soil to be evaluated. It has no influence on the units of measure the data are presented in.

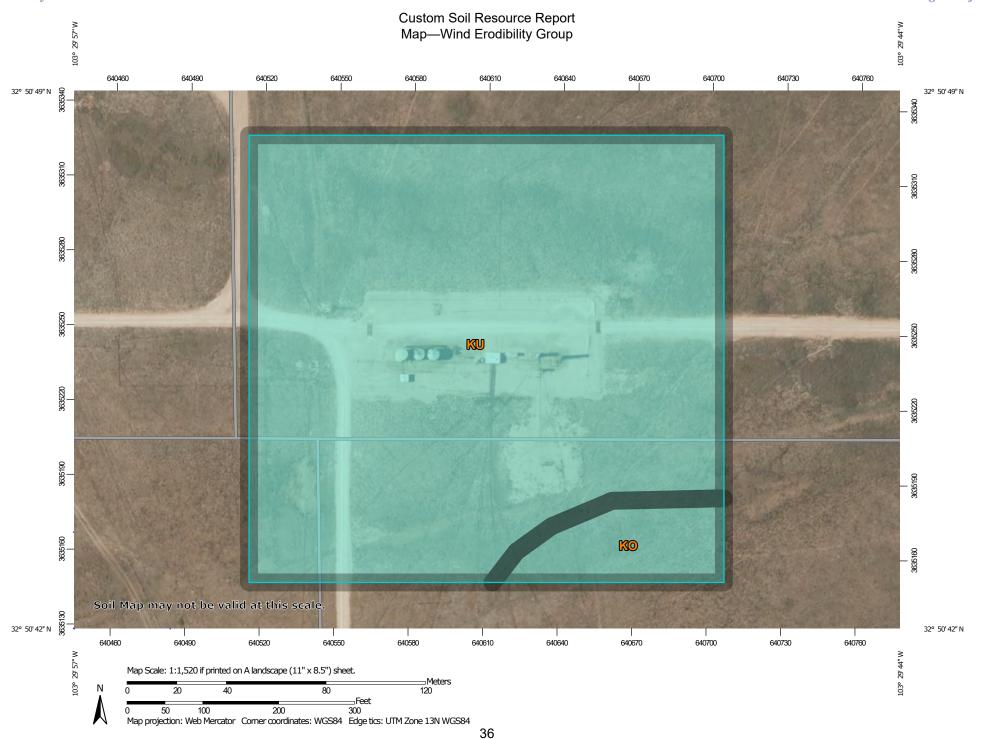
When "Surface Layer" is specified as the depth qualifier, only the surface layer or horizon is considered when deriving a value for a component, but keep in mind that the thickness of the surface layer varies from component to component.

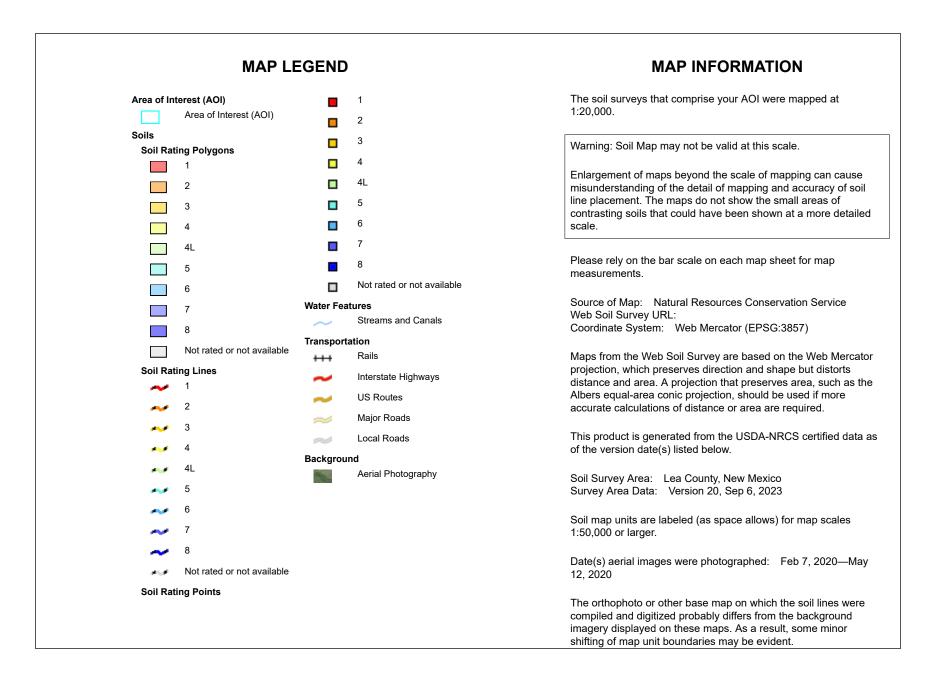
When "All Layers" is specified as the depth qualifier, all layers recorded for a component are considered when deriving the value for that component.

Whenever more than one layer or horizon is considered when deriving a value for a component, and the attribute being aggregated is a numeric attribute, a weighted average value is returned, where the weighting factor is the layer or horizon thickness.

Wind Erodibility Group

A wind erodibility group (WEG) consists of soils that have similar properties affecting their susceptibility to wind erosion in cultivated areas. The soils assigned to group 1 are the most susceptible to wind erosion, and those assigned to group 8 are the least susceptible.





Table—Wind Erodibility Group

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
ко	Kimbrough gravelly loam, dry, 0 to 3 percent slopes	5	0.6	7.2%
ки	Kimbrough-Lea complex, dry, 0 to 3 percent slopes	5	7.9	92.8%
Totals for Area of Interest			8.5	100.0%

Rating Options—Wind Erodibility Group

Aggregation Method: Dominant Condition

Aggregation is the process by which a set of component attribute values is reduced to a single value that represents the map unit as a whole.

A map unit is typically composed of one or more "components". A component is either some type of soil or some nonsoil entity, e.g., rock outcrop. For the attribute being aggregated, the first step of the aggregation process is to derive one attribute value for each of a map unit's components. From this set of component attributes, the next step of the aggregation process derives a single value that represents the map unit as a whole. Once a single value for each map unit is derived, a thematic map for soil map units can be rendered. Aggregation must be done because, on any soil map, map units are delineated but components are not.

For each of a map unit's components, a corresponding percent composition is recorded. A percent composition of 60 indicates that the corresponding component typically makes up approximately 60% of the map unit. Percent composition is a critical factor in some, but not all, aggregation methods.

The aggregation method "Dominant Condition" first groups like attribute values for the components in a map unit. For each group, percent composition is set to the sum of the percent composition of all components participating in that group. These groups now represent "conditions" rather than components. The attribute value associated with the group with the highest cumulative percent composition is returned. If more than one group shares the highest cumulative percent composition, the corresponding "tie-break" rule determines which value should be returned. The "tie-break" rule indicates whether the lower or higher group value should be returned in the case of a percent composition tie. The result returned by this aggregation method represents the dominant condition throughout the map unit only when no tie has occurred.

Component Percent Cutoff: None Specified

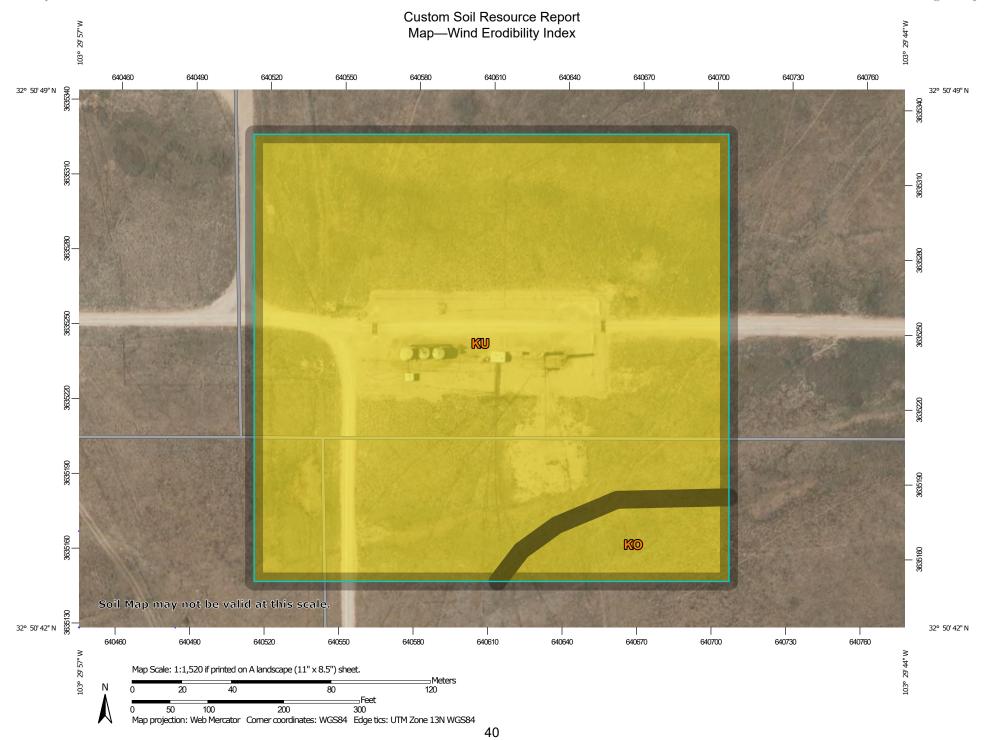
Components whose percent composition is below the cutoff value will not be considered. If no cutoff value is specified, all components in the database will be considered. The data for some contrasting soils of minor extent may not be in the database, and therefore are not considered.

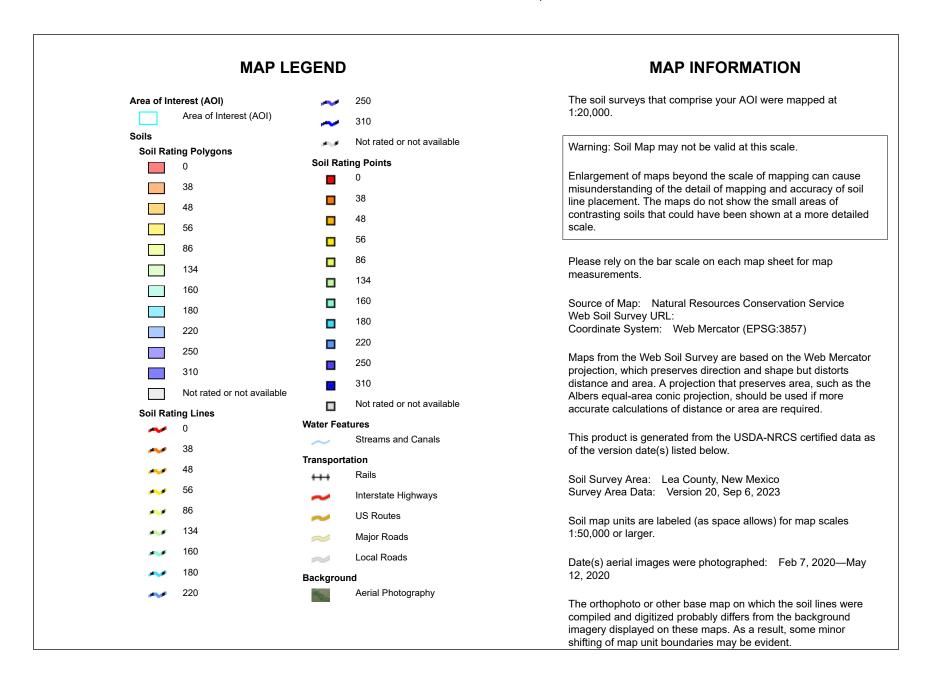
Tie-break Rule: Lower

The tie-break rule indicates which value should be selected from a set of multiple candidate values, or which value should be selected in the event of a percent composition tie.

Wind Erodibility Index

The wind erodibility index is a numerical value indicating the susceptibility of soil to wind erosion, or the tons per acre per year that can be expected to be lost to wind erosion. There is a close correlation between wind erosion and the texture of the surface layer, the size and durability of surface clods, rock fragments, organic matter, and a calcareous reaction. Soil moisture and frozen soil layers also influence wind erosion.





Table—Wind Erodibility Index

Map unit symbol	Map unit name	Rating (tons per acre per year)	Acres in AOI	Percent of AOI
ко	Kimbrough gravelly loam, dry, 0 to 3 percent slopes	56	0.6	7.2%
KU	Kimbrough-Lea complex, dry, 0 to 3 percent slopes	56	7.9	92.8%
Totals for Area of Interest			8.5	100.0%

Rating Options—Wind Erodibility Index

Units of Measure: tons per acre per year Aggregation Method: Dominant Condition

Aggregation is the process by which a set of component attribute values is reduced to a single value that represents the map unit as a whole.

A map unit is typically composed of one or more "components". A component is either some type of soil or some nonsoil entity, e.g., rock outcrop. For the attribute being aggregated, the first step of the aggregation process is to derive one attribute value for each of a map unit's components. From this set of component attributes, the next step of the aggregation process derives a single value that represents the map unit as a whole. Once a single value for each map unit is derived, a thematic map for soil map units can be rendered. Aggregation must be done because, on any soil map, map units are delineated but components are not.

For each of a map unit's components, a corresponding percent composition is recorded. A percent composition of 60 indicates that the corresponding component typically makes up approximately 60% of the map unit. Percent composition is a critical factor in some, but not all, aggregation methods.

The aggregation method "Dominant Condition" first groups like attribute values for the components in a map unit. For each group, percent composition is set to the sum of the percent composition of all components participating in that group. These groups now represent "conditions" rather than components. The attribute value associated with the group with the highest cumulative percent composition is returned. If more than one group shares the highest cumulative percent composition, the corresponding "tie-break" rule determines which value should be returned. The "tie-break" rule indicates whether the lower or higher group value should be returned in the case of a percent composition tie. The result returned by this aggregation method represents the dominant condition throughout the map unit only when no tie has occurred.

Component Percent Cutoff: None Specified

Components whose percent composition is below the cutoff value will not be considered. If no cutoff value is specified, all components in the database will be

considered. The data for some contrasting soils of minor extent may not be in the database, and therefore are not considered.

Tie-break Rule: Higher

The tie-break rule indicates which value should be selected from a set of multiple candidate values, or which value should be selected in the event of a percent composition tie.

Soil Qualities and Features

Soil qualities are behavior and performance attributes that are not directly measured, but are inferred from observations of dynamic conditions and from soil properties. Example soil qualities include natural drainage, and frost action. Soil features are attributes that are not directly part of the soil. Example soil features include slope and depth to restrictive layer. These features can greatly impact the use and management of the soil.

Depth to Bedrock

The term bedrock in soil survey refers to a continuous root and water restrictive layer of rock that occurs within the soil profile.

There are many types of restrictions that can occur within the soil profile but this theme only includes the three restrictions that use the term bedrock. These are:

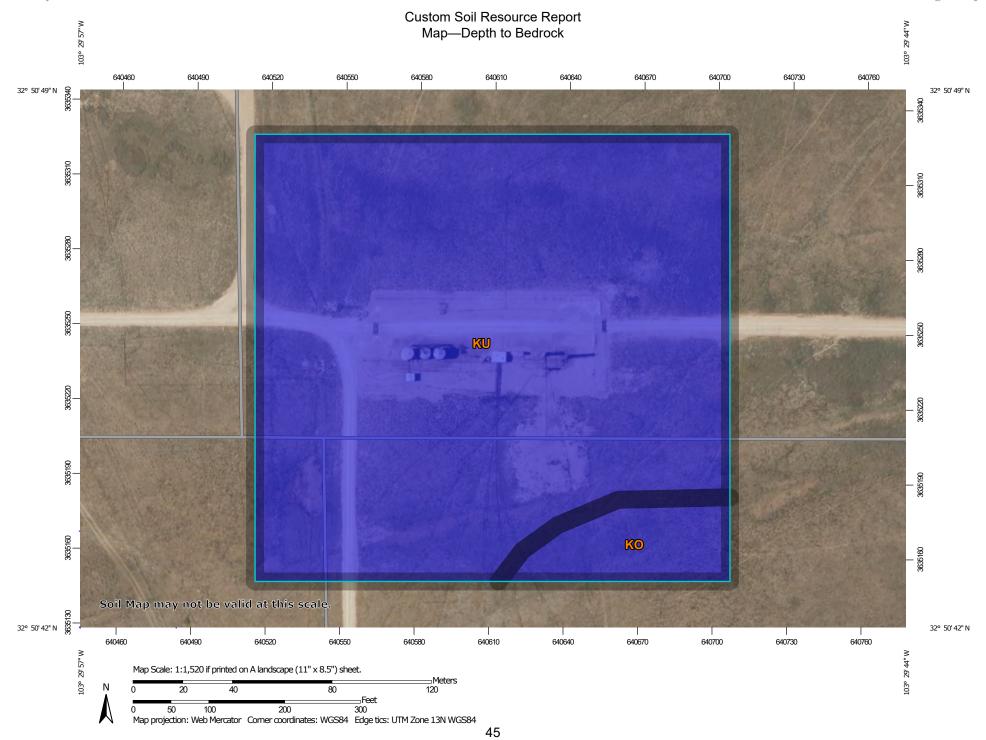
- 1) Lithic Bedrock
- 2) Paralithic Bedrock
- 3) Densic Bedrock

Lithic bedrock and paralithic bedrock are comprised of igneous, metamorphic, and sedimentary rocks, which are coherent and consolidated into rock through pressure, heat, cementation, or fusion. Lithic bedrock represents the hardest type of bedrock, with a hardness of strongly coherent to indurated. Paralithic bedrock has a hardness of extremely weakly coherent to moderately coherent. It can occur as a thin layer of weathered bedrock above harder lithic bedrock. Paralithic bedrock can also be much thicker, extending well below the soil profile.

Densic bedrock represents a unique kind of bedrock recognized within the soil survey. It is non-coherent and consolidated, dense root restrictive material, formed by pressure, heat, and dewatering of earth materials or sediments. Densic bedrock differs from densic materials, which formed under the compaction of glaciers, mudflows, and or human-caused compaction.

If more than one type of bedrock is described for an individual soil type, the depth to the shallowest one is given. If no bedrock is described in a map unit, it is represented by the "greater than 200" depth class.

Depth to bedrock is actually recorded as three separate values in the database. A low value and a high value indicate the range of this attribute for the soil component. A "representative" value indicates the expected value of this attribute for the component. For this soil property, only the representative value is used.



MAP LEGEND MAP INFORMATION Area of Interest (AOI) The soil surveys that comprise your AOI were mapped at Not rated or not available 1:20.000. Area of Interest (AOI) **Water Features** Soils Streams and Canals Warning: Soil Map may not be valid at this scale. Soil Rating Polygons Transportation 0 - 25 Rails +++ Enlargement of maps beyond the scale of mapping can cause 25 - 50 misunderstanding of the detail of mapping and accuracy of soil Interstate Highways line placement. The maps do not show the small areas of 50 - 100 **US Routes** contrasting soils that could have been shown at a more detailed 100 - 150 scale. Major Roads 150 - 200 Local Roads Please rely on the bar scale on each map sheet for map > 200 measurements. Background Aerial Photography Not rated or not available Source of Map: Natural Resources Conservation Service Soil Rating Lines Web Soil Survey URL: 0 - 25 Coordinate System: Web Mercator (EPSG:3857) 25 - 50 Maps from the Web Soil Survey are based on the Web Mercator 50 - 100 projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the 100 - 150 Albers equal-area conic projection, should be used if more 150 - 200 accurate calculations of distance or area are required. > 200 This product is generated from the USDA-NRCS certified data as Not rated or not available of the version date(s) listed below. **Soil Rating Points** Soil Survey Area: Lea County, New Mexico 0 - 25 Survey Area Data: Version 20, Sep 6, 2023 25 - 50 Soil map units are labeled (as space allows) for map scales 50 - 100 1:50.000 or larger. 100 - 150 Date(s) aerial images were photographed: Feb 7, 2020—May 150 - 200 12. 2020 > 200 The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Table—Depth to Bedrock

Map unit symbol	Map unit name	Rating (centimeters)	Acres in AOI	Percent of AOI
ко	Kimbrough gravelly loam, dry, 0 to 3 percent slopes	>200	0.6	7.2%
KU	Kimbrough-Lea complex, dry, 0 to 3 percent slopes	>200	7.9	92.8%
Totals for Area of Intere	st	8.5	100.0%	

Rating Options—Depth to Bedrock

Units of Measure: centimeters

Aggregation Method: Dominant Component

Aggregation is the process by which a set of component attribute values is reduced to a single value that represents the map unit as a whole.

A map unit is typically composed of one or more "components". A component is either some type of soil or some nonsoil entity, e.g., rock outcrop. For the attribute being aggregated, the first step of the aggregation process is to derive one attribute value for each of a map unit's components. From this set of component attributes, the next step of the aggregation process derives a single value that represents the map unit as a whole. Once a single value for each map unit is derived, a thematic map for soil map units can be rendered. Aggregation must be done because, on any soil map, map units are delineated but components are not.

For each of a map unit's components, a corresponding percent composition is recorded. A percent composition of 60 indicates that the corresponding component typically makes up approximately 60% of the map unit. Percent composition is a critical factor in some, but not all, aggregation methods.

The aggregation method "Dominant Component" returns the attribute value associated with the component with the highest percent composition in the map unit. If more than one component shares the highest percent composition, the corresponding "tie-break" rule determines which value should be returned. The "tie-break" rule indicates whether the lower or higher attribute value should be returned in the case of a percent composition tie. The result returned by this aggregation method may or may not represent the dominant condition throughout the map unit.

Component Percent Cutoff: None Specified

Components whose percent composition is below the cutoff value will not be considered. If no cutoff value is specified, all components in the database will be considered. The data for some contrasting soils of minor extent may not be in the database, and therefore are not considered.

Tie-break Rule: Lower

The tie-break rule indicates which value should be selected from a set of multiple candidate values, or which value should be selected in the event of a percent composition tie.

Interpret Nulls as Zero: No

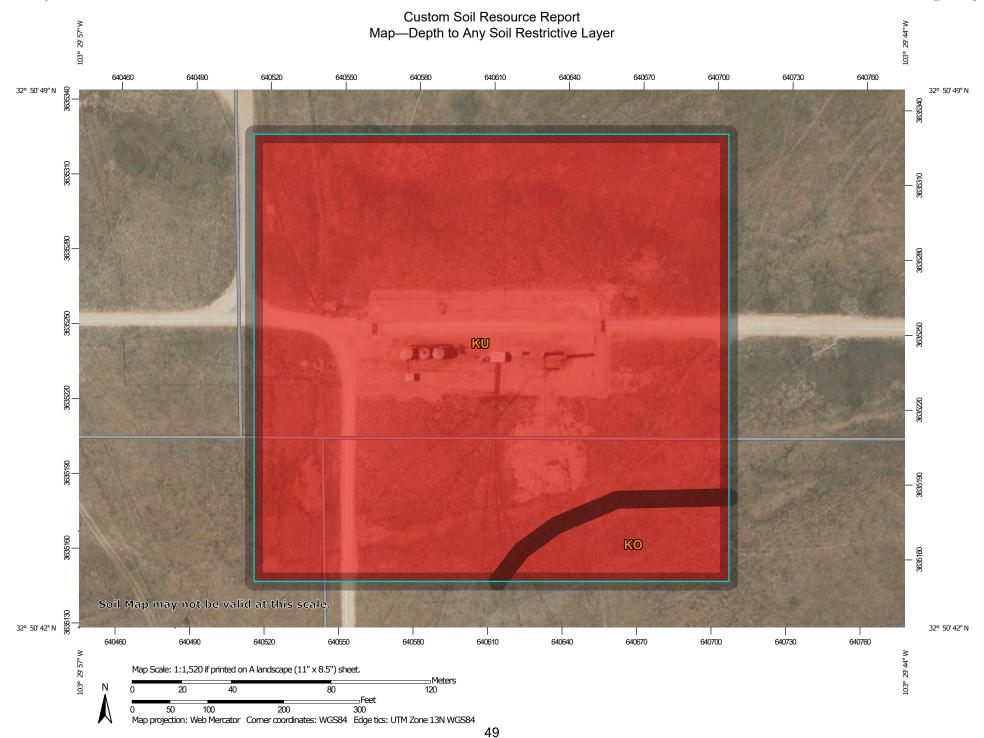
This option indicates if a null value for a component should be converted to zero before aggregation occurs. This will be done only if a map unit has at least one component where this value is not null.

Depth to Any Soil Restrictive Layer

A "restrictive layer" is a nearly continuous layer that has one or more physical, chemical, or thermal properties that significantly impede the movement of water and air through the soil or that restrict roots or otherwise provide an unfavorable root environment. Examples are bedrock, cemented layers, dense layers, and frozen layers.

This theme presents the depth to any type of restrictive layer that is described for each map unit. If more than one type of restrictive layer is described for an individual soil type, the depth to the shallowest one is presented. If no restrictive layer is described in a map unit, it is represented by the "greater than 200" depth class.

This attribute is actually recorded as three separate values in the database. A low value and a high value indicate the range of this attribute for the soil component. A "representative" value indicates the expected value of this attribute for the component. For this soil property, only the representative value is used.



MAP LEGEND MAP INFORMATION Area of Interest (AOI) The soil surveys that comprise your AOI were mapped at Not rated or not available 1:20.000. Area of Interest (AOI) **Water Features** Soils Streams and Canals Warning: Soil Map may not be valid at this scale. Soil Rating Polygons Transportation 0 - 25 Rails +++ Enlargement of maps beyond the scale of mapping can cause 25 - 50 misunderstanding of the detail of mapping and accuracy of soil Interstate Highways line placement. The maps do not show the small areas of 50 - 100 **US Routes** contrasting soils that could have been shown at a more detailed 100 - 150 scale. Major Roads 150 - 200 Local Roads Please rely on the bar scale on each map sheet for map > 200 measurements. Background Aerial Photography Not rated or not available Source of Map: Natural Resources Conservation Service Soil Rating Lines Web Soil Survey URL: 0 - 25 Coordinate System: Web Mercator (EPSG:3857) 25 - 50 Maps from the Web Soil Survey are based on the Web Mercator 50 - 100 projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the 100 - 150 Albers equal-area conic projection, should be used if more 150 - 200 accurate calculations of distance or area are required. > 200 This product is generated from the USDA-NRCS certified data as Not rated or not available of the version date(s) listed below. **Soil Rating Points** Soil Survey Area: Lea County, New Mexico 0 - 25 Survey Area Data: Version 20, Sep 6, 2023 25 - 50 Soil map units are labeled (as space allows) for map scales 50 - 100 1:50.000 or larger. 100 - 150 Date(s) aerial images were photographed: Feb 7, 2020—May 150 - 200 12. 2020 > 200 The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Table—Depth to Any Soil Restrictive Layer

Map unit symbol	Map unit name	Rating (centimeters)	Acres in AOI	Percent of AOI
ко	Kimbrough gravelly loam, dry, 0 to 3 percent slopes	25	0.6	7.2%
KU Kimbrough-Lea complex, dry, 0 to 3 percent slopes		25	7.9	92.8%
Totals for Area of Intere	est	8.5	100.0%	

Rating Options—Depth to Any Soil Restrictive Layer

Units of Measure: centimeters

Aggregation Method: Dominant Component

Aggregation is the process by which a set of component attribute values is reduced to a single value that represents the map unit as a whole.

A map unit is typically composed of one or more "components". A component is either some type of soil or some nonsoil entity, e.g., rock outcrop. For the attribute being aggregated, the first step of the aggregation process is to derive one attribute value for each of a map unit's components. From this set of component attributes, the next step of the aggregation process derives a single value that represents the map unit as a whole. Once a single value for each map unit is derived, a thematic map for soil map units can be rendered. Aggregation must be done because, on any soil map, map units are delineated but components are not.

For each of a map unit's components, a corresponding percent composition is recorded. A percent composition of 60 indicates that the corresponding component typically makes up approximately 60% of the map unit. Percent composition is a critical factor in some, but not all, aggregation methods.

The aggregation method "Dominant Component" returns the attribute value associated with the component with the highest percent composition in the map unit. If more than one component shares the highest percent composition, the corresponding "tie-break" rule determines which value should be returned. The "tie-break" rule indicates whether the lower or higher attribute value should be returned in the case of a percent composition tie. The result returned by this aggregation method may or may not represent the dominant condition throughout the map unit.

Component Percent Cutoff: None Specified

Components whose percent composition is below the cutoff value will not be considered. If no cutoff value is specified, all components in the database will be considered. The data for some contrasting soils of minor extent may not be in the database, and therefore are not considered.

Tie-break Rule: Lower

The tie-break rule indicates which value should be selected from a set of multiple candidate values, or which value should be selected in the event of a percent composition tie.

Interpret Nulls as Zero: No

This option indicates if a null value for a component should be converted to zero before aggregation occurs. This will be done only if a map unit has at least one component where this value is not null.

Representative Slope

Slope gradient is the difference in elevation between two points, expressed as a percentage of the distance between those points.

The slope gradient is actually recorded as three separate values in the database. A low value and a high value indicate the range of this attribute for the soil component. A "representative" value indicates the expected value of this attribute for the component. For this soil property, only the representative value is used.



MAP LEGEND MAP INFORMATION The soil surveys that comprise your AOI were mapped at Area of Interest (AOI) Transportation 1:20.000. Area of Interest (AOI) Rails Soils Interstate Highways Warning: Soil Map may not be valid at this scale. Soil Rating Polygons **US Routes** 0 - 5 Enlargement of maps beyond the scale of mapping can cause Major Roads 5 - 15 misunderstanding of the detail of mapping and accuracy of soil Local Roads \sim line placement. The maps do not show the small areas of 15 - 45 contrasting soils that could have been shown at a more detailed Background 45 - 60 scale. Aerial Photography 60 - 100 Please rely on the bar scale on each map sheet for map Not rated or not available measurements. Soil Rating Lines Source of Map: Natural Resources Conservation Service 0 - 5 Web Soil Survey URL: 5 - 15 Coordinate System: Web Mercator (EPSG:3857) 15 - 45 Maps from the Web Soil Survey are based on the Web Mercator 45 - 60 projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the 60 - 100 Albers equal-area conic projection, should be used if more Not rated or not available accurate calculations of distance or area are required. **Soil Rating Points** This product is generated from the USDA-NRCS certified data as 0 - 5 of the version date(s) listed below. 5 - 15 Soil Survey Area: Lea County, New Mexico 15 - 45 Survey Area Data: Version 20, Sep 6, 2023 45 - 60 Soil map units are labeled (as space allows) for map scales 60 - 100 1:50.000 or larger. Not rated or not available Date(s) aerial images were photographed: Feb 7, 2020—May **Water Features** 12. 2020 Streams and Canals The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Table—Representative Slope

Map unit symbol	Map unit name	Rating (percent)	Acres in AOI	Percent of AOI
ко	Kimbrough gravelly loam, dry, 0 to 3 percent slopes	1.0	0.6	7.2%
ки	Kimbrough-Lea complex, dry, 0 to 3 percent slopes	1.0	7.9	92.8%
Totals for Area of Intere	st	8.5	100.0%	

Rating Options—Representative Slope

Units of Measure: percent

Aggregation Method: Dominant Component

Aggregation is the process by which a set of component attribute values is reduced to a single value that represents the map unit as a whole.

A map unit is typically composed of one or more "components". A component is either some type of soil or some nonsoil entity, e.g., rock outcrop. For the attribute being aggregated, the first step of the aggregation process is to derive one attribute value for each of a map unit's components. From this set of component attributes, the next step of the aggregation process derives a single value that represents the map unit as a whole. Once a single value for each map unit is derived, a thematic map for soil map units can be rendered. Aggregation must be done because, on any soil map, map units are delineated but components are not.

For each of a map unit's components, a corresponding percent composition is recorded. A percent composition of 60 indicates that the corresponding component typically makes up approximately 60% of the map unit. Percent composition is a critical factor in some, but not all, aggregation methods.

The aggregation method "Dominant Component" returns the attribute value associated with the component with the highest percent composition in the map unit. If more than one component shares the highest percent composition, the corresponding "tie-break" rule determines which value should be returned. The "tie-break" rule indicates whether the lower or higher attribute value should be returned in the case of a percent composition tie. The result returned by this aggregation method may or may not represent the dominant condition throughout the map unit.

Component Percent Cutoff: None Specified

Components whose percent composition is below the cutoff value will not be considered. If no cutoff value is specified, all components in the database will be considered. The data for some contrasting soils of minor extent may not be in the database, and therefore are not considered.

Tie-break Rule: Higher

The tie-break rule indicates which value should be selected from a set of multiple candidate values, or which value should be selected in the event of a percent composition tie.

Interpret Nulls as Zero: No

This option indicates if a null value for a component should be converted to zero before aggregation occurs. This will be done only if a map unit has at least one component where this value is not null.

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Received by OCD: 7/9/2024 10:28:07 AM. NORTH VACUUM ABO EAST BATTERY DTW-3 92' Legend: **Depth to Water Map** 0.2 0.4 0.8 Miles **Cross Timbers Energy, LLC** Site Location **North Vacuum Abo East Battery** 32.846238, -103.497564 DTW Well Lea County, New Mexico NMOCD Reference # NAPP2402167703 1/2 Mile Buffer

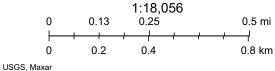
Kane Envi Engineerin Boring/Comp	ıg	Kane Environmental Engineering 1 OF 1 2351 E. State Highway 21 Lincoln, TX 78948 Phone: 281-379-6580
CLIENT: Morning Star	Partners	Piezometer DTW 3
PROJECT: Depth to Wa	ter Program	
PROJECT NUMBER:		
LOCATION: Buckeye, i	N.M.	
BORING/WELL NAME:	DTW 3	
KANE REP: J. Rosen		
DRILLING METHOD: Co SAMPLING METHODS: Cuttings		
	ID. ELEV:	
START/END: Februa	ry 7, 2023	DRILLER: Scarborough Drilling: License 2969AKP 3068AKP NM License: WD-1188
5" borehole with tri	-	LATITUDE: 32.84301 LONGITUDE: -103.49063
CASING	DEPTH IN	SOIL AND DRILLING DESCRIPTION
	20 40 60 80 100	0 - 1.5' Topsoil, silty fine sand (SM-SP), w/angular pieces of caliche, brown, dry 1.5 - 14' Caliche, white to buff, lithified, hard 14 - 105' Sand (SP), creme to tan, very fine grained, soft, moisture content increases with depth Sand contains random thin interbeds of hard caliche Switch to drag bit at 60', and add minimal water/foam to enhance cuttings removal Difficult drilling with hole collapse at 92' bgs; total depth drilled 105' Total depth (from ground surface) 92 feet No groundwater encountered upon completion of drilling Machine slotted, threaded, Schedule 40 PVC screen from 72 - 92 feet bgs, blank casing surface to 72 ft

NAPP2402167703 | NORTH VACUUM ABO EAST BATTERY



4/8/2024, 2:41:34 PM

- USGS Historical GW Wells
- USGS Active Monitoring GW Wells





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Search Results -- 1 sites found

Agency code = usgs site_no list =

• 325032103294301

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 325032103294301 17S.35E.07.34231

Lea County, New Mexico Latitude 32°50'41.3", Longitude 103°29'52.7" NAD83 Land-surface elevation 4,007.00 feet above NGVD29 This well is completed in the High Plains aquifer (N100HGHPLN) national aquifer.

This well is completed in the Ogallala Formation (1210GLL) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period

Date	Time	? Water- level date- time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measu
1961-03-15		D	62610		3935.99	NGVD29	Р	Z		
1961-03-15		D	62611		3937.50	NAVD88	Р	Z		
1961-03-15		D	72019	71.01			Р	Z		
1966-02-21		D	62610		3934.64	NGVD29	Р	Z		
1966-02-21		D	62611		3936.15	NAVD88	Р	Z		
1966-02-21		D	72019	72.36			Р	Z		
1971-02-12		D	62610		3935.66	NGVD29	1	Z		
1971-02-12		D	62611		3937.17	NAVD88	1	Z		
1971-02-12		D	72019	71.34			1	Z		
1976-03-03		D	62610		3935.02	NGVD29	1	Z		
1976-03-03		D	62611		3936.53	NAVD88	1	Z		
1976-03-03		D	72019	71.98			1	Z		
1981-01-15		D	62610		3934.03	NGVD29	1	Z		
1981-01-15		D	62611		3935.54	NAVD88	1	Z		
1981-01-15		D	72019	72.97			1	Z		
1986-04-04		D	62610		3932.54	NGVD29	1	Z		
1986-04-04		D	62611		3934.05	NAVD88	1	Z		

Date	Time	? Water- level date- time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measur
1986-04-04		D	72019	74.46			1	Z		
1990-12-19		D	62610		3930.45	NGVD29	1	Z		
1990-12-19		D	62611		3931.96	NAVD88	1	Z		
1990-12-19		D	72019	76.55			1	Z		
1996-02-09		D	62610		3928.60	NGVD29	1	S		
1996-02-09		D	62611		3930.11	NAVD88	1	S		
1996-02-09		D	72019	78.40			1	S		
2001-01-19		D	62610		3926.50	NGVD29	1	S		
2001-01-19		D	62611		3928.01	NAVD88	1	S		
2001-01-19		D	72019	80.50			1	S		
2006-02-21 2	21:00 UTC	m	62610		3922.90	NGVD29	1	S	USGS	
2006-02-21 2	21:00 UTC	m	62611		3924.41	NAVD88	1	S	USGS	
2006-02-21 2	21:00 UTC	m	72019	84.10			1	S	USGS	
2010-12-15 2	21:40 UTC	m	62610		3926.07	NGVD29	Р	S	USGS	
2010-12-15 2	21:40 UTC	m	62611		3927.58	NAVD88	Р	S	USGS	
2010-12-15 2	21:40 UTC	m	72019	80.93			Р	S	USGS	

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level date-time accuracy	m	Date is accurate to the Minute
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Status	Р	Pumping
Method of measurement	S	Steel-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined
Measuring agency	USGS	U.S. Geological Survey
Source of measurement		Not determined
Source of measurement	S	Measured by personnel of reporting agency.
Water-level approval status	А	Approved for publication Processing and review completed.

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<u>U.S. Department of the Interior | U.S. Geological Survey</u>

Title: Groundwater for USA: Water Levels

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

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

Page Last Modified: 2024-04-08 16:38:49 EDT

0.29 0.25 nadww01





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Search Results -- 1 sites found

Agency code = usgs site_no list =

325032103294302

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 325032103294302 17S.35E.07.34231B

Lea County, New Mexico Latitude 32°50'32", Longitude 103°29'43" NAD83 Land-surface elevation 4,003 feet above NAVD88

This well is completed in the High Plains aquifer (N100HGHPLN) national aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period

Date	Time	? Water- level date- time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measur
2016-01-06	19:13 UTC	m	62610		3924.99	NGVD29	1	S	USGS	
2016-01-06	19:13 UTC	m	62611		3926.50	NAVD88	1	S	USGS	
2016-01-06	19:13 UTC	m	72019	76.50			1	S	USGS	

Explanation

Section	Code	Description
Water-level date-time accuracy	m	Date is accurate to the Minute
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	S	Steel-tape measurement.
Measuring agency	USGS	U.S. Geological Survey
Source of measurement	S	Measured by personnel of reporting agency.

USA.gov

Section	Code	Description
Water-level approval status	А	Approved for publication Processing and review completed.

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Accessibility U.S. Department of the Interior | U.S. Geological Survey

Title: Groundwater for USA: Water Levels

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Page Contact Information: <u>USGS Water Data Support Team</u> Page Last Modified: 2024-04-08 16:37:34 EDT

0.3 0.25 nadww01





February 01, 2024

DAN DUNKELBERG
TRINITY OILFIELD SERVICES & RENTALS, LLC
P. O. BOX 2587
HOBBS, NM 88241

RE: NVA EAST BTY

Enclosed are the results of analyses for samples received by the laboratory on 01/29/24 14:17.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. 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.

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

Accreditation applies to public drinking water matrices.

Celey D. Keene

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC DAN DUNKELBERG P. O. BOX 2587 HOBBS NM, 88241 Fax To: NONE

Received: 01/29/2024 Reported: 02/01/2024 Project Name: **NVA EAST BTY** Project Number:

NONE GIVEN Project Location: **CROSS TIMBERS** Sampling Date: 01/24/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Shalyn Rodriguez

Sample ID: DV-001.0-00.0-S (H240386-01)

BTEX 8021B	mg/	kg Analyzed By: JH							S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	56.7	5.00	01/29/2024	ND	1.85	92.6	2.00	7.25		
Toluene*	224	5.00	01/29/2024	ND	1.96	97.9	2.00	6.36		
Ethylbenzene*	220	5.00	01/29/2024	ND	1.96	97.8	2.00	6.18		
Total Xylenes*	235	15.0	01/29/2024	ND	5.92	98.6	6.00	6.47		
Total BTEX	737	30.0	01/29/2024	ND						
Surrogate: 4-Bromofluorobenzene (PID	138 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	1330	16.0	01/30/2024	ND	416	104	400	3.77		
TPH 8015M	mg/	/kg	Analyze	d By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	6750	100	01/30/2024	ND	221	111	200	11.6		
DRO >C10-C28*	42500	100	01/30/2024	ND	247	123	200	13.5		
EXT DRO >C28-C36	7900	100	01/30/2024	ND						
Surrogate: 1-Chlorooctane	314 9	% 48.2-13	4							
Surrogate: 1-Chlorooctadecane	798 9	% 49.1-14	8							

A I J D. ... 711

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keine



Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC DAN DUNKELBERG P. O. BOX 2587 HOBBS NM, 88241

Fax To: NONE

Received: 01/29/2024 Sampling Date: 01/24/2024

Reported: 02/01/2024 Sampling Type: Soil

Project Name: NVA EAST BTY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Shalyn Rodriguez

Project Location: CROSS TIMBERS

Sample ID: DV-001.0-01.5-S (H240386-02)

BTEX 8021B	mg	/kg	Analyze	d By: JH					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	1.31	0.050	01/30/2024	ND	1.85	92.6	2.00	7.25		
Toluene*	6.50	0.050	01/30/2024	ND	1.96	97.9	2.00	6.36		
Ethylbenzene*	6.67	0.050	01/30/2024	ND	1.96	97.8	2.00	6.18		
Total Xylenes*	6.19	0.150	01/30/2024	ND	5.92	98.6	6.00	6.47		
Total BTEX	20.7	0.300	01/30/2024	ND						
Surrogate: 4-Bromofluorobenzene (PID	140	% 71.5-13	4							
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1260	16.0	01/30/2024	ND	416	104	400	0.00		
TPH 8015M	mg	/kg	Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	94.3	10.0	01/30/2024	ND	221	111	200	11.6		
DRO >C10-C28*	622	10.0	01/30/2024	ND	247	123	200	13.5		
EXT DRO >C28-C36	114	10.0	01/30/2024	ND						
Surrogate: 1-Chlorooctane	91.0	% 48.2-13	4							
Surrogate: 1-Chlorooctadecane	87.0	% 49.1-14	8							

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Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC DAN DUNKELBERG P. O. BOX 2587 HOBBS NM, 88241

Fax To: NONE

Received: 01/29/2024 Sampling Date: 01/24/2024

Reported: 02/01/2024 Sampling Type: Soil

Project Name: **NVA EAST BTY** Sampling Condition: Cool & Intact Project Number: NONE GIVEN Sample Received By: Shalyn Rodriguez

Project Location: **CROSS TIMBERS**

Sample ID: DH-001.0-01.0-S (H240386-03)

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	01/29/2024	ND	1.85	92.6	2.00	7.25	
Toluene*	<0.050	0.050	01/29/2024	ND	1.96	97.9	2.00	6.36	
Ethylbenzene*	0.057	0.050	01/29/2024	ND	1.96	97.8	2.00	6.18	
Total Xylenes*	<0.150	0.150	01/29/2024	ND	5.92	98.6	6.00	6.47	
Total BTEX	<0.300	0.300	01/29/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	117 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	01/30/2024	ND	416	104	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	01/30/2024	ND	221	111	200	11.6	
DRO >C10-C28*	144	10.0	01/30/2024	ND	247	123	200	13.5	
EXT DRO >C28-C36	95.6	10.0	01/30/2024	ND					
Surrogate: 1-Chlorooctane	92.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	96.5	% 49.1-14	8						

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Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC DAN DUNKELBERG P. O. BOX 2587 HOBBS NM, 88241

Fax To: NONE

Received: 01/29/2024 Sampling Date: 01/24/2024

Reported: 02/01/2024 Sampling Type: Soil

Project Name: **NVA EAST BTY** Sampling Condition: Cool & Intact Project Number: NONE GIVEN Sample Received By: Shalyn Rodriguez

Project Location: **CROSS TIMBERS**

Sample ID: DH-001.1-01.0-S (H240386-04)

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	01/29/2024	ND	1.85	92.6	2.00	7.25	
Toluene*	<0.050	0.050	01/29/2024	ND	1.96	97.9	2.00	6.36	
Ethylbenzene*	<0.050	0.050	01/29/2024	ND	1.96	97.8	2.00	6.18	
Total Xylenes*	<0.150	0.150	01/29/2024 ND		5.92	98.6	6.00	6.47	
Total BTEX	<0.300	0.300	01/29/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 9	71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	01/30/2024	ND	416	104	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	01/30/2024	ND	221	111	200	11.6	
DRO >C10-C28*	50.3	10.0	01/30/2024	ND	247	123	200	13.5	
EXT DRO >C28-C36	20.5	10.0	01/30/2024	ND					
Surrogate: 1-Chlorooctane	89.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	88.4	% 49.1-14	8						

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Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC DAN DUNKELBERG P. O. BOX 2587 HOBBS NM, 88241

Fax To: NONE

Received: 01/29/2024 Sampling Date: 01/24/2024

Reported: 02/01/2024 Sampling Type: Soil

Project Name: **NVA EAST BTY** Sampling Condition: Cool & Intact Project Number: NONE GIVEN Sample Received By: Shalyn Rodriguez

Project Location: **CROSS TIMBERS**

Sample ID: DH-002.0-01.0-S (H240386-05)

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	01/29/2024	ND	1.85	92.6	2.00	7.25	
Toluene*	<0.050	0.050	01/29/2024	ND	1.96	97.9	2.00	6.36	
Ethylbenzene*	<0.050	0.050	01/29/2024	ND	1.96	97.8	2.00	6.18	
Total Xylenes*	<0.150	0.150	01/29/2024 ND		5.92	98.6	6.00	6.47	
Total BTEX	<0.300	0.300	01/29/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	115 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1460	16.0	01/30/2024	ND	416	104	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	01/30/2024	ND	221	111	200	11.6	
DRO >C10-C28*	153	10.0	01/30/2024	ND	247	123	200	13.5	
EXT DRO >C28-C36	101	10.0	01/30/2024	ND					
Surrogate: 1-Chlorooctane	94.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	98.4	% 49.1-14	8						

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Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC DAN DUNKELBERG P. O. BOX 2587 HOBBS NM, 88241

Fax To: NONE

Received: 01/29/2024 Sampling Date: 01/24/2024

Reported: 02/01/2024 Sampling Type: Soil

Project Name: **NVA EAST BTY** Sampling Condition: Cool & Intact Project Number: NONE GIVEN Sample Received By: Shalyn Rodriguez

Project Location: **CROSS TIMBERS**

Sample ID: DH-003.0-01.0-P (H240386-06)

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	01/30/2024	ND	2.22	111	2.00	2.14	
Toluene*	<0.050	0.050	01/30/2024	ND	2.20	110	2.00	1.94	
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.18	109	2.00	1.98	
Total Xylenes*	<0.150	0.150	01/30/2024	ND	6.36	106	6.00	1.99	
Total BTEX	<0.300	0.300	01/30/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.1	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	01/30/2024	ND	416	104	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	01/30/2024	ND	221	111	200	11.6	
DRO >C10-C28*	54.9	10.0	01/30/2024	ND	247	123	200	13.5	
EXT DRO >C28-C36	19.9	10.0	01/30/2024	ND					
Surrogate: 1-Chlorooctane	90.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	91.9	% 49.1-14	8						

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Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC DAN DUNKELBERG P. O. BOX 2587 HOBBS NM, 88241

Received: 01/29/2024 Sampling Date: 01/24/2024 Reported: 02/01/2024 Sampling Type: Soil

Fax To:

Project Name: **NVA EAST BTY** Sampling Condition: Cool & Intact Project Number: Sample Received By: Shalyn Rodriguez NONE GIVEN

NONE

Project Location: **CROSS TIMBERS**

Sample ID: DH-004.0-01.0-S (H240386-07)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.148	0.050	01/30/2024	ND	2.22	111	2.00	2.14	
Toluene*	0.050	0.050	01/30/2024	ND	2.20	110	2.00	1.94	
Ethylbenzene*	< 0.050	0.050	01/30/2024	ND	2.18	109	2.00	1.98	
Total Xylenes*	<0.150	0.150	01/30/2024	ND	6.36	106	6.00	1.99	
Total BTEX	<0.300	0.300	01/30/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.7	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1960	16.0	01/30/2024	ND	416	104	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	01/30/2024	ND	198	98.9	200	2.97	
DRO >C10-C28*	22.5	10.0	01/30/2024	ND	200	99.9	200	6.69	
EXT DRO >C28-C36	11.1	10.0	01/30/2024	ND					
Surrogate: 1-Chlorooctane	78.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	86.8	% 49.1-14	8						

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Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC DAN DUNKELBERG P. O. BOX 2587 HOBBS NM, 88241

Fax To: NONE

Received: 01/29/2024 Sampling Date: 01/24/2024

Reported: 02/01/2024 Sampling Type: Soil

Project Name: **NVA EAST BTY** Sampling Condition: Cool & Intact Project Number: NONE GIVEN Sample Received By: Shalyn Rodriguez

Project Location: **CROSS TIMBERS**

Sample ID: DH-004.2-01.0-P (H240386-08)

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	01/30/2024	ND	2.22	111	2.00	2.14	
Toluene*	<0.050	0.050	01/30/2024	ND	2.20	110	2.00	1.94	
Ethylbenzene*	<0.050	0.050	01/30/2024	ND	2.18	109	2.00	1.98	
Total Xylenes*	<0.150	0.150	01/30/2024	ND	6.36	106	6.00	1.99	
Total BTEX	<0.300	0.300	01/30/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.0	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	01/30/2024	ND	416	104	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	01/30/2024	ND	198	98.9	200	2.97	
DRO >C10-C28*	108	10.0	01/30/2024	ND	200	99.9	200	6.69	
EXT DRO >C28-C36	131	10.0	01/30/2024	ND					
Surrogate: 1-Chlorooctane	87.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103	% 49.1-14	8						

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Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
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.
BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
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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Released to Imaging: 8/20/2024 11:22:26 AM

Labe	oratories (575) 393-2326 F	AX (575) 3	393-24	176															
Company Name:	Trinity Oilfield Services								BILL TO						ANA	LYSIS F	REQUES	T			
Project Manager:	Dan Dunkelberg						P.O.	#:													
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City:	Hobbs	State: NM	Zip:	882	241		Attn		Kevin Benne	tt	1		l	1		1					
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roject Name:	NVA East BTY	dan@trinityoi	lfield	servi	es.co	- 1	State: Zip:			1											
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FOR LAS LISE ONLY					MATE	RIX	P	RESERV	. SAN	IPLING	1		1	1		1	1		- 1		
424038 Lab I.D.	Sample I.	.D.	(G)RAB OR (C)OMP.	GROUNDWATER	WASTEWATER SOIL	SLUDGE	OTHER:	ICE / COOL OTHER:	DATE	TIME	Chloride	ТРН	втех								
1	DV-001.0-00.0-S		G 1	1	X	T		T	1/24/2024		X	×	X								
2	DV-001.0-01.5-S		G 1	\Box	X	П			1/24/2024		×	X	X							- 1	
	DH-001.0-01.0-S.		G 1	\Box	x	Н		\Box	1/24/2024		X	×	X								
4	DH-001.1-01.0-S		G 1	-	x	П		\mathbf{H}	1/24/2024		×	×	×								
	DH-002.0-01.0-S		G 1	11	x	\Box	\top	\Box	1/24/2024		X	×	×								
6	DH-003.0-01.0-P		G 1	\Box	x	П		\Box	1/24/2024		×	х	X								
	DH-004.0-01.0-S		G 1	\Box	X	П			1/24/2024		X	х	X								
4	DH-004.2-01.0-P		G 1	\Box	X	П		†	1/24/2024		×	х	X								
	-			Ħ	\top	П		\Box													
	-		\top	\Box	\Box	П															
alyses. All claims including vice. In no eyent shall Ca lates or successors again	d Damages. Cardinal's liability and dient' githose for negligence and any other cau rdinal be liable for incidental or conseque ig out of or related to the performance of	se whatsoever shall be de- ertal damages, including w	emed we lithout lim	ived unli itation, t	ess made susiness in	in writing damypti	g and re ons, loss	ceived by C	cardinal within 30 da loss of profits incum	ys after completion of ed by client, its subsi-	I the applicable diaries,										
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[†] Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com



February 16, 2024

DAN DUNKELBERG
TRINITY OILFIELD SERVICES & RENTALS, LLC
P. O. BOX 2587
HOBBS, NM 88241

RE: NVA EAST BTY

Enclosed are the results of analyses for samples received by the laboratory on 02/13/24 14:54.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. 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.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

NONE

Analyzed By: JH

Fax To:

TRINITY OILFIELD SERVICES & RENTALS, LLC DAN DUNKELBERG P. O. BOX 2587 HOBBS NM, 88241

Received: 02/13/2024 Reported: 02/16/2024 Project Name: **NVA EAST BTY** Project Number:

NONE GIVEN **CROSS TIMBERS**

mg/kg

Sampling Date: 02/13/2024 Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Dionica Hinojos

Project Location:

Sample ID: DH-004.3-01.0-S (H240682-01)

BTEX 8021B

BIEX GOEED	9/	119	Andryzo	u 5 y : 5 : :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/14/2024	ND	1.98	98.9	2.00	9.13	
Toluene*	<0.050	0.050	02/14/2024	ND	1.96	98.2	2.00	9.49	
Ethylbenzene*	<0.050	0.050	02/14/2024	ND	1.95	97.7	2.00	9.16	
Total Xylenes*	<0.150	0.150	02/14/2024	ND	5.69	94.9	6.00	9.31	
Total BTEX	<0.300	0.300	02/14/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.9	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	02/14/2024	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	02/14/2024	ND	209	105	200	1.11	
DRO >C10-C28*	<10.0	10.0	02/14/2024	ND	211	106	200	1.93	
EXT DRO >C28-C36	<10.0	10.0	02/14/2024	ND					
Surrogate: 1-Chlorooctane	71.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	67.2	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene



Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC DAN DUNKELBERG P. O. BOX 2587 HOBBS NM, 88241

Fax To: NONE

Received: 02/13/2024 Sampling Date: 02/13/2024

Reported: 02/16/2024 Sampling Type: Soil

Project Name: NVA EAST BTY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Dionica Hinojos

Project Location: CROSS TIMBERS

Sample ID: DV-002.0-00.0-S (H240682-02)

BTEX 8021B	mg,	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/14/2024	ND	1.98	98.9	2.00	9.13	
Toluene*	<0.050	0.050	02/14/2024	ND	1.96	98.2	2.00	9.49	
Ethylbenzene*	0.061	0.050	02/14/2024	ND	1.95	97.7	2.00	9.16	
Total Xylenes*	0.250	0.150	02/14/2024	ND	5.69	94.9	6.00	9.31	GC-NC1
Total BTEX	0.311	0.300	02/14/2024	ND					GC-NC1
Surrogate: 4-Bromofluorobenzene (PID	115	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	800	16.0	02/14/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	78.0	50.0	02/14/2024	ND	209	105	200	1.11	
DRO >C10-C28*	10600	50.0	02/14/2024	ND	211	106	200	1.93	
EXT DRO >C28-C36	2340	50.0	02/14/2024	ND					
Surrogate: 1-Chlorooctane	120	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	550	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

NONE

Fax To:

TRINITY OILFIELD SERVICES & RENTALS, LLC DAN DUNKELBERG P. O. BOX 2587 HOBBS NM, 88241

Received: 02/13/2024

Reported: 02/16/2024

Project Name: NVA FAST BTV

Project Name: NVA EAST BTY
Project Number: NONE GIVEN
Project Location: CROSS TIMBERS

Sampling Date: 02/13/2024

Sampling Type: Soil
Sampling Condition: Cool & Intact

Sample Received By: Dionica Hinojos

Sample ID: DV-003.0-00.0-S (H240682-03)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/14/2024	ND	1.98	98.9	2.00	9.13	
Toluene*	<0.050	0.050	02/14/2024	ND	1.96	98.2	2.00	9.49	
Ethylbenzene*	< 0.050	0.050	02/14/2024	ND	1.95	97.7	2.00	9.16	
Total Xylenes*	<0.150	0.150	02/14/2024	ND	5.69	94.9	6.00	9.31	
Total BTEX	<0.300	0.300	02/14/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.0	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1840	16.0	02/14/2024	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/14/2024	ND	209	105	200	1.11	
DRO >C10-C28*	76.1	10.0	02/14/2024	ND	211	106	200	1.93	
EXT DRO >C28-C36	67.7	10.0	02/14/2024	ND					
Surrogate: 1-Chlorooctane	95.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	94.9	% 49.1-14	8						

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Celey D. Keine



Notes and Definitions

S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or

matrix interference's.

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

recovery.

GC-NC1 8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with

interfering compounds.

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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March 11, 2024

DAN DUNKELBERG
TRINITY OILFIELD SERVICES & RENTALS, LLC
P. O. BOX 2587
HOBBS, NM 88241

RE: NVA EAST BTY

Enclosed are the results of analyses for samples received by the laboratory on 03/06/24 16:21.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. 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.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
DAN DUNKELBERG
P. O. BOX 2587
HOBBS NM, 88241
Fax To: NONE

Received: 03/06/2024
Reported: 03/11/2024
Project Name: NVA EAST BTY

Project Name: NVA EAST BTY
Project Number: NONE GIVEN
Project Location: CROSS TIMBERS

Sampling Date: 03/04/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: DH-002.2-01.0-P (H241139-01)

DTEV 0021D

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	03/08/2024	ND	2.09	104	2.00	0.994	
Toluene*	<0.050	0.050	03/08/2024	ND	2.22	111	2.00	6.60	
Ethylbenzene*	<0.050	0.050	03/08/2024	ND	2.30	115	2.00	8.69	
Total Xylenes*	<0.150	0.150	03/08/2024	ND	6.85	114	6.00	9.64	
Total BTEX	<0.300	0.300	03/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	03/08/2024	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	03/07/2024	ND	187	93.6	200	0.262	
DRO >C10-C28*	<10.0	10.0	03/07/2024	ND	199	99.4	200	0.369	
EXT DRO >C28-C36	<10.0	10.0	03/07/2024	ND					
Surrogate: 1-Chlorooctane	83.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	99.3	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC DAN DUNKELBERG P. O. BOX 2587 HOBBS NM, 88241

Fax To: NONE

Received: 03/06/2024 Sampling Date: 03/04/2024 Reported: Sampling Type: Soil

Project Name: **NVA EAST BTY** Sampling Condition: Cool & Intact Project Number: Shalyn Rodriguez NONE GIVEN Sample Received By:

Project Location: **CROSS TIMBERS**

03/11/2024

Sample ID: DV-002.0-02.0-S (H241139-02)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	640	16.0	03/08/2024	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	03/07/2024	ND	187	93.6	200	0.262	
DRO >C10-C28*	657	10.0	03/07/2024	ND	199	99.4	200	0.369	
EXT DRO >C28-C36	439	10.0	03/07/2024	ND					
Surrogate: 1-Chlorooctane	88.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	122	% 49.1-14	8						

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Celey D. Keene



Notes and Definitions

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

Cardinal Laboratories *=Accredited Analyte

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Celey D. Kune

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elivered By: (Circle		oserved Temp, °C			ple Co		-			KED BY:												

[†] Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com



March 18, 2024

DAN DUNKELBERG
TRINITY OILFIELD SERVICES & RENTALS, LLC
P. O. BOX 2587
HOBBS, NM 88241

RE: NVA EAST BTY

Enclosed are the results of analyses for samples received by the laboratory on 03/12/24 15:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. 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.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC DAN DUNKELBERG P. O. BOX 2587 HOBBS NM, 88241 Fax To: NONE

Received: 03/12/2024 Reported: 03/18/2024 Project Name: **NVA EAST BTY** Project Number:

NONE GIVEN **CROSS TIMBERS** Sampling Date: 03/08/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

Sample ID: DV-001.0-04.0-S (H241264-01)

Project Location:

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	03/14/2024	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	03/14/2024	ND	192	95.8	200	3.73	
DRO >C10-C28*	<10.0	10.0	03/14/2024	ND	192	95.9	200	4.29	
EXT DRO >C28-C36	<10.0	10.0	03/14/2024	ND					
Surrogate: 1-Chlorooctane	93.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	117	% 49.1-14	8						

Sample ID: DV-002.0-04.0-S (H241264-02)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	03/14/2024	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	03/14/2024	ND	192	95.8	200	3.73	
DRO >C10-C28*	25.3	10.0	03/14/2024	ND	192	95.9	200	4.29	
EXT DRO >C28-C36	<10.0	10.0	03/14/2024	ND					
Surrogate: 1-Chlorooctane	90.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	115	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC DAN DUNKELBERG P. O. BOX 2587 HOBBS NM, 88241

Fax To: NONE

Received: 03/12/2024 Sampling Date: 03/08/2024

Reported: 03/18/2024 Sampling Type: Soil

Project Name: NVA EAST BTY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: CROSS TIMBERS

Sample ID: DV-003.0-02.0-S (H241264-03)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	03/14/2024	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	03/14/2024	ND	192	95.8	200	3.73	
DRO >C10-C28*	<10.0	10.0	03/14/2024	ND	192	95.9	200	4.29	
EXT DRO >C28-C36	<10.0	10.0	03/14/2024	ND					
Surrogate: 1-Chlorooctane	93.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	116	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

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Celeg D. Freene

Received by OCD: 7/9/2024 10:28:07 AM

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† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com



May 20, 2024

DAN DUNKELBERG
TRINITY OILFIELD SERVICES & RENTALS, LLC
P. O. BOX 2587
HOBBS, NM 88241

RE: NVA EAST BTY

Enclosed are the results of analyses for samples received by the laboratory on 05/14/24 15:46.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. 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.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC DAN DUNKELBERG P. O. BOX 2587 HOBBS NM, 88241

Fax To: NONE

Received: 05/14/2024 Sampling Date: 05/10/2024

Reported: 05/20/2024 Sampling Type: Soil

Project Name: **NVA EAST BTY** Sampling Condition: Cool & Intact Project Number: NONE GIVEN Sample Received By: Alyssa Parras

Project Location: **CROSS TIMBERS**

Sample ID: CF-001.0-01.5-P (H242650-01)

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	05/16/2024	ND	2.01	100	2.00	4.04	
Toluene*	<0.050	0.050	05/16/2024	ND	2.09	105	2.00	4.18	
Ethylbenzene*	<0.050	0.050	05/16/2024	ND	2.07	103	2.00	4.17	
Total Xylenes*	<0.150	0.150	05/16/2024	ND	6.28	105	6.00	3.16	
Total BTEX	<0.300	0.300	05/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	05/16/2024	ND	400	100	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	05/16/2024	ND	178	89.0	200	1.02	
DRO >C10-C28*	<10.0	10.0	05/16/2024	ND	185	92.6	200	0.793	
EXT DRO >C28-C36	<10.0	10.0	05/16/2024	ND					
Surrogate: 1-Chlorooctane	82.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	81.7	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keine



Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC DAN DUNKELBERG P. O. BOX 2587 HOBBS NM, 88241

Fax To: NONE

Received: 05/14/2024 Sampling Date: 05/10/2024

Reported: 05/20/2024 Sampling Type: Soil

Project Name: NVA EAST BTY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Alyssa Parras

Applyzod By: 14

Project Location: CROSS TIMBERS

Sample ID: CF-002.0-01.5-P (H242650-02)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/16/2024	ND	2.01	100	2.00	4.04	
Toluene*	<0.050	0.050	05/16/2024	ND	2.09	105	2.00	4.18	
Ethylbenzene*	<0.050	0.050	05/16/2024	ND	2.07	103	2.00	4.17	
Total Xylenes*	<0.150	0.150	05/16/2024	ND	6.28	105	6.00	3.16	
Total BTEX	<0.300	0.300	05/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	05/16/2024	ND	400	100	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	05/16/2024	ND	178	89.0	200	1.02	
DRO >C10-C28*	<10.0	10.0	05/16/2024	ND	185	92.6	200	0.793	
EXT DRO >C28-C36	<10.0	10.0	05/16/2024	ND					
Surrogate: 1-Chlorooctane	102	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	101	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg & Frence



Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC DAN DUNKELBERG P. O. BOX 2587 HOBBS NM, 88241

Fax To: NONE

Received: 05/14/2024 Sampling Date: 05/10/2024

Reported: 05/20/2024 Sampling Type: Soil

Project Name: **NVA EAST BTY** Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Alyssa Parras

Project Location: **CROSS TIMBERS**

Sample ID: CF-003.0-00.3-S (H242650-03)

BTEX 8021B	mg/	kg	Analyze	Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/16/2024	ND	2.01	100	2.00	4.04	
Toluene*	<0.050	0.050	05/16/2024	ND	2.09	105	2.00	4.18	
Ethylbenzene*	<0.050	0.050	05/16/2024	ND	2.07	103	2.00	4.17	
Total Xylenes*	<0.150	0.150	05/16/2024	ND	6.28	105	6.00	3.16	
Total BTEX	<0.300	0.300	05/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1310	16.0	05/16/2024	ND	400	100	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	05/16/2024	ND	178	89.0	200	1.02	
DRO >C10-C28*	63.1	10.0	05/16/2024	ND	185	92.6	200	0.793	
EXT DRO >C28-C36	24.6	10.0	05/16/2024	ND					
Surrogate: 1-Chlorooctane	113 %	6 48.2-13	4						
Surrogate: 1-Chlorooctadecane	116 %	6 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene



Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC DAN DUNKELBERG P. O. BOX 2587 HOBBS NM, 88241

Fax To: NONE

Received: 05/14/2024 Sampling Date: 05/10/2024

Reported: 05/20/2024 Sampling Type: Soil

Project Name: NVA EAST BTY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Alyssa Parras

Analyzed By: JH

Project Location: CROSS TIMBERS

mg/kg

Sample ID: CF-004.0-00.3-S (H242650-04)

BTEX 8021B

	9/	9	7	7: :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/16/2024	ND	2.01	100	2.00	4.04	
Toluene*	<0.050	0.050	05/16/2024	ND	2.09	105	2.00	4.18	
Ethylbenzene*	<0.050	0.050	05/16/2024	ND	2.07	103	2.00	4.17	
Total Xylenes*	<0.150	0.150	05/16/2024	ND	6.28	105	6.00	3.16	
Total BTEX	<0.300	0.300	05/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	800	16.0	05/16/2024	ND	400	100	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	05/16/2024	ND	178	89.0	200	1.02	
DRO >C10-C28*	<10.0	10.0	05/16/2024	ND	185	92.6	200	0.793	
EXT DRO >C28-C36	<10.0	10.0	05/16/2024	ND					
Surrogate: 1-Chlorooctane	106	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	108	% 49.1-14	8						

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Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC DAN DUNKELBERG P. O. BOX 2587 HOBBS NM, 88241

Fax To: NONE

Received: 05/14/2024 Sampling Date: 05/10/2024

Reported: 05/20/2024 Sampling Type: Soil

Project Name: **NVA EAST BTY** Sampling Condition: Cool & Intact Project Number: Sample Received By: NONE GIVEN Alyssa Parras

Project Location: **CROSS TIMBERS**

Sample ID: CF-005.0-00.3-S (H242650-05)

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	05/16/2024	ND	2.01	100	2.00	4.04	
Toluene*	<0.050	0.050	05/16/2024	ND	2.09	105	2.00	4.18	
Ethylbenzene*	<0.050	0.050	05/16/2024	ND	2.07	103	2.00	4.17	
Total Xylenes*	<0.150	0.150	05/16/2024	ND	6.28	105	6.00	3.16	
Total BTEX	<0.300	0.300	05/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1100	16.0	05/16/2024	ND	400	100	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	05/16/2024	ND	178	89.0	200	1.02	
DRO >C10-C28*	170	10.0	05/16/2024	ND	185	92.6	200	0.793	
EXT DRO >C28-C36	149	10.0	05/16/2024	ND					
Surrogate: 1-Chlorooctane	112 %	6 48.2-13	4						
Surrogate: 1-Chlorooctadecane	121 9	% 49.1-14	8						

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Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC DAN DUNKELBERG P. O. BOX 2587 HOBBS NM, 88241

Fax To: NONE

Received: 05/14/2024 Sampling Date: 05/10/2024
Reported: 05/20/2024 Sampling Type: Soil

Project Name: NVA EAST BTY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Alyssa Parras

Project Location: CROSS TIMBERS

Sample ID: CF-006.0-00.3-S (H242650-06)

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	05/16/2024	ND	2.01	100	2.00	4.04	
Toluene*	<0.050	0.050	05/16/2024	ND	2.09	105	2.00	4.18	
Ethylbenzene*	<0.050	0.050	05/16/2024	ND	2.07	103	2.00	4.17	
Total Xylenes*	<0.150	0.150	05/16/2024	ND	6.28	105	6.00	3.16	
Total BTEX	<0.300	0.300	05/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	784	16.0	05/16/2024	ND	400	100	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	05/16/2024	ND	178	89.0	200	1.02	
DRO >C10-C28*	32.2	10.0	05/16/2024	ND	185	92.6	200	0.793	
EXT DRO >C28-C36	17.1	10.0	05/16/2024	ND					
Surrogate: 1-Chlorooctane	106	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	108	% 49.1-14	8						

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Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC DAN DUNKELBERG P. O. BOX 2587 HOBBS NM, 88241

Fax To: NONE

Received: 05/14/2024 Sampling Date: 05/10/2024

Reported: 05/20/2024 Sampling Type: Soil

Project Name: NVA EAST BTY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Alyssa Parras

Applyzod By: 14

Project Location: CROSS TIMBERS

Sample ID: CF-007.0-00.3-S (H242650-07)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/16/2024	ND	2.01	100	2.00	4.04	
Toluene*	<0.050	0.050	05/16/2024	ND	2.09	105	2.00	4.18	
Ethylbenzene*	<0.050	0.050	05/16/2024	ND	2.07	103	2.00	4.17	
Total Xylenes*	<0.150	0.150	05/16/2024	ND	6.28	105	6.00	3.16	
Total BTEX	<0.300	0.300	05/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	976	16.0	05/16/2024	ND	400	100	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	05/16/2024	ND	178	89.0	200	1.02	
DRO >C10-C28*	2370	10.0	05/16/2024	ND	185	92.6	200	0.793	
EXT DRO >C28-C36	1050	10.0	05/16/2024	ND					
Surrogate: 1-Chlorooctane	114	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	148	% 49.1-14	8						

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Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC DAN DUNKELBERG P. O. BOX 2587 HOBBS NM, 88241

Fax To: NONE

Received: 05/14/2024 Sampling Date: 05/10/2024

Reported: 05/20/2024 Sampling Type: Soil
Project Name: NVA EAST BTY Sampling Condition: Cool & Intact

Project Number: NONE GIVEN Sample Received By: Alyssa Parras
Project Location: CROSS TIMBERS

Applyzod By: 14

Sample ID: CF-008.0-00.3-S (H242650-08)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/16/2024	ND	2.01	100	2.00	4.04	
Toluene*	<0.050	0.050	05/16/2024	ND	2.09	105	2.00	4.18	
Ethylbenzene*	<0.050	0.050	05/16/2024	ND	2.07	103	2.00	4.17	
Total Xylenes*	<0.150	0.150	05/16/2024	ND	6.28	105	6.00	3.16	
Total BTEX	<0.300	0.300	05/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2400	16.0	05/16/2024	ND	400	100	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	05/16/2024	ND	178	89.0	200	1.02	
DRO >C10-C28*	662	10.0	05/16/2024	ND	185	92.6	200	0.793	
EXT DRO >C28-C36	338	10.0	05/16/2024	ND					
Surrogate: 1-Chlorooctane	113	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	123	% 49.1-14	8						

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Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC DAN DUNKELBERG P. O. BOX 2587 HOBBS NM, 88241

Fax To: NONE

Received: 05/14/2024 Sampling Date: 05/10/2024
Reported: 05/20/2024 Sampling Type: Soil

Project Name: NVA EAST BTY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Alyssa Parras

Project Location: CROSS TIMBERS

Sample ID: CF-009.0-00.3-S (H242650-09)

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	05/16/2024	ND	2.01	100	2.00	4.04	
Toluene*	<0.050	0.050	05/16/2024	ND	2.09	105	2.00	4.18	
Ethylbenzene*	<0.050	0.050	05/16/2024	ND	2.07	103	2.00	4.17	
Total Xylenes*	<0.150	0.150	05/16/2024	ND	6.28	105	6.00	3.16	
Total BTEX	<0.300	0.300	05/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	640	16.0	05/16/2024	ND	400	100	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	05/16/2024	ND	178	89.0	200	1.02	
DRO >C10-C28*	1440	10.0	05/16/2024	ND	185	92.6	200	0.793	
EXT DRO >C28-C36	718	10.0	05/16/2024	ND					
Surrogate: 1-Chlorooctane	112	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	130	% 49.1-14	8						

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Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC DAN DUNKELBERG P. O. BOX 2587 HOBBS NM, 88241

Fax To: NONE

Received: 05/14/2024 Sampling Date: 05/10/2024 Reported: 05/20/2024 Sampling Type: Soil

Project Name: **NVA EAST BTY** Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Alyssa Parras

Project Location: **CROSS TIMBERS**

Sample ID: CF-013.0-00.3-S (H242650-10)

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	05/16/2024	ND	2.01	100	2.00	4.04	
Toluene*	<0.050	0.050	05/16/2024	ND	2.09	105	2.00	4.18	
Ethylbenzene*	<0.050	0.050	05/16/2024	ND	2.07	103	2.00	4.17	
Total Xylenes*	<0.150	0.150	05/16/2024	ND	6.28	105	6.00	3.16	
Total BTEX	<0.300	0.300	05/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8240	16.0	05/16/2024	ND	400	100	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	05/16/2024	ND	178	89.0	200	1.02	
DRO >C10-C28*	193	10.0	05/16/2024	ND	185	92.6	200	0.793	
EXT DRO >C28-C36	83.5	10.0	05/16/2024	ND					
Surrogate: 1-Chlorooctane	110 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	115 9	% 49.1-14	8						

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Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC DAN DUNKELBERG P. O. BOX 2587 HOBBS NM, 88241

Fax To: NONE

Received: 05/14/2024 Sampling Date: 05/10/2024

Reported: 05/20/2024 Sampling Type: Soil

Project Name: NVA EAST BTY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Alyssa Parras

Applyzod By: 14

Project Location: CROSS TIMBERS

Sample ID: CF-015.0-01.5-S (H242650-11)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/16/2024	ND	2.01	100	2.00	4.04	
Toluene*	<0.050	0.050	05/16/2024	ND	2.09	105	2.00	4.18	
Ethylbenzene*	<0.050	0.050	05/16/2024	ND	2.07	103	2.00	4.17	
Total Xylenes*	<0.150	0.150	05/16/2024	ND	6.28	105	6.00	3.16	
Total BTEX	<0.300	0.300	05/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	832	16.0	05/16/2024	ND	400	100	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	05/16/2024	ND	178	89.0	200	1.02	
DRO >C10-C28*	83.3	10.0	05/16/2024	ND	185	92.6	200	0.793	
EXT DRO >C28-C36	36.0	10.0	05/16/2024	ND					
Surrogate: 1-Chlorooctane	90.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	92.1	% 49.1-14	8						

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Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC DAN DUNKELBERG P. O. BOX 2587 HOBBS NM, 88241

Fax To: NONE

Received: 05/14/2024 Sampling Date: 05/10/2024

Reported: 05/20/2024 Sampling Type: Soil

Project Name: **NVA EAST BTY** Sampling Condition: Cool & Intact Project Number: NONE GIVEN Sample Received By: Alyssa Parras

Project Location: **CROSS TIMBERS**

Sample ID: CF-020.0-01.5-S (H242650-12)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/17/2024	ND	2.03	102	2.00	3.73	QR-03
Toluene*	<0.050	0.050	05/17/2024	ND	1.96	97.9	2.00	3.80	QR-03
Ethylbenzene*	<0.050	0.050	05/17/2024	ND	1.99	99.5	2.00	3.39	QR-03
Total Xylenes*	<0.150	0.150	05/17/2024	ND	5.69	94.8	6.00	3.24	QM-07, QR-03
Total BTEX	<0.300	0.300	05/17/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.2	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	'kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1040	16.0	05/16/2024	ND	400	100	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	05/16/2024	ND	178	89.0	200	1.02	
DRO >C10-C28*	210	10.0	05/16/2024	ND	185	92.6	200	0.793	
EXT DRO >C28-C36	159	10.0	05/16/2024	ND					
Surrogate: 1-Chlorooctane	98.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103	% 49.1-14	8						

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Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC DAN DUNKELBERG P. O. BOX 2587 HOBBS NM, 88241

Fax To: NONE

Received: 05/14/2024 Sampling Date: 05/10/2024

Reported: 05/20/2024 Sampling Type: Soil

Project Name: **NVA EAST BTY** Sampling Condition: Cool & Intact Project Number: NONE GIVEN Sample Received By: Alyssa Parras

Project Location: **CROSS TIMBERS**

Sample ID: CF-021.0-01.5-S (H242650-13)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/17/2024	ND	2.03	102	2.00	3.73	
Toluene*	<0.050	0.050	05/17/2024	ND	1.96	97.9	2.00	3.80	
Ethylbenzene*	<0.050	0.050	05/17/2024	ND	1.99	99.5	2.00	3.39	
Total Xylenes*	<0.150	0.150	05/17/2024	ND	5.69	94.8	6.00	3.24	
Total BTEX	<0.300	0.300	05/17/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.2	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	944	16.0	05/16/2024	ND	400	100	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	05/16/2024	ND	181	90.6	200	2.03	
DRO >C10-C28*	234	10.0	05/16/2024	ND	183	91.7	200	0.657	QR-03
EXT DRO >C28-C36	162	10.0	05/16/2024	ND					
Surrogate: 1-Chlorooctane	81.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	75.2	% 49.1-14	8						

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Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC DAN DUNKELBERG P. O. BOX 2587 HOBBS NM, 88241

Fax To: NONE

Received: 05/14/2024 Sampling Date: 05/10/2024

Reported: 05/20/2024 Sampling Type: Soil

Project Name: NVA EAST BTY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Alyssa Parras

Analyzed By: MC

Project Location: CROSS TIMBERS

Sample ID: CF-022.0-01.5-S (H242650-14)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/17/2024	ND	2.03	102	2.00	3.73	
Toluene*	<0.050	0.050	05/17/2024	ND	1.96	97.9	2.00	3.80	
Ethylbenzene*	<0.050	0.050	05/17/2024	ND	1.99	99.5	2.00	3.39	
Total Xylenes*	<0.150	0.150	05/17/2024	ND	5.69	94.8	6.00	3.24	
Total BTEX	<0.300	0.300	05/17/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.5	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2120	16.0	05/16/2024	ND	400	100	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	05/16/2024	ND	181	90.6	200	2.03	
DRO >C10-C28*	44.5	10.0	05/16/2024	ND	183	91.7	200	0.657	
EXT DRO >C28-C36	32.4	10.0	05/16/2024	ND					
Surrogate: 1-Chlorooctane	74.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	69.8	% 49.1-14	8						

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Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC DAN DUNKELBERG P. O. BOX 2587 HOBBS NM, 88241

Fax To: NONE

Received: 05/14/2024 Sampling Date: 05/10/2024

Reported: 05/20/2024 Sampling Type: Soil

Project Name: NVA EAST BTY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Alyssa Parras

Applyzod By: MC

Project Location: CROSS TIMBERS

Sample ID: CF-023.0-00.1-P (H242650-15)

RTFY 8021R

B1EX 8021B	тд/кд		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/17/2024	ND	2.03	102	2.00	3.73	
Toluene*	<0.050	0.050	05/17/2024	ND	1.96	97.9	2.00	3.80	
Ethylbenzene*	<0.050	0.050	05/17/2024	ND	1.99	99.5	2.00	3.39	
Total Xylenes*	<0.150	0.150	05/17/2024	ND	5.69	94.8	6.00	3.24	
Total BTEX	<0.300	0.300	05/17/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	92.6	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	05/16/2024	ND	400	100	400	0.00	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/16/2024	ND	181	90.6	200	2.03	
DRO >C10-C28*	34.4	10.0	05/16/2024	ND	183	91.7	200	0.657	
EXT DRO >C28-C36	37.6	10.0	05/16/2024	ND					
Surrogate: 1-Chlorooctane	92.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	84.8	% 49.1-14	8						

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Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC DAN DUNKELBERG P. O. BOX 2587 HOBBS NM, 88241

Fax To: NONE

Received: 05/14/2024 Sampling Date: 05/10/2024

Reported: Sampling Type: Soil 05/20/2024 **NVA EAST BTY**

Project Name: Sampling Condition: Cool & Intact Project Number: NONE GIVEN Sample Received By: Alyssa Parras

Project Location: **CROSS TIMBERS**

Sample ID: CF-010.0-01.0-S (H242650-16)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/17/2024	ND	2.03	102	2.00	3.73	
Toluene*	<0.050	0.050	05/17/2024	ND	1.96	97.9	2.00	3.80	
Ethylbenzene*	<0.050	0.050	05/17/2024	ND	1.99	99.5	2.00	3.39	
Total Xylenes*	<0.150	0.150	05/17/2024	ND	5.69	94.8	6.00	3.24	
Total BTEX	<0.300	0.300	05/17/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.2	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	672	16.0	05/16/2024	ND	400	100	400	0.00	
TPH 8015M	mg	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/16/2024	ND	181	90.6	200	2.03	
DRO >C10-C28*	230	10.0	05/16/2024	ND	183	91.7	200	0.657	
EXT DRO >C28-C36	129	10.0	05/16/2024	ND					
Surrogate: 1-Chlorooctane	88.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	84.2	% 49.1-14	'8						

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Analytical Results For:

NONE

Fax To:

TRINITY OILFIELD SERVICES & RENTALS, LLC DAN DUNKELBERG P. O. BOX 2587 HOBBS NM, 88241

Received: 05/14/2024
Reported: 05/20/2024
Project Name: NVA EAST BTY

Project Name: NVA EAST BTY
Project Number: NONE GIVEN
Project Location: CROSS TIMBERS

Sampling Date: 05/10/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: CF-011.0-01.0-S (H242650-17)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/17/2024	ND	2.03	102	2.00	3.73	
Toluene*	<0.050	0.050	05/17/2024	ND	1.96	97.9	2.00	3.80	
Ethylbenzene*	<0.050	0.050	05/17/2024	ND	1.99	99.5	2.00	3.39	
Total Xylenes*	<0.150	0.150	05/17/2024	ND	5.69	94.8	6.00	3.24	
Total BTEX	<0.300	0.300	05/17/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.5	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	05/16/2024	ND	416	104	400	7.41	
TPH 8015M	mg	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/16/2024	ND	181	90.6	200	2.03	
DRO >C10-C28*	308	10.0	05/16/2024	ND	183	91.7	200	0.657	
EXT DRO >C28-C36	202	10.0	05/16/2024	ND					
Surrogate: 1-Chlorooctane	89.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	83.9	% 49.1-14	8						

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Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC DAN DUNKELBERG P. O. BOX 2587 HOBBS NM, 88241

Fax To: NONE

Received: 05/14/2024 Sampling Date: 05/10/2024

Reported: 05/20/2024 Sampling Type: Soil

Project Name: NVA EAST BTY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Alyssa Parras

Analyzed By: MC

Project Location: CROSS TIMBERS

Sample ID: CF-012.0-01.0-S (H242650-18)

RTFY 8021R

B1EX 8021B	тд/кд		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/17/2024	ND	2.03	102	2.00	3.73	
Toluene*	<0.050	0.050	05/17/2024	ND	1.96	97.9	2.00	3.80	
Ethylbenzene*	<0.050	0.050	05/17/2024	ND	1.99	99.5	2.00	3.39	
Total Xylenes*	<0.150	0.150	05/17/2024	ND	5.69	94.8	6.00	3.24	
Total BTEX	<0.300	0.300	05/17/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.0	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	592	16.0	05/16/2024	ND	416	104	400	7.41	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/16/2024	ND	181	90.6	200	2.03	
DRO >C10-C28*	54.1	10.0	05/16/2024	ND	183	91.7	200	0.657	
EXT DRO >C28-C36	32.4	10.0	05/16/2024	ND					
Surrogate: 1-Chlorooctane	88.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	79.6	% 49.1-14	8						

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Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC DAN DUNKELBERG P. O. BOX 2587 HOBBS NM, 88241

Fax To: NONE

Received: 05/14/2024 Sampling Date: 05/10/2024

Reported: 05/20/2024 Sampling Type: Soil

Project Name: **NVA EAST BTY** Sampling Condition: Cool & Intact Project Number: NONE GIVEN Sample Received By: Alyssa Parras

Project Location: **CROSS TIMBERS**

Sample ID: CF-014.0-01.5-S (H242650-19)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/17/2024	ND	2.03	102	2.00	3.73	
Toluene*	<0.050	0.050	05/17/2024	ND	1.96	97.9	2.00	3.80	
Ethylbenzene*	<0.050	0.050	05/17/2024	ND	1.99	99.5	2.00	3.39	
Total Xylenes*	<0.150	0.150	05/17/2024	ND	5.69	94.8	6.00	3.24	
Total BTEX	<0.300	0.300	05/17/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.4	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	05/16/2024	ND	416	104	400	7.41	
TPH 8015M	mg/	kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/16/2024	ND	181	90.6	200	2.03	
DRO >C10-C28*	247	10.0	05/16/2024	ND	183	91.7	200	0.657	
EXT DRO >C28-C36	122	10.0	05/16/2024	ND					
Surrogate: 1-Chlorooctane	82.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	77.2	% 49.1-14	8						

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Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC DAN DUNKELBERG P. O. BOX 2587 HOBBS NM, 88241

Fax To: NONE

Received: 05/14/2024 Sampling Date: 05/10/2024

Reported: 05/20/2024 Sampling Type: Soil

Project Name: **NVA EAST BTY** Sampling Condition: Cool & Intact Project Number: NONE GIVEN Sample Received By: Alyssa Parras

Project Location: **CROSS TIMBERS**

Sample ID: CF-016.0-01.5-S (H242650-20)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/17/2024	ND	2.03	102	2.00	3.73	
Toluene*	<0.050	0.050	05/17/2024	ND	1.96	97.9	2.00	3.80	
Ethylbenzene*	<0.050	0.050	05/17/2024	ND	1.99	99.5	2.00	3.39	
Total Xylenes*	<0.150	0.150	05/17/2024	ND	5.69	94.8	6.00	3.24	
Total BTEX	<0.300	0.300	05/17/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.1	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1070	16.0	05/16/2024	ND	416	104	400	7.41	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/16/2024	ND	181	90.6	200	2.03	
DRO >C10-C28*	295	10.0	05/16/2024	ND	183	91.7	200	0.657	
EXT DRO >C28-C36	200	10.0	05/16/2024	ND					
Surrogate: 1-Chlorooctane	64.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	62.7	% 49.1-14	18						

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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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roject Name:	NVA East Battery	dan@trinityo				m	State		Zip:		-	1									
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2	CF-002.0-01.5-P		С		x	+		+	5/10/2024		X	X	X	+	+	+	+	_	_	+	+
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4	CF-004.0-00.3-S		С		x	+	+	\vdash	5/10/2024		×	X	X	+	+	+	+	+	+	+	+
5	CF-005.0-00.3-S		c		x	†			5/10/2024		X	X	X	+	1	+		_	+	_	+
6	CF-006.0-00.3-S		C		X	\Box			5/10/2024		×	X	X		1		+	+			+
7	CF-007.0-00.3-S		C		X	\Box			5/10/2024		X	×	X								
8	CF-008.0-00.3-S		C		X				5/10/2024		X	X	X								
9	CF-009.0-00.3-S		C		X				5/10/2024		X	X	Х						1		
	CF-013.0-00.3-S		C		X	П			5/10/2024		X	х	X								
llyses. All claims inclusing vice. In no event shall Car	o Damagos. Curdinal's lability and olients y limate for negligence and any other cause notinal be liable for indicental or conseque goul of or related to the performance of a	se whatsoever shall be de stal damages, including a	vithout it writinal, re	nived un initiation, igardless	ess made i ousiness in of whethe	in writing Memupik	g and reo ons, loss	elved by Co of use, or i	erdinal within 30 ca cas of profile incum	ys after completion of ed by olient, its subsid	The applicable Satistic wise	Yes		No ail addre	Add'l P	hone #:					
elinguished By:		Date:	Received By:			KU .			REMARKS:												
		Time:																			

[†] Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

Released to Imaging: 8/20/2024 11:22:26 AM

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company Name:	Trinity Oilfield Services							BILL TO					_	ANA	LYSIS	REQUES	ST	_		
roject Manager:	Dan Dunkelberg					- 1	P.O. #:			1				1						
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1242650 Lab I.D.	Sample I.	.D.	(G)RAB OR (C)OMP.	X X SOIL SILUDGE STUDGE OTHER: ACIDIBASE: AC		ACID/BASE: ICE / COOL	DATE	TIME	Chloride	ТРН	втех									
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18	CF-012,0-01.0-S		c	1	X	\top		5/10/2024		X	X	Х								
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	CF-016.0-01.5-S		c	1	X	\Box		5/10/2024		X	X	X								
alyses. All claims including vice. In no event shall Ca liates or successors snair	Demages. Cardina's leability and client shase for negligence and any other cau- rinal be liable for incidental or conseque g out of or related to the performance of	se whatsoever shall be di ental damages, including	without larginal.	esived u kritation regardle	niess made , business as of wheth	in writing	g and received by one, loss of use, o	Cardinal within 30 da r loss of profils incur	eys after completion of med by client, its exibs lated reasons or other	of the applicable identes, owise.			To-	7.5.46						
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† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com



May 28, 2024

DAN DUNKELBERG
TRINITY OILFIELD SERVICES & RENTALS, LLC
P. O. BOX 2587
HOBBS, NM 88241

RE: NVA EAST BTY

Enclosed are the results of analyses for samples received by the laboratory on 05/21/24 14:42.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. 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.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC DAN DUNKELBERG P. O. BOX 2587 HOBBS NM, 88241

Fax To: NONE

Received: 05/21/2024 Sampling Date: 05/17/2024

Reported: 05/28/2024 Sampling Type: Soil

Project Name: NVA EAST BTY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Alyssa Parras

A ... - L ... - - - I D. .. MC

Project Location: CROSS TIMBERS

Sample ID: CF-017.0-01.5-S (H242810-01)

BTEX 8021B	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/23/2024	ND	2.07	104	2.00	3.11	
Toluene*	<0.050	0.050	05/23/2024	ND	2.11	105	2.00	5.39	
Ethylbenzene*	<0.050	0.050	05/23/2024	ND	2.10	105	2.00	6.07	
Total Xylenes*	<0.150	0.150	05/23/2024	ND	6.19	103	6.00	6.26	
Total BTEX	<0.300	0.300	05/23/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	05/22/2024	ND	416	104	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	05/22/2024	ND	185	92.7	200	1.10	
DRO >C10-C28*	516	10.0	05/22/2024	ND	183	91.4	200	1.05	
EXT DRO >C28-C36	334	10.0	05/22/2024	ND					
Surrogate: 1-Chlorooctane	109	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	126	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC DAN DUNKELBERG P. O. BOX 2587 HOBBS NM, 88241

Fax To: NONE

Received: 05/21/2024 Sampling Date: 05/17/2024

Reported: 05/28/2024 Sampling Type: Soil

Project Name: NVA EAST BTY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Alyssa Parras

Project Location: CROSS TIMBERS

Sample ID: CF-018.0-01.5-S (H242810-02)

BTEX 8021B	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/23/2024	ND	2.07	104	2.00	3.11	
Toluene*	<0.050	0.050	05/23/2024	ND	2.11	105	2.00	5.39	
Ethylbenzene*	<0.050	0.050	05/23/2024	ND	2.10	105	2.00	6.07	
Total Xylenes*	<0.150	0.150	05/23/2024	ND	6.19	103	6.00	6.26	
Total BTEX	<0.300	0.300	05/23/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	111	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	05/22/2024	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/22/2024	ND	185	92.7	200	1.10	
DRO >C10-C28*	56.5	10.0	05/22/2024	ND	183	91.4	200	1.05	
EXT DRO >C28-C36	30.3	10.0	05/22/2024	ND					
Surrogate: 1-Chlorooctane	79.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	80.3	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC DAN DUNKELBERG P. O. BOX 2587 HOBBS NM, 88241

Fax To: NONE

Received: 05/21/2024 Sampling Date: 05/17/2024

Reported: 05/28/2024 Sampling Type: Soil

Project Name: **NVA EAST BTY** Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Alyssa Parras

Project Location: **CROSS TIMBERS**

Sample ID: CF-019.0-01.5-S (H242810-03)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/23/2024	ND	2.07	104	2.00	3.11	
Toluene*	<0.050	0.050	05/23/2024	ND	2.11	105	2.00	5.39	
Ethylbenzene*	<0.050	0.050	05/23/2024	ND	2.10	105	2.00	6.07	
Total Xylenes*	<0.150	0.150	05/23/2024	ND	6.19	103	6.00	6.26	
Total BTEX	<0.300	0.300	05/23/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 5	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	05/22/2024	ND	416	104	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	05/22/2024	ND	185	92.7	200	1.10	
DRO >C10-C28*	59.5	10.0	05/22/2024	ND	183	91.4	200	1.05	
EXT DRO >C28-C36	21.9	10.0	05/22/2024	ND					
Surrogate: 1-Chlorooctane	89.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	91.0	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keine



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

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Celeg D. Freene

Received by OCD: 7/9/2024 10:28:07 AM

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May 28, 2024

DAN DUNKELBERG
TRINITY OILFIELD SERVICES & RENTALS, LLC
P. O. BOX 2587
HOBBS, NM 88241

RE: NVA EAST BTY

Enclosed are the results of analyses for samples received by the laboratory on 05/21/24 14:42.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. 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.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC DAN DUNKELBERG P. O. BOX 2587 HOBBS NM, 88241

Fax To: NONE

Received: 05/21/2024 Sampling Date: 05/17/2024

Reported: 05/28/2024 Sampling Type: Soil

Project Name: NVA EAST BTY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Alyssa Parras

Analyzed By MC

Project Location: CROSS TIMBERS

Sample ID: CW-001.0-00.1-S (H242811-01)

DTEV 0021D

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/22/2024	ND	1.72	86.1	2.00	1.06	
Toluene*	<0.050	0.050	05/22/2024	ND	1.77	88.3	2.00	1.25	
Ethylbenzene*	<0.050	0.050	05/22/2024	ND	1.80	89.9	2.00	1.03	
Total Xylenes*	<0.150	0.150	05/22/2024	ND	5.43	90.4	6.00	2.16	
Total BTEX	<0.300	0.300	05/22/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	05/22/2024	ND	416	104	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	05/22/2024	ND	185	92.7	200	1.10	
DRO >C10-C28*	47.7	10.0	05/22/2024	ND	183	91.4	200	1.05	
EXT DRO >C28-C36	18.4	10.0	05/22/2024	ND					
Surrogate: 1-Chlorooctane	97.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	95.8	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



05/17/2024

Soil

Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC DAN DUNKELBERG P. O. BOX 2587 HOBBS NM, 88241

Received: 05/21/2024 Sampling Date: Reported: 05/28/2024 Sampling Type:

Fax To:

Project Name: **NVA EAST BTY** Sampling Condition: Cool & Intact Project Number: NONE GIVEN Sample Received By: Alyssa Parras

NONE

Project Location: **CROSS TIMBERS**

Sample ID: CW-002.0-01.0-S (H242811-02)

BTEX 8021B	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/23/2024	ND	1.93	96.5	2.00	2.89	
Toluene*	<0.050	0.050	05/23/2024	ND	1.88	94.0	2.00	3.05	
Ethylbenzene*	<0.050	0.050	05/23/2024	ND	1.90	95.0	2.00	2.80	
Total Xylenes*	<0.150	0.150	05/23/2024	ND	5.45	90.8	6.00	2.74	
Total BTEX	<0.300	0.300	05/23/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	91.5	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	05/22/2024	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/22/2024	ND	185	92.7	200	1.10	
DRO >C10-C28*	61.8	10.0	05/22/2024	ND	183	91.4	200	1.05	
EXT DRO >C28-C36	35.8	10.0	05/22/2024	ND					
Surrogate: 1-Chlorooctane	96.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	95.4	% 49.1-14	18						

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Celey D. Keine



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. Keine

Released to Imaging: 8/20/2024 11:22:26 AM

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7	CW-002.0-01.0-S		C	1 X 1					5/17/2024		X	X	X	-	-	-	+	+	1	1		
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[†] Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com



June 03, 2024

DAN DUNKELBERG
TRINITY OILFIELD SERVICES & RENTALS, LLC
P. O. BOX 2587
HOBBS, NM 88241

RE: NVA EAST BTY

Enclosed are the results of analyses for samples received by the laboratory on 05/29/24 15:51.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. 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.

Wite Sough

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,

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC DAN DUNKELBERG P. O. BOX 2587 HOBBS NM, 88241

Fax To: NONE

Received: 05/29/2024 Sampling Date: 05/28/2024

Reported: 06/03/2024 Sampling Type: Soil

Project Name: NVA EAST BTY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Alyssa Parras

A .. . l. d D. .. 311

Project Location: CROSS TIMBERS

Sample ID: CF-007.0-00.5-S (H243002-01)

DTEV 0021D

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	05/31/2024	ND	1.50	75.1	2.00	2.27	
Toluene*	<0.050	0.050	05/31/2024	ND	1.76	88.2	2.00	3.46	
Ethylbenzene*	<0.050	0.050	05/31/2024	ND	1.98	98.9	2.00	5.29	
Total Xylenes*	<0.150	0.150	05/31/2024	ND	6.17	103	6.00	5.70	
Total BTEX	<0.300	0.300	05/31/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	128	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	05/31/2024	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	05/31/2024	ND	197	98.5	200	1.90	
DRO >C10-C28*	24.4	10.0	05/31/2024	ND	201	100	200	2.16	
EXT DRO >C28-C36	<10.0	10.0	05/31/2024	ND					
Surrogate: 1-Chlorooctane	104	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	101	% 49.1-14	8						

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Mile Sough

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

NONE

Fax To:

TRINITY OILFIELD SERVICES & RENTALS, LLC DAN DUNKELBERG P. O. BOX 2587 HOBBS NM, 88241

 Received:
 05/29/2024

 Reported:
 06/03/2024

 Project Name:
 NVA FAST BTY

Project Name: NVA EAST BTY
Project Number: NONE GIVEN
Project Location: CROSS TIMBERS

Sampling Date: 05/28/2024

Sampling Type: Soil
Sampling Condition: Cool & Intact

Sample Received By:

Alyssa Parras

Sample ID: CF-009.0-01.0-S (H243002-02)

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	05/31/2024	ND	1.50	75.1	2.00	2.27	
Toluene*	<0.050	0.050	05/31/2024	ND	1.76	88.2	2.00	3.46	
Ethylbenzene*	<0.050	0.050	05/31/2024	ND	1.98	98.9	2.00	5.29	
Total Xylenes*	<0.150	0.150	05/31/2024	ND	6.17	103	6.00	5.70	
Total BTEX	<0.300	0.300	05/31/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	130	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	05/31/2024	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	05/31/2024	ND	197	98.5	200	1.90	
DRO >C10-C28*	41.7	10.0	05/31/2024	ND	201	100	200	2.16	
EXT DRO >C28-C36	16.0	10.0	05/31/2024	ND					
Surrogate: 1-Chlorooctane	98.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	96.3	% 49.1-14	18						

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Mile Sough

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

BS-3 Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.

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 $% \left(1\right) =\left(1\right) \left(1\right) \left$

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

Received by OCD: 7/9/2024 10:28:07 AM

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FEAST 80 FROT OF SO! P959/20124 YV: 28:07 AM	DATE: JAGE COLL			
LEASE NAME:	TIME: AM/PM			
RIG NAME & NUMBER:	VEHICLE NO:			
TRANSPORTER COMPANY: PH	ONE:			
GENERATOR COMPANY MAN'S NAME: PHONE: PHONE: PHONE:				
CHARGETO: (TUZZ TIMBEL)				
TYPE OF [] Tank Bottoms [] Drilling Fluids [] Rinsat	e [] BS&W Content:			
MATERIAL [] Solids [] Contaminated Soil [] Jet Ou	t			
Description:				
VOLUME OF [] BBLS: 1] YARD:	[]			
RRC or API # C-133#	CAL			
AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE FXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY. ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET. TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.				
THIS WILL CERTIFY that the above Transporter loaded the material represented by this above described location, and that it was tendered by the above described shipper. This materials were added to this load, and that the material was delivered without incident. DRIVER: (SIGNATURE) FACILITY REPRESENTATIVE: (SIGNATURE)	Transporter Statement at the will certify that no additional			
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Reorder from: Vertigo Creative Services LLC • www.VertigoCreative.com • Form#SC	N-004c			

Page 164 of 192

GENERATOR COMPANY MAN'S NAME: CHARGE TO: TYPE OF [] Tank Bottoms [] Drilling Fluids [] Rinsat MATERIAL [] Solids [] Contaminated Soil [] Jet Ou Description: VOLUME OF MATERIAL [] BBLS. : [] YARD :: RRC or API # C-133# STICKERS, CODES, NUMBERS, ETC. AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTAND HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CIL AS A MENDED FROM TIME TO TIME, 40 U.S.C. § 6901, etc.	[] ICE OF THE MATERIALS SHIPPED WITH THIS ANTS THAT THE WASTE MATERIAL SHIPPED
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THIS WILL CERTIFY that the above Transporter loaded the material represented by this above described location, and that it was tendered by the above described shipper. This materials were added to this load, and that the material was delivered without incident. DRIVER: [SIGNATURE] FACILITY REPRESENTATIVE:	
	Transporter
Reorder from: Vertigo Creative Services LLC · www.VertigoCreative.com · Form#SD	

	IM 55 TIMBELS DATE:	77.1.1014
insed bgr O O ID: H P/PF/2024 PAD 328:07 A	TIME:	AM/PM
G NAME & NUMBER:	VEHICLE	NO: 50(2)
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ENERATOR COMPANY MAN'S NAME:	- har	
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TYPE OF [] Tank Bottoms	[] Drilling Fluids	BS&W Content:
MATERIAL [] Solids	[] Contaminated Soil [] Jet Out	
Description:		
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П	LEASE OPERATOR/SI	HIPPER/COMPANY	Care Tuestans	1000		
Re	ceived by OCD: LEASE NAME:	7/9/2024 10:28:0	97 AM SS TIMBETS	DATE: 5		
	RIG NAME & NUMBE		SI Barreiv	TIME: AM/PM		
	TRANSPORTER COM	PANY: LALIA	1	VEHICLE NO:		
	GENERATOR COMPANY MAN'S NAME:					
li	CHARGE TO: CHARGE TO:					
L	CHANGE TO.	01022	limbtis			
	TYPE OF MATERIAL	[] Tank Bottoms	[] Drilling Fluids [] Rinsate [] Contaminated Soil [] Jet Out	[] BS&W Content:		
	Description:		DD 1 1 Jet Out			
	VOLUME OF MATERIAL	[]BBLS	: (YARD_):	[]		
	RRC or API#		C-133#			
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	DRIVER:	1111111				
	FACILITY REPRES		Mich F.			
		(SIGNATURE)	9			
	Whit	te - Sundance	Canary - Sundance Acct #1 Pink - Trans	sporter		
		Reorder from: Vertigo Crea	tive Services LLC • www.VertigoCreative.com • Form#SDI-004c			

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	LEASE OPERATOR/S	HIPPER/COMPANY	N	(Otob)
		D: 7/9/2024 10:2	8:07 AM SS limbers	DATE: 5
	RIG NAME & NUMBE	R:	and Kouldery	TIME: AM/PM
1	TRANSPORTER COM	IPANY:		VEHICLE NO:
l	GENERATOR COMPA	1 4 1 1 1	PH	ONE:
l	CHARGE TO:	TO MAIN S IVAIVIE:	Kevin Rennell PH	ONE: 075-513-VI K
	CHARGE 10:	00557	Timbers	0190
	TYPE OF MATERIAL Description:	[] Tank Bottoms	[] Drilling Fluids [] Rinsate [] Contaminated Soil [] Jet Out	1 pagy Content:
	VOLUME OF MATERIAL	[] BBLS	: f_YARD:	
	RRC or API#		C-133#	
1 am	THIS WILL CERTIFY bove described location atterials were added to DRIVER: (SIGNATURE) FACILITY REPRESE	ENTATIVE: (SIGNATURE) 2 - Sundance	AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANT HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONS AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et se 361.001 et seq., AND REGULATIONS RELATED THERETO, BY DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL G/ ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTA THIS JOB TICKET. TRANSPORTER REPRESENTS AND WARRANTS BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVER SERVICES, INC.'S FACILITY FOR DISPOSAL. Orter loaded the material represented by this Transporter loaded the material represented by this Transporter by the above described shipper. This will be material was delivered without incident. Canary - Sundance Acct #1 Pink - Transpectors LLC • www.VertigoCreative.com • Form#SDI-004c	STRAIT THE WASTE MATERIAL SHIPPED EXPATION AND RECOVERY ACT OF 1976, q., THE NM HEALTH AND SAF. CODE STRAITURE OF THE EXEMPTION AFFORDED ASSOCIATED WITH THE EXPLORATION, AS OR GEOTHERMAL ENERGY. INCE OF THE MATERIALS SHIPPED WITH THAT ONLY THE MATERIAL DELIVERED ED BY TRANSPORTER TO SUNDANCE INSPORTER Statement at the certify that no additional
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LEASE OF ERATORSHIPE	ER/COMPANY: 20.07	WITS TIN	1/2015	DATE: 5 -8-04	
LEASE NAME:	19/2 024 10:25:0/ 2	Port		TIME: 33 4 AM/PM	
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CHARGE TO:	F ASS -	+ unhas			
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MATERIAL	[] Solids	[] Contaminated Soil	[] Jet Out		
Description:		JD.			
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HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., and regulations related thereto, by virtue of the exemption afforded drilling fluids, produced waters, and other waste associated with the exploration, development or production of crude oil or natural gas or geothermal energy. ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET. TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.					
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	Reorder from: Vertigo Creat	ive Services LLC • www.VertigoCre	ative.com • Form#SDI	I-004c	
the letter and the					

	TIMPIS	DATE: 5		
eained by a Colon 1979/2024 AVV:	28:07 AM	TIME: AM/PM		
LEASE NAME:	togi real	VEHICLE NO: 50 01 04		
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TRANSPORTER COMPANY: PHONE:				
GENERATOR COMPANY MAN'S NAME:	Kevin Bennett PH			
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White - Sundan	ce Canary - Suridance / teet #	k - Transporter		
Reorder fro	m: Vertigo Creative Services LLC • www.VertigoCreative.com • Form	n#SDI-004c		

Timbers	DATE: 5 - 8 - 24
ISEB PEKARGABAIFA PAR 2024 PAR 128:07 AM	TIME: 3346AM/PM
ASE NAME: NUA TOST BOTT	VEHICLE NO: 000
G NAME & NUMBER:	PHONE:
RANSPORTER COMPANY: 111111111111111111111111111111111111	PHONE:
ENERATOR COMPANY MAN'S NAME:	
HARGETO: CIOSS TIMBEIS	
[] Tank Rottoms [] Drilling Fluids []	Rinsate [] BS&W Content:
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HEREWITH IS MATERIAL EXEMPT FROM THE AS AMENDED FROM TIME TO TIME, 40 U.S. 361.001 et seq., and regulations relation of drilling fluids, produced waters, and development or production of crude of also as a condition to sundance service.	IS ACCEPTANCE OF THE MALE MATERIAL SHIPPED AND WARRANTS THAT THE WASTE MATERIAL SHIPPED ESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, C. § 6901, et seq., The MM HEALTH AND SAF. CODE § D THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED OTHER WASTE ASSOCIATED WITH THE EXPLORATION, IL OR NATURAL GAS OR GEOTHERMAL ENERGY. ES, INC'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH IS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE
arounce inc's Facility filk illaruant.	
THIS WILL CERTIFY that the above Transporter loaded the material representations above described location, and that it was tendered by the above described shadove described to this load, and that the material was delivered without materials were added to this load, and that the material was delivered without	ted by this Transporter Statement at the pper. This will certify that no additional incident.
DRIVER:	
FACILITY REPRESENTATIVE:	
(SIGNATURE)	
(SIGNATURE) White - Sundance Canary - Sundance Acct #1 Reorder from: Vertigo Creative Services LLC • www.VertigoCreative.c	Pink - Transporter

Canary - Sundance Acct #1

Reorder from: Vertigo Creative Services LLC • www.VertigoCreative.com • Form#SDI-004c

White - Sundance

The Time!	S DATE: 5 8 24				
CEASE BAR ANG BEIT FER 2024 A 10128:07 AM	TIME: AM/PM				
LEASE NAME:	VEHICLE NO: 50615				
RIG NAME & NUMBER:					
TRANSPORTER COMPANY:	PHONE:				
GENERATOR COMPANY MAN'S NAME:	[1]				
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1 Tank Bottoms 1 Drilling ridius] Rinsate [] BS&W Content:] Jet Out				
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THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident. DRIVER: [SIGNATURE] FACILITY REPRESENTATIVE:					
(SIGNATURE) White - Sundance Canary - Sundance Acct #1	Pink - Transporter				
Reorder from: Vertigo Creative Services LLC • www.VertigoCreative	.com • Form#SDI-004c				

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ewew by wed !!!//9/2	2924Pfd. 28:07 A	MOSS TIME	615	TIME: AM/PM
EASE NAME:	IA East	Balt		VEHICLE NO:
IG NAME & NUMBER:			PHO	7
RANSPORTER COMPANY:	Triniti	/	1 846	17 7 h
ENERATOR COMPANY M.	AN'S NAME:	Kevin Beni	Att Pho	10 10 00
CHARGE TO:	(1055	Timbers		
TYPE OF [] Tank Bottoms	[] Drilling Fluids	[] Rinsate	[] BS&W Content:
] Solids	[] Contaminated Soil	[] Jet Out	
Description:				
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A A A A A A A A A A A A A A A A A A A	Your Salace III	TYPIS !	DATE: 9-94
ceineabberOtODsHT/9F2G24170!	28:07 AM	P A	TIME: AM/PM
LEASE NAME:	tast contry		VEHICLE NO: 50 CTO
RIG NAME & NUMBER:	1	PHO	NE:
TRANSPORTER COMPANY:	mily /	enne/pho	NE:
GENERATOR COMPANY MAN'S NAM	E: LEVIA I	>CINCI	
CHARGETO:	is Timbers		
TVDE OF [] Tank B	lottoms [] Drilling Fluids	[] Rinsate	[] BS&W Content:
TYPE OF Solids	I I C	[] Jet Out	
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Description:		00.	[]
VOLUME OF []BBLS	: ITYARD_	20	
		C-133#	Nm _
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	361.001 et seq., AND REGULAI DRILLING FLUIDS, PRODUCED I DEVELOPMENT OR PRODUCTION ALSO AS A CONDITION TO SUND	IONS RELATED THERETO, NATERS, AND OTHER WA I OF CRUDE OIL OR NATUR.	T SEQ., THE NM HEALTH AND SAF. CODE S BY VIRTUE OF THE EXEMPTION AFFORDED STE ASSOCIATED WITH THE EXPLORATION, AL GAS OR GEOTHERMAL ENERGY.
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Page 175 of 192

reived by OCD 279/2024/20128-07 AM SS TIMBES	DATE:
PEIXE DAY A CONSTRUCTION OF THE PERSON OF TH	TIME: 2325 AM/PM
LEASE NAME:	VEHICLE NO: 50 6100
	ONE:
TRANSPORTER COMPANY: TIME PER PROPERTY OF THE	IONE:
GENERATOR COMPANY MAN'S NAME:	
CHARGE TO: CIDSS TIMBLES	te [] BS&W Content:
TYPE OF [] Tank Bottoms [] Drilling Fluids [] Rinsa	
MATERIAL [] Solids [] Contaminated Soil [] Jet C	
Description:	
VOLUME OF []BBLS: []YARD:	[]
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STICKERS, CODES, NUMBERS, ETC. JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND W. HEREWITH IS MATERIAL EXEMPT FROM THE RESOURC AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 692 AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 692 AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 692 AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 692 AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 692 AS AMENDED FROM TIME	TO, BY VIRTUE OF THE EXEMPTION AFFORDED WASTE ASSOCIATED WITH THE EXPLORATION, TURAL GAS OR GEOTHERMAL ENERGY. ACCEPTANCE OF THE MATERIALS SHIPPED WITH ARRANTS THAT ONLY THE MATERIAL DELIVERED DELIVERED BY TRANSPORTER TO SUNDANCE This Transporter Statement at the This will certify that no additional
FACILITY REPRESENTATIVE: (SIGNATURE)	
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Reorder from: Vertigo Creative Services LLC • www.VertigoCreative.com • Fr	

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	HP/9/2024 AV: 28:07	TIM DSS TIM	1005 1	DATE: 5-4-24
EASE NAME:	MILA TOS	& Balt		TIME: 355 AM/PM)
IG NAME & NUMBE	R:			VEHICLE NO: 706
TRANSPORTER COMPANY: PHONE:				
GENERATOR COMPA	NY MAN'S NAME:	Keun R	enne PHON	E:
CHARGE TO:	(1055	Timbers		
TYPE OF	[] Tank Bottoms	[] Drilling Fluids	[] Rinsate	[] BS&W Content:
MATERIAL	[] Solids	[Contaminated Soil	[] Jet Out	-
Description:				
VOLUME OF MATERIAL	[] BBLS	: YARD	30:	[]
RRC or API #			C-133#	Nm
1 1		361 001 et sen. AND REGULATION	IS RELATED THERETO, BY	q., THE NM HEALTH AND SAF. CODE §
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		DRILLING FLUIDS, PRODUCED WA DEVELOPMENT OR PRODUCTION OF ALSO AS A CONDITION TO SUNDANG This Job Ticket. Transporter Ri By Operator/Shipper to Tran	TERS, AND OTHER WASTE CRUDE OIL OR NATURAL G EESERVICES, INC.'S ACCEPT PRESENTS AND WARRANT SPORTER IS NOW DELIVE	ASSOCIATED WITH THE EXPLORATION,
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	DATE:
instablyr OOD9H79992624176128:07 AM	TIME: AM/PM
ASE NAME: NUM CONST. SCI.H	VEHICLE NO: 500
G NAME & NUMBER:	HONE:
RANSPORTER COMPANY:	HONE:
ENERATOR COMPANY MAN'S NAME:	
CHARGETO: (1)55 Timbers	
TYPE OF [] Tank Bottoms [] Drilling Fluids [] Rinsa	te [] BS&W Content:
TYPE OF MATERIAL [] Solids [] Contaminated Soil [] Jet O	ut
MATERIAL COMMAND	
Description:	[]
VOLUME OF []BBLS: [1YARD:	11
MATERIAL C-133#	Nhan
RRC or API #	IVIII
HEREWITH IS MATERIAL EXEMPT THOSE IN THE MEDICAL PROMITION TO TIME, 40 U.S.C. \$ 68001 AS AMENDED FROM TIME TO TIME, 40 U.S.C. \$ 68001 BORROLL SEC., AND REGULATIONS RELATED THERET DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NAT ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S THIS JOB TICKET. TRANSPORTER REPRESENTS AND WI BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW SERVICES, INC.'S FACILITY FOR DISPOSAL. THIS WILL CERTIFY that the above Transporter loaded the material represented by above described shipper. To above described shipper.	O, BY WINDLE OF THE EXPLORATION, WASTE ASSOCIATED WITH THE EXPLORATION, URAL GAS OR GEOTHERMAL ENERGY. ACCEPTANCE OF THE MATERIALS SHIPPED WITH HRBANTS THAT ONLY THE MATERIAL DELIVERED DELIVERED BY TRANSPORTER TO SUNDANCE THIS Transporter Statement at the this Will certify that no additional
DRIVER: (SIGNATURE) FACILITY REPRESENTATIVE:	
(SIGNATURE) White - Sundance Canary - Sundance Acct #1 Pig	

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LEASE OPERATOR/SHIP			100
Received by OCD: 7	/9/2024 10:28:0	TAMIOSS TIMIDE	5 DATE: 5-13-94
LEASE NAME:	NNU	tast Keithany	TIME: AM/PM
RIG NAME & NUMBER:			VEHICLE NO:
TRANSPORTER COMPAI	111111	ly P	PHONE:
GENERATOR COMPANY	MAN'S NAME:	Kelin Bennell P	HONE: 515.513-X15
CHARGE TO:	61055	Timbus	
TYPE OF MATERIAL Description:	[] Tank Bottoms	[] Drilling Fluids [] Rinsa [] Contaminated Soil [] Jet O	t 7 DOGAA CONTENT.
VOLUME OF MATERIAL	[]BBLS	_: [] YARD:	[]
RRC or API #		C-133#	Alm
THIS WILL CERTIFY tabove described location	o this load, and that t	AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTA JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARF HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, C AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, e 361.001 et seq., AND REGULATIONS RELATED THERETO, DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WA DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATUR. ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACC THIS JOB TICKET. TRANSPORTER REPRESENTS AND WARR BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DEL SERVICES, INC.'S FACILITY FOR DISPOSAL. **OFFICE CONTROL OF THE SERVICES OF THE	RANTS THAT THE WASTE MATERIAL SHIPPED CONSERVATION AND RECOVERY ACT OF 1976, et seq., The NM HEALTH AND SAF, CODE S BY VIRTUE OF THE EXEMPTION AFFORDED STE ASSOCIATED WITH THE EXPLORATION, AL GAS OR GEOTHERMAL ENERGY. SEPTANCE OF THE MATERIALS SHIPPED WITH ANTS THAT ONLY THE MATERIAL DELIVERED LIVERED BY TRANSPORTER TO SUNDANCE
THE THE SE	(SIGNATURE)	MILL C	
	- Sundance		Fransporter
	Reorder from: Vertigo Creat	ive Services LLC • www.VertigoCreative.com • Form#SDI	I-004c

EEEROPE DATOCH!	757972024 YO:28:0	AM DSS TIME	DATE: 5 13 JU
LEASE NAME:	East 3	Battery	TIME: 334 AM/PM
RIG NAME & NUMBER:			VEHICLE NO:
TRANSPORTER COMPAI	NY: Tunity		PHONE:
GENERATOR COMPANY	MAN'S NAME:	Keun P.	PHONE:
CHARGE TO:	(1055	Timbris	
TYPE OF MATERIAL Description:	[] Tank Bottoms		Rinsate [] BS&W Content: et Out
VOLUME OF MATERIAL	[]BBLS	: [/] YARD	_: [1
RRC or API#		C-133	3# Nm
		AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 361.001 et seq., and regulations related the drilling fluids, produced waters, and oth development or production of crude oil or also as a condition to sundance services, in this job ticket. Transporter represents and	JRCE, CONSERVATION AND RECOVERY ACT OF 1976, 6901, et seq., The NM HEALTH AND SAF. CODE § ERETO, BY VIRTUE OF THE EXEMPTION AFFORDED IER WASTE ASSOCIATED WITH THE EXPLORATION, NATURAL GAS OR GEOTHERMAL ENERGY. C.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH DOWN THE MATERIAL DELIVERED OW DELIVERED BY TRANSPORTER TO SUNDANCE
above described locat	tion, and that it was ter to this load, and that th	orter loaded the material represented b ndered by the above described shipper. he material was delivered without incid	This will certify that no additional
FACILITY REPRE	SENTATIVE: (SIGNATURE)	Mat	
Whi	ite - Sundance	Canary - Sundance Acct #1	Pink - Transporter
	Reorder from: Vertigo Creat	vive Services LLC • www.VertigoCreative.com • Fo	orm#SDI-004c

eggived by OREDEPEROZODE 4NFO: 28:07 AM	DATE: 5 3 24
EASE NAME: NUA ECOT POLITICAL	TIME: AM/PM
RIG NAME & NUMBER:	VEHICLE NO:
	PHONE:
	PHONE:
CHARGE TO: LISS TIMBELS	
TYPE OF [] Tank Bottoms [] Drilling Fluids [] Rin	
MATERIAL [] Solids [] Contaminated Soil [] Jet	Out
Description:	
VOLUME OF []BBLS: []YARD:	: [1
RRC or API # C-133#	Nm
AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6: 361.001 et seq., and regulations related thei Drilling Fluids, produced waters, and othe Development or production of crude oil or n Also as a condition to sundance services, inc This job ticket. Transporter represents and By operator/shipper to transporter is no Services, inc.'s facility for disposal.	R WASTE ASSOCIATED WITH THE EXPLORATION, IATURAL GAS OR GEOTHERMAL ENERGY. S ACCEPTANCE OF THE MATERIALS SHIPPED WITH WARRANTS THAT ONLY THE MATERIAL DELIVERED
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WEESE FRENCH TO PICTO	PF/99202410:28:0	PAMOSS Timbas	DATE: 5-16 24
LEASE NAME:	VA Eas	st Batt	TIME: 3 C AM/PM
RIG NAME & NUMBER:			VEHICLE NO:
TRANSPORTER COMPA	NY: Trinite	PH	ONE:
GENERATOR COMPANY	Y MAN'S NAME:	Levin B. PH	ONE:
CHARGE TO:	(1055	Timbris	
TYPE OF	[] Tank Bottoms	[] Drilling Fluids [] Rinsate	e [] BS&W Content:
MATERIAL	[] Solids	[] Contaminated Soil [] Jet Ou	t
Description:			
VOLUME OF MATERIAL	[] BBLS	: [1 YARD 20 :	[]
RRC or API#		C-133#	Nm
AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY. ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET. TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL. THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident. DRIVER: (SIGNATURE) FACILITY REPRESENTATIVE:			
(SIGNATURE) White - Sundance Canary - Sundance Acct #1 Pink - Transporter			
White - Sundance Canary - Sundance Acct #1 Pink - Transporter Reorder from: Vertigo Creative Services LLC - www.VertigoCreative.com - Form#SDI-004c			

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Kesewer to beds.	5/992024 10:28:07 AMSS TIMPIS	DATE: 5 - 16-24	
LEASE NAME:	NVI East Roll-	TIME: AM/PM	
RIG NAME & NUMBER:		VEHICLE NO:	
TRANSPORTER COMPAN	M: Tunity	PHONE:	
GENERATOR COMPANY	MAN'S NAME: Levin Bennel	PHONE:	
CHARGE TO:	Cioss Timbers		
TYPE OF MATERIAL	[] Tank Bottoms [] Drilling Fluids [] Rin [] Solids [] Contaminated Soil [] Jet	1000	
VOLUME OF MATERIAL	[]BBLS: []YARD	: [1	
RRC or API #	C-133#	Nn	
AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY. ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET. TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL. THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident. DRIVER: (SIGNATURE) FACILITY REPRESENTATIVE: (SIGNATURE)			
White - Sundance Canary - Sundance Acct #1 Pink - Transporter			
Reorder from: Vertigo Creative Services LLC • www.VertigoCreative.com • Form#SDI-004c			

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LEASE OPERATOR/SHIPPER/COMPANY: Received by OCD: 7/9/2024	10:28:07 AM	DATE:	
LEASE NAME:	ist Notlery	TIME: AM/PM	
RIG NAME & NUMBER:		VEHICLE NO: 37(7)	
TRANSPORTER COMPANY:	P P	HONE:	
GENERATOR COMPANY MAN'S NAME:	Kevin Pennett P	HONE: (37) 13815(
CHARGE TO:	Timbels		
TYPE OF [] Tank Bott	toms [] Drilling Fluids [] Rinsa	ite [] BS&W Content:	
MATERIAL [] Solids	[] Contaminated Soil [] Jet O	ut	
Description:	1		
VOLUME OF [] BBLS.	:::	[]	
RRC or API#	C-133#	NNI	
AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY. ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET. TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE			
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FACILITY REPRESENTATIVE: (SIGNAL White - Sundance		Transporter	

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Received by OCD: 7/9/2024 10:28:	O7AM Mathers	DATE:	
Received by OCD: 7/9/2024 10:28:	Ed bend	TIME: 7 23 AM/PM	
RIG NAME & NUMBER:	VEHICLE NO:		
TRANSPORTER COMPANY:	DH4	ONE:	
GENERATOR COMPANY MAN'S NAME:	NII.		
	UNIT IX III THE	ONE: (3) 138160	
CHARGE TO:			
TYPE OF [] Tank Bottoms	[] Drilling Fluids [] Rinsate	[] BS&W Content:	
MATERIAL [] Solids	[] Contaminated Soil [] Jet Out		
Description:	/1		
VOLUME OF	1		
MATERIAL []BBLS	: [\] YARD:	[]	
RRC or API #	C-133#	JAT	
HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. \$ 6901, et seq., THE NM HEALTH AND SAF. CODE \$ 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY. ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET. TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL. THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident. DRIVER: (SIGNATURE) White - Sundance Canary - Sundance Acct #1 Pink - Transporter Reorder from: Vertigo Creative Services LLC • www.VertigoCreative.com • Form#SDI-004c			

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

QUESTIONS

Action 357673

QUESTIONS

Operator:	OGRID:
CROSS TIMBERS ENERGY, LLC	298299
400 West 7th Street	Action Number:
Fort Worth, TX 76102	357673
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites		
Incident ID (n#)	nAPP2402167703	
Incident Name	NAPP2402167703 NORTH VACUUM ABO EAST BATTERY @ 0	
Incident Type	Produced Water Release	
Incident Status	Remediation Closure Report Received	
Incident Facility	[fAPP2123050201] NVAU EAST BATTERY	

Location of Release Source		
Please answer all the questions in this group.		
Site Name	NORTH VACUUM ABO EAST BATTERY	
Date Release Discovered	01/20/2024	
Surface Owner	Private	

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications fo	or the volumes provided should be attached to the follow-up C-141 submission.
Crude Oil Released (bbls) Details	Cause: Freeze Other (Specify) Crude Oil Released: 5 BBL Recovered: 3 BBL Lost: 2 BBL.
Produced Water Released (bbls) Details	Cause: Freeze Other (Specify) Produced Water Released: 60 BBL Recovered: 57 BBL Lost: 3 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Poly line failure

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<u>District IV</u> 1220 S. St Francis Dr., Santa Fe, NM 87505

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

QUESTIONS, Page 2

Action 357673

Phone:(505) 476-3470 Fax:(505) 476-3462			
QUESTIONS (continued)			
Operator: CROSS TIMBERS ENERGY, LLC 400 West 7th Street Fort Worth, TX 76102	OGRID: 298299 Action Number: 357673 Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)		
QUESTIONS			
Nature and Volume of Release (continued)			
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.		
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes		
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.		
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e.	e. gas only) are to be submitted on the C-129 form.		
Initial Response The responsible party must undertake the following actions immediately unless they could create a s	rafety hazard that would result in injury.		
The source of the release has been stopped	True		
The impacted area has been secured to protect human health and the environment	True		
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True		
All free liquids and recoverable materials have been removed and managed appropriately	True		
If all the actions described above have not been undertaken, explain why	Not answered.		
Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative o actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.			
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.			

Name: Dan Dunkelberg Title: Consultant

Date: 01/30/2024

Email: dan@trinityoilfieldservices.com

I hereby agree and sign off to the above statement

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

QUESTIONS, Page 3

Action 357673

QUESTIONS (continued)

Operator:	OGRID:
CROSS TIMBERS ENERGY, LLC	298299
400 West 7th Street	Action Number:
Fort Worth, TX 76102	357673
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Site Characterization		
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). 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 in feet below ground surface (ft bgs)	Between 75 and 100 (ft.)	
What method was used to determine the depth to ground water	NM OSE iWaters Database Search	
Did this release impact groundwater or surface water	No	
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:		
A continuously flowing watercourse or any other significant watercourse	Between 1000 (ft.) and ½ (mi.)	
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)	
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)	
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 500 and 1000 (ft.)	
Any other fresh water well or spring	Between ½ and 1 (mi.)	
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)	
A wetland	Between 500 and 1000 (ft.)	
A subsurface mine	Greater than 5 (mi.)	
An (non-karst) unstable area	Greater than 5 (mi.)	
Categorize the risk of this well / site being in a karst geology	Low	
A 100-year floodplain	Greater than 5 (mi.)	
Did the release impact areas not on an exploration, development, production, or storage site	No	

Remediation Plan	
Please answer all the questions that apply or are indicated. This information must be provide	led to the appropriate district office no later than 90 days after the release discovery date.
Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contami	ination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, i	in milligrams per kilograms.)
Chloride (EPA 300.0 or SM4500 Cl B)	1960
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	57150
GRO+DRO (EPA SW-846 Method 8015M)	49250
BTEX (EPA SW-846 Method 8021B or 8260B)	737
Benzene (EPA SW-846 Method 8021B or 8260B)	56.7
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes com which includes the anticipated timelines for beginning and completing the remediation.	pleted efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC,
On what estimated date will the remediation commence	08/15/2024
On what date will (or did) the final sampling or liner inspection occur	08/15/2024
On what date will (or was) the remediation complete(d)	11/13/2024
What is the estimated surface area (in square feet) that will be reclaimed	6810
What is the estimated volume (in cubic yards) that will be reclaimed	841
What is the estimated surface area (in square feet) that will be remediated	6810
What is the estimated volume (in cubic yards) that will be remediated	320
These estimated dates and measurements are recognized to be the best guess or calculation	n at the time of submission and may (be) change(d) over time as more remediation efforts are completed.
The OCD recognizes that proposed remediation measures may have to be minimally adjuste	ed in accordance with the physical realities encountered during remediation. If the responsible party has any need to

significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

District I

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

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QUESTIONS, Page 4

Action 357673

QUESTIONS (continued)

Operator:	OGRID:
CROSS TIMBERS ENERGY, LLC	298299
400 West 7th Street	Action Number:
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	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)		
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.		
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:		
(Select all answers below that apply.)		
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes	
Which OCD approved facility will be used for off-site disposal	Sundance Services, Inc [fKJ1600527371]	
OR which OCD approved well (API) will be used for off-site disposal	Not answered.	
OR is the off-site disposal site, to be used, out-of-state	No	
OR is the off-site disposal site, to be used, an NMED facility	No	
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	No	
(In Situ) Soil Vapor Extraction	No	
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No	
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No	
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No	
Ground Water Abatement pursuant to 19.15.30 NMAC	No	
OTHER (Non-listed remedial process)	No	

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

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.

I hereby agree and sign off to the above statement

Name: Dan Dunkelberg

Title: Consultant Email: dan@trinityoilfieldservices.com

Date: 04/24/2024

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 5

Action 357673

QUESTIONS (continued)

Operator:	OGRID:
CROSS TIMBERS ENERGY, LLC	298299
400 West 7th Street	Action Number:
Fort Worth, TX 76102	357673
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of	the following items must be confirmed as part of any request for deferral of remediation.
Requesting a deferral of the remediation closure due date with the approval of this submission	No

District I

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Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS, Page 6

Action 357673

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Operator:	OGRID:
CROSS TIMBERS ENERGY, LLC	298299
400 West 7th Street	Action Number:
Fort Worth, TX 76102	357673
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	347743
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	05/28/2024
What was the (estimated) number of samples that were to be gathered	2
What was the sampling surface area in square feet	800

Remediation Closure Request		
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.		
Requesting a remediation closure approval with this submission	Yes	
Have the lateral and vertical extents of contamination been fully delineated	Yes	
Was this release entirely contained within a lined containment area	No	
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes	
What was the total surface area (in square feet) remediated	8680	
What was the total volume (cubic yards) remediated	440	
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes	
What was the total surface area (in square feet) reclaimed	0	
What was the total volume (in cubic yards) reclaimed	0	
Summarize any additional remediation activities not included by answers (above)	Final reclamation of the well pad shall take place in accordance with 19.15.29.13 NMAC once the site is no longer being used for oil and gas operations.	

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 (in .pdf format) 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.

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.

I hereby agree and sign off to the above statement

I hereby agree and sign off to the above statement

I hereby agree and sign off to the above statement

Email: dan@trinityoilfieldservices.com

Date: 07/08/2024

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QUESTIONS, Page 7

Action 357673

QUESTIONS (continued)

Operator:	OGRID:
CROSS TIMBERS ENERGY, LLC	298299
400 West 7th Street	Action Number:
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	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	No

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CONDITIONS

Action 357673

CONDITIONS

Operator:	OGRID:
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400 West 7th Street	Action Number:
Fort Worth, TX 76102	357673
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created		Condition
Ву		Date
nvelez	Remediation has met 19.15.29 NMAC requirements. Soil impacts exceeding the reclamation standards have been left in place and are required to meet 19.15.29.13D (1) NMAC once the site is no longer reasonably needed for production or subsequent drilling ops.	8/20/2024