



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

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.

Approximate Depth to Groundwater	14 Feet/BGS
---	--------------------

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

BH-5

BH-6

BH-7

BH-8

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

772

748

748

Chosa Draw 27 Fed Com #003



748

724

425




3 mi

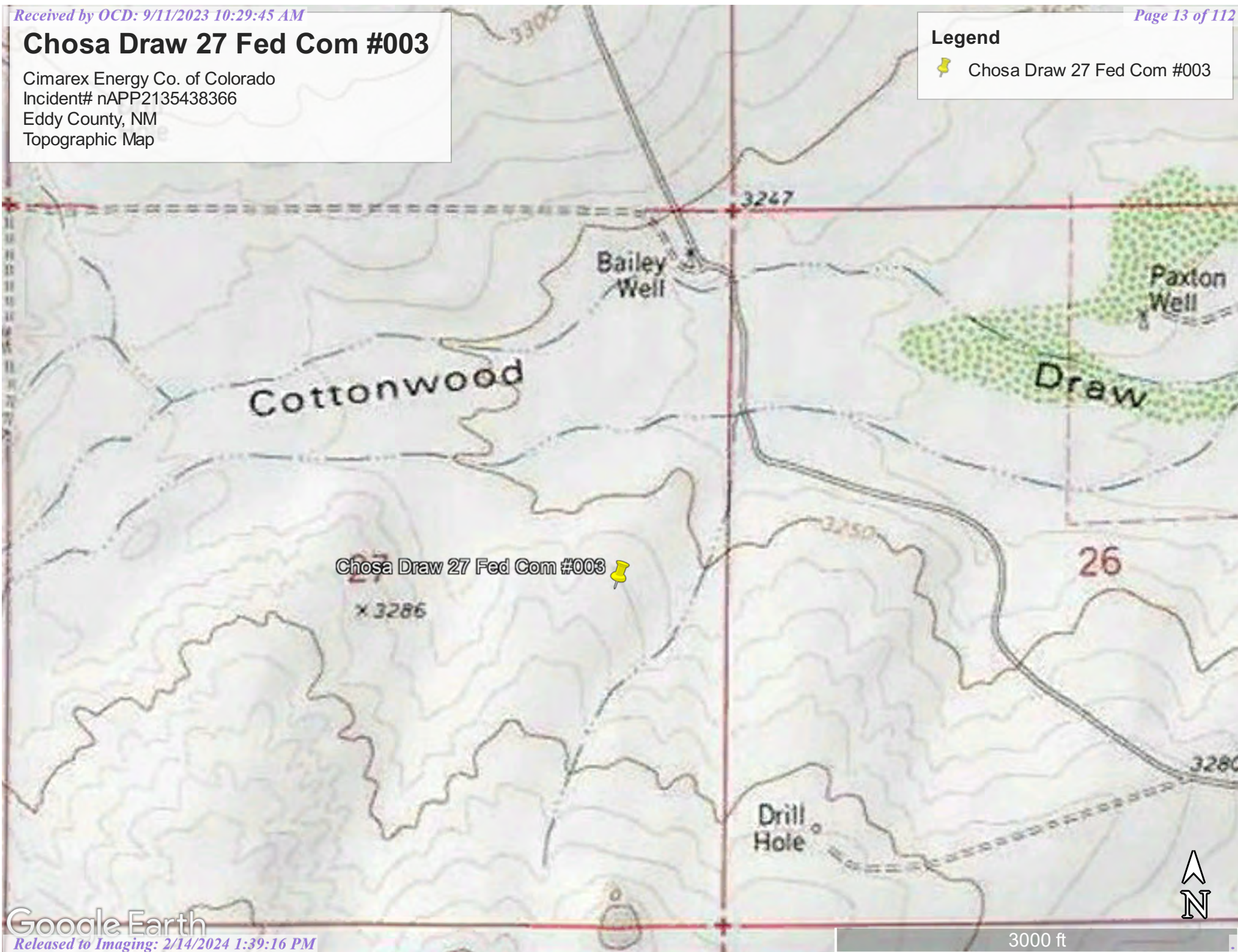
Google Earth

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

Chosa Draw 27 Fed Com #003



Google Earth

Released to Imaging: 2/14/2024 1:39:16 PM

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

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

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 FIRMette



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) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		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 Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone D
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
		Area of Undetermined Flood Hazard Zone D
GENERAL STRUCTURES		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5 Cross Sections with 1% Annual Chance Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
MAP PANELS		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: lluiig@cimarex.com_____	Telephone: (432) 208-3035_____
<u>OCD Only</u>	
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 not 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.

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

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

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

Oil Conservation Division

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:  Date: _____

email: _____ Telephone: _____

OCD Only

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

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

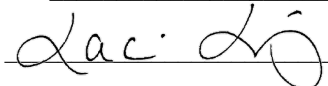
The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled 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:  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
<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 21st, 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 | 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.

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 with a large, stylized 'C' and 'K'.

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)

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 BTX	<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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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, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	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

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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, 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	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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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

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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)

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	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 BTX	<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	448	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

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 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, SM4500Cl-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

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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, 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*	<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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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
Chloride	176	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*	17.3	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, 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*	174	10.0	06/05/2023	ND	173	86.3	200	14.1	
EXT DRO >C28-C36	20.2	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)

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	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 BTX	<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*	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, 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*	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

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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)

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	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 BTX	<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, SM4500Cl-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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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, 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*	<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, 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*	<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, SM4500Cl-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, 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	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, 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	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, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	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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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)

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	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 BTX	<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, 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	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, 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	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	
Chloride	1960	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*	61.8	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, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	464	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*	197	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, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	432	16.0	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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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, SM4500Cl-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, SM4500CI-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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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, SM4500Cl-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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A handwritten signature in black ink, appearing to read "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

Company Name: H&R Enterprises		BILL TO		ANALYSIS REQUEST	
Project Manager: Michael Collier		P.O. #:			
Address:		Company: Cimarex			
City: State: Zip:		Attn: Laci Luig			
Phone #: Fax #:		Address:			
Project #:		City: State: Zip:			
Project Name: Chosa Draw 27 Fed Com #3 (chosa)		Phone #:			
Project Location: Eddy County		Fax #:			
Sampler Name: R Bell					
FOR LAB USE ONLY					
Lab I.D.		PRESERV.		SAMPLING	
	(G)RAB OR (C)OMP.				
	# CONTAINERS				
	GROUNDWATER				
	WASTEWATER				
	SOIL				
	OIL				
	SLUDGE				
	OTHER :				
	ACID/BASE:				
	ICE / COOL				
	OTHER :				
	DATE				
	TIME				
	BTEX				
	TPH				
	Chlorides				
ALERT NOTE: Lab will not accept samples without a valid chain of custody. Samples must be sealed and labeled by the person paid by the client. All claims including those for negligence and any other claims whatsoever will 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 any damages, including those for negligence and any other claims, arising out of or related to the performance of services rendered by Cardinal, regardless of whether such claim is based upon any of the above stated releases or otherwise.					
REMARKS: PG 1044					
Relinquished By: [Signature]		Received By: [Signature]		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:	
Date: 10/2/23		Date: 10/2/23		All Results are emailed. Please provide Email address:	
Time: 1510		Time: 1510			
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Sample Condition Cool <input checked="" type="checkbox"/> Warm <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/>		CHECKED BY: (Initials) VC	
Observed Temp. °C: 3.7 Corrected Temp. °C: 3.1		Thermometer ID #113 Correction Factor -0.5°C		Standard <input checked="" type="checkbox"/> Backup (not for) Sample Condition Cool <input type="checkbox"/> Warm <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/>	

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

FORM-006 R 3.2 10/07/21



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: H&R Enterprises Project Manager: Michael Collier Address: City: State: Zip: Phone #: Fax #: Project #: Project Owner: Project Name: Chosa Draw 27 Fed Com #3 (Chosa) Project Location: Eddy County Sampler Name: R Bell Lab I.D.:				BILL TO P.O. #: Company: Cimarex Attn: Laci Ludwig Address: City: State: Zip: Phone #: Fax #:				ANALYSIS REQUEST			
FOR LAB USE ONLY <div style="display: flex; justify-content: space-between;"> <div> DATE TIME </div> <div> DATE TIME </div> </div>				MATRIX <input type="checkbox"/> GROUNDWATER <input checked="" type="checkbox"/> WASTEWATER <input type="checkbox"/> SOIL <input type="checkbox"/> OIL <input type="checkbox"/> SLUDGE <input type="checkbox"/> OTHER :		PRESERV. <input checked="" type="checkbox"/> ICE / COOL <input type="checkbox"/> OTHER :		SAMPLING			
				BTX <input checked="" type="checkbox"/> BTX <input checked="" type="checkbox"/> TPH <input checked="" type="checkbox"/> Chlorides							
Relinquished By: <i>[Signature]</i> Date: 10-2-23 Relinquished By: <i>[Signature]</i> Date: 10-2-23				Received By: <i>[Signature]</i> Date: 10-2-23 Received By: <i>[Signature]</i> Date: 10-2-23		Verbal Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Phone #:					
Remarks:				Remarks:		Remarks:					
Thermometer ID #113 Correction Factor -0.5°C				Thermometer ID #113 Correction Factor -0.5°C		Thermometer ID #113 Correction Factor -0.5°C					

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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

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.

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 with a large, stylized 'C' and 'K'.

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)

BTX 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 BTX	<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

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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)

BTX 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 BTX	<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

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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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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, 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	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

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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)

BTX 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 BTX	<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

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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, 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	07/26/2023	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

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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)

BTX 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 BTX	<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

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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)

BTX 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 BTX	<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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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)

BTX 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 BTX	<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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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, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	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, SM4500Cl-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, SM4500Cl-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, SM4500Cl-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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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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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, 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	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, 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 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, 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 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, 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	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, 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 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: 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, 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 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, 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	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, 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 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, 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	07/26/2023	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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A handwritten signature in black ink, appearing to read "Celey D. Keene", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Maryland, 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:		Company: Cimarex													
City:		Attn: Lael Luing													
State:		Address:													
Phone #:		City:													
Fax #:		State:													
Project #:		Zip:													
Project Name: Chosa Draw 27 Fed Com #003 (Chosa)		Phone #:													
Project Location: Eddy		Fax #:													
Sampler Name: R. Bell		PRESERV.		SAMPLING											
Lab I.D.		FOR LAB USE ONLY													
		(G)RAB OR (C)OMP.		MATRIX		DATE		TIME		BTX		TPH		Chlorides	
		# CONTAINERS													
		GROUNDWATER													
		WASTEWATER													
		SOIL													
		OIL													
		SLUDGE													
		OTHER :													
		ACID/BASE:													
		ICE / COOL													
		OTHER :													
1		S-1 2.5'		C 1		X		7/2/23		X		X		X	
2		S-2 2.5'		C 1		X				X		X		X	
3		S-3 2.5'		C 1		X				X		X		X	
4		S-4 2.5'		C 1		X				X		X		X	
5		S-5 2.5'		C 1		X				X		X		X	
6		S-6 2.5'		C 1		X				X		X		X	
7		S-7 2.5'		C 1		X				X		X		X	
8		S-8 2.5'		C 1		X				X		X		X	
9		S-9 2.5'		C 1		X				X		X		X	
10		S-10 2.5'		C 1		X				X		X		X	
Relinquished By: [Signature]		Date: 7-2-23		Received By: [Signature]		Date: 7/2/23		Time: 1:52		Thermometer ID: 1140		Standard: [X]		Observed Temp: 49.7/2/23	
Relinquished By: [Signature]		Date: 7-2-23		Received By: [Signature]		Date: 7/2/23		Time: 1:52		Thermometer ID: 1140		Standard: [X]		Observed Temp: 49.7/2/23	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Observed Temp: 4.9		Corrected Temp: 4.9		Sample Condition Cool <input checked="" type="checkbox"/> Dry <input checked="" type="checkbox"/> Wet <input type="checkbox"/>		CHECKED BY: [Signature]		Thermometer ID: 1140		Standard: [X]		Observed Temp: 49.7/2/23	
FORM-008 R.3.2 10/07/21		Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com													



terprises

BILL TO

ANALYSIS REQUEST

[illegible]

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FORM-006 R 3.2 10/07/21

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Company Name: H&R Enterprises

ANALYSIS REQUEST

P.O. #:	
Company: Climarex	

Attn: Laci Luig	
-----------------	--

Address:	
----------	--

State:	Zip:
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Fax #:

	PRESERV.		
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X	X

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[illegible]

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Page 35 of 35

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