



MCollier@H-R_Enterprises.com 575-909-0326

Remediation and Closure Report

Triste Draw 25 Federal R.O.W.
Incident# nAPP2308872530
Lea County, New Mexico

Prepared For:

Cimarex Energy Co.
600 Marienfeld St.
Midland, TX 79701

Prepared By:

H&R Enterprises, LLC
5120 W. Kansas St.
Hobbs, New Mexico 88242

May 8, 2023

Mrs. Jennifer Nobui
NMOCD
1220 S. St. Francis Dr.
Santa Fe, NM 87505

Subject: **Remediation and Closure Report**
Triste Draw 25 Federal R.O.W.
Lea County, NM

Dear Mrs. Nobui,

Cimarex Energy Co. has contracted H&R Enterprises (H&R) to perform site assessment and remediation services at the above-referenced location. The results of our site assessment and remediation activities are contained herein.

Site Information

The Triste Draw 25 Federal R.O.W. is located approximately 30 miles West of Jal, New Mexico. The legal location for this release is Unit Letter N, Section 25, Township 23 South and Range 32 East in Lea County, New Mexico. More specifically the latitude and longitude for the release are 32.268621 North and -103.630440 West. Site plans are presented in [Appendix I](#).

According to the soil survey provided by the United States Department of Agriculture Natural Resources Conservation Service, the soil in this area is made up of Pyote and Maljamar fine sands, 0 to 3 percent slopes. The referenced soil data is attached in [Appendix II](#). Drainage courses in this area are typically dry. The project site is not located in a high Karst potential area (Karst Map, [Appendix I](#)).

Groundwater and Site Characterization

The New Mexico Office of the State Engineer web site indicates that the nearest reported depth to groundwater is 400-feet below ground surface (BGS). See [Appendix II](#) for the referenced groundwater data.

If a release occurs within the following areas, the responsible party must treat the release as if it occurred less than 50 feet to the groundwater in Table I, New Mexico Oil Conservation Division (NMOCD) Rule 19.15.29, NMAC.

Approximate Depth to Groundwater	400 Feet/BGS
---	---------------------

<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Within 300 feet of any continuously flowing watercourse or any other significant watercourse
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Within 200 feet of any lakebed, sinkhole, or a playa lake
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Within 300 feet from an occupied permanent residence, school, hospital, institution, or church
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Within 500 feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Within 1000 feet of any freshwater well or spring
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Within incorporated municipal boundaries or within a defined municipal freshwater well field covered under a municipal ordinance adopted pursuant to Section 3-2703 NMSA 1978
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Within 300 feet of a wetland
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Within the area overlying a subsurface mine
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Within an unstable area
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Within a 100-year floodplain

Due to groundwater data from the NMOSE not being current, an exploratory water bore was drilled to a total depth of 55-feet BGS on the Triste Draw 25 Federal #002H well pad approximately 580-feet to the east of the release area. As no groundwater was present, the closure criteria for this site are as follows:

Table I			
Closure Criteria for Soils Impacted by a Release			
Minimum depth below any point within the horizontal boundary of the release to ground water less than 10,000 mg/l TDS	Constituent	Method*	Limit**
51-100 feet	Chloride **	EPA 300.0 or SM4500 CIB	10,000 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	2,500 mg/kg
	GRO+DRO	EPA SW-846 Method 8015M	1,000 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg

Incident Description

On March 28, 2023, a lease operator found the 4-inch surface poly water line releasing produced water onto ETC's right-of-way. The actual cause for the leak in the poly water line is still under investigation.

Site Assessment and Remediation Activities

H&R mobilized personnel to begin site assessment, sampling, and remediation activities of the release area. Grab samples were collected by way of test trenching in the impacted area. Samples collected were transported to Cardinal Laboratories for analysis. The results of that analysis are presented in Table 1 below. Initial site assessment sampling locations are illustrated on Site Assessment Map, [Appendix I](#). Before, during, and after photographs of the release area are attached in [Appendix IV](#). Complete laboratory reports can be found in [Appendix V](#).

Table 1: Initial Soil Samples Analysis

Sample ID	Sample Date	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	CI mg/kg
NMOCD Table 1 Closure Criteria 19.15.29 NMAC			50 mg/kg	10 mg/kg	1000 mg/kg		2500 mg/kg	2500 mg/kg	10,000 mg/kg
TT-1	4/25/2023	0-1'	ND	ND	ND	ND	ND	0	8640
		2'	ND	ND	ND	ND	ND	0	12000
		3'	ND	ND	ND	ND	ND	0	10000
		4'	ND	ND	ND	ND	ND	0	4800
		6'	ND	ND	ND	ND	ND	0	6130
TT-2	4/25/2023	8'	ND	ND	ND	ND	ND	0	32
		0-1'	ND	ND	ND	ND	ND	0	16600
		2'	ND	ND	ND	ND	ND	0	8930
		3'	ND	ND	ND	ND	ND	0	1960
		4'	ND	ND	ND	ND	ND	0	336

ND = Analyte Not Detected TT = Test Trench

Based on the results of our site assessment and upon client authorization, excavation activities of the impacted area commenced. Confirmation composite samples were collected to confirm that NMOCD closure criteria had been met. The samples collected were transported to Cardinal Laboratories for analysis, the results of which can be found in the following data table. Confirmation sample locations and excavation dimensions can be found on Confirmation Sample Map in [Appendix I](#). Complete laboratory reports are attached in [Appendix V](#).

Table 2: Confirmation Soil Sample Analysis

Sample ID	Sample Date	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	CI mg/kg
NMOCD Table 1 Closure Criteria 19.15.29 NMAC			50 mg/kg	10 mg/kg	1000 mg/kg		2500 mg/kg	2500 mg/kg	10,000 mg/kg
S-1	4/26/2023	4'	ND	ND	ND	ND	ND	0	32
S-2	4/26/2023	4'	ND	ND	ND	ND	ND	0	336
S-3	4/26/2023	4'	ND	ND	ND	ND	ND	0	1900
S-4	4/26/2023	4'	ND	ND	ND	ND	ND	0	2760
SW-1	4/26/2023	4'	ND	ND	ND	ND	ND	0	48
SW-2	4/26/2023	4'	ND	ND	ND	ND	ND	0	16
SW-3	4/26/2023	4'	ND	ND	ND	ND	ND	0	32
SW-4	4/26/2023	4'	ND	ND	ND	ND	ND	0	16
BG-1	4/26/2023	0-1'	ND	ND	ND	ND	ND	0	ND
BG-2	4/26/2023	0-1'	ND	ND	ND	ND	ND	0	ND
BG-3	4/26/2023	0-1'	ND	ND	ND	ND	ND	0	ND
BG-4	4/26/2023	0-1'	ND	ND	ND	ND	ND	0	32

ND = Analyte Not Detected S = Bottom Sample SW = Sidewall Sample BG = Background Sample

Remedial Actions

- The entire impacted area (S-1 through S-4) was excavated to a total depth of 4-feet BGS.
- Composite confirmation samples were obtained from the sidewalls and bottom of the excavated area to verify that all contaminants above closure criteria had been removed.
- All the excavated material was hauled to Lea Land, a NMOCD approved solid waste disposal facility.
- The excavated area on the R.O.W. were backfilled with new topsoil at depth and brought to grade, machine compacted and contoured to match the surrounding location.
- The backfilled area of the R.O.W. will be seeded with the proper BLM seed mixture during monsoon season to ensure proper seed germination and vegetation growth.
- The Final C-141 formally documenting the remedial actions is attached in [Appendix III](#).

Closure

Based on the site assessment, remedial actions, and confirmation sampling results completed for this project, on behalf of Cimarex Energy Co. we request that no further actions be required, and that closure of this incident be granted.

Should you have any questions or if further information is required, please do not hesitate to contact our office at 575-909-0326.

Respectfully submitted,

H&R Enterprises, LLC

Michael Collier

Michael Collier
Environmental Project Manager

Attachments:

Appendix I Site Maps

Appendix II Soil Survey, Groundwater Data, FEMA Flood Zone, Soil Bore Log, Water Bore Map

Appendix III Initial and Final C-141

Appendix IV Photographic Documentation

Appendix V Laboratory Reports

APPENDIX I

SITE MAPS

KARST MAP



TOPOGRAPHIC MAP

LOCATOR MAP

Triste Draw 25 Federal R.O.W.

Cimarex Energy Co.
Incident# nAPP2308872530
Lea County, NM
Site Assessment Map

Legend



-  Impacted Area
-  Test Trench



Triste Draw 23 Federal R.O.W.

Cimarex Energy Co.
Incident# nAPP2308872530
Lea County, NM
Confirmation Sample Map

Legend

-  4ft. Excavation
-  Composite Confirmation Sample



Triste Draw 23 Federal R.O.W.

Cimarex Energy Co.
Incident# nAPP2308872530
Lea County, NM
Karst Map

Legend

- High
- Low
- Medium
- Triste Draw 25 Federal R.O.W.

Triste Draw 25 Federal R.O.W.




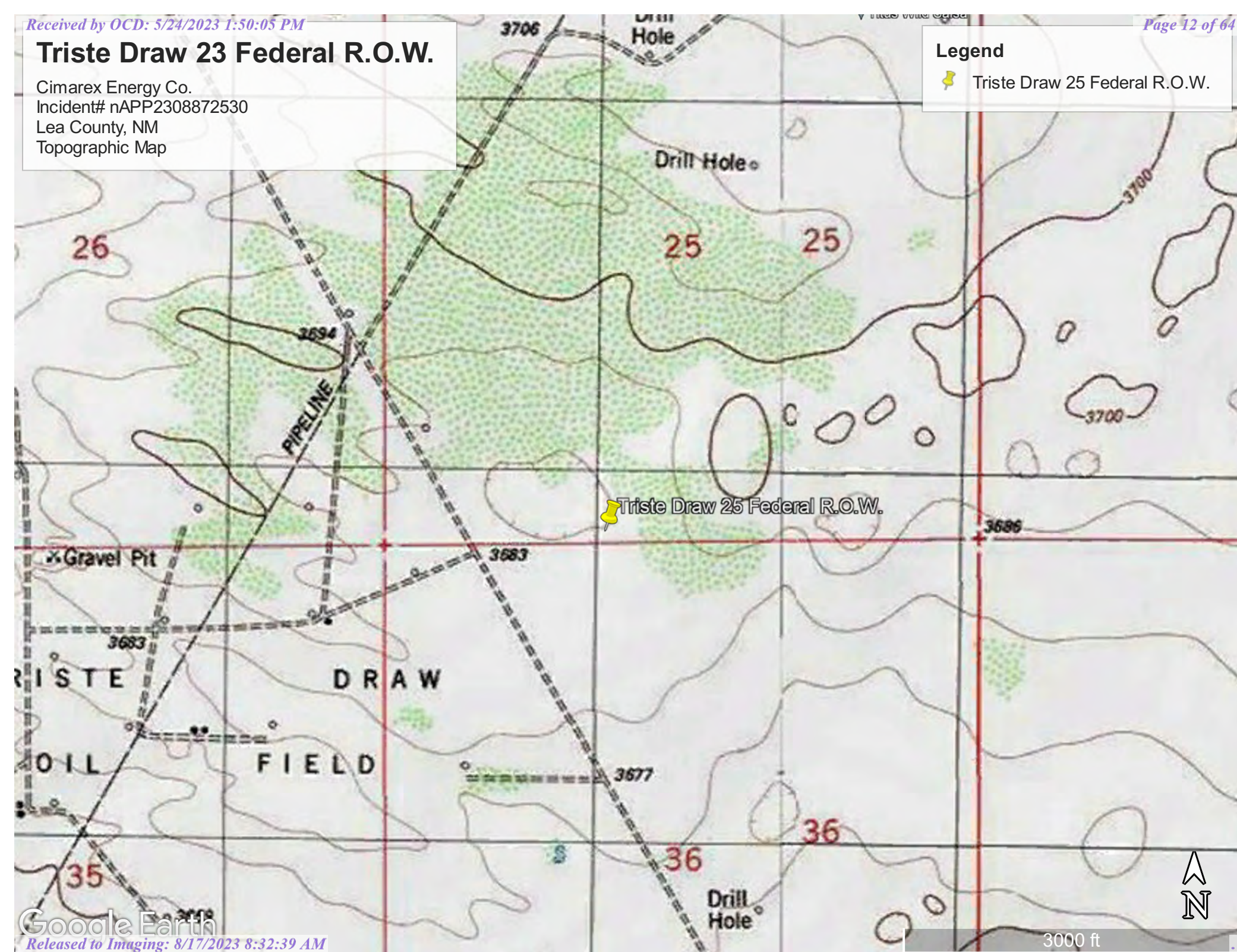
2 mi

Triste Draw 23 Federal R.O.W.

Cimarex Energy Co.
Incident# nAPP2308872530
Lea County, NM
Topographic Map

Legend


 Triste Draw 25 Federal R.O.W.





Triste Draw 23 Federal R.O.W.

Cimarex Energy Co.
Incident# nAPP2308872530
Lea County, NM
Locator Map

Legend

 Triste Draw 25 Federal R.O.W.

 Triste Draw 25 Federal R.O.W.

 Hearns pit



5 mi

Google Earth

APPENDIX II

GROUNDWATER DATA

SOIL SURVEY

FEMA FLOOD ZONE

WATER BORE MAP

SOIL BORE LOG



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced,
O=orphaned,
C=the file is closed)

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
C_04551 POD1		CUB	LE	4	4	3	31	23S	33E	630671	3569556	<input type="text"/>	2249		
C_02276		CUB	LE	3	1	4	19	23S	33E	630848	3573154*	<input type="text"/>	2834	650	400 250

Average Depth to Water: **400 feet**

Minimum Depth: **400 feet**

Maximum Depth: **400 feet**

Record Count: 2

Basin/County Search:

County: Lea

UTMNAD83 Radius Search (in meters):

Easting (X): 628970.98

Northing (Y): 3571030

Radius: 3000

*UTM location was derived from PLSS - see Help

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

4/26/23 1:35 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER

Triste Draw 25 Federal R.O.W.

Cimarex Energy Co.

Incident# nAPP2308872530

Lea County, NM

Water Bore Map

Legend

0.28 miles

Exploratory Water Bore

Triste Draw 25 Federal R.O.W.



1000 ft

Google Earth



Project Name : Cimarex - Triste Draw 25 ROW
Project No. : 214707
Location : Lea Co, New Mexico
Coordinates : 32.269008°, -103.625727°
Elevation : 3,625'

Date : Wednesday, October 27th, 2021
Sampler : Nick Hart
Driller : Scarborough Drilling
Method : Air Rotary

Depth (ft.)	WL	Soil Description	Lithology	Depth (ft.)	WL	Soil Description	Lithology
0		(0') - Yellowish orange, coarse-grained loose sand and white caliche gravel in equal amounts. (SP). Dry		50		(50') - Yellowish orange, loose alluvial sand and gravel. Pebble size chert fragments. Chert is white to medium gray, angular to subrounded. >50% fine grained sand w/ 20% chert. (SW) Dry	
5		(3') - Reddish brown, coarse-grained to fine-grained, angular to rounded loose sand (SM). Dry		55		(55') - GWDB terminated @ 11:00 (MT) to a TD of 55' bgs	
10				60			
15		(15') - Yellowish orange, alluvial sand and gravelk. Well-graded fine-grained sand with <10% cobble sized white caliche (SW). Dry		65			
20				70			
25				75			
30				80			
35				85			
40				90			
45		(45') - Yellowish orange, rounded to angular loose sand with <10% caliche gravel. (SW) Dry		95			
50				105			

Comments : Total Depth 55' bgs
 Drilling Terminated @ 11:00 MT No groundwater present

Check for presence of groundwater on 11/01/2021

Map Unit Description: Pyote and Maljamar fine sands---Lea County, New Mexico

Lea County, New Mexico

PU—Pyote and Maljamar fine sands

Map Unit Setting

National map unit symbol: dmqq

Elevation: 3,000 to 3,900 feet

Mean annual precipitation: 10 to 12 inches

Mean annual air temperature: 60 to 62 degrees F

Frost-free period: 190 to 205 days

Farmland classification: Not prime farmland

Map Unit Composition

Pyote and similar soils: 46 percent

Maljamar and similar soils: 44 percent

Minor components: 10 percent

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

Description of Pyote

Setting

Landform: Plains

Landform position (three-dimensional): Rise

Down-slope shape: Linear

Across-slope shape: Linear

Parent material: Sandy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 30 inches: fine sand

Bt - 30 to 60 inches: fine sandy loam

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained

Runoff class: Negligible

Capacity of the most limiting layer to transmit water (Ksat): High
(2.00 to 6.00 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum content: 5 percent

Gypsum, maximum content: 1 percent

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

Sodium adsorption ratio, maximum: 2.0

Available water supply, 0 to 60 inches: Low (about 5.1 inches)

Interpretive groups

Land capability classification (irrigated): 6e

Map Unit Description: Pyote and Maljamar fine sands---Lea County, New Mexico

Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: A
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Description of Maljamar

Setting

Landform: Plains
Landform position (three-dimensional): Rise
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Sandy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 24 inches: fine sand
Bt - 24 to 50 inches: sandy clay loam
Bkm - 50 to 60 inches: cemented material

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: 40 to 60 inches to petrocalcic
Drainage class: Well drained
Runoff class: Very low
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: 5 percent
Gypsum, maximum content: 1 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 2.0
Available water supply, 0 to 60 inches: Low (about 5.6 inches)

Interpretive groups

Land capability classification (irrigated): 6e
Land capability classification (nonirrigated): 7e
Hydrologic Soil Group: B
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Minor Components

Kermit

Percent of map unit: 10 percent
Ecological site: R070BC022NM - Sandhills

Map Unit Description: Pyote and Maljamar fine sands---Lea County, New Mexico

Hydric soil rating: No

Data Source Information

Soil Survey Area: Lea County, New Mexico
Survey Area Data: Version 19, Sep 8, 2022

National Flood Hazard Layer FIRMette



103°38'8"W 32°16'22"N



Legend

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

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) <i>Zone A, V, A99</i>
		With BFE or Depth <i>Zone AE, AO, AH, VE, AR</i>
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile <i>Zone X</i>
		Future Conditions 1% Annual Chance Flood Hazard <i>Zone X</i>
		Area with Reduced Flood Risk due to Levee. See Notes. <i>Zone X</i>
		Area with Flood Risk due to Levee <i>Zone D</i>
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard <i>Zone X</i>
		Effective LOMRs
GENERAL STRUCTURES		Area of Undetermined Flood Hazard <i>Zone D</i>
		Channel, Culvert, or Storm Sewer
OTHER FEATURES		Levee, Dike, or Floodwall
		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5 Cross Sections with 1% Annual Chance Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
MAP PANELS		Coastal Transect Baseline
		Profile Baseline
		Hydrographic Feature
MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 4/26/2023 at 3:40 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.

APPENDIX III

INITIAL C-141

FINAL C-141

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

State of New Mexico
Energy Minerals and Natural
Resources Department

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

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	nAPP2308872530
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: Cimarex Energy Co.	OGRID: 215099
Contact Name: Laci Luig	Contact Telephone: (432) 571-7800
Contact email: laci.luig@coterra.com	Incident # (assigned by OCD) nAPP2308872530
Contact mailing address: 600 N Marienfeld Street, Ste. 600 Midland, TX 79701	

Location of Release Source

Latitude 32.268621 _____ Longitude -103.630440 _____
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Triste Draw 25 Federal	Site Type: Right-of-Way
Date Release Discovered: 3/28/2023	API# (if applicable)

Unit Letter	Section	Township	Range	County
N	25	23S	32E	Lea

Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private (Name: _____)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 15	Volume Recovered (bbls) 0
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release: Other

The Lease Operator was leaving the field and found the 4" surface poly water line releasing produced water onto ETC's right-of-way. All SWD pumps in the field were immediately shut down and a pipe clamp installed until a crew arrived on location last night to remove the failed section of the line and permanently fuse the line back together. Investigation is still underway, but it appears external forces, or vehicular traffic, gouged the outside of the poly line and caused the hole. Impacted material will be scheduled for remediation in the coming weeks.

Spilled: 15 barrels water

Recovered: 0 barrels


Initial Response

- ☒ The source of the release has been stopped.
- ☒ The impacted area has been secured to protect human health and the environment.
- ☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
- ☒ All free liquids and recoverable materials have been removed and managed appropriately.

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Laci Luig _____ Title: ESH Specialist _____

Signature:  _____ Date: 3/29/2023 _____

email: laci.luig@coterra.com _____ Telephone: (432) 208-3035 _____

OCD Only

Received by: Jocelyn Harimon Date: 05/24/2023

Incident ID	nAPP2308872530
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>>55</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

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

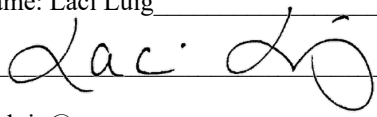
- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☐ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☒ Boring or excavation logs
- ☒ Photographs including date and GIS information
- ☒ Topographic/Aerial maps
- ☒ Laboratory data including chain of custody

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

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2308872530
District RP	
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Laci Luig _____ Title: ESH Specialist _____
Signature:  _____ Date: 5/24/2023 _____
email: laci.luig@coterra.com _____ Telephone: (432) 208-3035 _____

OCD Only

Received by: _____ Jocelyn Harimon _____ Date: _____ 05/24/2023 _____

Incident ID	nAPP2308872530
District RP	
Facility ID	
Application ID	

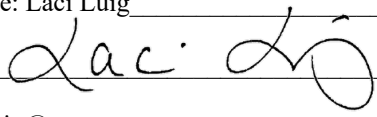
Closure

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

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

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities


I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Laci Luig _____ Title: ESH Specialist _____
Signature:  _____ Date: 5/24/2023 _____
email: laci.luig@coterra.com _____ Telephone: (432) 208-3035 _____

OCD Only

Received by: Jocelyn Harimon _____ Date: 05/24/2023 _____

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by:  _____ Date: 08/17/2023 _____
Printed Name: Nelson Velez _____ Title: Environmental Specialist – Adv _____

From: [Laci Luig](#)
To: [Michael Collier](#); [Jim Hawley](#)
Subject: FW: [EXTERNAL] nAPP2308872530 Triste Draw 25 Federal ROW sample notification
Date: Wednesday, April 26, 2023 8:01:46 AM

Good morning!

Sample notification for closure report.

[Laci Luig](#)
(432) 208-3035

From: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Sent: Tuesday, April 25, 2023 10:27 AM
To: Laci Luig <Laci.Luig@coterra.com>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Nobui, Jennifer, EMNRD <Jennifer.Nobui@emnrd.nm.gov>
Subject: RE: [EXTERNAL] nAPP2308872530 Triste Draw 25 Federal ROW sample notification

WARNING: This email originated from outside of Coterra Energy. Do not click links or open attachments unless you recognize the sender, are expecting the content and know it is safe.

Laci,

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

JH

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



From: Laci Luig <Laci.Luig@coterra.com>
Sent: Sunday, April 23, 2023 4:40 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>; BLM Spill Notifications

<blm_nm_cfo_spill@blm.gov>

Cc: Jim Hawley <JHawley@H-R-Enterprises.com>; Michael Collier <mcollier@h-r-enterprises.com>;
Dean.ericson@energytransfer.com

Subject: [EXTERNAL] nAPP2308872530 Triste Draw 25 Federal ROW sample notification

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

All,

This email serves as notification for confirmation sampling on the Triste Draw 25 Federal ROW in Lea County. Sampling is scheduled to begin as early as Wednesday, April 26th, weather and soil conditions permitting. H&R Enterprises will be onsite to collect the confirmation samples.

Thank you,



Laci Luig | Environmental, Health & Safety Specialist
T: 432.571.7810 | M: 432.208.3035 | laci.luig@coterra.com | www.coterra.com
Coterra Energy Inc. | 600 N. Marienfeld Street, Suite 600 | Midland, TX 79701

Coterra Energy Inc. is the result of the merger of Cimarex Energy Co. and Cabot Oil & Gas Corporation on October 1, 2021.

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APPENDIX IV

PHOTOGRAPHIC DOCUMENTATION

PHOTOGRAPHIC DOCUMENTATION

INITIAL PHOTOGRAPHS



PHOTOGRAPHIC DOCUMENTATION

EXCAVATION PHOTOGRAPHS



PHOTOGRAPHIC DOCUMENTATION

FINAL PHOTOGRAPHS



APPENDIX V

LABORATORY REPORTS



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

April 27, 2023

MICHAEL COLLIER
H & R ENTERPRISES
1010 GAMBLIN ROAD
HOBBS, NM 88240

RE: TRISTIE DRAW 25 R.O.W.

Enclosed are the results of analyses for samples received by the laboratory on 04/25/23 12:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene
Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

H & R ENTERPRISES
 MICHAEL COLLIER
 1010 GAMBLIN ROAD
 HOBBS NM, 88240
 Fax To: NONE

Received: 04/25/2023
 Reported: 04/27/2023
 Project Name: TRISTIE DRAW 25 R.O.W.
 Project Number: NONE GIVEN
 Project Location: NONE GIVEN

Sampling Date: 04/25/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: TT - 1 0-1' (H232001-01)

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/26/2023	ND	1.94	96.9	2.00	6.32	
Toluene*	<0.050	0.050	04/26/2023	ND	2.02	101	2.00	7.40	
Ethylbenzene*	<0.050	0.050	04/26/2023	ND	1.96	98.2	2.00	7.25	
Total Xylenes*	<0.150	0.150	04/26/2023	ND	6.17	103	6.00	5.95	
Total BTX	<0.300	0.300	04/26/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	8640	16.0	04/26/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/27/2023	ND	202	101	200	4.10	
DRO >C10-C28*	<10.0	10.0	04/27/2023	ND	163	81.3	200	6.40	
EXT DRO >C28-C36	<10.0	10.0	04/27/2023	ND					

Surrogate: 1-Chlorooctane 125 % 48.2-134

Surrogate: 1-Chlorooctadecane 157 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

H & R ENTERPRISES
 MICHAEL COLLIER
 1010 GAMBLIN ROAD
 HOBBS NM, 88240
 Fax To: NONE

Received: 04/25/2023
 Reported: 04/27/2023
 Project Name: TRISTIE DRAW 25 R.O.W.
 Project Number: NONE GIVEN
 Project Location: NONE GIVEN

Sampling Date: 04/25/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: TT - 1 2' (H232001-02)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/26/2023	ND	1.94	96.9	2.00	6.32		
Toluene*	<0.050	0.050	04/26/2023	ND	2.02	101	2.00	7.40		
Ethylbenzene*	<0.050	0.050	04/26/2023	ND	1.96	98.2	2.00	7.25		
Total Xylenes*	<0.150	0.150	04/26/2023	ND	6.17	103	6.00	5.95		
Total BTEx	<0.300	0.300	04/26/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	12000	16.0	04/26/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/26/2023	ND	202	101	200	4.10	
DRO >C10-C28*	<10.0	10.0	04/26/2023	ND	163	81.3	200	6.40	
EXT DRO >C28-C36	<10.0	10.0	04/26/2023	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 130 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

H & R ENTERPRISES
 MICHAEL COLLIER
 1010 GAMBLIN ROAD
 HOBBS NM, 88240
 Fax To: NONE

Received: 04/25/2023
 Reported: 04/27/2023
 Project Name: TRISTIE DRAW 25 R.O.W.
 Project Number: NONE GIVEN
 Project Location: NONE GIVEN

Sampling Date: 04/25/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: TT - 1 3' (H232001-03)

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/26/2023	ND	1.94	96.9	2.00	6.32	
Toluene*	<0.050	0.050	04/26/2023	ND	2.02	101	2.00	7.40	
Ethylbenzene*	<0.050	0.050	04/26/2023	ND	1.96	98.2	2.00	7.25	
Total Xylenes*	<0.150	0.150	04/26/2023	ND	6.17	103	6.00	5.95	
Total BTX	<0.300	0.300	04/26/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	10000	16.0	04/26/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/27/2023	ND	202	101	200	4.10	
DRO >C10-C28*	<10.0	10.0	04/27/2023	ND	163	81.3	200	6.40	
EXT DRO >C28-C36	<10.0	10.0	04/27/2023	ND					

Surrogate: 1-Chlorooctane 116 % 48.2-134

Surrogate: 1-Chlorooctadecane 143 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

H & R ENTERPRISES
 MICHAEL COLLIER
 1010 GAMBLIN ROAD
 HOBBS NM, 88240
 Fax To: NONE

Received: 04/25/2023
 Reported: 04/27/2023
 Project Name: TRISTIE DRAW 25 R.O.W.
 Project Number: NONE GIVEN
 Project Location: NONE GIVEN

Sampling Date: 04/25/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: TT - 1 4' (H232001-04)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/26/2023	ND	1.94	96.9	2.00	6.32		
Toluene*	<0.050	0.050	04/26/2023	ND	2.02	101	2.00	7.40		
Ethylbenzene*	<0.050	0.050	04/26/2023	ND	1.96	98.2	2.00	7.25		
Total Xylenes*	<0.150	0.150	04/26/2023	ND	6.17	103	6.00	5.95		
Total BTEx	<0.300	0.300	04/26/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4800	16.0	04/26/2023	ND	416	104	400	0.00	QM-07	

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	04/26/2023	ND	202	101	200	4.10	
DRO >C10-C28*	<10.0	10.0	04/26/2023	ND	163	81.3	200	6.40	
EXT DRO >C28-C36	<10.0	10.0	04/26/2023	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 132 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

H & R ENTERPRISES
 MICHAEL COLLIER
 1010 GAMBLIN ROAD
 HOBBS NM, 88240
 Fax To: NONE

Received: 04/25/2023
 Reported: 04/27/2023
 Project Name: TRISTIE DRAW 25 R.O.W.
 Project Number: NONE GIVEN
 Project Location: NONE GIVEN

Sampling Date: 04/25/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: TT - 1 6' (H232001-05)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/26/2023	ND	1.94	96.9	2.00	6.32		
Toluene*	<0.050	0.050	04/26/2023	ND	2.02	101	2.00	7.40		
Ethylbenzene*	<0.050	0.050	04/26/2023	ND	1.96	98.2	2.00	7.25		
Total Xylenes*	<0.150	0.150	04/26/2023	ND	6.17	103	6.00	5.95		
Total BTEx	<0.300	0.300	04/26/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6130	16.0	04/26/2023	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*	<10.0	10.0	04/27/2023	ND	202	101	200	4.10	
DRO >C10-C28*	<10.0	10.0	04/27/2023	ND	163	81.3	200	6.40	
EXT DRO >C28-C36	<10.0	10.0	04/27/2023	ND					

Surrogate: 1-Chlorooctane 117 % 48.2-134

Surrogate: 1-Chlorooctadecane 147 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

H & R ENTERPRISES
 MICHAEL COLLIER
 1010 GAMBLIN ROAD
 HOBBS NM, 88240
 Fax To: NONE

Received: 04/25/2023
 Reported: 04/27/2023
 Project Name: TRISTIE DRAW 25 R.O.W.
 Project Number: NONE GIVEN
 Project Location: NONE GIVEN

Sampling Date: 04/25/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: TT - 1 8' (H232001-06)

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/26/2023	ND	1.94	96.9	2.00	6.32		
Toluene*	<0.050	0.050	04/26/2023	ND	2.02	101	2.00	7.40		
Ethylbenzene*	<0.050	0.050	04/26/2023	ND	1.96	98.2	2.00	7.25		
Total Xylenes*	<0.150	0.150	04/26/2023	ND	6.17	103	6.00	5.95		
Total BTX	<0.300	0.300	04/26/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/26/2023	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*	<10.0	10.0	04/26/2023	ND	202	101	200	4.10	
DRO >C10-C28*	<10.0	10.0	04/26/2023	ND	163	81.3	200	6.40	
EXT DRO >C28-C36	<10.0	10.0	04/26/2023	ND					

Surrogate: 1-Chlorooctane 99.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 124 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

H & R ENTERPRISES
 MICHAEL COLLIER
 1010 GAMBLIN ROAD
 HOBBS NM, 88240
 Fax To: NONE

Received: 04/25/2023
 Reported: 04/27/2023
 Project Name: TRISTIE DRAW 25 R.O.W.
 Project Number: NONE GIVEN
 Project Location: NONE GIVEN

Sampling Date: 04/25/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: TT - 2 0-1' (H232001-07)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/26/2023	ND	1.94	96.9	2.00	6.32		
Toluene*	<0.050	0.050	04/26/2023	ND	2.02	101	2.00	7.40		
Ethylbenzene*	<0.050	0.050	04/26/2023	ND	1.96	98.2	2.00	7.25		
Total Xylenes*	<0.150	0.150	04/26/2023	ND	6.17	103	6.00	5.95		
Total BTEx	<0.300	0.300	04/26/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16600	16.0	04/26/2023	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*	<10.0	10.0	04/26/2023	ND	202	101	200	4.10	
DRO >C10-C28*	<10.0	10.0	04/26/2023	ND	163	81.3	200	6.40	
EXT DRO >C28-C36	<10.0	10.0	04/26/2023	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 129 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

H & R ENTERPRISES
 MICHAEL COLLIER
 1010 GAMBLIN ROAD
 HOBBS NM, 88240
 Fax To: NONE

Received: 04/25/2023
 Reported: 04/27/2023
 Project Name: TRISTIE DRAW 25 R.O.W.
 Project Number: NONE GIVEN
 Project Location: NONE GIVEN

Sampling Date: 04/25/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: TT - 2 2' (H232001-08)

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/26/2023	ND	1.94	96.9	2.00	6.32		
Toluene*	<0.050	0.050	04/26/2023	ND	2.02	101	2.00	7.40		
Ethylbenzene*	<0.050	0.050	04/26/2023	ND	1.96	98.2	2.00	7.25		
Total Xylenes*	<0.150	0.150	04/26/2023	ND	6.17	103	6.00	5.95		
Total BTX	<0.300	0.300	04/26/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	8930	16.0	04/26/2023	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*	<10.0	10.0	04/26/2023	ND	202	101	200	4.10	
DRO >C10-C28*	<10.0	10.0	04/26/2023	ND	163	81.3	200	6.40	
EXT DRO >C28-C36	<10.0	10.0	04/26/2023	ND					

Surrogate: 1-Chlorooctane 98.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 123 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

H & R ENTERPRISES
 MICHAEL COLLIER
 1010 GAMBLIN ROAD
 HOBBS NM, 88240
 Fax To: NONE

Received: 04/25/2023
 Reported: 04/27/2023
 Project Name: TRISTIE DRAW 25 R.O.W.
 Project Number: NONE GIVEN
 Project Location: NONE GIVEN

Sampling Date: 04/25/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: TT - 2 3' (H232001-09)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/26/2023	ND	1.94	96.9	2.00	6.32		
Toluene*	<0.050	0.050	04/26/2023	ND	2.02	101	2.00	7.40		
Ethylbenzene*	<0.050	0.050	04/26/2023	ND	1.96	98.2	2.00	7.25		
Total Xylenes*	<0.150	0.150	04/26/2023	ND	6.17	103	6.00	5.95		
Total BTEX	<0.300	0.300	04/26/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1960	16.0	04/26/2023	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*	<10.0	10.0	04/27/2023	ND	202	101	200	4.10	
DRO >C10-C28*	<10.0	10.0	04/27/2023	ND	163	81.3	200	6.40	
EXT DRO >C28-C36	<10.0	10.0	04/27/2023	ND					

Surrogate: 1-Chlorooctane 95.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 125 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

H & R ENTERPRISES
 MICHAEL COLLIER
 1010 GAMBLIN ROAD
 HOBBS NM, 88240
 Fax To: NONE

Received: 04/25/2023
 Reported: 04/27/2023
 Project Name: TRISTIE DRAW 25 R.O.W.
 Project Number: NONE GIVEN
 Project Location: NONE GIVEN

Sampling Date: 04/25/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: TT - 2 4' (H232001-10)

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/26/2023	ND	1.94	96.9	2.00	6.32		
Toluene*	<0.050	0.050	04/26/2023	ND	2.02	101	2.00	7.40		
Ethylbenzene*	<0.050	0.050	04/26/2023	ND	1.96	98.2	2.00	7.25		
Total Xylenes*	<0.150	0.150	04/26/2023	ND	6.17	103	6.00	5.95		
Total BTX	<0.300	0.300	04/26/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	336	16.0	04/26/2023	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*	<10.0	10.0	04/26/2023	ND	202	101	200	4.10	
DRO >C10-C28*	<10.0	10.0	04/26/2023	ND	163	81.3	200	6.40	
EXT DRO >C28-C36	<10.0	10.0	04/26/2023	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 130 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by 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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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>H&R Enterprises</u>				BILL TO				ANALYSIS REQUEST																			
Project Manager: <u>M. Collier</u>				P.O. #:																							
Address:				Company: <u>Cimarex Energy</u>																							
City:		State:		Zip:		Attn: <u>Laci Luig</u>																					
Phone #:		Fax #:		Address:																							
Project #:		Project Owner:		City:																							
Project Name: <u>Triste Draw 25 R.O.W. Tristie</u>				State: Zip:																							
Project Location:				Phone #:																							
Sampler Name: <u>R. Bell</u>				Fax #:																							
FOR LAB USE ONLY																											
Lab I.D.		Sample I.D.		(G/RAB OR (C)OMP.		# CONTAINERS		MATRIX				PRESERV.		SAMPLING													
								GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:				ACID/BASE: ICE / COOL OTHER:		DATE TIME													
<u>H232001</u>		<u>TI-1 0-1'</u>		<u>5</u>		<u>1</u>		<u>X</u>				<u>X</u>		<u>4/25/23</u>		<u>BTEX</u> <u>+PH</u> <u>Chlorides</u>											
<u>1000504</u>		<u>2'</u>																									
		<u>3'</u>																									
		<u>4'</u>																									
		<u>6'</u>																									
		<u>8'</u>																									
		<u>TI-2 0-1'</u>																									
		<u>2'</u>																									
		<u>3'</u>																									
		<u>4'</u>																									

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Relinquished By: <u>R. Bell</u>		Date: <u>4/25/23</u>		Received By: <u>Shodkiewicz</u>		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:	
Time: <u>1225</u>		Time: <u>1225</u>		Time: <u>1225</u>		All Results are emailed. Please provide Email address:	
Relinquished By:		Date:		Received By:		REMARKS: <u>3 Day</u>	
Time:		Time:		Time:		Turnaround Time: <input type="checkbox"/> Standard <input checked="" type="checkbox"/> Rush	
Delivered By: (Circle One)		Observed Temp. °C <u>3.12</u>		Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Bacteria (only) Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Sampler - UPS - Bus - Other:		Corrected Temp. °C <u>2.52</u>		CHECKED BY: (Initials) <u>SR</u>		Thermometer ID #113 Correction Factor -0.6°C	
						Corrected Temp. °C	

FORM-006 R 3.3 07/18/22

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



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

May 01, 2023

MICHAEL COLLIER

H & R ENTERPRISES

1010 GAMBLIN ROAD

HOBBS, NM 88240

RE: TRISTIE DRAW 25 R.O.W.

Enclosed are the results of analyses for samples received by the laboratory on 04/26/23 11:37.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Mike Snyder". The signature is fluid and cursive, with the first name "Mike" and last name "Snyder" clearly distinguishable.

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

H & R ENTERPRISES
 MICHAEL COLLIER
 1010 GAMBLIN ROAD
 HOBBS NM, 88240
 Fax To: NONE

Received:	04/26/2023	Sampling Date:	04/26/2023
Reported:	05/01/2023	Sampling Type:	Soil
Project Name:	TRISTIE DRAW 25 R.O.W.	Sampling Condition:	Cool & Intact
Project Number:	(TRISTIE)	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: S - 1 4' (H232032-01)

BTX 8021B			mg/kg		Analyzed By: JH				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/27/2023	ND	2.02	101	2.00	0.0950	
Toluene*	<0.050	0.050	04/27/2023	ND	2.04	102	2.00	0.0897	
Ethylbenzene*	<0.050	0.050	04/27/2023	ND	2.08	104	2.00	0.255	
Total Xylenes*	<0.150	0.150	04/27/2023	ND	6.36	106	6.00	0.479	
Total BTX	<0.300	0.300	04/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/28/2023	ND	432	108	400	0.00	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/26/2023	ND	195	97.7	200	0.642	
DRO >C10-C28*	<10.0	10.0	04/26/2023	ND	182	91.1	200	5.77	
EXT DRO >C28-C36	<10.0	10.0	04/26/2023	ND					

Surrogate: 1-Chlorooctane 84.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.3 % 49.1-148

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



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

H & R ENTERPRISES
 MICHAEL COLLIER
 1010 GAMBLIN ROAD
 HOBBS NM, 88240
 Fax To: NONE

Received:	04/26/2023	Sampling Date:	04/26/2023
Reported:	05/01/2023	Sampling Type:	Soil
Project Name:	TRISTIE DRAW 25 R.O.W.	Sampling Condition:	Cool & Intact
Project Number:	(TRISTIE)	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: S - 2 4' (H232032-02)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/27/2023	ND	2.02	101	2.00	0.0950		
Toluene*	<0.050	0.050	04/27/2023	ND	2.04	102	2.00	0.0897		
Ethylbenzene*	<0.050	0.050	04/27/2023	ND	2.08	104	2.00	0.255		
Total Xylenes*	<0.150	0.150	04/27/2023	ND	6.36	106	6.00	0.479		
Total BTEx	<0.300	0.300	04/27/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	336	16.0	04/28/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/26/2023	ND	195	97.7	200	0.642	
DRO >C10-C28*	<10.0	10.0	04/26/2023	ND	182	91.1	200	5.77	
EXT DRO >C28-C36	<10.0	10.0	04/26/2023	ND					

Surrogate: 1-Chlorooctane 79.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.2 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

H & R ENTERPRISES
 MICHAEL COLLIER
 1010 GAMBLIN ROAD
 HOBBS NM, 88240
 Fax To: NONE

Received:	04/26/2023	Sampling Date:	04/26/2023
Reported:	05/01/2023	Sampling Type:	Soil
Project Name:	TRISTIE DRAW 25 R.O.W.	Sampling Condition:	Cool & Intact
Project Number:	(TRISTIE)	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: S - 3 4' (H232032-03)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/27/2023	ND	2.02	101	2.00	0.0950		
Toluene*	<0.050	0.050	04/27/2023	ND	2.04	102	2.00	0.0897		
Ethylbenzene*	<0.050	0.050	04/27/2023	ND	2.08	104	2.00	0.255		
Total Xylenes*	<0.150	0.150	04/27/2023	ND	6.36	106	6.00	0.479		
Total BTEX	<0.300	0.300	04/27/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1900	16.0	04/28/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/26/2023	ND	195	97.7	200	0.642	
DRO >C10-C28*	<10.0	10.0	04/26/2023	ND	182	91.1	200	5.77	
EXT DRO >C28-C36	<10.0	10.0	04/26/2023	ND					

Surrogate: 1-Chlorooctane 90.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.7 % 49.1-148

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



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

H & R ENTERPRISES
 MICHAEL COLLIER
 1010 GAMBLIN ROAD
 HOBBS NM, 88240
 Fax To: NONE

Received: 04/26/2023
 Reported: 05/01/2023
 Project Name: TRISTIE DRAW 25 R.O.W.
 Project Number: (TRISTIE)
 Project Location: NONE GIVEN

Sampling Date: 04/26/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 4 4' (H232032-04)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/27/2023	ND	2.02	101	2.00	0.0950		
Toluene*	<0.050	0.050	04/27/2023	ND	2.04	102	2.00	0.0897		
Ethylbenzene*	<0.050	0.050	04/27/2023	ND	2.08	104	2.00	0.255		
Total Xylenes*	<0.150	0.150	04/27/2023	ND	6.36	106	6.00	0.479		
Total BTEX	<0.300	0.300	04/27/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2760	16.0	04/28/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/27/2023	ND	195	97.7	200	0.642	
DRO >C10-C28*	<10.0	10.0	04/27/2023	ND	182	91.1	200	5.77	
EXT DRO >C28-C36	<10.0	10.0	04/27/2023	ND					

Surrogate: 1-Chlorooctane 92.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

H & R ENTERPRISES
 MICHAEL COLLIER
 1010 GAMBLIN ROAD
 HOBBS NM, 88240
 Fax To: NONE

Received:	04/26/2023	Sampling Date:	04/26/2023
Reported:	05/01/2023	Sampling Type:	Soil
Project Name:	TRISTIE DRAW 25 R.O.W.	Sampling Condition:	Cool & Intact
Project Number:	(TRISTIE)	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: SW - 1 4' (H232032-05)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/27/2023	ND	2.02	101	2.00	0.0950		
Toluene*	<0.050	0.050	04/27/2023	ND	2.04	102	2.00	0.0897		
Ethylbenzene*	<0.050	0.050	04/27/2023	ND	2.08	104	2.00	0.255		
Total Xylenes*	<0.150	0.150	04/27/2023	ND	6.36	106	6.00	0.479		
Total BTEX	<0.300	0.300	04/27/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	04/28/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/27/2023	ND	195	97.7	200	0.642	
DRO >C10-C28*	<10.0	10.0	04/27/2023	ND	182	91.1	200	5.77	
EXT DRO >C28-C36	<10.0	10.0	04/27/2023	ND					

Surrogate: 1-Chlorooctane 85.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.6 % 49.1-148

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



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

H & R ENTERPRISES
 MICHAEL COLLIER
 1010 GAMBLIN ROAD
 HOBBS NM, 88240
 Fax To: NONE

Received: 04/26/2023
 Reported: 05/01/2023
 Project Name: TRISTIE DRAW 25 R.O.W.
 Project Number: (TRISTIE)
 Project Location: NONE GIVEN

Sampling Date: 04/26/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 2 4' (H232032-06)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/27/2023	ND	2.02	101	2.00	0.0950	
Toluene*	<0.050	0.050	04/27/2023	ND	2.04	102	2.00	0.0897	
Ethylbenzene*	<0.050	0.050	04/27/2023	ND	2.08	104	2.00	0.255	
Total Xylenes*	<0.150	0.150	04/27/2023	ND	6.36	106	6.00	0.479	
Total BTEx	<0.300	0.300	04/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	04/28/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/27/2023	ND	195	97.7	200	0.642	
DRO >C10-C28*	<10.0	10.0	04/27/2023	ND	182	91.1	200	5.77	
EXT DRO >C28-C36	<10.0	10.0	04/27/2023	ND					

Surrogate: 1-Chlorooctane 84.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.3 % 49.1-148

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



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

H & R ENTERPRISES
 MICHAEL COLLIER
 1010 GAMBLIN ROAD
 HOBBS NM, 88240
 Fax To: NONE

Received: 04/26/2023
 Reported: 05/01/2023
 Project Name: TRISTIE DRAW 25 R.O.W.
 Project Number: (TRISTIE)
 Project Location: NONE GIVEN

Sampling Date: 04/26/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 3 4' (H232032-07)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/27/2023	ND	2.02	101	2.00	0.0950	
Toluene*	<0.050	0.050	04/27/2023	ND	2.04	102	2.00	0.0897	
Ethylbenzene*	<0.050	0.050	04/27/2023	ND	2.08	104	2.00	0.255	
Total Xylenes*	<0.150	0.150	04/27/2023	ND	6.36	106	6.00	0.479	
Total BTEx	<0.300	0.300	04/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/28/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/27/2023	ND	195	97.7	200	0.642	
DRO >C10-C28*	<10.0	10.0	04/27/2023	ND	182	91.1	200	5.77	
EXT DRO >C28-C36	<10.0	10.0	04/27/2023	ND					

Surrogate: 1-Chlorooctane 85.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.2 % 49.1-148

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



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

H & R ENTERPRISES
 MICHAEL COLLIER
 1010 GAMBLIN ROAD
 HOBBS NM, 88240
 Fax To: NONE

Received: 04/26/2023
 Reported: 05/01/2023
 Project Name: TRISTIE DRAW 25 R.O.W.
 Project Number: (TRISTIE)
 Project Location: NONE GIVEN

Sampling Date: 04/26/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 4 4' (H232032-08)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/27/2023	ND	2.02	101	2.00	0.0950	
Toluene*	<0.050	0.050	04/27/2023	ND	2.04	102	2.00	0.0897	
Ethylbenzene*	<0.050	0.050	04/27/2023	ND	2.08	104	2.00	0.255	
Total Xylenes*	<0.150	0.150	04/27/2023	ND	6.36	106	6.00	0.479	
Total BTEx	<0.300	0.300	04/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	04/28/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/27/2023	ND	195	97.7	200	0.642	
DRO >C10-C28*	<10.0	10.0	04/27/2023	ND	182	91.1	200	5.77	
EXT DRO >C28-C36	<10.0	10.0	04/27/2023	ND					

Surrogate: 1-Chlorooctane 88.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.7 % 49.1-148

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



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

H & R ENTERPRISES
 MICHAEL COLLIER
 1010 GAMBLIN ROAD
 HOBBS NM, 88240
 Fax To: NONE

Received: 04/26/2023
 Reported: 05/01/2023
 Project Name: TRISTIE DRAW 25 R.O.W.
 Project Number: (TRISTIE)
 Project Location: NONE GIVEN

Sampling Date: 04/26/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BG - 1 0-1' (H232032-09)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/27/2023	ND	2.02	101	2.00	0.0950		
Toluene*	<0.050	0.050	04/27/2023	ND	2.04	102	2.00	0.0897		
Ethylbenzene*	<0.050	0.050	04/27/2023	ND	2.08	104	2.00	0.255		
Total Xylenes*	<0.150	0.150	04/27/2023	ND	6.36	106	6.00	0.479		
Total BTEX	<0.300	0.300	04/27/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	04/28/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/27/2023	ND	195	97.7	200	0.642	
DRO >C10-C28*	<10.0	10.0	04/27/2023	ND	182	91.1	200	5.77	
EXT DRO >C28-C36	<10.0	10.0	04/27/2023	ND					

Surrogate: 1-Chlorooctane 90.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.2 % 49.1-148

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



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

H & R ENTERPRISES
 MICHAEL COLLIER
 1010 GAMBLIN ROAD
 HOBBS NM, 88240
 Fax To: NONE

Received: 04/26/2023
 Reported: 05/01/2023
 Project Name: TRISTIE DRAW 25 R.O.W.
 Project Number: (TRISTIE)
 Project Location: NONE GIVEN

Sampling Date: 04/26/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BG - 2 0-1' (H232032-10)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/28/2023	ND	2.17	108	2.00	10.7		
Toluene*	<0.050	0.050	04/28/2023	ND	2.24	112	2.00	11.2		
Ethylbenzene*	<0.050	0.050	04/28/2023	ND	2.20	110	2.00	10.9		
Total Xylenes*	<0.150	0.150	04/28/2023	ND	6.80	113	6.00	10.6		
Total BTEx	<0.300	0.300	04/28/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	04/28/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/27/2023	ND	195	97.7	200	0.642	
DRO >C10-C28*	<10.0	10.0	04/27/2023	ND	182	91.1	200	5.77	
EXT DRO >C28-C36	<10.0	10.0	04/27/2023	ND					

Surrogate: 1-Chlorooctane 82.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.1 % 49.1-148

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



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

H & R ENTERPRISES
 MICHAEL COLLIER
 1010 GAMBLIN ROAD
 HOBBS NM, 88240
 Fax To: NONE

Received: 04/26/2023
 Reported: 05/01/2023
 Project Name: TRISTIE DRAW 25 R.O.W.
 Project Number: (TRISTIE)
 Project Location: NONE GIVEN

Sampling Date: 04/26/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BG - 3 0-1' (H232032-11)

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/28/2023	ND	2.17	108	2.00	10.7		
Toluene*	<0.050	0.050	04/28/2023	ND	2.24	112	2.00	11.2		
Ethylbenzene*	<0.050	0.050	04/28/2023	ND	2.20	110	2.00	10.9		
Total Xylenes*	<0.150	0.150	04/28/2023	ND	6.80	113	6.00	10.6		
Total BTX	<0.300	0.300	04/28/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	04/28/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/27/2023	ND	195	97.7	200	0.642	
DRO >C10-C28*	<10.0	10.0	04/27/2023	ND	182	91.1	200	5.77	
EXT DRO >C28-C36	<10.0	10.0	04/27/2023	ND					

Surrogate: 1-Chlorooctane 77.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.1 % 49.1-148

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



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Analytical Results For:

H & R ENTERPRISES
 MICHAEL COLLIER
 1010 GAMBLIN ROAD
 HOBBS NM, 88240
 Fax To: NONE

Received: 04/26/2023
 Reported: 05/01/2023
 Project Name: TRISTIE DRAW 25 R.O.W.
 Project Number: (TRISTIE)
 Project Location: NONE GIVEN

Sampling Date: 04/26/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BG - 4 0-1' (H232032-12)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/28/2023	ND	2.17	108	2.00	10.7		
Toluene*	<0.050	0.050	04/28/2023	ND	2.24	112	2.00	11.2		
Ethylbenzene*	<0.050	0.050	04/28/2023	ND	2.20	110	2.00	10.9		
Total Xylenes*	<0.150	0.150	04/28/2023	ND	6.80	113	6.00	10.6		
Total BTEx	<0.300	0.300	04/28/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/28/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/27/2023	ND	195	97.7	200	0.642	
DRO >C10-C28*	<10.0	10.0	04/27/2023	ND	182	91.1	200	5.77	
EXT DRO >C28-C36	<10.0	10.0	04/27/2023	ND					

Surrogate: 1-Chlorooctane 83.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.4 % 49.1-148

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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.
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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A handwritten signature in black ink, appearing to read "Mike Snyder", is written over a horizontal line.

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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

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

[illegible]

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

District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720

District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 220257

CONDITIONS

Operator: CIMAREX ENERGY CO. 6001 Deauville Blvd Midland, TX 79706	OGRID: 215099
	Action Number: 220257
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
nvelez	None	8/17/2023