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## Remediation and Closure Report

Chosa Draw 27 Fed Com #003  
Incident# nAPP2135438366  
Eddy County, New Mexico

### Prepared For:

Cimarex Energy Co. of Colorado  
6001 Deauville Blvd. Suite 300N  
Midland, TX 79706

### Prepared By:

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

**August 4, 2023**

Mr. Mike Bratcher  
**NMOCD**  
1220 S. St. Francis Dr.  
Santa Fe, NM 87505

Subject: **Remediation and Closure Report**  
Chosa Draw 27 Fed Com #003  
Eddy County, NM

Dear Mr. Bratcher,

Cimarex Energy Co. of Colorado 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 Chosa Draw 27 Fed Com #003 is located approximately 22 miles South of Carlsbad, New Mexico. The legal location for this release is Unit Letter I, Section 27, Township 25 South and Range 26 East in Lea County, New Mexico. More specifically the latitude and longitude for the release are 32.10036 North and -104.27481 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 Gypsum Land-Cottonwood complex, 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 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 14-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.

<b>Approximate Depth to Groundwater</b>	<b>14 Feet/BGS</b>
---	--------------------

<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 checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Within an unstable area
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Within a 100-year floodplain

As this is a remediation in a high karst area as well as in an area with a depth to groundwater of less than 50-feet BGS, 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**
≤ 50 feet	Chloride **	EPA 300.0 or SM4500 CIB	600 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	100 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 December 17, 2021, it was discovered that a man way cover on the back of a fiberglass tank had a slight leak after repairs on the man way cover gasket took place. The leak released a total of 15 barrels (bbls) of produced water into the containment. All remaining fluid in the containment was recovered but a liner inspection revealed that several holes were present in the liner.

### Site Assessment and Reclamation Activities

H&R mobilized personnel to begin site assessment, sampling, and reclamation activities of the location. Grab samples were obtained from the soil where the containment was by way of test trenching and transported to Cardinal Laboratory for analysis, and the results of that analysis are presented in the following data table. Initial site assessment sampling locations are illustrated on Site Assessment Map, [Appendix I](#). 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	Cl mg/kg
NMOCD Table 1 Closure Criteria 19.15.29 NMAC			50 mg/kg	10 mg/kg	100 mg/kg			100 mg/kg	600 mg/kg
BH-5	5/30/2023	0-1'	ND	ND	ND	ND	ND	0	80
		2'	ND	ND	ND	ND	ND	0	48
		3'	ND	ND	ND	ND	ND	0	32
		4'	ND	ND	ND	ND	ND	0	16
BH-6	5/30/2023	0-1'	ND	ND	ND	ND	ND	0	256
		2'	ND	ND	ND	ND	ND	0	336
		3'	ND	ND	ND	ND	ND	0	496
		4'	ND	ND	ND	ND	ND	0	352
		5'	ND	ND	ND	ND	ND	0	112
		6'	ND	ND	ND	ND	ND	0	32
BH-7	5/30/2023	0-1'	ND	ND	ND	61.8	ND	61.8	1960
		2'	ND	ND	ND	197	ND	197	464
		3'	ND	ND	ND	ND	ND	0	432
		4'	ND	ND	ND	ND	ND	0	160
BH-8	5/30/2023	0-1'	ND	ND	ND	ND	ND	0	1090
		2'	ND	ND	ND	ND	ND	0	768
		3'	ND	ND	ND	ND	ND	0	352
		4'	ND	ND	ND	ND	ND	0	192

ND = Analyte Not Detected BH = Bore Hole Sample

Based on the results of our site assessment and upon client authorization, excavation activities of the impacted area commenced. Confirmation composite samples were collected from the bottom and sidewalls to confirm that NMOCD closure criteria had been met, transported to Cardinal Laboratory for analysis, and 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	Cl mg/kg
NMOCD Table 1 Closure Criteria 19.15.29 NMAC			50 mg/kg	10 mg/kg	100 mg/kg			100 mg/kg	600 mg/kg
S-1	7/21/2023	2.5'	ND	ND	ND	ND	ND	0	112
S-2	7/21/2023	2.5'	ND	ND	ND	ND	ND	0	160
S-3	7/21/2023	2.5'	ND	ND	ND	ND	ND	0	144
S-4	7/21/2023	2.5'	ND	ND	ND	ND	ND	0	128
S-5	7/21/2023	2.5'	ND	ND	ND	ND	ND	0	144
S-6	7/21/2023	2.5'	ND	ND	ND	ND	ND	0	128
S-7	7/21/2023	2.5'	ND	ND	ND	ND	ND	0	160
S-8	7/21/2023	2.5'	ND	ND	ND	ND	ND	0	176
S-9	7/21/2023	2.5'	ND	ND	ND	ND	ND	0	160
S-10	7/21/2023	2.5'	ND	ND	ND	ND	ND	0	160
S-11	7/21/2023	2.5'	ND	ND	ND	ND	ND	0	176
S-12	7/21/2023	2.5'	ND	ND	ND	ND	ND	0	192
S-13	7/21/2023	2.5'	ND	ND	ND	ND	ND	0	160
S-14	7/21/2023	2.5'	ND	ND	ND	ND	ND	0	144
S-15	7/21/2023	2.5'	ND	ND	ND	ND	ND	0	96
S-16	7/21/2023	2.5'	ND	ND	ND	ND	ND	0	112
S-17	7/21/2023	2.5'	ND	ND	ND	ND	ND	0	128
S-18	7/21/2023	2.5'	ND	ND	ND	ND	ND	0	144
S-19	7/21/2023	2.5'	ND	ND	ND	ND	ND	0	96
S-20	7/21/2023	2.5'	ND	ND	ND	ND	ND	0	128
S-21	7/21/2023	2.5'	ND	ND	ND	ND	ND	0	128
S-22	7/21/2023	2.5'	ND	ND	ND	ND	ND	0	112
S-23	7/21/2023	2.5'	ND	ND	ND	ND	ND	0	128
S-24	7/21/2023	2.5'	ND	ND	ND	ND	ND	0	128
SW-1	7/21/2023	2.5'	ND	ND	ND	ND	ND	0	32
SW-2	7/21/2023	2.5'	ND	ND	ND	ND	ND	0	32
SW-3	7/21/2023	2.5'	ND	ND	ND	ND	ND	0	32
SW-4	7/21/2023	2.5'	ND	ND	ND	ND	ND	0	48
SW-5	7/21/2023	2.5'	ND	ND	ND	ND	ND	0	32
SW-6	7/21/2023	2.5'	ND	ND	ND	ND	ND	0	32

ND = Analyte Not Detected S = Bottom Composite Sample SW = Sidewall Composite Sample

## Remedial Actions

- The impacted areas in the vicinity of sample points BH-7 and BH-8 were excavated to a total depth of 2.5-feet BGS.
- Composite confirmation samples were obtained from the bottom and sidewalls of the excavated area to verify that all contaminants above closure criteria had been removed.
- All the excavated material (approximately 580yds) was hauled to Lea Land, a NMOCD approved solid waste disposal facility.
- The excavated areas on the well pad were backfilled with like material at depth and brought to grade, machine compacted, ripped, and contoured to match the surrounding location as this site was plugged, abandoned, and set for reclamation prior to remediation beginning.
- 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
- 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

# Chosa Draw 27 Fed Com #003

Cimarex Energy Co. of Colorado  
Incident# nAPP2135438366  
Eddy County, NM  
Site Assessment Map

## Legend

▣ Bore Hole Sample

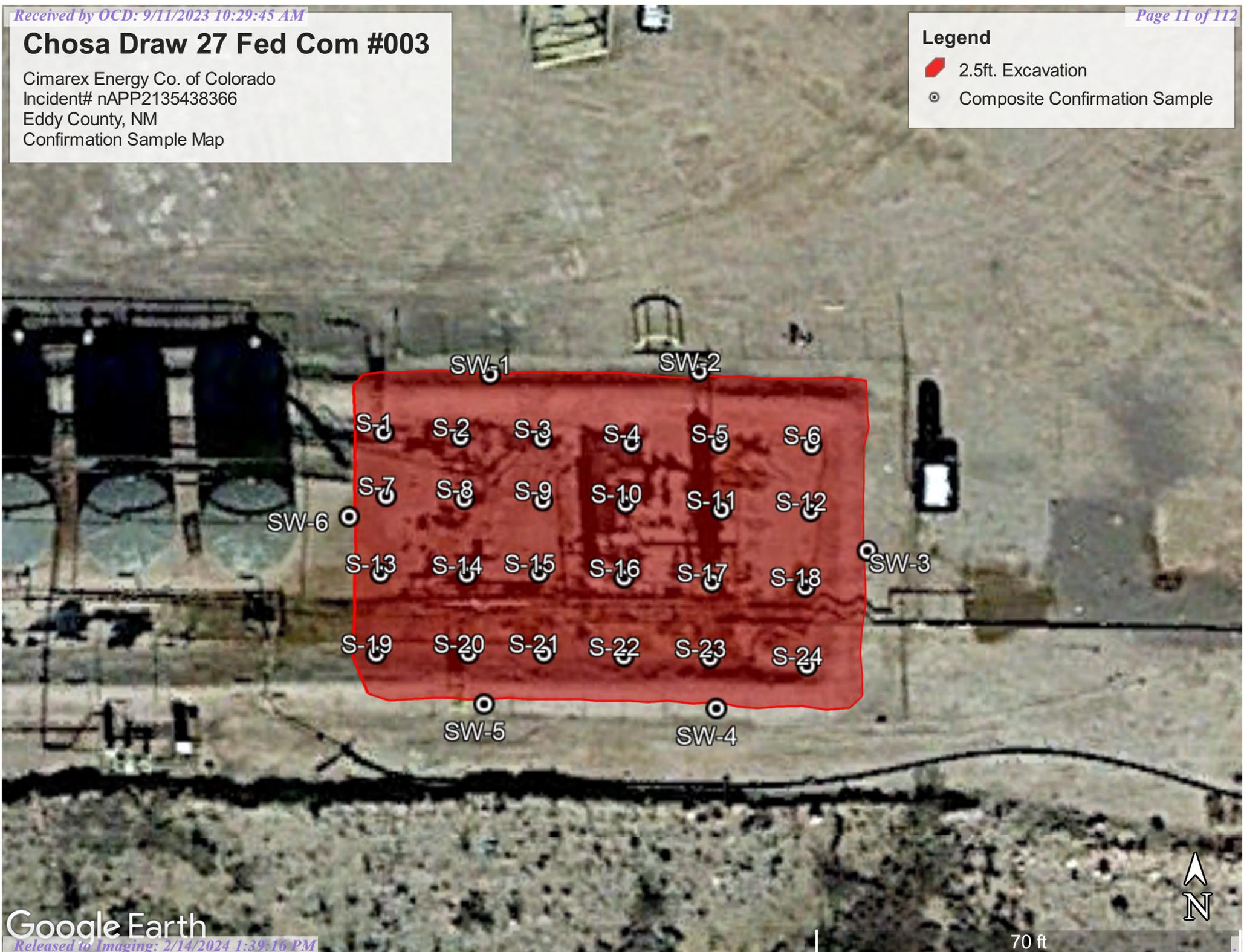


# Chosa Draw 27 Fed Com #003

Cimarex Energy Co. of Colorado  
Incident# nAPP2135438366  
Eddy County, NM  
Confirmation Sample Map

**Legend**

-  2.5ft. Excavation
-  Composite Confirmation Sample

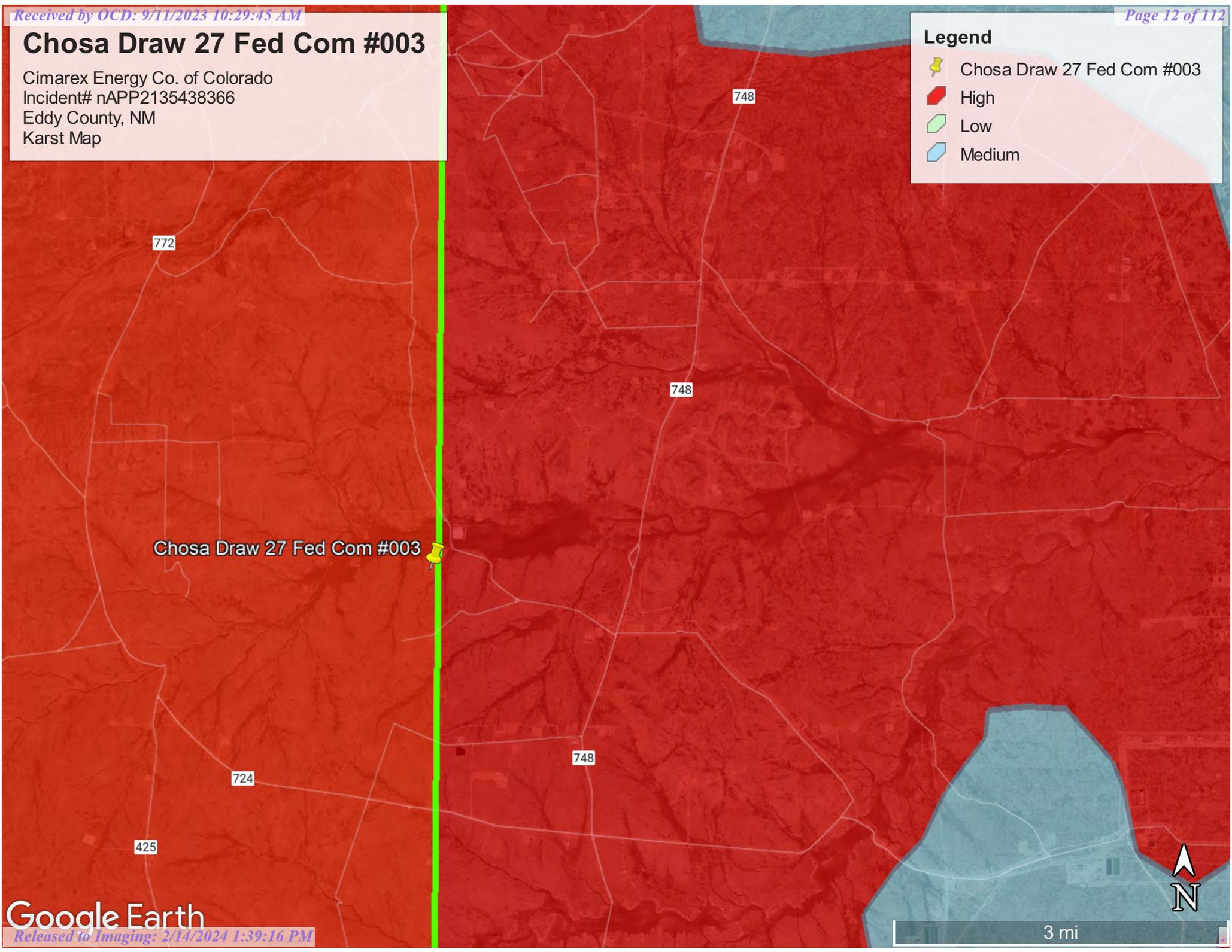


# Chosa Draw 27 Fed Com #003

Cimarex Energy Co. of Colorado  
Incident# nAPP2135438366  
Eddy County, NM  
Karst Map

**Legend**

-  Chosa Draw 27 Fed Com #003
-  High
-  Low
-  Medium

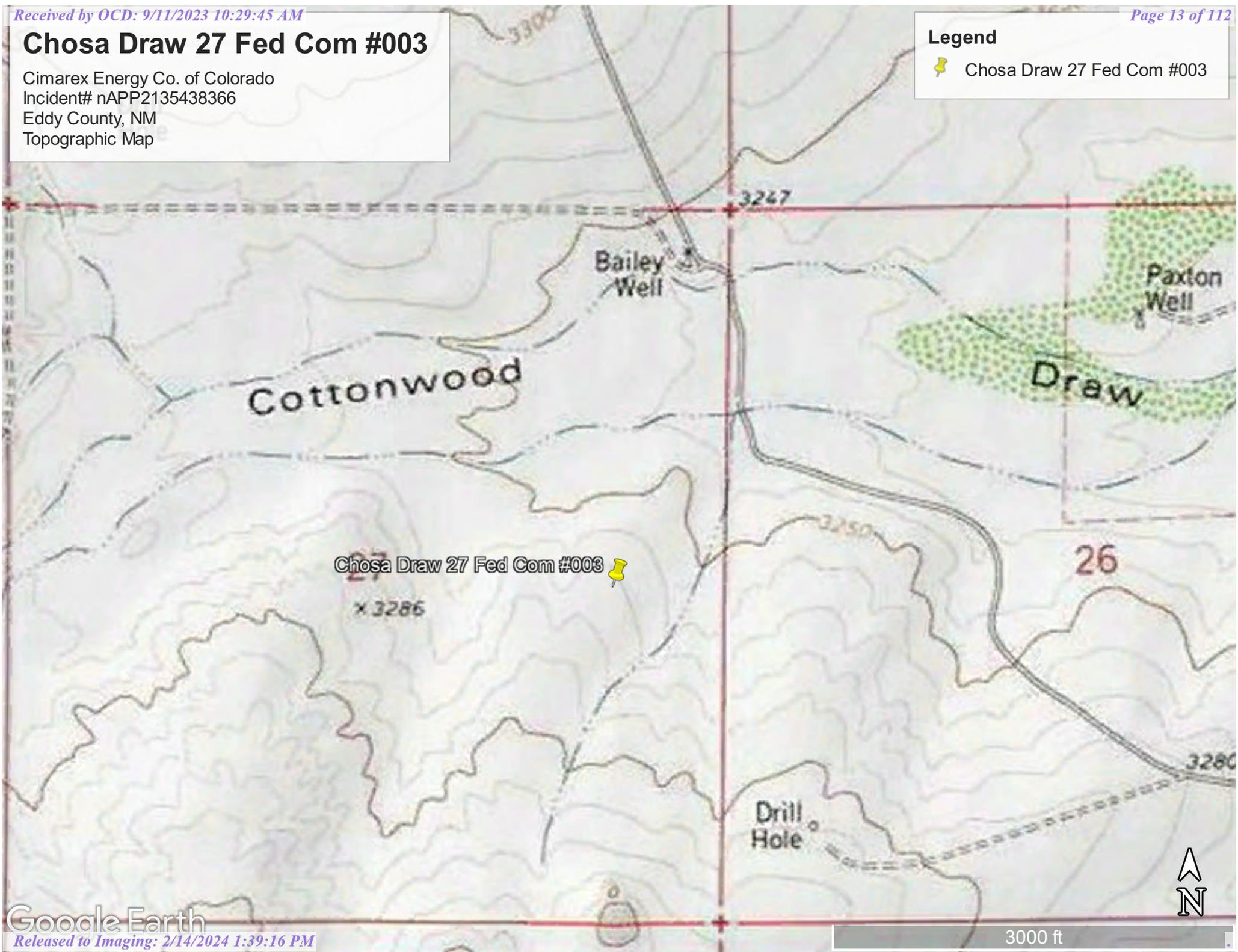


# Chosa Draw 27 Fed Com #003

Cimarex Energy Co. of Colorado  
Incident# nAPP2135438366  
Eddy County, NM  
Topographic Map

**Legend**

-  Chosa Draw 27 Fed Com #003

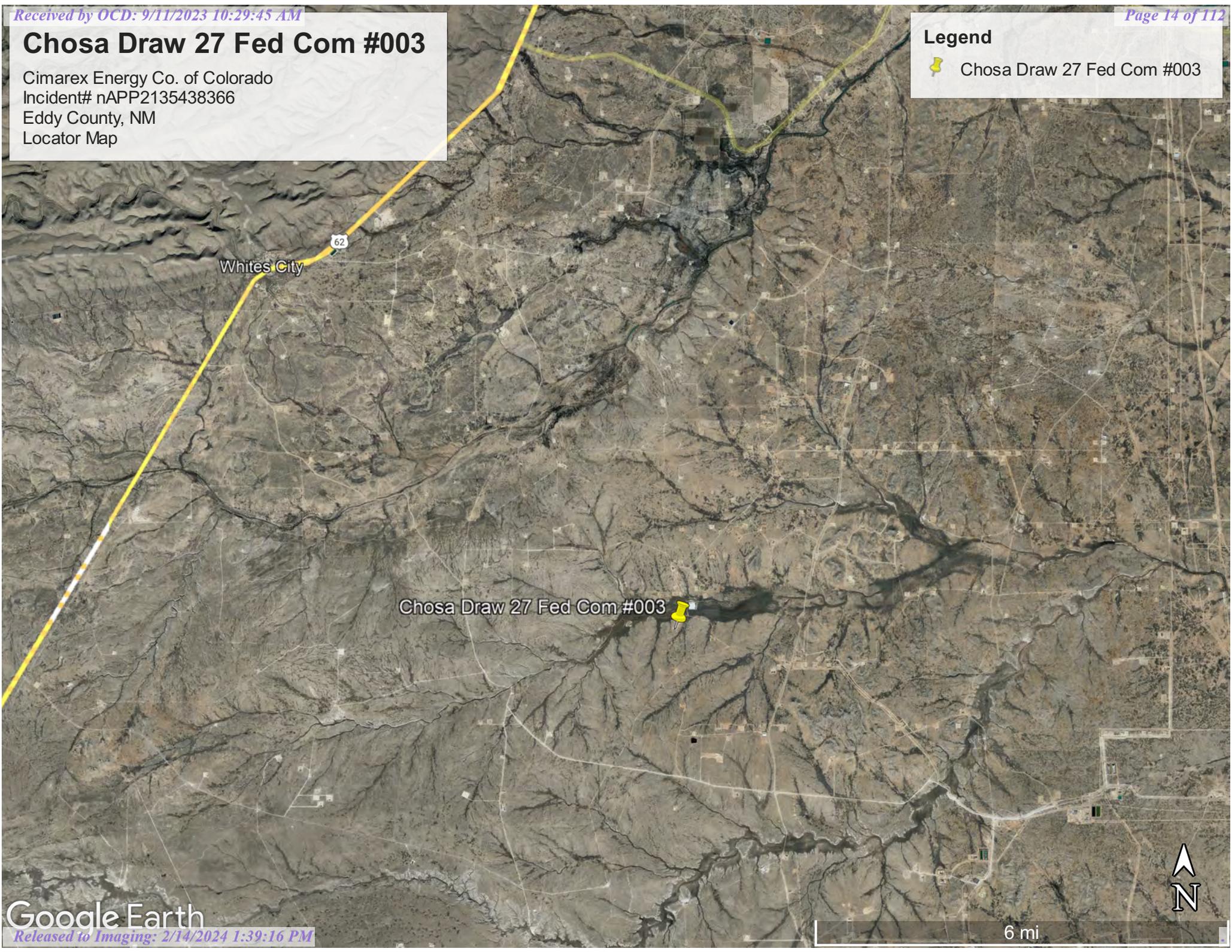


# Chosa Draw 27 Fed Com #003

Cimarex Energy Co. of Colorado  
Incident# nAPP2135438366  
Eddy County, NM  
Locator Map

**Legend**

-  Chosa Draw 27 Fed Com #003



Whites City

62

Chosa Draw 27 Fed Com #003



6 mi

# APPENDIX II

**GROUNDWATER DATA**

**SOIL SURVEY**

**FEMA FLOOD ZONE**



# 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
<a href="#">C_04329 POD1</a>		C	ED	2	2	2	27	25S	26E	568577	3552567	787	57	14	43
<a href="#">C_03655 POD3</a>		CUB	ED	1	4	4	22	25S	26E	568458	3553019	1226			
<a href="#">C_02220</a>		CUB	ED	3	1	2	26	25S	26E	569598	3552352*	1294	35		
<a href="#">C_01368</a>		C	ED		1	1	22	25S	26E	567261	3554059*	2549	143	118	25
<a href="#">C_03654 POD1</a>		CUB	ED	2	3	1	24	25S	26E	570654	3553773	2977			
<a href="#">C_02221</a>		CUB	ED	4	3	2	25	25S	26E	571412	3551961*	2986	35		

Average Depth to Water: **66 feet**  
 Minimum Depth: **14 feet**  
 Maximum Depth: **118 feet**

**Record Count:** 6

**Basin/County Search:**

**County:** Eddy

**UTMNAD83 Radius Search (in meters):**

**Easting (X):** 568430.55

**Northing (Y):** 3551793.19

**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.

5/19/23 9:35 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER

Map Unit Description: Gypsum land-Cottonwood complex, 0 to 3 percent slopes---Eddy Area,  
New Mexico

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## Eddy Area, New Mexico

### GC—Gypsum land-Cottonwood complex, 0 to 3 percent slopes

#### Map Unit Setting

*National map unit symbol:* 1w4g  
*Elevation:* 1,250 to 5,000 feet  
*Mean annual precipitation:* 10 to 25 inches  
*Mean annual air temperature:* 57 to 66 degrees F  
*Frost-free period:* 190 to 225 days  
*Farmland classification:* Not prime farmland

#### Map Unit Composition

*Gypsum land:* 60 percent  
*Cottonwood and similar soils:* 30 percent  
*Minor components:* 10 percent  
*Estimates are based on observations, descriptions, and transects of the mapunit.*

#### Description of Gypsum Land

##### Setting

*Landform:* Ridges, plains, hills  
*Landform position (two-dimensional):* Shoulder, backslope, footslope, toeslope  
*Landform position (three-dimensional):* Side slope, head slope, nose slope, crest  
*Down-slope shape:* Convex  
*Across-slope shape:* Linear  
*Parent material:* Residuum weathered from gypsum

##### Interpretive groups

*Land capability classification (irrigated):* None specified  
*Land capability classification (nonirrigated):* 8s  
*Hydric soil rating:* No

#### Description of Cottonwood

##### Setting

*Landform:* Ridges, hills  
*Landform position (two-dimensional):* Shoulder, backslope, footslope, toeslope  
*Landform position (three-dimensional):* Side slope, head slope, nose slope, crest  
*Down-slope shape:* Convex  
*Across-slope shape:* Linear  
*Parent material:* Residuum weathered from gypsum

##### Typical profile

*H1 - 0 to 8 inches:* loam  
*H2 - 8 to 60 inches:* bedrock

Map Unit Description: Gypsum land-Cottonwood complex, 0 to 3 percent slopes---Eddy Area,  
New Mexico

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### Properties and qualities

*Slope:* 0 to 3 percent

*Depth to restrictive feature:* 3 to 12 inches to paralithic bedrock

*Drainage class:* Well drained

*Runoff class:* Low

*Capacity of the most limiting layer to transmit water*

*(Ksat):* Moderately high to high (0.20 to 2.00 in/hr)

*Depth to water table:* More than 80 inches

*Frequency of flooding:* None

*Frequency of ponding:* None

*Calcium carbonate, maximum content:* 15 percent

*Gypsum, maximum content:* 5 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 1.2 inches)

### Interpretive groups

*Land capability classification (irrigated):* None specified

*Land capability classification (nonirrigated):* 6s

*Hydrologic Soil Group:* D

*Ecological site:* R070BB006NM - Gyp Upland

*Hydric soil rating:* No

### Minor Components

#### Rock outcrop

*Percent of map unit:* 5 percent

*Hydric soil rating:* No

#### Cottonwood

*Percent of map unit:* 5 percent

*Ecological site:* R070BC033NM - Salty Bottomland

*Hydric soil rating:* No

## Data Source Information

Soil Survey Area: Eddy Area, New Mexico

Survey Area Data: Version 18, Sep 8, 2022

# National Flood Hazard Layer FIRMMette



104°16'48"W 32°6'17"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
		Levee, Dike, or Floodwall
OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance
		17.5 Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
MAP PANELS		Coastal Transect Baseline
		Profile Baseline
		Hydrographic Feature
		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 5/19/2023 at 12:24 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	nAPP2135438366
District RP	
Facility ID	fAPP2202535195
Application ID	

## Release Notification

### Responsible Party

Responsible Party: Cimarex Energy Co. of Colorado	OGRID: 162683
Contact Name: Laci Luig	Contact Telephone: (432) 571-7800
Contact email: lluig@cimarex.com	Incident # (assigned by OCD) nAPP2135438366
Contact mailing address: 600 N Marienfeld Street, Ste. 600 Midland, TX 79701	

### Location of Release Source

Latitude 32.10036 \_\_\_\_\_ Longitude -104.27481 \_\_\_\_\_  
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Chosa Draw 27 Federal Com 3	Site Type: Battery
Date Release Discovered: 12/17/2021	API# (if applicable)

Unit Letter	Section	Township	Range	County
I	27	25S	26E	Eddy

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) 15
	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: Human Error

A lease operator checking his route found a man way cover on the back of a fiberglass produced water tank leaking slightly. The cover gasket had been replaced earlier in the week and the leak developed after that repair. Released 15 barrels produced water. A vacuum transport recovered all fluid from containment. The containment will be washed and a liner inspection will be scheduled.

Incident ID	nAPP2135438366
District RP	
Facility ID	fAPP2202535195
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?  <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? By: Tell Montoya To: Mike Bratcher, Chad Hensley, Robert Hamlet and BLM By: Email	

### Initial Response

*The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury*

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.
If all the actions described above have <u>not</u> been undertaken, explain why:
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: 12/20/2021 _____ email: llui@cimarex.com _____ Telephone: (432) 208-3035 _____
<p><b><u>OCD Only</u></b></p> Received by: _____ Date: _____

Incident ID	
District RP	
Facility ID	
Application ID	

## Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	_____ (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input 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 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 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 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 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 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 type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input 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.

<p><b>Characterization Report Checklist:</b> <i>Each of the following items must be included in the report.</i></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.</li> <li><input type="checkbox"/> Field data</li> <li><input type="checkbox"/> Data table of soil contaminant concentration data</li> <li><input type="checkbox"/> Depth to water determination</li> <li><input type="checkbox"/> Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release</li> <li><input type="checkbox"/> Boring or excavation logs</li> <li><input type="checkbox"/> Photographs including date and GIS information</li> <li><input type="checkbox"/> Topographic/Aerial maps</li> <li><input type="checkbox"/> Laboratory data including chain of custody</li> </ul>
--

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.

Oil Conservation Division

Page 4

Incident ID	
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: \_\_\_\_\_ Title: \_\_\_\_\_

Signature: *[Handwritten Signature]* Date: \_\_\_\_\_

email: \_\_\_\_\_ Telephone: \_\_\_\_\_

**OCD Only**

Received by: Shelly Wells Date: 9/11/2023

Incident ID	
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: \_\_\_\_\_ Title: \_\_\_\_\_  
 Signature: *Shelly Wells* Date: \_\_\_\_\_  
 email: \_\_\_\_\_ Telephone: \_\_\_\_\_

**OCD Only**

Received by: Shelly Wells Date: 9/11/2023

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: *Scott Rodgers* Date: 02/14/2024  
 Printed Name: Scott Rodgers Title: Environmental Specialist Adv.

## Ashton Thielke

---

**From:** Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>  
**Sent:** Wednesday, July 19, 2023 4:49 PM  
**To:** Ashton Thielke  
**Cc:** Bratcher, Michael, EMNRD; Velez, Nelson, EMNRD  
**Subject:** RE: [EXTERNAL] NAPP2135438366 - Chosa Draw 27 Federal Com 3 - Confirmation Sampling 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.

Good afternoon,

The OCD has received your notification. Notification requirements are **two business days**, per rule. You may proceed on your schedule. This, and all correspondence, should be included in the closure report to ensure inclusion in the project file.

Thank you,

Shelly

[Shelly Wells](#) \* Environmental Specialist-Advanced  
Administrative Permitting Program  
EMNRD-Oil Conservation Division  
1220 S. St. Francis Drive | Santa Fe, NM 87505  
(505)469-7520 | [Shelly.Wells@emnrd.nm.gov](mailto:Shelly.Wells@emnrd.nm.gov)  
<http://www.emnrd.state.nm.us/OCD/>

---

**From:** Ashton Thielke <Ashton.Thielke@coterra.com>  
**Sent:** Wednesday, July 19, 2023 2:24 PM  
**To:** Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>; Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>  
**Cc:** Laci Luig <Laci.Luig@coterra.com>  
**Subject:** [EXTERNAL] NAPP2135438366 - Chosa Draw 27 Federal Com 3 - Confirmation Sampling Notification

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

Good morning,

This email serves as notification for confirmation sampling on the Chosa Draw 27 Federal Com 3. Confirmation sampling is scheduled to begin as early as 10:00 (MST) Friday, July 21<sup>st</sup>, weather and soil conditions permitting. H&R will be onsite to collect the confirmation samples.

Coordinates: 32.10036, -104.27481

Thank you,



**Ashton Thielke** | PBU - Environmental Consultant

T: 432.813.8988 | M: 281.753.5659 | [Ashton.Thielke@coterra.com](mailto:Ashton.Thielke@coterra.com) | [www.coterra.com](http://www.coterra.com)

Coterra Energy Inc. | 6001 Deauville Blvd., Suite 300N | Midland, TX 79706

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

BOREHOLE PHOTOGRAPHS



BH-5



BH-6

PHOTOGRAPHIC DOCUMENTATION

**BOREHOLE PHOTOGRAPHS**



**BH-7**



**BH-8**

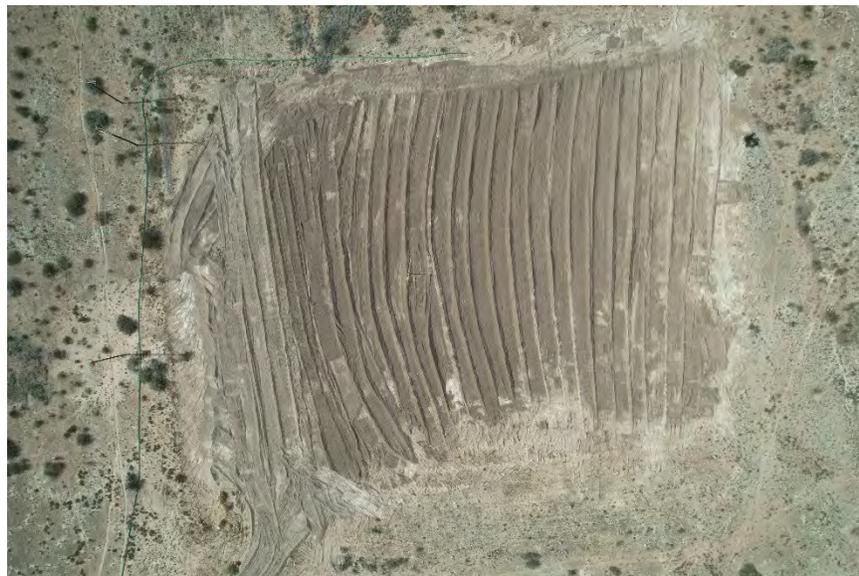
PHOTOGRAPHIC DOCUMENTATION

EXCAVATION PHOTOGRAPHS



PHOTOGRAPHIC DOCUMENTATION

FINAL PHOTOGRAPHS



PHOTOGRAPHIC DOCUMENTATION

FINAL PHOTOGRAPHS



# APPENDIX V

## LABORATORY REPORTS



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

June 07, 2023

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

RE: CHOSA DRAW 27 FED COM #003 (CHOSA)

Enclosed are the results of analyses for samples received by the laboratory on 06/02/23 15:10.

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](http://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,

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:	06/02/2023	Sampling Date:	05/30/2023
Reported:	06/07/2023	Sampling Type:	Soil
Project Name:	CHOSA DRAW 27 FED COM #003 (CHOS	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY COUNTY, NM		

**Sample ID: BH - 1 0-1' (H232816-01)**

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	06/05/2023	ND	1.92	95.9	2.00	2.12	
Toluene*	<0.050	0.050	06/05/2023	ND	1.98	99.0	2.00	2.51	
Ethylbenzene*	<0.050	0.050	06/05/2023	ND	2.03	101	2.00	1.18	
Total Xylenes*	<0.150	0.150	06/05/2023	ND	5.99	99.8	6.00	0.595	
Total BTEX	<0.300	0.300	06/05/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	144	16.0	06/05/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/05/2023	ND	171	85.6	200	20.8	
DRO >C10-C28*	<10.0	10.0	06/05/2023	ND	175	87.3	200	12.3	
EXT DRO >C28-C36	<10.0	10.0	06/05/2023	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 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:	06/02/2023	Sampling Date:	05/30/2023
Reported:	06/07/2023	Sampling Type:	Soil
Project Name:	CHOSA DRAW 27 FED COM #003 (CHOS	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY COUNTY, NM		

**Sample ID: BH - 1 2' (H232816-02)**

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	06/05/2023	ND	1.92	95.9	2.00	2.12	
Toluene*	<0.050	0.050	06/05/2023	ND	1.98	99.0	2.00	2.51	
Ethylbenzene*	<0.050	0.050	06/05/2023	ND	2.03	101	2.00	1.18	
Total Xylenes*	<0.150	0.150	06/05/2023	ND	5.99	99.8	6.00	0.595	
Total BTEX	<0.300	0.300	06/05/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	06/05/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/05/2023	ND	171	85.6	200	20.8	
DRO >C10-C28*	<10.0	10.0	06/05/2023	ND	175	87.3	200	12.3	
EXT DRO >C28-C36	<10.0	10.0	06/05/2023	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 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:	06/02/2023	Sampling Date:	05/30/2023
Reported:	06/07/2023	Sampling Type:	Soil
Project Name:	CHOSA DRAW 27 FED COM #003 (CHOS	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY COUNTY, NM		

**Sample ID: BH - 1 3' (H232816-03)**

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	06/05/2023	ND	1.92	95.9	2.00	2.12	
Toluene*	<0.050	0.050	06/05/2023	ND	1.98	99.0	2.00	2.51	
Ethylbenzene*	<0.050	0.050	06/05/2023	ND	2.03	101	2.00	1.18	
Total Xylenes*	<0.150	0.150	06/05/2023	ND	5.99	99.8	6.00	0.595	
Total BTEX	<0.300	0.300	06/05/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	06/05/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/05/2023	ND	171	85.6	200	20.8	
DRO >C10-C28*	<10.0	10.0	06/05/2023	ND	175	87.3	200	12.3	
EXT DRO >C28-C36	<10.0	10.0	06/05/2023	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 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:	06/02/2023	Sampling Date:	05/30/2023
Reported:	06/07/2023	Sampling Type:	Soil
Project Name:	CHOSA DRAW 27 FED COM #003 (CHOS	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY COUNTY, NM		

**Sample ID: BH - 1 4' (H232816-04)**

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	06/05/2023	ND	1.92	95.9	2.00	2.12	
Toluene*	<0.050	0.050	06/05/2023	ND	1.98	99.0	2.00	2.51	
Ethylbenzene*	<0.050	0.050	06/05/2023	ND	2.03	101	2.00	1.18	
Total Xylenes*	<0.150	0.150	06/05/2023	ND	5.99	99.8	6.00	0.595	
Total BTEX	<0.300	0.300	06/05/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	48.0	16.0	06/05/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/05/2023	ND	171	85.6	200	20.8	
DRO >C10-C28*	<10.0	10.0	06/05/2023	ND	175	87.3	200	12.3	
EXT DRO >C28-C36	<10.0	10.0	06/05/2023	ND					

Surrogate: 1-Chlorooctane 116 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 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:	06/02/2023	Sampling Date:	05/30/2023
Reported:	06/07/2023	Sampling Type:	Soil
Project Name:	CHOSA DRAW 27 FED COM #003 (CHOS	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY COUNTY, NM		

**Sample ID: BH - 2 0-1' (H232816-05)**

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	06/05/2023	ND	1.92	95.9	2.00	2.12	
Toluene*	<0.050	0.050	06/05/2023	ND	1.98	99.0	2.00	2.51	
Ethylbenzene*	<0.050	0.050	06/05/2023	ND	2.03	101	2.00	1.18	
Total Xylenes*	<0.150	0.150	06/05/2023	ND	5.99	99.8	6.00	0.595	
Total BTEX	<0.300	0.300	06/05/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	352	16.0	06/05/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/05/2023	ND	171	85.6	200	20.8	
DRO >C10-C28*	<10.0	10.0	06/05/2023	ND	175	87.3	200	12.3	
EXT DRO >C28-C36	<10.0	10.0	06/05/2023	ND					

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 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:	06/02/2023	Sampling Date:	05/30/2023
Reported:	06/07/2023	Sampling Type:	Soil
Project Name:	CHOSA DRAW 27 FED COM #003 (CHOS	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY COUNTY, NM		

**Sample ID: BH - 2 2' (H232816-06)**

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	06/05/2023	ND	1.92	95.9	2.00	2.12	
Toluene*	<0.050	0.050	06/05/2023	ND	1.98	99.0	2.00	2.51	
Ethylbenzene*	<0.050	0.050	06/05/2023	ND	2.03	101	2.00	1.18	
Total Xylenes*	<0.150	0.150	06/05/2023	ND	5.99	99.8	6.00	0.595	
Total BTEX	<0.300	0.300	06/05/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	<b>448</b>	16.0	06/05/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/05/2023	ND	171	85.6	200	20.8	
DRO >C10-C28*	<10.0	10.0	06/05/2023	ND	175	87.3	200	12.3	
EXT DRO >C28-C36	<10.0	10.0	06/05/2023	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 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:	06/02/2023	Sampling Date:	05/30/2023
Reported:	06/07/2023	Sampling Type:	Soil
Project Name:	CHOSA DRAW 27 FED COM #003 (CHOS	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY COUNTY, NM		

**Sample ID: BH - 2 3' (H232816-07)**

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	06/05/2023	ND	1.92	95.9	2.00	2.12	
Toluene*	<0.050	0.050	06/05/2023	ND	1.98	99.0	2.00	2.51	
Ethylbenzene*	<0.050	0.050	06/05/2023	ND	2.03	101	2.00	1.18	
Total Xylenes*	<0.150	0.150	06/05/2023	ND	5.99	99.8	6.00	0.595	
Total BTEX	<0.300	0.300	06/05/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	272	16.0	06/05/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/05/2023	ND	171	85.6	200	20.8	
DRO >C10-C28*	<10.0	10.0	06/05/2023	ND	175	87.3	200	12.3	
EXT DRO >C28-C36	<10.0	10.0	06/05/2023	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 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:	06/02/2023	Sampling Date:	05/30/2023
Reported:	06/07/2023	Sampling Type:	Soil
Project Name:	CHOSA DRAW 27 FED COM #003 (CHOS	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY COUNTY, NM		

**Sample ID: BH - 2 4' (H232816-08)**

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	06/05/2023	ND	1.92	95.9	2.00	2.12	
Toluene*	<0.050	0.050	06/05/2023	ND	1.98	99.0	2.00	2.51	
Ethylbenzene*	<0.050	0.050	06/05/2023	ND	2.03	101	2.00	1.18	
Total Xylenes*	<0.150	0.150	06/05/2023	ND	5.99	99.8	6.00	0.595	
Total BTEX	<0.300	0.300	06/05/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	06/05/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/05/2023	ND	209	105	200	14.5	
DRO >C10-C28*	<10.0	10.0	06/05/2023	ND	173	86.3	200	14.1	
EXT DRO >C28-C36	<10.0	10.0	06/05/2023	ND					

Surrogate: 1-Chlorooctane 99.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 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:	06/02/2023	Sampling Date:	05/30/2023
Reported:	06/07/2023	Sampling Type:	Soil
Project Name:	CHOSA DRAW 27 FED COM #003 (CHOS	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY COUNTY, NM		

**Sample ID: BH - 3 0-1' (H232816-09)**

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	06/05/2023	ND	1.92	95.9	2.00	2.12	
Toluene*	<0.050	0.050	06/05/2023	ND	1.98	99.0	2.00	2.51	
Ethylbenzene*	<0.050	0.050	06/05/2023	ND	2.03	101	2.00	1.18	
Total Xylenes*	<0.150	0.150	06/05/2023	ND	5.99	99.8	6.00	0.595	
Total BTEX	<0.300	0.300	06/05/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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
<b>Chloride</b>	<b>176</b>	16.0	06/05/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/05/2023	ND	209	105	200	14.5	
<b>DRO &gt;C10-C28*</b>	<b>17.3</b>	10.0	06/05/2023	ND	173	86.3	200	14.1	
EXT DRO >C28-C36	<10.0	10.0	06/05/2023	ND					

Surrogate: 1-Chlorooctane 89.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.3 % 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:	06/02/2023	Sampling Date:	05/30/2023
Reported:	06/07/2023	Sampling Type:	Soil
Project Name:	CHOSA DRAW 27 FED COM #003 (CHOS	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY COUNTY, NM		

**Sample ID: BH - 3 2' (H232816-10)**

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	06/05/2023	ND	1.92	95.9	2.00	2.12	
Toluene*	<0.050	0.050	06/05/2023	ND	1.98	99.0	2.00	2.51	
Ethylbenzene*	<0.050	0.050	06/05/2023	ND	2.03	101	2.00	1.18	
Total Xylenes*	<0.150	0.150	06/05/2023	ND	5.99	99.8	6.00	0.595	
Total BTEX	<0.300	0.300	06/05/2023	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	06/05/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/05/2023	ND	209	105	200	14.5	
DRO >C10-C28*	<10.0	10.0	06/05/2023	ND	173	86.3	200	14.1	
EXT DRO >C28-C36	<10.0	10.0	06/05/2023	ND					

Surrogate: 1-Chlorooctane 88.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.2 % 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:	06/02/2023	Sampling Date:	05/30/2023
Reported:	06/07/2023	Sampling Type:	Soil
Project Name:	CHOSA DRAW 27 FED COM #003 (CHOS	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY COUNTY, NM		

**Sample ID: BH - 3 3' (H232816-11)**

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	06/06/2023	ND	1.92	95.9	2.00	2.12	
Toluene*	<0.050	0.050	06/06/2023	ND	1.98	99.0	2.00	2.51	
Ethylbenzene*	<0.050	0.050	06/06/2023	ND	2.03	101	2.00	1.18	
Total Xylenes*	<0.150	0.150	06/06/2023	ND	5.99	99.8	6.00	0.595	
Total BTEX	<0.300	0.300	06/06/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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
<b>Chloride</b>	<b>48.0</b>	16.0	06/05/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/05/2023	ND	209	105	200	14.5	
<b>DRO &gt;C10-C28*</b>	<b>174</b>	10.0	06/05/2023	ND	173	86.3	200	14.1	
<b>EXT DRO &gt;C28-C36</b>	<b>20.2</b>	10.0	06/05/2023	ND					

Surrogate: 1-Chlorooctane 96.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.6 % 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:	06/02/2023	Sampling Date:	05/30/2023
Reported:	06/07/2023	Sampling Type:	Soil
Project Name:	CHOSA DRAW 27 FED COM #003 (CHOS	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY COUNTY, NM		

**Sample ID: BH - 3 4' (H232816-12)**

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	06/06/2023	ND	1.92	95.9	2.00	2.12	
Toluene*	<0.050	0.050	06/06/2023	ND	1.98	99.0	2.00	2.51	
Ethylbenzene*	<0.050	0.050	06/06/2023	ND	2.03	101	2.00	1.18	
Total Xylenes*	<0.150	0.150	06/06/2023	ND	5.99	99.8	6.00	0.595	
Total BTEX	<0.300	0.300	06/06/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 120 % 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	06/05/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/05/2023	ND	209	105	200	14.5	
DRO >C10-C28*	227	10.0	06/05/2023	ND	173	86.3	200	14.1	
EXT DRO >C28-C36	14.0	10.0	06/05/2023	ND					

Surrogate: 1-Chlorooctane 85.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.1 % 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:	06/02/2023	Sampling Date:	05/30/2023
Reported:	06/07/2023	Sampling Type:	Soil
Project Name:	CHOSA DRAW 27 FED COM #003 (CHOS	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY COUNTY, NM		

**Sample ID: BH - 3 5' (H232816-13)**

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	06/06/2023	ND	1.92	95.9	2.00	2.12	
Toluene*	<0.050	0.050	06/06/2023	ND	1.98	99.0	2.00	2.51	
Ethylbenzene*	<0.050	0.050	06/06/2023	ND	2.03	101	2.00	1.18	
Total Xylenes*	<0.150	0.150	06/06/2023	ND	5.99	99.8	6.00	0.595	
Total BTEX	<0.300	0.300	06/06/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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	06/05/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/05/2023	ND	209	105	200	14.5	
DRO >C10-C28*	35.4	10.0	06/05/2023	ND	173	86.3	200	14.1	
EXT DRO >C28-C36	<10.0	10.0	06/05/2023	ND					

Surrogate: 1-Chlorooctane 89.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.2 % 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:	06/02/2023	Sampling Date:	05/30/2023
Reported:	06/07/2023	Sampling Type:	Soil
Project Name:	CHOSA DRAW 27 FED COM #003 (CHOS	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY COUNTY, NM		

**Sample ID: BH - 3 6' (H232816-14)**

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	06/06/2023	ND	1.92	95.9	2.00	2.12	
Toluene*	<0.050	0.050	06/06/2023	ND	1.98	99.0	2.00	2.51	
Ethylbenzene*	<0.050	0.050	06/06/2023	ND	2.03	101	2.00	1.18	
Total Xylenes*	<0.150	0.150	06/06/2023	ND	5.99	99.8	6.00	0.595	
Total BTEX	<0.300	0.300	06/06/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 121 % 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	48.0	16.0	06/05/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/05/2023	ND	209	105	200	14.5	
DRO >C10-C28*	121	10.0	06/05/2023	ND	173	86.3	200	14.1	
EXT DRO >C28-C36	<10.0	10.0	06/05/2023	ND					

Surrogate: 1-Chlorooctane 99.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 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:	06/02/2023	Sampling Date:	05/30/2023
Reported:	06/07/2023	Sampling Type:	Soil
Project Name:	CHOSA DRAW 27 FED COM #003 (CHOS	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY COUNTY, NM		

**Sample ID: BH - 4 0-1' (H232816-15)**

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	06/06/2023	ND	1.92	95.9	2.00	2.12	
Toluene*	<0.050	0.050	06/06/2023	ND	1.98	99.0	2.00	2.51	
Ethylbenzene*	<0.050	0.050	06/06/2023	ND	2.03	101	2.00	1.18	
Total Xylenes*	<0.150	0.150	06/06/2023	ND	5.99	99.8	6.00	0.595	
Total BTEX	<0.300	0.300	06/06/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	112	16.0	06/05/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/05/2023	ND	209	105	200	14.5	
DRO >C10-C28*	<10.0	10.0	06/05/2023	ND	173	86.3	200	14.1	
EXT DRO >C28-C36	<10.0	10.0	06/05/2023	ND					

Surrogate: 1-Chlorooctane 94.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.2 % 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:	06/02/2023	Sampling Date:	05/30/2023
Reported:	06/07/2023	Sampling Type:	Soil
Project Name:	CHOSA DRAW 27 FED COM #003 (CHOS	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY COUNTY, NM		

**Sample ID: BH - 4 2' (H232816-16)**

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	06/06/2023	ND	1.92	95.9	2.00	2.12	
Toluene*	<0.050	0.050	06/06/2023	ND	1.98	99.0	2.00	2.51	
Ethylbenzene*	<0.050	0.050	06/06/2023	ND	2.03	101	2.00	1.18	
Total Xylenes*	<0.150	0.150	06/06/2023	ND	5.99	99.8	6.00	0.595	
Total BTEX	<0.300	0.300	06/06/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	64.0	16.0	06/05/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/05/2023	ND	209	105	200	14.5	
DRO >C10-C28*	<10.0	10.0	06/05/2023	ND	173	86.3	200	14.1	
EXT DRO >C28-C36	<10.0	10.0	06/05/2023	ND					

Surrogate: 1-Chlorooctane 90.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.5 % 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:	06/02/2023	Sampling Date:	05/30/2023
Reported:	06/07/2023	Sampling Type:	Soil
Project Name:	CHOSA DRAW 27 FED COM #003 (CHOS	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY COUNTY, NM		

**Sample ID: BH - 4 3' (H232816-17)**

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	06/06/2023	ND	1.92	95.9	2.00	2.12	
Toluene*	<0.050	0.050	06/06/2023	ND	1.98	99.0	2.00	2.51	
Ethylbenzene*	<0.050	0.050	06/06/2023	ND	2.03	101	2.00	1.18	
Total Xylenes*	<0.150	0.150	06/06/2023	ND	5.99	99.8	6.00	0.595	
Total BTEX	<0.300	0.300	06/06/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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	48.0	16.0	06/05/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/05/2023	ND	209	105	200	14.5	
DRO >C10-C28*	<10.0	10.0	06/05/2023	ND	173	86.3	200	14.1	
EXT DRO >C28-C36	<10.0	10.0	06/05/2023	ND					

Surrogate: 1-Chlorooctane 91.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.0 % 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:	06/02/2023	Sampling Date:	05/30/2023
Reported:	06/07/2023	Sampling Type:	Soil
Project Name:	CHOSA DRAW 27 FED COM #003 (CHOS	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY COUNTY, NM		

**Sample ID: BH - 4 4' (H232816-18)**

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	06/06/2023	ND	1.96	98.1	2.00	5.49	
Toluene*	<0.050	0.050	06/06/2023	ND	1.95	97.3	2.00	4.66	
Ethylbenzene*	<0.050	0.050	06/06/2023	ND	2.05	102	2.00	5.82	
Total Xylenes*	<0.150	0.150	06/06/2023	ND	6.09	102	6.00	6.43	
Total BTEX	<0.300	0.300	06/06/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	06/05/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/05/2023	ND	209	105	200	14.5	
DRO >C10-C28*	<10.0	10.0	06/05/2023	ND	173	86.3	200	14.1	
EXT DRO >C28-C36	<10.0	10.0	06/05/2023	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 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:	06/02/2023	Sampling Date:	05/30/2023
Reported:	06/07/2023	Sampling Type:	Soil
Project Name:	CHOSA DRAW 27 FED COM #003 (CHOS	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY COUNTY, NM		

**Sample ID: BH - 5 0-1' (H232816-19)**

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	06/06/2023	ND	1.96	98.1	2.00	5.49	
Toluene*	<0.050	0.050	06/06/2023	ND	1.95	97.3	2.00	4.66	
Ethylbenzene*	<0.050	0.050	06/06/2023	ND	2.05	102	2.00	5.82	
Total Xylenes*	<0.150	0.150	06/06/2023	ND	6.09	102	6.00	6.43	
Total BTEX	<0.300	0.300	06/06/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	80.0	16.0	06/05/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/05/2023	ND	209	105	200	14.5	
DRO >C10-C28*	<10.0	10.0	06/05/2023	ND	173	86.3	200	14.1	
EXT DRO >C28-C36	<10.0	10.0	06/05/2023	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 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:	06/02/2023	Sampling Date:	05/30/2023
Reported:	06/07/2023	Sampling Type:	Soil
Project Name:	CHOSA DRAW 27 FED COM #003 (CHOS	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY COUNTY, NM		

**Sample ID: BH - 5 2' (H232816-20)**

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	06/06/2023	ND	1.96	98.1	2.00	5.49	
Toluene*	<0.050	0.050	06/06/2023	ND	1.95	97.3	2.00	4.66	
Ethylbenzene*	<0.050	0.050	06/06/2023	ND	2.05	102	2.00	5.82	
Total Xylenes*	<0.150	0.150	06/06/2023	ND	6.09	102	6.00	6.43	
Total BTEX	<0.300	0.300	06/06/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	48.0	16.0	06/05/2023	ND	368	92.0	400	8.33	

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	06/05/2023	ND	209	105	200	14.5	
DRO >C10-C28*	<10.0	10.0	06/05/2023	ND	173	86.3	200	14.1	
EXT DRO >C28-C36	<10.0	10.0	06/05/2023	ND					

Surrogate: 1-Chlorooctane 95.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 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:	06/02/2023	Sampling Date:	05/30/2023
Reported:	06/07/2023	Sampling Type:	Soil
Project Name:	CHOSA DRAW 27 FED COM #003 (CHOS	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY COUNTY, NM		

**Sample ID: BH - 5 3' (H232816-21)**

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	06/06/2023	ND	1.96	98.1	2.00	5.49	
Toluene*	<0.050	0.050	06/06/2023	ND	1.95	97.3	2.00	4.66	
Ethylbenzene*	<0.050	0.050	06/06/2023	ND	2.05	102	2.00	5.82	
Total Xylenes*	<0.150	0.150	06/06/2023	ND	6.09	102	6.00	6.43	
Total BTEX	<0.300	0.300	06/06/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	06/05/2023	ND	368	92.0	400	8.33	

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	06/05/2023	ND	209	105	200	14.5	
DRO >C10-C28*	<10.0	10.0	06/05/2023	ND	173	86.3	200	14.1	
EXT DRO >C28-C36	<10.0	10.0	06/05/2023	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 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:	06/02/2023	Sampling Date:	05/30/2023
Reported:	06/07/2023	Sampling Type:	Soil
Project Name:	CHOSA DRAW 27 FED COM #003 (CHOS	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY COUNTY, NM		

**Sample ID: BH - 5 4' (H232816-22)**

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	06/06/2023	ND	1.96	98.1	2.00	5.49	
Toluene*	<0.050	0.050	06/06/2023	ND	1.95	97.3	2.00	4.66	
Ethylbenzene*	<0.050	0.050	06/06/2023	ND	2.05	102	2.00	5.82	
Total Xylenes*	<0.150	0.150	06/06/2023	ND	6.09	102	6.00	6.43	
Total BTEX	<0.300	0.300	06/06/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	06/05/2023	ND	368	92.0	400	8.33	

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	06/05/2023	ND	209	105	200	14.5	
DRO >C10-C28*	<10.0	10.0	06/05/2023	ND	173	86.3	200	14.1	
EXT DRO >C28-C36	<10.0	10.0	06/05/2023	ND					

Surrogate: 1-Chlorooctane 93.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.2 % 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:	06/02/2023	Sampling Date:	05/30/2023
Reported:	06/07/2023	Sampling Type:	Soil
Project Name:	CHOSA DRAW 27 FED COM #003 (CHOS	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY COUNTY, NM		

**Sample ID: BH - 6 0-1' (H232816-23)**

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	06/06/2023	ND	1.96	98.1	2.00	5.49	
Toluene*	<0.050	0.050	06/06/2023	ND	1.95	97.3	2.00	4.66	
Ethylbenzene*	<0.050	0.050	06/06/2023	ND	2.05	102	2.00	5.82	
Total Xylenes*	<0.150	0.150	06/06/2023	ND	6.09	102	6.00	6.43	
Total BTEX	<0.300	0.300	06/06/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	256	16.0	06/05/2023	ND	368	92.0	400	8.33	

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	06/05/2023	ND	209	105	200	14.5	
DRO >C10-C28*	<10.0	10.0	06/05/2023	ND	173	86.3	200	14.1	
EXT DRO >C28-C36	<10.0	10.0	06/05/2023	ND					

Surrogate: 1-Chlorooctane 84.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.1 % 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:	06/02/2023	Sampling Date:	05/30/2023
Reported:	06/07/2023	Sampling Type:	Soil
Project Name:	CHOSA DRAW 27 FED COM #003 (CHOS	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY COUNTY, NM		

**Sample ID: BH - 6 2' (H232816-24)**

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	06/06/2023	ND	1.96	98.1	2.00	5.49	
Toluene*	<0.050	0.050	06/06/2023	ND	1.95	97.3	2.00	4.66	
Ethylbenzene*	<0.050	0.050	06/06/2023	ND	2.05	102	2.00	5.82	
Total Xylenes*	<0.150	0.150	06/06/2023	ND	6.09	102	6.00	6.43	
Total BTEX	<0.300	0.300	06/06/2023	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	336	16.0	06/05/2023	ND	368	92.0	400	8.33	

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	06/05/2023	ND	209	105	200	14.5	
DRO >C10-C28*	<10.0	10.0	06/05/2023	ND	173	86.3	200	14.1	
EXT DRO >C28-C36	<10.0	10.0	06/05/2023	ND					

Surrogate: 1-Chlorooctane 93.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.8 % 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:	06/02/2023	Sampling Date:	05/30/2023
Reported:	06/07/2023	Sampling Type:	Soil
Project Name:	CHOSA DRAW 27 FED COM #003 (CHOS	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY COUNTY, NM		

**Sample ID: BH - 6 3' (H232816-25)**

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	06/06/2023	ND	1.96	98.1	2.00	5.49	
Toluene*	<0.050	0.050	06/06/2023	ND	1.95	97.3	2.00	4.66	
Ethylbenzene*	<0.050	0.050	06/06/2023	ND	2.05	102	2.00	5.82	
Total Xylenes*	<0.150	0.150	06/06/2023	ND	6.09	102	6.00	6.43	
Total BTEX	<0.300	0.300	06/06/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	496	16.0	06/05/2023	ND	368	92.0	400	8.33	

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	06/05/2023	ND	209	105	200	14.5	
DRO >C10-C28*	<10.0	10.0	06/05/2023	ND	173	86.3	200	14.1	
EXT DRO >C28-C36	<10.0	10.0	06/05/2023	ND					

Surrogate: 1-Chlorooctane 92.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.1 % 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:	06/02/2023	Sampling Date:	05/30/2023
Reported:	06/07/2023	Sampling Type:	Soil
Project Name:	CHOSA DRAW 27 FED COM #003 (CHOS	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY COUNTY, NM		

**Sample ID: BH - 6 4' (H232816-26)**

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	06/06/2023	ND	1.96	98.1	2.00	5.49	
Toluene*	<0.050	0.050	06/06/2023	ND	1.95	97.3	2.00	4.66	
Ethylbenzene*	<0.050	0.050	06/06/2023	ND	2.05	102	2.00	5.82	
Total Xylenes*	<0.150	0.150	06/06/2023	ND	6.09	102	6.00	6.43	
Total BTEX	<0.300	0.300	06/06/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	352	16.0	06/05/2023	ND	368	92.0	400	8.33	

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	06/05/2023	ND	209	105	200	14.5	
DRO >C10-C28*	<10.0	10.0	06/05/2023	ND	173	86.3	200	14.1	
EXT DRO >C28-C36	<10.0	10.0	06/05/2023	ND					

Surrogate: 1-Chlorooctane 90.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.5 % 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:	06/02/2023	Sampling Date:	05/30/2023
Reported:	06/07/2023	Sampling Type:	Soil
Project Name:	CHOSA DRAW 27 FED COM #003 (CHOS	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY COUNTY, NM		

**Sample ID: BH - 6 5' (H232816-27)**

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	06/06/2023	ND	1.96	98.1	2.00	5.49	
Toluene*	<0.050	0.050	06/06/2023	ND	1.95	97.3	2.00	4.66	
Ethylbenzene*	<0.050	0.050	06/06/2023	ND	2.05	102	2.00	5.82	
Total Xylenes*	<0.150	0.150	06/06/2023	ND	6.09	102	6.00	6.43	
Total BTEX	<0.300	0.300	06/06/2023	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	112	16.0	06/05/2023	ND	368	92.0	400	8.33	

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	06/05/2023	ND	209	105	200	14.5	
DRO >C10-C28*	<10.0	10.0	06/05/2023	ND	173	86.3	200	14.1	
EXT DRO >C28-C36	<10.0	10.0	06/05/2023	ND					

Surrogate: 1-Chlorooctane 82.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.9 % 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:	06/02/2023	Sampling Date:	05/30/2023
Reported:	06/07/2023	Sampling Type:	Soil
Project Name:	CHOSA DRAW 27 FED COM #003 (CHOS	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY COUNTY, NM		

**Sample ID: BH - 6 6' (H232816-28)**

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	06/06/2023	ND	1.96	98.1	2.00	5.49	
Toluene*	<0.050	0.050	06/06/2023	ND	1.95	97.3	2.00	4.66	
Ethylbenzene*	<0.050	0.050	06/06/2023	ND	2.05	102	2.00	5.82	
Total Xylenes*	<0.150	0.150	06/06/2023	ND	6.09	102	6.00	6.43	
Total BTEX	<0.300	0.300	06/06/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	06/05/2023	ND	368	92.0	400	8.33	

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	06/05/2023	ND	192	96.1	200	17.6	
DRO >C10-C28*	<10.0	10.0	06/05/2023	ND	192	96.1	200	12.3	
EXT DRO >C28-C36	<10.0	10.0	06/05/2023	ND					

Surrogate: 1-Chlorooctane 85.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 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:	06/02/2023	Sampling Date:	05/30/2023
Reported:	06/07/2023	Sampling Type:	Soil
Project Name:	CHOSA DRAW 27 FED COM #003 (CHOS	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY COUNTY, NM		

**Sample ID: BH - 7 0-1' (H232816-29)**

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	06/06/2023	ND	1.96	98.1	2.00	5.49		
Toluene*	<0.050	0.050	06/06/2023	ND	1.95	97.3	2.00	4.66		
Ethylbenzene*	<0.050	0.050	06/06/2023	ND	2.05	102	2.00	5.82		
Total Xylenes*	<0.150	0.150	06/06/2023	ND	6.09	102	6.00	6.43		
Total BTEX	<0.300	0.300	06/06/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 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	
<b>Chloride</b>	<b>1960</b>	16.0	06/05/2023	ND	368	92.0	400	8.33		

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	06/05/2023	ND	192	96.1	200	17.6		
<b>DRO &gt;C10-C28*</b>	<b>61.8</b>	10.0	06/05/2023	ND	192	96.1	200	12.3		
EXT DRO >C28-C36	<10.0	10.0	06/05/2023	ND						

Surrogate: 1-Chlorooctane 90.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 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:	06/02/2023	Sampling Date:	05/30/2023
Reported:	06/07/2023	Sampling Type:	Soil
Project Name:	CHOSA DRAW 27 FED COM #003 (CHOS	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY COUNTY, NM		

**Sample ID: BH - 7 2' (H232816-30)**

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	06/06/2023	ND	1.96	98.1	2.00	5.49	
Toluene*	<0.050	0.050	06/06/2023	ND	1.95	97.3	2.00	4.66	
Ethylbenzene*	<0.050	0.050	06/06/2023	ND	2.05	102	2.00	5.82	
Total Xylenes*	<0.150	0.150	06/06/2023	ND	6.09	102	6.00	6.43	
Total BTEX	<0.300	0.300	06/06/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 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
<b>Chloride</b>	<b>464</b>	16.0	06/05/2023	ND	368	92.0	400	8.33	

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	06/05/2023	ND	192	96.1	200	17.6	
<b>DRO &gt;C10-C28*</b>	<b>197</b>	10.0	06/05/2023	ND	192	96.1	200	12.3	
EXT DRO >C28-C36	<10.0	10.0	06/05/2023	ND					

Surrogate: 1-Chlorooctane 94.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 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:	06/02/2023	Sampling Date:	05/30/2023
Reported:	06/07/2023	Sampling Type:	Soil
Project Name:	CHOSA DRAW 27 FED COM #003 (CHOS	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY COUNTY, NM		

**Sample ID: BH - 7 3' (H232816-31)**

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	06/06/2023	ND	1.96	98.1	2.00	5.49	
Toluene*	<0.050	0.050	06/06/2023	ND	1.95	97.3	2.00	4.66	
Ethylbenzene*	<0.050	0.050	06/06/2023	ND	2.05	102	2.00	5.82	
Total Xylenes*	<0.150	0.150	06/06/2023	ND	6.09	102	6.00	6.43	
Total BTEX	<0.300	0.300	06/06/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	432	16.0	06/05/2023	ND	368	92.0	400	8.33	

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	06/05/2023	ND	192	96.1	200	17.6	
DRO >C10-C28*	<10.0	10.0	06/05/2023	ND	192	96.1	200	12.3	
EXT DRO >C28-C36	<10.0	10.0	06/05/2023	ND					

Surrogate: 1-Chlorooctane 89.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 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:	06/02/2023	Sampling Date:	05/30/2023
Reported:	06/07/2023	Sampling Type:	Soil
Project Name:	CHOSA DRAW 27 FED COM #003 (CHOS	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY COUNTY, NM		

**Sample ID: BH - 7 4' (H232816-32)**

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	06/06/2023	ND	1.96	98.1	2.00	5.49	
Toluene*	<0.050	0.050	06/06/2023	ND	1.95	97.3	2.00	4.66	
Ethylbenzene*	<0.050	0.050	06/06/2023	ND	2.05	102	2.00	5.82	
Total Xylenes*	<0.150	0.150	06/06/2023	ND	6.09	102	6.00	6.43	
Total BTEX	<0.300	0.300	06/06/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	160	16.0	06/05/2023	ND	368	92.0	400	8.33	

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	06/05/2023	ND	192	96.1	200	17.6	
DRO >C10-C28*	<10.0	10.0	06/05/2023	ND	192	96.1	200	12.3	
EXT DRO >C28-C36	<10.0	10.0	06/05/2023	ND					

Surrogate: 1-Chlorooctane 89.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 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:	06/02/2023	Sampling Date:	05/30/2023
Reported:	06/07/2023	Sampling Type:	Soil
Project Name:	CHOSA DRAW 27 FED COM #003 (CHOS	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY COUNTY, NM		

**Sample ID: BH - 8 0-1' (H232816-33)**

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	06/06/2023	ND	1.96	98.1	2.00	5.49	
Toluene*	<0.050	0.050	06/06/2023	ND	1.95	97.3	2.00	4.66	
Ethylbenzene*	<0.050	0.050	06/06/2023	ND	2.05	102	2.00	5.82	
Total Xylenes*	<0.150	0.150	06/06/2023	ND	6.09	102	6.00	6.43	
Total BTEX	<0.300	0.300	06/06/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	1090	16.0	06/05/2023	ND	368	92.0	400	8.33	

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	06/05/2023	ND	192	96.1	200	17.6	
DRO >C10-C28*	<10.0	10.0	06/05/2023	ND	192	96.1	200	12.3	
EXT DRO >C28-C36	<10.0	10.0	06/05/2023	ND					

Surrogate: 1-Chlorooctane 88.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 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:	06/02/2023	Sampling Date:	05/30/2023
Reported:	06/07/2023	Sampling Type:	Soil
Project Name:	CHOSA DRAW 27 FED COM #003 (CHOS	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY COUNTY, NM		

**Sample ID: BH - 8 2' (H232816-34)**

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	06/06/2023	ND	1.96	98.1	2.00	5.49	
Toluene*	<0.050	0.050	06/06/2023	ND	1.95	97.3	2.00	4.66	
Ethylbenzene*	<0.050	0.050	06/06/2023	ND	2.05	102	2.00	5.82	
Total Xylenes*	<0.150	0.150	06/06/2023	ND	6.09	102	6.00	6.43	
Total BTEX	<0.300	0.300	06/06/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	768	16.0	06/05/2023	ND	368	92.0	400	8.33	

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	06/05/2023	ND	192	96.1	200	17.6	
DRO >C10-C28*	<10.0	10.0	06/05/2023	ND	192	96.1	200	12.3	
EXT DRO >C28-C36	<10.0	10.0	06/05/2023	ND					

Surrogate: 1-Chlorooctane 88.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 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:	06/02/2023	Sampling Date:	05/30/2023
Reported:	06/07/2023	Sampling Type:	Soil
Project Name:	CHOSA DRAW 27 FED COM #003 (CHOS	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY COUNTY, NM		

**Sample ID: BH - 8 3' (H232816-35)**

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	06/06/2023	ND	1.96	98.1	2.00	5.49	
Toluene*	<0.050	0.050	06/06/2023	ND	1.95	97.3	2.00	4.66	
Ethylbenzene*	<0.050	0.050	06/06/2023	ND	2.05	102	2.00	5.82	
Total Xylenes*	<0.150	0.150	06/06/2023	ND	6.09	102	6.00	6.43	
Total BTEX	<0.300	0.300	06/06/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	352	16.0	06/05/2023	ND	368	92.0	400	8.33	

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	06/05/2023	ND	192	96.1	200	17.6	
DRO >C10-C28*	<10.0	10.0	06/05/2023	ND	192	96.1	200	12.3	
EXT DRO >C28-C36	<10.0	10.0	06/05/2023	ND					

Surrogate: 1-Chlorooctane 88.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 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:	06/02/2023	Sampling Date:	05/30/2023
Reported:	06/07/2023	Sampling Type:	Soil
Project Name:	CHOSA DRAW 27 FED COM #003 (CHOS	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY COUNTY, NM		

**Sample ID: BH - 8 4' (H232816-36)**

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	06/06/2023	ND	1.96	98.1	2.00	5.49	
Toluene*	<0.050	0.050	06/06/2023	ND	1.95	97.3	2.00	4.66	
Ethylbenzene*	<0.050	0.050	06/06/2023	ND	2.05	102	2.00	5.82	
Total Xylenes*	<0.150	0.150	06/06/2023	ND	6.09	102	6.00	6.43	
Total BTEX	<0.300	0.300	06/06/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	192	16.0	06/05/2023	ND	368	92.0	400	8.33	

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	06/05/2023	ND	192	96.1	200	17.6	
DRO >C10-C28*	<10.0	10.0	06/05/2023	ND	192	96.1	200	12.3	
EXT DRO >C28-C36	<10.0	10.0	06/05/2023	ND					

Surrogate: 1-Chlorooctane 91.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- QR-04 The RPD for the BS/BSD was outside of historical limits.
ND Analyte NOT DETECTED at or above the reporting limit
RPD Relative Percent Difference
\*\* Samples not received at proper temperature of 6°C or below.
\*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

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

**BILL TO**

**ANALYSIS REQUEST**

Company Name: H&R Enterprises		P.O. #:	
Project Manager: Michael Collier		Company: Cimarex	
Address:		Addr: Lael Luig	
City:		Address:	
State:		City:	
Zip:		State:	
Phone #:		Zip:	
Fax #:		Phone #:	
Project #:		Fax #:	
Project Name: Chosa Draw 27 Fed Com #3 (chosa)		Project Owner:	
Project Location: Eddy County		State:	
Sampler Name: R Bell		City:	
Lab I.D.:		State:	
FOR USE ONLY		Zip:	
Matrix:		Date:	
GROUNDWATER		Time:	
WASTEWATER		BTEX	
SOIL		TPH	
OIL		Chlorides	
SLUDGE			
OTHER:			
ACID/BASE:			
ICE / COOL			
OTHER:			
PRESERV.			
SAMPLING			

Lab I.D.	Depth	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	DATE	TIME	BTEX	TPH	Chlorides
H232816	1 BH-1 0-1'	G	1	X	5/30/23		X	X	X
	2 BH-1 2'								
	3 BH-1 3'								
	4 BH-1 4'								
	5 BH-2 0-1'								
	6 BH-2 2'								
	7 BH-2 3'								
	8 BH-2 4'								
	9 BH-3 0-1'								
	10 BH-3 2'								

PLEASE NOTE: Using two Chain of Custody forms reduces liability for any data entry mistakes. If you are not sure of the amount used, the amount used, or the analysis, all chains including those for negative and any other state unknown shall be deemed correct unless noted in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall the liability of the provider be limited by the performance of services rendered by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: [Signature] Date: 6-22-23 Received By: [Signature] Date: 5/31/23

Delivered By: (Circle One) Sample Condition:  Cool  Ice  No  No

Observed Temp. °C: 3.7 Corrected Temp. °C: 3.1

Thermometer ID #113 Correction Factor -0.5°C

REMARKS: pg 1 of 4

Verbal Results:  Yes  No Add'l Phone #:

AP Results are emailed. Please provide Email address:

FORM-006 R 3 Z 10/07/21

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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: H&R Enterprises **BILL TO** ANALYSIS REQUEST

Project Manager: Michael Collier P.O. #: Company: Cimarex  
 Address: City: State: Zip: Attn: Laci Luing  
 Phone #: Fax #: Project Owner: Address: City: State: Zip: Project Name: Chosa Draw 27 Fed Com #3 (chosa) Phone #: Project Location: Eddy County Fax #: Sampler Name: R Bell

Lab I.D.	Depth	Matrix	Date	Time	ANALYSIS REQUEST		
					BTEX	TPH	Chlorides
H232816	11 BH-3 3'	(G)RAB OR (C)OMP, # CONTAINERS	5/16/23		X	X	
	12 BH-3 4'	GROUNDWATER			X	X	
	13 BH-3 5'	WASTEWATER			X	X	
	14 BH-3 6'	SOIL			X	X	
	15 BH-4 0-1'	OIL			X	X	
	16 BH-4 2'	SLUDGE			X	X	
	17 BH-4 3'	OTHER: ACID/BASE: ICE / COOL OTHER:			X	X	
	18 BH-4 4'				X	X	
	19 BH-5 0-1'				X	X	
	20 BH-5 2'				X	X	

PLEASE NOTE: Samples must be submitted to Cardinal within 30 days of collection. Samples must be submitted to Cardinal within 30 days after completion of the applicable service. In the event that Cardinal will be unable to analyze the sample for any reason, Cardinal will be notified by email. Samples must be submitted to Cardinal within 30 days after completion of the applicable service. In the event that Cardinal will be unable to analyze the sample for any reason, Cardinal will be notified by email. Samples must be submitted to Cardinal within 30 days after completion of the applicable service. In the event that Cardinal will be unable to analyze the sample for any reason, Cardinal will be notified by email.

Relinquished By: [Signature] Date: 9-23-23 Received By: [Signature] Date: 9-23-23  
 Relinquished By: [Signature] Date: 9-23-23 Received By: [Signature] Date: 9-23-23

Delivered By: (Circle One) Observed Temp. °C Corrected Temp. °C Sample Condition Checked By: (Initials) Turnaround Time: Standard  Backward (only Sample Condition)  Cool  Heat  Other:  Yes  No  Yes  No Thermometer ID #113 Correction Factor -0.9°C Add'l Phone #:  Yes  No  Yes  No Corrected Temp. °C

FORM-006 R 3.2 10/07/21 Cardinal cannot accept verbal changes. Please email changes to cely.keene@cardinallabsnm.com



**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

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

Company Name: H&R Enterprises		<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>	
Project Manager: Michael Collier		P.O. #:			
Address:		Company: Cimarex			
City:		Attn: Laci Lulig			
State:		Address:			
Zip:		City:			
Phone #:		State:			
Fax #:		Zip:			
Project #: Project Owner:		Phone #:			
Project Name: Chosa Draw 27 Fed Com #3 (chosa)		Fax #:			
Project Location: Eddy County		PRESERV.		SAMPLING	
Sampler Name: R Bell					

Lab I.D.	Date	Time	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	BTEX	TPH	Chlorides
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER: ACID/BASE:					
H232816	21	BH-5 3'	G	1			X				5/30/23		X	X	X
	22	BH-5 4'													
	23	BH-6 0-1'													
	24	BH-6 2'													
	25	BH-6 3'													
	26	BH-6 4'													
	27	BH-6 5'													
	28	BH-6 6'													
	29	BH-7 0-1'													
	30	BH-7 2'													

LABORATORY: Laboratory Name: Cardinal Health and client's evidence stored for any testing using samples collected in violation of law, shall be retained in the evidence vault for the analysis. All claims including those for negligence and any other claim unknown and be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruption, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated causes of actions.

Relinquished By: <i>[Signature]</i>	Date: 8-23-23	Received By: <i>[Signature]</i>	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By: <i>[Signature]</i>	Date: 8-31-23	Received By: <i>[Signature]</i>	All Results are emailed. Please provide Email address:	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C Corrected Temp. °C	Sample Condition Cool <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Moist <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	CHECKED BY: (Initials) <i>[Signature]</i>	Thermometer ID #113 Correction Factor -0.5°C
			Standard <input checked="" type="checkbox"/> Backus (only) Sample Condition	Turnaround Time: <input type="checkbox"/> Rush <input type="checkbox"/> Cool <input type="checkbox"/> Observed Temp. °C
				Yes <input type="checkbox"/> No <input type="checkbox"/> Corrected Temp. °C

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

FORM-006 R 3.2 1/06/21



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: H&R Enterprises

BILL TO

ANALYSIS REQUEST

Project Manager: Michael Collier

P.O. #:

Address: State: Zip:

Company: Cimarex

City: Fax #: Project Owner:

Attn: Laci Lulig

Phone #: Project Name: Chosa Draw 27 Fed Com #3 (chosa)

Address:

Project Location: Eddy County

City:

Sampler Name: R Bell

State: Zip:

Lab I.D.

Phone #:

FOR LABOR USE ONLY

Fax #:

Lab I.D.	Depth	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	BTEX	TPH	Chlorides
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER : ACID/BASE: ICE / COOL OTHER :					
H232816	31	BH-7 3'	G							5/30/23				
	32	BH-7 4'	I											
	33	BH-8 0-1'												
	34	BH-8 1-2'												
	35	BH-8 2-3'												
	36	BH-8 3-4'												
		BH-8 4-5'												

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Retinquished By: [Signature] Date: 8/23/23 Received By: [Signature] Date: 8/23/23

Observed Temp, °C: 31.7 Corrected Temp, °C: 31.1

Sample Condition: Cool  Moist  No  No  No  No

Checked By: [Signature] (Initials) V.D.

Remarks: P9404

Vertical Result:  Yes  No

ADD'l Phone #:

FORM-009 R 3.2 10/07/21 Cardinal cannot accept verbal changes. Please email changes to cely.keene@cardinalabnm.com



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

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July 27, 2023

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

RE: CHOSA DRAW 27 FED COM #003 (CHOSA)

Enclosed are the results of analyses for samples received by the laboratory on 07/21/23 11:52.

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](http://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 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:	07/21/2023	Sampling Date:	07/21/2023
Reported:	07/27/2023	Sampling Type:	Soil
Project Name:	CHOSA DRAW 27 FED COM #003 (CHOS	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY COUNTY, NM		

**Sample ID: S - 1 2.5' (H233821-01)**

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	07/26/2023	ND	1.93	96.7	2.00	2.24	
Toluene*	<0.050	0.050	07/26/2023	ND	2.01	101	2.00	1.85	
Ethylbenzene*	<0.050	0.050	07/26/2023	ND	1.97	98.5	2.00	4.42	
Total Xylenes*	<0.150	0.150	07/26/2023	ND	5.88	98.0	6.00	6.04	
Total BTEX	<0.300	0.300	07/26/2023	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	112	16.0	07/26/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/25/2023	ND	193	96.7	200	0.0165	
DRO >C10-C28*	<10.0	10.0	07/25/2023	ND	201	100	200	4.17	
EXT DRO >C28-C36	<10.0	10.0	07/25/2023	ND					

Surrogate: 1-Chlorooctane 84.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.3 % 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:	07/21/2023	Sampling Date:	07/21/2023
Reported:	07/27/2023	Sampling Type:	Soil
Project Name:	CHOSA DRAW 27 FED COM #003 (CHOS	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY COUNTY, NM		

**Sample ID: S - 2 2.5' (H233821-02)**

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	07/26/2023	ND	1.93	96.7	2.00	2.24	
Toluene*	<0.050	0.050	07/26/2023	ND	2.01	101	2.00	1.85	
Ethylbenzene*	<0.050	0.050	07/26/2023	ND	1.97	98.5	2.00	4.42	
Total Xylenes*	<0.150	0.150	07/26/2023	ND	5.88	98.0	6.00	6.04	
Total BTEX	<0.300	0.300	07/26/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	160	16.0	07/26/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/25/2023	ND	193	96.7	200	0.0165	
DRO >C10-C28*	<10.0	10.0	07/25/2023	ND	201	100	200	4.17	
EXT DRO >C28-C36	<10.0	10.0	07/25/2023	ND					

Surrogate: 1-Chlorooctane 80.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.1 % 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:	07/21/2023	Sampling Date:	07/21/2023
Reported:	07/27/2023	Sampling Type:	Soil
Project Name:	CHOSA DRAW 27 FED COM #003 (CHOS	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY COUNTY, NM		

**Sample ID: S - 3 2.5' (H233821-03)**

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	07/26/2023	ND	1.93	96.7	2.00	2.24	
Toluene*	<0.050	0.050	07/26/2023	ND	2.01	101	2.00	1.85	
Ethylbenzene*	<0.050	0.050	07/26/2023	ND	1.97	98.5	2.00	4.42	
Total Xylenes*	<0.150	0.150	07/26/2023	ND	5.88	98.0	6.00	6.04	
Total BTEX	<0.300	0.300	07/26/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	144	16.0	07/26/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/25/2023	ND	193	96.7	200	0.0165	
DRO >C10-C28*	<10.0	10.0	07/25/2023	ND	201	100	200	4.17	
EXT DRO >C28-C36	<10.0	10.0	07/25/2023	ND					

Surrogate: 1-Chlorooctane 98.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 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:	07/21/2023	Sampling Date:	07/21/2023
Reported:	07/27/2023	Sampling Type:	Soil
Project Name:	CHOSA DRAW 27 FED COM #003 (CHOS	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY COUNTY, NM		

**Sample ID: S - 4 2.5' (H233821-04)**

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	07/26/2023	ND	1.93	96.7	2.00	2.24	
Toluene*	<0.050	0.050	07/26/2023	ND	2.01	101	2.00	1.85	
Ethylbenzene*	<0.050	0.050	07/26/2023	ND	1.97	98.5	2.00	4.42	
Total Xylenes*	<0.150	0.150	07/26/2023	ND	5.88	98.0	6.00	6.04	
Total BTEX	<0.300	0.300	07/26/2023	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	128	16.0	07/26/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/25/2023	ND	193	96.7	200	0.0165	
DRO >C10-C28*	<10.0	10.0	07/25/2023	ND	201	100	200	4.17	
EXT DRO >C28-C36	<10.0	10.0	07/25/2023	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 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:	07/21/2023	Sampling Date:	07/21/2023
Reported:	07/27/2023	Sampling Type:	Soil
Project Name:	CHOSA DRAW 27 FED COM #003 (CHOS	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY COUNTY, NM		

**Sample ID: S - 5 2.5' (H233821-05)**

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	07/26/2023	ND	1.93	96.7	2.00	2.24	
Toluene*	<0.050	0.050	07/26/2023	ND	2.01	101	2.00	1.85	
Ethylbenzene*	<0.050	0.050	07/26/2023	ND	1.97	98.5	2.00	4.42	
Total Xylenes*	<0.150	0.150	07/26/2023	ND	5.88	98.0	6.00	6.04	
Total BTEX	<0.300	0.300	07/26/2023	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	144	16.0	07/26/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/25/2023	ND	193	96.7	200	0.0165	
DRO >C10-C28*	<10.0	10.0	07/25/2023	ND	201	100	200	4.17	
EXT DRO >C28-C36	<10.0	10.0	07/25/2023	ND					

Surrogate: 1-Chlorooctane 94.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 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:	07/21/2023	Sampling Date:	07/21/2023
Reported:	07/27/2023	Sampling Type:	Soil
Project Name:	CHOSA DRAW 27 FED COM #003 (CHOS	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY COUNTY, NM		

**Sample ID: S - 6 2.5' (H233821-06)**

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	07/26/2023	ND	1.93	96.7	2.00	2.24	
Toluene*	<0.050	0.050	07/26/2023	ND	2.01	101	2.00	1.85	
Ethylbenzene*	<0.050	0.050	07/26/2023	ND	1.97	98.5	2.00	4.42	
Total Xylenes*	<0.150	0.150	07/26/2023	ND	5.88	98.0	6.00	6.04	
Total BTEX	<0.300	0.300	07/26/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	128	16.0	07/26/2023	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	07/26/2023	ND	193	96.7	200	0.0165	
DRO >C10-C28*	<10.0	10.0	07/26/2023	ND	201	100	200	4.17	
EXT DRO >C28-C36	<10.0	10.0	07/26/2023	ND					

Surrogate: 1-Chlorooctane 99.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 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:	07/21/2023	Sampling Date:	07/21/2023
Reported:	07/27/2023	Sampling Type:	Soil
Project Name:	CHOSA DRAW 27 FED COM #003 (CHOS	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY COUNTY, NM		

**Sample ID: S - 7 2.5' (H233821-07)**

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	07/26/2023	ND	1.93	96.7	2.00	2.24	
Toluene*	<0.050	0.050	07/26/2023	ND	2.01	101	2.00	1.85	
Ethylbenzene*	<0.050	0.050	07/26/2023	ND	1.97	98.5	2.00	4.42	
Total Xylenes*	<0.150	0.150	07/26/2023	ND	5.88	98.0	6.00	6.04	
Total BTEX	<0.300	0.300	07/26/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	160	16.0	07/26/2023	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	07/26/2023	ND	193	96.7	200	0.0165	
DRO >C10-C28*	<10.0	10.0	07/26/2023	ND	201	100	200	4.17	
EXT DRO >C28-C36	<10.0	10.0	07/26/2023	ND					

Surrogate: 1-Chlorooctane 93.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.7 % 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:	07/21/2023	Sampling Date:	07/21/2023
Reported:	07/27/2023	Sampling Type:	Soil
Project Name:	CHOSA DRAW 27 FED COM #003 (CHOS	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY COUNTY, NM		

**Sample ID: S - 8 2.5' (H233821-08)**

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	07/26/2023	ND	1.93	96.7	2.00	2.24	
Toluene*	<0.050	0.050	07/26/2023	ND	2.01	101	2.00	1.85	
Ethylbenzene*	<0.050	0.050	07/26/2023	ND	1.97	98.5	2.00	4.42	
Total Xylenes*	<0.150	0.150	07/26/2023	ND	5.88	98.0	6.00	6.04	
Total BTEX	<0.300	0.300	07/26/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	176	16.0	07/26/2023	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	07/26/2023	ND	193	96.7	200	0.0165	
DRO >C10-C28*	<10.0	10.0	07/26/2023	ND	201	100	200	4.17	
EXT DRO >C28-C36	<10.0	10.0	07/26/2023	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 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:	07/21/2023	Sampling Date:	07/21/2023
Reported:	07/27/2023	Sampling Type:	Soil
Project Name:	CHOSA DRAW 27 FED COM #003 (CHOS	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY COUNTY, NM		

**Sample ID: S - 9 2.5' (H233821-09)**

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	07/26/2023	ND	1.93	96.7	2.00	2.24	
Toluene*	<0.050	0.050	07/26/2023	ND	2.01	101	2.00	1.85	
Ethylbenzene*	<0.050	0.050	07/26/2023	ND	1.97	98.5	2.00	4.42	
Total Xylenes*	<0.150	0.150	07/26/2023	ND	5.88	98.0	6.00	6.04	
Total BTEX	<0.300	0.300	07/26/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	160	16.0	07/26/2023	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	07/26/2023	ND	193	96.7	200	0.0165	
DRO >C10-C28*	<10.0	10.0	07/26/2023	ND	201	100	200	4.17	
EXT DRO >C28-C36	<10.0	10.0	07/26/2023	ND					

Surrogate: 1-Chlorooctane 98.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 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:	07/21/2023	Sampling Date:	07/21/2023
Reported:	07/27/2023	Sampling Type:	Soil
Project Name:	CHOSA DRAW 27 FED COM #003 (CHOS	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY COUNTY, NM		

**Sample ID: S - 10 2.5' (H233821-10)**

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	07/26/2023	ND	1.93	96.7	2.00	2.24	
Toluene*	<0.050	0.050	07/26/2023	ND	2.01	101	2.00	1.85	
Ethylbenzene*	<0.050	0.050	07/26/2023	ND	1.97	98.5	2.00	4.42	
Total Xylenes*	<0.150	0.150	07/26/2023	ND	5.88	98.0	6.00	6.04	
Total BTEX	<0.300	0.300	07/26/2023	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	160	16.0	07/26/2023	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	07/26/2023	ND	193	96.7	200	0.0165	
DRO >C10-C28*	<10.0	10.0	07/26/2023	ND	201	100	200	4.17	
EXT DRO >C28-C36	<10.0	10.0	07/26/2023	ND					

Surrogate: 1-Chlorooctane 98.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 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:	07/21/2023	Sampling Date:	07/21/2023
Reported:	07/27/2023	Sampling Type:	Soil
Project Name:	CHOSA DRAW 27 FED COM #003 (CHOS	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY COUNTY, NM		

**Sample ID: S - 11 2.5' (H233821-11)**

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	07/26/2023	ND	1.93	96.7	2.00	2.24	
Toluene*	<0.050	0.050	07/26/2023	ND	2.01	101	2.00	1.85	
Ethylbenzene*	<0.050	0.050	07/26/2023	ND	1.97	98.5	2.00	4.42	
Total Xylenes*	<0.150	0.150	07/26/2023	ND	5.88	98.0	6.00	6.04	
Total BTEX	<0.300	0.300	07/26/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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
<b>Chloride</b>	<b>176</b>	16.0	07/26/2023	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	07/26/2023	ND	193	96.7	200	0.0165	
DRO >C10-C28*	<10.0	10.0	07/26/2023	ND	201	100	200	4.17	
EXT DRO >C28-C36	<10.0	10.0	07/26/2023	ND					

Surrogate: 1-Chlorooctane 87.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.7 % 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:	07/21/2023	Sampling Date:	07/21/2023
Reported:	07/27/2023	Sampling Type:	Soil
Project Name:	CHOSA DRAW 27 FED COM #003 (CHOS	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY COUNTY, NM		

**Sample ID: S - 12 2.5' (H233821-12)**

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	07/26/2023	ND	1.93	96.7	2.00	2.24	
Toluene*	<0.050	0.050	07/26/2023	ND	2.01	101	2.00	1.85	
Ethylbenzene*	<0.050	0.050	07/26/2023	ND	1.97	98.5	2.00	4.42	
Total Xylenes*	<0.150	0.150	07/26/2023	ND	5.88	98.0	6.00	6.04	
Total BTEX	<0.300	0.300	07/26/2023	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	192	16.0	07/26/2023	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	07/26/2023	ND	193	96.7	200	0.0165	
DRO >C10-C28*	<10.0	10.0	07/26/2023	ND	201	100	200	4.17	
EXT DRO >C28-C36	<10.0	10.0	07/26/2023	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 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:	07/21/2023	Sampling Date:	07/21/2023
Reported:	07/27/2023	Sampling Type:	Soil
Project Name:	CHOSA DRAW 27 FED COM #003 (CHOS	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY COUNTY, NM		

**Sample ID: S - 13 2.5' (H233821-13)**

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	07/26/2023	ND	1.93	96.7	2.00	2.24	
Toluene*	<0.050	0.050	07/26/2023	ND	2.01	101	2.00	1.85	
Ethylbenzene*	<0.050	0.050	07/26/2023	ND	1.97	98.5	2.00	4.42	
Total Xylenes*	<0.150	0.150	07/26/2023	ND	5.88	98.0	6.00	6.04	
Total BTEX	<0.300	0.300	07/26/2023	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	160	16.0	07/26/2023	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	07/26/2023	ND	193	96.7	200	0.0165	
DRO >C10-C28*	<10.0	10.0	07/26/2023	ND	201	100	200	4.17	
EXT DRO >C28-C36	<10.0	10.0	07/26/2023	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 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:	07/21/2023	Sampling Date:	07/21/2023
Reported:	07/27/2023	Sampling Type:	Soil
Project Name:	CHOSA DRAW 27 FED COM #003 (CHOS	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY COUNTY, NM		

**Sample ID: S - 14 2.5' (H233821-14)**

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	07/26/2023	ND	1.93	96.7	2.00	2.24	
Toluene*	<0.050	0.050	07/26/2023	ND	2.01	101	2.00	1.85	
Ethylbenzene*	<0.050	0.050	07/26/2023	ND	1.97	98.5	2.00	4.42	
Total Xylenes*	<0.150	0.150	07/26/2023	ND	5.88	98.0	6.00	6.04	
Total BTEX	<0.300	0.300	07/26/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	144	16.0	07/26/2023	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	07/26/2023	ND	193	96.7	200	0.0165	
DRO >C10-C28*	<10.0	10.0	07/26/2023	ND	201	100	200	4.17	
EXT DRO >C28-C36	<10.0	10.0	07/26/2023	ND					

Surrogate: 1-Chlorooctane 118 % 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:	07/21/2023	Sampling Date:	07/21/2023
Reported:	07/27/2023	Sampling Type:	Soil
Project Name:	CHOSA DRAW 27 FED COM #003 (CHOS	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY COUNTY, NM		

**Sample ID: S - 15 2.5' (H233821-15)**

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	07/26/2023	ND	1.93	96.7	2.00	2.24	
Toluene*	<0.050	0.050	07/26/2023	ND	2.01	101	2.00	1.85	
Ethylbenzene*	<0.050	0.050	07/26/2023	ND	1.97	98.5	2.00	4.42	
Total Xylenes*	<0.150	0.150	07/26/2023	ND	5.88	98.0	6.00	6.04	
Total BTEX	<0.300	0.300	07/26/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	96.0	16.0	07/26/2023	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	07/26/2023	ND	193	96.7	200	0.0165	
DRO >C10-C28*	<10.0	10.0	07/26/2023	ND	201	100	200	4.17	
EXT DRO >C28-C36	<10.0	10.0	07/26/2023	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 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:	07/21/2023	Sampling Date:	07/21/2023
Reported:	07/27/2023	Sampling Type:	Soil
Project Name:	CHOSA DRAW 27 FED COM #003 (CHOS	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY COUNTY, NM		

**Sample ID: S - 16 2.5' (H233821-16)**

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	07/25/2023	ND	2.18	109	2.00	0.357	
Toluene*	<0.050	0.050	07/25/2023	ND	2.12	106	2.00	1.13	
Ethylbenzene*	<0.050	0.050	07/25/2023	ND	2.06	103	2.00	0.191	
Total Xylenes*	<0.150	0.150	07/25/2023	ND	6.22	104	6.00	0.597	
Total BTEX	<0.300	0.300	07/25/2023	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	112	16.0	07/26/2023	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	07/25/2023	ND	201	101	200	11.4	
DRO >C10-C28*	<10.0	10.0	07/25/2023	ND	204	102	200	4.16	
EXT DRO >C28-C36	<10.0	10.0	07/25/2023	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 120 % 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:	07/21/2023	Sampling Date:	07/21/2023
Reported:	07/27/2023	Sampling Type:	Soil
Project Name:	CHOSA DRAW 27 FED COM #003 (CHOS	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY COUNTY, NM		

**Sample ID: S - 17 2.5' (H233821-17)**

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	07/25/2023	ND	2.18	109	2.00	0.357	
Toluene*	<0.050	0.050	07/25/2023	ND	2.12	106	2.00	1.13	
Ethylbenzene*	<0.050	0.050	07/25/2023	ND	2.06	103	2.00	0.191	
Total Xylenes*	<0.150	0.150	07/25/2023	ND	6.22	104	6.00	0.597	
Total BTEX	<0.300	0.300	07/25/2023	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	128	16.0	07/26/2023	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	07/25/2023	ND	201	101	200	11.4	
DRO >C10-C28*	<10.0	10.0	07/25/2023	ND	204	102	200	4.16	
EXT DRO >C28-C36	<10.0	10.0	07/25/2023	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 120 % 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:	07/21/2023	Sampling Date:	07/21/2023
Reported:	07/27/2023	Sampling Type:	Soil
Project Name:	CHOSA DRAW 27 FED COM #003 (CHOS	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY COUNTY, NM		

**Sample ID: S - 18 2.5' (H233821-18)**

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	07/25/2023	ND	2.18	109	2.00	0.357	
Toluene*	<0.050	0.050	07/25/2023	ND	2.12	106	2.00	1.13	
Ethylbenzene*	<0.050	0.050	07/25/2023	ND	2.06	103	2.00	0.191	
Total Xylenes*	<0.150	0.150	07/25/2023	ND	6.22	104	6.00	0.597	
Total BTEX	<0.300	0.300	07/25/2023	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	144	16.0	07/26/2023	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	07/25/2023	ND	201	101	200	11.4	
DRO >C10-C28*	<10.0	10.0	07/25/2023	ND	204	102	200	4.16	
EXT DRO >C28-C36	<10.0	10.0	07/25/2023	ND					

Surrogate: 1-Chlorooctane 115 % 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:	07/21/2023	Sampling Date:	07/21/2023
Reported:	07/27/2023	Sampling Type:	Soil
Project Name:	CHOSA DRAW 27 FED COM #003 (CHOS	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY COUNTY, NM		

**Sample ID: S - 19 2.5' (H233821-19)**

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	07/25/2023	ND	2.18	109	2.00	0.357	
Toluene*	<0.050	0.050	07/25/2023	ND	2.12	106	2.00	1.13	
Ethylbenzene*	<0.050	0.050	07/25/2023	ND	2.06	103	2.00	0.191	
Total Xylenes*	<0.150	0.150	07/25/2023	ND	6.22	104	6.00	0.597	
Total BTEX	<0.300	0.300	07/25/2023	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	96.0	16.0	07/26/2023	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	07/25/2023	ND	201	101	200	11.4	
DRO >C10-C28*	<10.0	10.0	07/25/2023	ND	204	102	200	4.16	
EXT DRO >C28-C36	<10.0	10.0	07/25/2023	ND					

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 122 % 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:	07/21/2023	Sampling Date:	07/21/2023
Reported:	07/27/2023	Sampling Type:	Soil
Project Name:	CHOSA DRAW 27 FED COM #003 (CHOS	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY COUNTY, NM		

**Sample ID: S - 20 2.5' (H233821-20)**

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	07/25/2023	ND	2.18	109	2.00	0.357	
Toluene*	<0.050	0.050	07/25/2023	ND	2.12	106	2.00	1.13	
Ethylbenzene*	<0.050	0.050	07/25/2023	ND	2.06	103	2.00	0.191	
Total Xylenes*	<0.150	0.150	07/25/2023	ND	6.22	104	6.00	0.597	
Total BTEX	<0.300	0.300	07/25/2023	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	128	16.0	07/26/2023	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	07/25/2023	ND	201	101	200	11.4	
DRO >C10-C28*	<10.0	10.0	07/25/2023	ND	204	102	200	4.16	
EXT DRO >C28-C36	<10.0	10.0	07/25/2023	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 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:	07/21/2023	Sampling Date:	07/21/2023
Reported:	07/27/2023	Sampling Type:	Soil
Project Name:	CHOSA DRAW 27 FED COM #003 (CHOS	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY COUNTY, NM		

**Sample ID: S - 21 2.5' (H233821-21)**

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	07/26/2023	ND	2.03	101	2.00	2.51	
Toluene*	<0.050	0.050	07/26/2023	ND	1.92	95.9	2.00	0.526	
Ethylbenzene*	<0.050	0.050	07/26/2023	ND	2.00	100	2.00	0.404	
Total Xylenes*	<0.150	0.150	07/26/2023	ND	5.94	98.9	6.00	0.291	
Total BTEX	<0.300	0.300	07/26/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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	128	16.0	07/26/2023	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	07/25/2023	ND	201	101	200	11.4	
DRO >C10-C28*	<10.0	10.0	07/25/2023	ND	204	102	200	4.16	
EXT DRO >C28-C36	<10.0	10.0	07/25/2023	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 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:	07/21/2023	Sampling Date:	07/21/2023
Reported:	07/27/2023	Sampling Type:	Soil
Project Name:	CHOSA DRAW 27 FED COM #003 (CHOS	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY COUNTY, NM		

**Sample ID: S - 22 2.5' (H233821-22)**

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	07/26/2023	ND	2.03	101	2.00	2.51	
Toluene*	<0.050	0.050	07/26/2023	ND	1.92	95.9	2.00	0.526	
Ethylbenzene*	<0.050	0.050	07/26/2023	ND	2.00	100	2.00	0.404	
Total Xylenes*	<0.150	0.150	07/26/2023	ND	5.94	98.9	6.00	0.291	
Total BTEX	<0.300	0.300	07/26/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	112	16.0	07/26/2023	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	07/25/2023	ND	201	101	200	11.4	
DRO >C10-C28*	<10.0	10.0	07/25/2023	ND	204	102	200	4.16	
EXT DRO >C28-C36	<10.0	10.0	07/25/2023	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 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:	07/21/2023	Sampling Date:	07/21/2023
Reported:	07/27/2023	Sampling Type:	Soil
Project Name:	CHOSA DRAW 27 FED COM #003 (CHOS	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY COUNTY, NM		

**Sample ID: S - 23 2.5' (H233821-23)**

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	07/26/2023	ND	2.03	101	2.00	2.51	
Toluene*	<0.050	0.050	07/26/2023	ND	1.92	95.9	2.00	0.526	
Ethylbenzene*	<0.050	0.050	07/26/2023	ND	2.00	100	2.00	0.404	
Total Xylenes*	<0.150	0.150	07/26/2023	ND	5.94	98.9	6.00	0.291	
Total BTEX	<0.300	0.300	07/26/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	128	16.0	07/26/2023	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	07/25/2023	ND	201	101	200	11.4	
DRO >C10-C28*	<10.0	10.0	07/25/2023	ND	204	102	200	4.16	
EXT DRO >C28-C36	<10.0	10.0	07/25/2023	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 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:	07/21/2023	Sampling Date:	07/21/2023
Reported:	07/27/2023	Sampling Type:	Soil
Project Name:	CHOSA DRAW 27 FED COM #003 (CHOS	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY COUNTY, NM		

**Sample ID: S - 24 2.5' (H233821-24)**

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	07/26/2023	ND	2.03	101	2.00	2.51	
Toluene*	<0.050	0.050	07/26/2023	ND	1.92	95.9	2.00	0.526	
Ethylbenzene*	<0.050	0.050	07/26/2023	ND	2.00	100	2.00	0.404	
Total Xylenes*	<0.150	0.150	07/26/2023	ND	5.94	98.9	6.00	0.291	
Total BTEX	<0.300	0.300	07/26/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 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	128	16.0	07/26/2023	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	07/25/2023	ND	201	101	200	11.4	
DRO >C10-C28*	<10.0	10.0	07/25/2023	ND	204	102	200	4.16	
EXT DRO >C28-C36	<10.0	10.0	07/25/2023	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 120 % 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:	07/21/2023	Sampling Date:	07/21/2023
Reported:	07/27/2023	Sampling Type:	Soil
Project Name:	CHOSA DRAW 27 FED COM #003 (CHOS	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY COUNTY, NM		

**Sample ID: SW - 1 2.5' (H233821-25)**

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	07/26/2023	ND	2.03	101	2.00	2.51		
Toluene*	<0.050	0.050	07/26/2023	ND	1.92	95.9	2.00	0.526		
Ethylbenzene*	<0.050	0.050	07/26/2023	ND	2.00	100	2.00	0.404		
Total Xylenes*	<0.150	0.150	07/26/2023	ND	5.94	98.9	6.00	0.291		
Total BTEX	<0.300	0.300	07/26/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	07/26/2023	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	07/25/2023	ND	209	105	200	0.296		
DRO >C10-C28*	<10.0	10.0	07/25/2023	ND	224	112	200	6.62		
EXT DRO >C28-C36	<10.0	10.0	07/25/2023	ND						

Surrogate: 1-Chlorooctane 112 % 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:	07/21/2023	Sampling Date:	07/21/2023
Reported:	07/27/2023	Sampling Type:	Soil
Project Name:	CHOSA DRAW 27 FED COM #003 (CHOS	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY COUNTY, NM		

**Sample ID: SW - 2 2.5' (H233821-26)**

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	07/26/2023	ND	2.03	101	2.00	2.51		
Toluene*	<0.050	0.050	07/26/2023	ND	1.92	95.9	2.00	0.526		
Ethylbenzene*	<0.050	0.050	07/26/2023	ND	2.00	100	2.00	0.404		
Total Xylenes*	<0.150	0.150	07/26/2023	ND	5.94	98.9	6.00	0.291		
Total BTEX	<0.300	0.300	07/26/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	07/26/2023	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	07/25/2023	ND	209	105	200	0.296		
DRO >C10-C28*	<10.0	10.0	07/25/2023	ND	224	112	200	6.62		
EXT DRO >C28-C36	<10.0	10.0	07/25/2023	ND						

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 122 % 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:	07/21/2023	Sampling Date:	07/21/2023
Reported:	07/27/2023	Sampling Type:	Soil
Project Name:	CHOSA DRAW 27 FED COM #003 (CHOS	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY COUNTY, NM		

**Sample ID: SW - 3 2.5' (H233821-27)**

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	07/26/2023	ND	2.03	101	2.00	2.51	
Toluene*	<0.050	0.050	07/26/2023	ND	1.92	95.9	2.00	0.526	
Ethylbenzene*	<0.050	0.050	07/26/2023	ND	2.00	100	2.00	0.404	
Total Xylenes*	<0.150	0.150	07/26/2023	ND	5.94	98.9	6.00	0.291	
Total BTEX	<0.300	0.300	07/26/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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	07/26/2023	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	07/25/2023	ND	209	105	200	0.296	
DRO >C10-C28*	<10.0	10.0	07/25/2023	ND	224	112	200	6.62	
EXT DRO >C28-C36	<10.0	10.0	07/25/2023	ND					

Surrogate: 1-Chlorooctane 116 % 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:	07/21/2023	Sampling Date:	07/21/2023
Reported:	07/27/2023	Sampling Type:	Soil
Project Name:	CHOSA DRAW 27 FED COM #003 (CHOS	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY COUNTY, NM		

**Sample ID: SW - 4 2.5' (H233821-28)**

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	07/26/2023	ND	2.03	101	2.00	2.51		
Toluene*	<0.050	0.050	07/26/2023	ND	1.92	95.9	2.00	0.526		
Ethylbenzene*	<0.050	0.050	07/26/2023	ND	2.00	100	2.00	0.404		
Total Xylenes*	<0.150	0.150	07/26/2023	ND	5.94	98.9	6.00	0.291		
Total BTEX	<0.300	0.300	07/26/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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	48.0	16.0	07/26/2023	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	07/25/2023	ND	209	105	200	0.296		
DRO >C10-C28*	<10.0	10.0	07/25/2023	ND	224	112	200	6.62		
EXT DRO >C28-C36	<10.0	10.0	07/25/2023	ND						

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 126 % 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:	07/21/2023	Sampling Date:	07/21/2023
Reported:	07/27/2023	Sampling Type:	Soil
Project Name:	CHOSA DRAW 27 FED COM #003 (CHOS	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY COUNTY, NM		

**Sample ID: SW - 5 2.5' (H233821-29)**

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	07/26/2023	ND	2.03	101	2.00	2.51		
Toluene*	<0.050	0.050	07/26/2023	ND	1.92	95.9	2.00	0.526		
Ethylbenzene*	<0.050	0.050	07/26/2023	ND	2.00	100	2.00	0.404		
Total Xylenes*	<0.150	0.150	07/26/2023	ND	5.94	98.9	6.00	0.291		
Total BTEX	<0.300	0.300	07/26/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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	07/26/2023	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	07/25/2023	ND	209	105	200	0.296		
DRO >C10-C28*	<10.0	10.0	07/25/2023	ND	224	112	200	6.62		
EXT DRO >C28-C36	<10.0	10.0	07/25/2023	ND						

Surrogate: 1-Chlorooctane 117 % 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:	07/21/2023	Sampling Date:	07/21/2023
Reported:	07/27/2023	Sampling Type:	Soil
Project Name:	CHOSA DRAW 27 FED COM #003 (CHOS	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY COUNTY, NM		

**Sample ID: SW - 6 2.5' (H233821-30)**

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	07/26/2023	ND	2.03	101	2.00	2.51	
Toluene*	<0.050	0.050	07/26/2023	ND	1.92	95.9	2.00	0.526	
Ethylbenzene*	<0.050	0.050	07/26/2023	ND	2.00	100	2.00	0.404	
Total Xylenes*	<0.150	0.150	07/26/2023	ND	5.94	98.9	6.00	0.291	
Total BTEX	<0.300	0.300	07/26/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	07/26/2023	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	07/26/2023	ND	209	105	200	0.296	
DRO >C10-C28*	<10.0	10.0	07/26/2023	ND	224	112	200	6.62	
EXT DRO >C28-C36	<10.0	10.0	07/26/2023	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



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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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*Celey D. Keene*

Celey D. Keene, Lab Director/Quality Manager







**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 263751

**CONDITIONS**

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd, Ste 300N Midland, TX 79706	OGRID: 162683
	Action Number: 263751
	Action Type: [C-141] Release Corrective Action (C-141)

**CONDITIONS**

Created By	Condition	Condition Date
scott.rodgers	None	2/14/2024