



[MCollier@H-R\\_Enterprises.com](mailto:MCollier@H-R_Enterprises.com) 575-909-0326

## **Remediation and Closure Report**

Chief 30 State #007H R.O.W.  
nAPP2222925201  
Lea County, New Mexico

### **Prepared For:**

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

### **Prepared By:**

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

**January 16, 2023**

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

Subject: **Remediation and Closure Report**  
Chief 30 State #007H R.O.W.  
Lea County, NM

Dear Mrs. Nobui,

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

### **Site Information**

The Chief 30 State #007H is located approximately 28.1 miles Southwest of Hobbs, New Mexico. The legal location for this release is Unit Letter C, Section 30, Township 20 South and Range 35 East in Lea County, New Mexico. More specifically the latitude and longitude for the release are 32.54970 North and -103.49700 West. Site plans are presented in [Appendix I](#).

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

## Groundwater and Site Characterization

The New Mexico Office of the State Engineer web site indicates that the nearest reported depth to groundwater is 270-feet below ground surface (BGS). See [Appendix II](#) for the referenced groundwater data.

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

<b>Approximate Depth to Groundwater</b>	<b>270 Feet/BGS</b>
---	---------------------

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

Due to groundwater data not being current an exploratory water bore was drilled at the Chief 30 State #003H location 0.46 miles to the southwest of the release area on August 30,2022, to a depth of 55-feet BGS. See Exploratory Water Bore Map in [Appendix I](#) for location of the exploratory water bore in relation to the release area. On the date of drilling no groundwater was present nor was it present when gauging was performed on September 07,2022. As this remediation is in an area with a depth to groundwater of greater 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**
51-100 feet	Chloride **	EPA 300.0 or SM4500 CIB	10,000 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	2,500 mg/kg
	GRO+DRO	EPA SW-849 Method 8015M	1,000 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg



### **Incident Description**

On August 16, 2022, it was discovered that a buried flowline in the right-of-way developed a hole releasing 17 barrels (bbls) of crude oil and 20 bbls of produced water onto the right-of-way and pasture area. A vacuum truck was able to recover 7 bbls of oil and 0 bbls of produced water.

### **Site Assessment and Remediation Activities**

Based on the results H&R's on site field screenings, and upon client authorization, excavation activities of the release area began. Once excavation was completed confirmation samples were collected from the bottom and sidewalls of the excavation to confirm that NMOCD closure criteria had been met, the results of which can be found in the following data table. Confirmation sample locations and excavation dimensions can be found on Final 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	1000 mg/kg		2500 mg/kg	2500 mg/kg	mg/kg
S-1	11/15/2022	16'	ND	ND	ND	ND	ND	0	112
S-2	11/15/2022	16'	ND	ND	ND	ND	ND	0	144
S-3	11/15/2022	16'	ND	ND	ND	10.6	ND	10.6	176
S-4	11/15/2022	16'	ND	ND	ND	ND	ND	0	144
S-5	11/15/2022	28'	ND	ND	ND	ND	ND	0	112
S-6	11/15/2022	28'	ND	ND	ND	ND	ND	0	144
S-7	11/15/2022	28'	ND	ND	ND	ND	ND	0	112
S-8	11/15/2022	28'	ND	ND	ND	ND	ND	0	160
S-9	11/15/2022	25'	ND	ND	ND	32.4	ND	32.4	192
S-10	11/15/2022	25'	ND	ND	ND	26.4	ND	26.4	208
S-11	11/15/2022	25'	ND	ND	ND	ND	ND	0	16
S-12	11/15/2022	25'	ND	ND	ND	ND	ND	0	64
S-13	11/15/2022	20'	ND	ND	ND	ND	ND	0	48
SW-1	11/15/2022	16'	ND	ND	ND	ND	ND	0	16
SW-2	11/15/2022	16'	ND	ND	ND	ND	ND	0	48
SW-3	11/15/2022	16'	ND	ND	ND	ND	ND	0	32
SW-4	11/15/2022	16'	ND	ND	ND	ND	ND	0	32
SW-5	11/15/2022	16'	ND	ND	ND	ND	ND	0	64
SW-6	11/15/2022	28'	ND	ND	ND	ND	ND	0	32
SW-7	11/15/2022	28'	ND	ND	ND	ND	ND	0	48
SW-8	11/15/2022	28'	ND	ND	ND	ND	ND	0	48
SW-9	11/15/2022	28'	ND	ND	ND	ND	ND	0	48
SW-10	11/15/2022	28'	ND	ND	ND	ND	ND	0	32
SW-11	11/15/2022	25'	ND	ND	ND	ND	ND	0	64
SW-12	11/15/2022	25'	ND	ND	ND	ND	ND	0	32
SW-13	11/15/2022	25'	ND	ND	ND	ND	ND	0	32
SW-14	11/15/2022	25'	ND	ND	ND	ND	ND	0	48
SW-15	11/15/2022	25'	ND	ND	ND	ND	ND	0	46
SW-16	11/15/2022	25'	ND	ND	ND	ND	ND	0	48
SW-17	11/15/2022	25'	ND	ND	ND	16.2	ND	16.2	48
SW-18	11/15/2022	25'	ND	ND	ND	12.1	ND	12.1	48
SW-19	11/15/2022	25'	ND	ND	ND	ND	ND	0	48
SW-20	11/15/2022	25'	ND	ND	ND	14.2	ND	14.2	48
SW-21	11/15/2022	25'	ND	ND	ND	ND	ND	0	48
SW-22	11/15/2022	25'	ND	ND	ND	ND	ND	0	80
SW-23	11/15/2022	25'	ND	ND	ND	ND	ND	0	64
SW-24	11/15/2022	25'	ND	ND	ND	ND	ND	0	48
SW-25	11/15/2022	20'	ND	ND	ND	15.5	ND	15.5	48

ND = Analyte Not Detected SW = Sidewall

Table 2: Confirmation Soil Sample Analysis Cont'd

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	1000 mg/kg		2500 mg/kg	2500 mg/kg	mg/kg
SW-26	11/15/2022	28'	ND	ND	ND	ND	ND	0	32
SW-27	11/15/2022	28'	ND	ND	ND	ND	ND	0	32
SW-28	11/15/2022	28'	ND	ND	ND	ND	ND	0	32
SW-29	11/15/2022	28'	ND	ND	ND	ND	ND	0	16
SW-30	11/15/2022	28'	ND	ND	ND	ND	ND	0	32
SW-31	11/15/2022	16'	ND	ND	ND	ND	ND	0	48
SW-32	11/15/2022	16'	ND	ND	ND	ND	ND	0	32
SW-33	11/15/2022	16'	ND	ND	ND	ND	ND	0	32
SW-34	11/15/2022	16'	ND	ND	ND	ND	ND	0	64
SW-35	11/15/2022	16'	ND	ND	ND	ND	ND	0	48
SW-36	11/15/2022	16'	ND	ND	ND	ND	ND	0	64
BG-1	11/15/2022	0-1'	ND	ND	ND	ND	ND	0	64
BG-2	11/15/2022	0-1'	ND	ND	ND	ND	ND	0	64
BG-3	11/15/2022	0-1'	ND	ND	ND	ND	ND	0	48
BG-4	11/15/2022	0-1'	ND	ND	ND	ND	ND	0	48
BG-5	11/15/2022	0-1'	ND	ND	ND	ND	ND	0	48
BG-6	11/15/2022	0-1'	ND	ND	ND	ND	ND	0	48

ND = Analyte Not Detected SW = Sidewall BG = Background

## Remedial Actions

- The impacted area near sample points S-1 through S-4 were excavated to a total depth of 16-feet BGS.
- The impacted area near sample points S-5 through S-8 were excavated to 28-feet BGS.
- The impacted area near sample point S-9 through S-12 was excavated to 25-feet BGS.
- The impacted area near sample point S-13 was excavated to 20-feet BGS.
- Composite confirmation samples were obtained from the sidewalls and bottoms of the excavated areas to verify that all contaminants above closure criteria had been removed. The results are shown on Table 2 and the corresponding lab reports may be found in [Appendix V](#).
- All the excavated material was hauled to Lea Land, a NMOCD approved solid waste disposal facility.
- The excavated were backfilled with new caliche to a depth of 6-feet BGS and then new topsoil to surface level, brought to grade, machine compacted and contoured to match the surrounding area.
- The Final C-141 formally documenting the remedial actions is attached in [Appendix III](#).

## Closure

Based on field screenings, 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

A handwritten signature in black ink, appearing to read "Michael Collier".

Michael Collier  
Environmental Project Manager

### Attachments:

- Appendix I Site Maps, FEMA Flood Zone Map
- Appendix II Soil Survey, Groundwater Data, Exploratory Water Bore Map
- Appendix III Initial and Final C-141
- Appendix IV Photographic Documentation
- Appendix V Laboratory Reports

# **APPENDIX I**

## **SITE MAPS**

### **KARST MAP**

### **TOPOGRAPHIC MAP**






### **LOCATOR MAP**

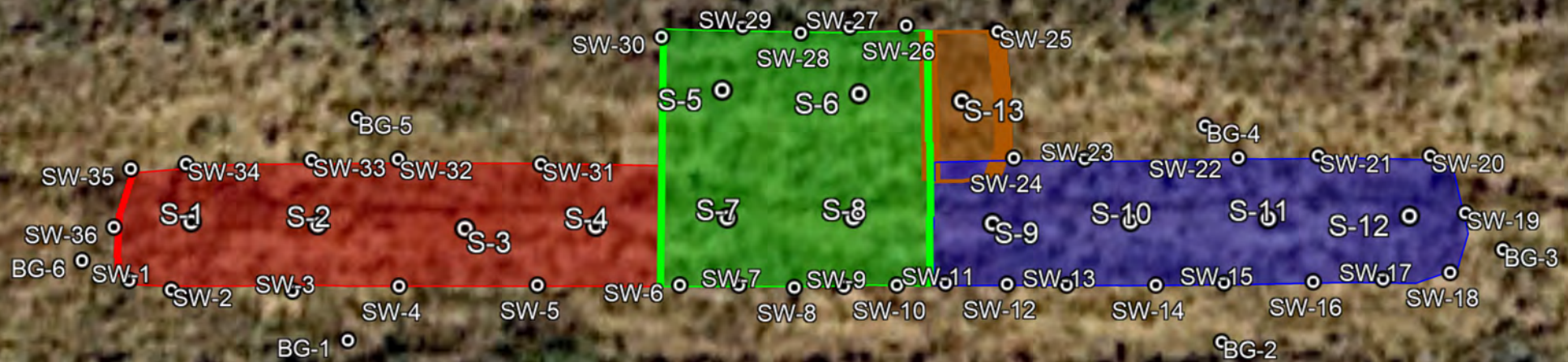


**Chief 30 State #007H R.O.W.**

Cimarex Energy Co.  
Incident #2222925201  
Lea County, NM  
Confirmation Map

**Legend**

-  16ft. Excavation
-  20ft. Excavation
-  25ft. Excavation
-  28ft. Excavation
-  Confirmation Composite Sample










# Chief 30 State #007H R.O.W.

Cimarex Energy Co.  
Incident# nAPP2222925201  
Lea County, NM  
Karst Map

## Legend

-  Chief 30 State #007H R.O.W.
-  High
-  Low
-  Medium

 Chief 30 State #007H R.O.W.



2 mi

Google Earth




## Chief 30 State #007H R.O.W.

Cimarex Energy Co.  
Incident# nAPP2222925201  
Lea County, NM  
Topographic Map

### Legend

 Chief 30 State #007H R.O.W

 Chief 30 State #007H R.O.W




1000 ft




# Chief 30 State #007H R.O.W.

Cimarex Energy Co.  
Incident# nAPP2222925201  
Lea County, NM  
Locator Map

## Legend

 Chief 30 State #007H R.O.W

 Chief 30 State #007H R.O.W



5 mi

Google Earth



## **APPENDIX II**

### **GROUNDWATER DATA**

### **SOIL SURVEY**

### **FEMA FLOOD ZONE**

### **WATER BORE MAP**



# New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

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

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

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
<a href="#">CP.00665</a>		CP	LE	1	4	24	20S	34E		639740	3603128*	1580	698	270	428
<a href="#">CP.01204</a>	POD1	CP	LE	3	1	1	25	20S	34E	638755	3602250	2369	370		

Average Depth to Water: **270 feet**

Minimum Depth: **270 feet**

Maximum Depth: **270 feet**

**Record Count:** 2

### Basin/County Search:

**County:** Lea

### UTMNAD83 Radius Search (in meters):

**Easting (X):** 641122.29

**Northing (Y):** 3602362.43

**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.

12/14/22 9:47 AM

WATER COLUMN/ AVERAGE DEPTH TO  
WATER

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

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## Lea County, New Mexico

### PU—Pyote and Maljamar fine sands

#### Map Unit Setting

*National map unit symbol:* dmqq

*Elevation:* 3,000 to 3,900 feet

*Mean annual precipitation:* 10 to 12 inches

*Mean annual air temperature:* 60 to 62 degrees F

*Frost-free period:* 190 to 205 days

*Farmland classification:* Not prime farmland

#### Map Unit Composition

*Pyote and similar soils:* 46 percent

*Maljamar and similar soils:* 44 percent

*Minor components:* 10 percent

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

#### Description of Pyote

##### Setting

*Landform:* Plains

*Landform position (three-dimensional):* Rise

*Down-slope shape:* Linear

*Across-slope shape:* Linear

*Parent material:* Sandy eolian deposits derived from sedimentary rock

##### Typical profile

*A - 0 to 30 inches:* fine sand

*Bt - 30 to 60 inches:* fine sandy loam

##### Properties and qualities

*Slope:* 0 to 3 percent

*Depth to restrictive feature:* More than 80 inches

*Drainage class:* Well drained

*Runoff class:* Negligible

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

*Depth to water table:* More than 80 inches

*Frequency of flooding:* None

*Frequency of ponding:* None

*Calcium carbonate, maximum content:* 5 percent

*Gypsum, maximum content:* 1 percent

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

*Sodium adsorption ratio, maximum:* 2.0

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

##### Interpretive groups

*Land capability classification (irrigated):* 6e

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

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

## Description of Maljamar

### Setting

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

### Typical profile

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

### Properties and qualities

*Slope: 0 to 3 percent*  
*Depth to restrictive feature: 40 to 60 inches to petrocalcic*  
*Drainage class: Well drained*  
*Runoff class: Very low*  
*Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)*  
*Depth to water table: More than 80 inches*  
*Frequency of flooding: None*  
*Frequency of ponding: None*  
*Calcium carbonate, maximum content: 5 percent*  
*Gypsum, maximum content: 1 percent*  
*Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)*  
*Sodium adsorption ratio, maximum: 2.0*  
*Available water supply, 0 to 60 inches: Low (about 5.6 inches)*

### Interpretive groups

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

## Minor Components

### Kermit

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

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

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*Hydric soil rating:* No

## Data Source Information

Soil Survey Area: Lea County, New Mexico

Survey Area Data: Version 19, Sep 8, 2022

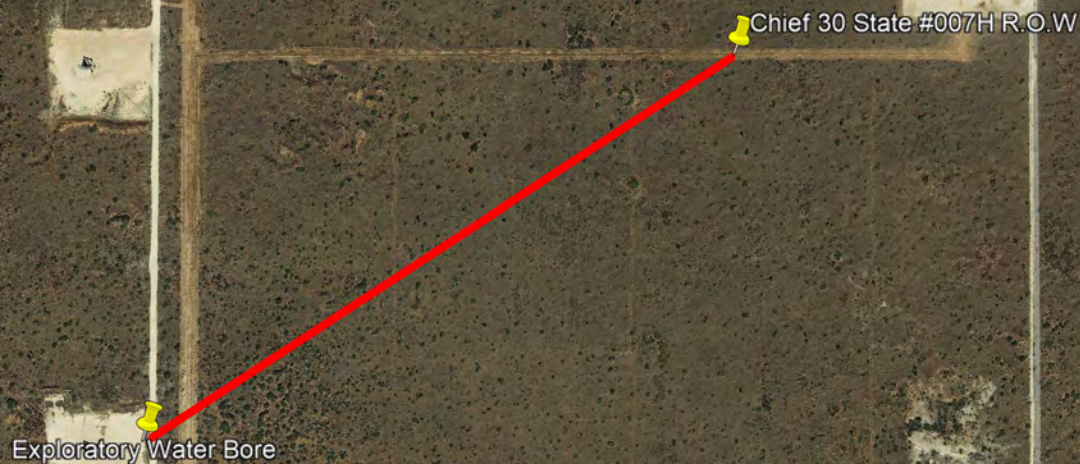


# Chief 30 State #007H R.O.W.

Cimarex Energy Co.  
Incident# nAPP2222925201  
Lea County, NM  
Exploratory Water Bore Map

## Legend

0.46 miles/2,418 feet



2000 ft



## SOIL BORE LOG

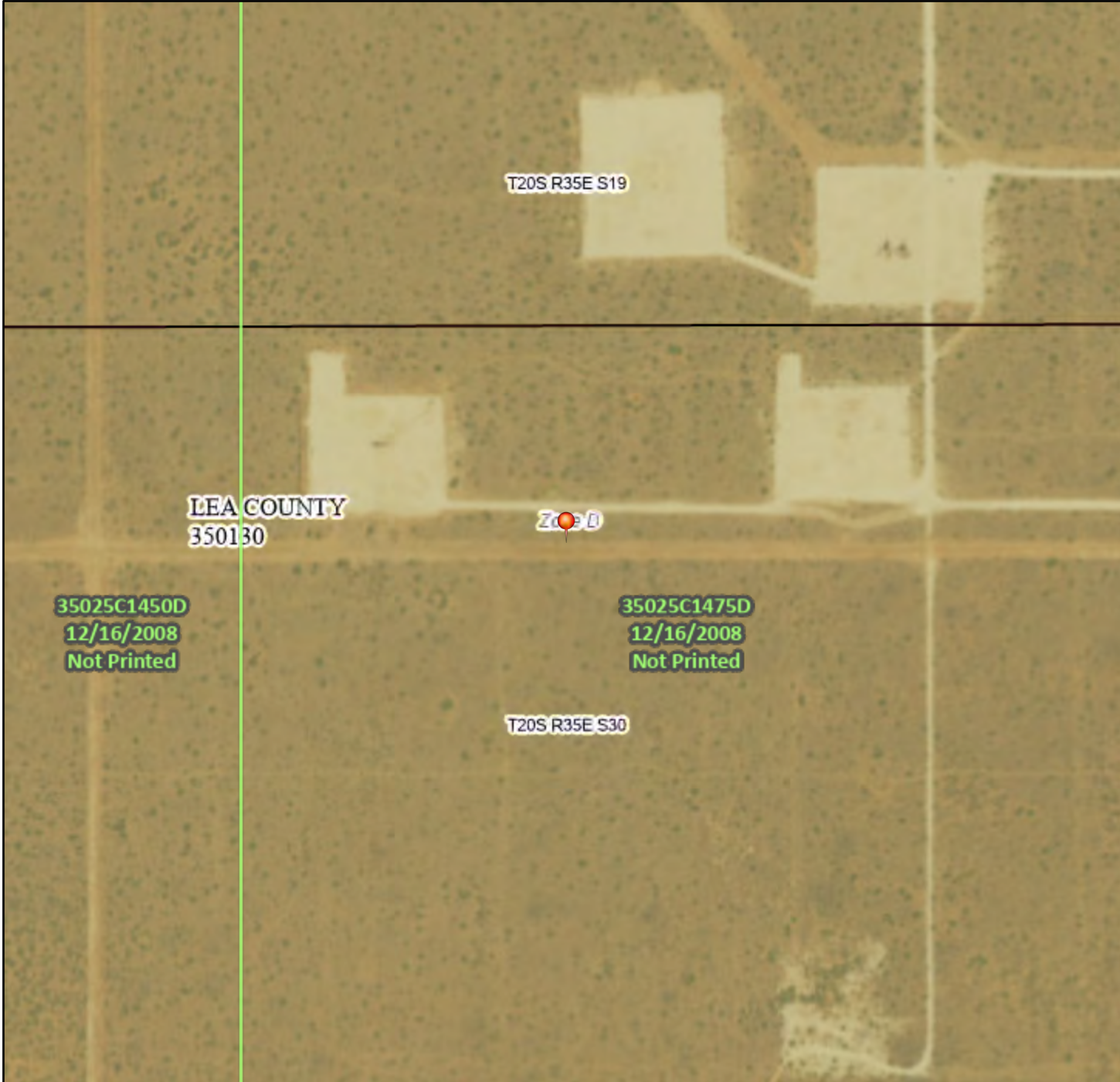
<b>Project:</b>	Chief 30 State #007H R.O.W.	<b>Date:</b>	August 30, 2022
<b>Type:</b>	Exploratory Water Bore	<b>Location:</b>	Chief 30 State #003H

Depth	Soil Type	Classification	Comments
0-20'	Fine Red Sand	Dry/Poorly Cemented	
20-25'	Fine Red Sand/Caliche	Fine Red Sand 30% Pink/Red Caliche 70% Well Sorted	
25-30'	Caliche	White/Well Sorted	
30-40'	Brown/Red Fine Sand	Dry/ Silty/Very Fine Grain	
40-50'	Fine Red Sand/Caliche	Brown/Red Sand 30% Pink/Brown Caliche 70% Well Sorted/Poorly Cemented	
50-55' TD	Dark Brown Silty Sand w/Clay	Poorly Cemented Dry Sand	No groundwater present on 08/30/2022. No groundwater present on 09/07/2022.

# National Flood Hazard Layer FIRMMette



103°30'8"W 32°33'14"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
		Profile Baseline
MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped



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

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 12/14/2022 at 11:50 AM 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**

**NMOCD CORRESPONDENCE**

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	nAPP2222925201
District RP	
Facility ID	
Application ID	

## Release Notification

### Responsible Party

Responsible Party: Cimarex Energy Co.	OGRID: 215099
Contact Name: Laci Luig	Contact Telephone: (432) 571-7800
Contact email: laci.luig@coterra.com	Incident # (assigned by OCD) nAPP2222925201
Contact mailing address: 600 N Marienfeld Street, Ste. 600 Midland, TX 79701	

### Location of Release Source

Latitude 32.54970 \_\_\_\_\_ Longitude -103.49700 \_\_\_\_\_  
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Chief 30 State 7H	Site Type: Right-of-Way
Date Release Discovered: 8/16/2022	API# (if applicable)

Unit Letter	Section	Township	Range	County
C	30	20S	35E	Lea

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☒ Private (Name: Pat Sims \_\_\_\_\_)

### Nature and Volume of Release

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

<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls) 17	Volume Recovered (bbls) 7
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 20	Volume Recovered (bbls) 0
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

#### Cause of Release: Equipment Failure

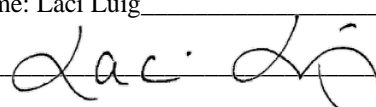
Reportable spill on the Chief 30 State 7H flowline right-of-way in Lea County. The buried flowline developed a hole and released 17 barrels oil and 20 barrels produced water onto the right-of-way and pasture area. The well was immediately shut in and the flowline isolated at the well and facility. A vacuum truck was able to recover 7 barrels oil from the impacted area. The damaged section of the flowline will be exposed and replaced with new. The impacted area is scheduled to be remediated after flowline repairs are made.

Incident ID	nAPP2222925201
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?  <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? Total amount released greater than 25 barrels.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? By: Laci Luig To: OCD Enviro 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: 8/17/2022
email: laci.luig@coterra.com	Telephone: (432) 208-3035
<b><u>OCD Only</u></b>	
Received by: Jocelyn Harimon	Date: 01/30/2023

Incident ID	nAPP2222925201
District RP	
Facility ID	
Application ID	

## Site Assessment/Characterization

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

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

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

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

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

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

State of New Mexico  
Oil Conservation Division

Page 4

Incident ID	nAPP2222925201
District RP	
Facility ID	
Application ID	

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

Printed Name: Laci Luig\_\_\_\_\_ Title: ESH Specialist\_\_\_\_\_

Signature: \_\_\_\_\_

Date: 1/23/2023\_\_\_\_\_

email: laci.luig@coterra.com\_\_\_\_\_

Telephone: (432) 208-3035\_\_\_\_\_

**OCD Only**

Received by: \_\_\_\_\_ Jocelyn Harimon

Date: \_\_\_\_\_ 01/30/2023



Incident ID	nAPP2222925201
District RP	
Facility ID	
Application ID	

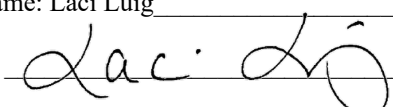
## Closure

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

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

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


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

Printed Name: Laci Luig \_\_\_\_\_ Title: ESH Specialist \_\_\_\_\_  
Signature:  \_\_\_\_\_ Date: 1/23/2023 \_\_\_\_\_  
email: laci.luig@coterra.com \_\_\_\_\_ Telephone: (432) 208-3035 \_\_\_\_\_

**OCD Only**

Received by: Jocelyn Harimon \_\_\_\_\_ Date: 01/30/2023 \_\_\_\_\_

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

Closure Approved by:  \_\_\_\_\_ Date: 02/17/2023 \_\_\_\_\_  
Printed Name: Jennifer Nobui \_\_\_\_\_ Title: Environmental Specialist A \_\_\_\_\_



## Michael Collier

---

**From:** Laci Luig <Laci.Luig@coterra.com>  
**Sent:** Wednesday, November 9, 2022 9:13 AM  
**To:** NMOCD Spill Notifications  
**Cc:** Michael Collier; Jim Hawley; Ned Polk  
**Subject:** nAPP2222925201 Chief 30 State 7H sample notification

Good morning,

This email serves as notification for confirmation sampling on the Chief 30 State 7H. Sampling is scheduled to begin Friday, November 11<sup>th</sup>. H&R Enterprises will be onsite for field and confirmation sampling.

Thank you,



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

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## Michael Collier

---

**From:** Laci Luig <Laci.Luig@coterra.com>  
**Sent:** Thursday, November 10, 2022 1:31 PM  
**To:** Michael Collier  
**Subject:** FW: [EXTERNAL] nAPP2222925201 Chief 30 State 7 extension request

Michael,

Please include in Closure Report.

Laci Luig  
(432) 208-3035

---

**From:** Nobui, Jennifer, EMNRD <Jennifer.Nobui@emnrd.nm.gov>  
**Sent:** Wednesday, October 26, 2022 9:28 AM  
**To:** Laci Luig <Laci.Luig@coterra.com>  
**Cc:** Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Harimon, Jocelyn, EMNRD <Jocelyn.Harimon@emnrd.nm.gov>; Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>  
**Subject:** RE: [EXTERNAL] nAPP2222925201 Chief 30 State 7 extension request

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

Laci

OCD approves your extension request for a 60-day extension to January 16, 2023 to submit a remediation plan/closure report. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thanks,  
Jennifer Nobui

---

**From:** Laci Luig <[Laci.Luig@coterra.com](mailto:Laci.Luig@coterra.com)>  
**Sent:** Tuesday, October 25, 2022 4:29 PM  
**To:** Nobui, Jennifer, EMNRD <[Jennifer.Nobui@emnrd.nm.gov](mailto:Jennifer.Nobui@emnrd.nm.gov)>  
**Subject:** [EXTERNAL] nAPP2222925201 Chief 30 State 7 extension request

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

Ms. Nobui,

Cimarex is requesting a 6 week extension for the Chief 30 State 7 ROW remediation, Incident ID nAPP2222925201. The release occurred 8/16/2022.

Remediation was delayed in order to plan removing 2 flow lines within the spill area in order to safely excavate the impacted soil.

Please let us know if you need additional information.

Thank you,



**Laci Luig** | Environmental Safety & Health Specialist

T: 432.571.7810 | M: 432.208.3035 | [laci.luig@coterra.com](mailto:laci.luig@coterra.com) | [www.coterra.com](http://www.coterra.com)

Coterra Energy Inc. | 600 N. Marienfeld Street, Suite 600 | Midland, TX 79701

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**Ashton Thielke**

---

**From:** Nobui, Jennifer, EMNRD <Jennifer.Nobui@emnrd.nm.gov>  
**Sent:** Wednesday, January 25, 2023 9:52 AM  
**To:** Ashton Thielke  
**Cc:** Laci Luig; Griswold, Jim, EMNRD  
**Subject:** RE: [EXTERNAL] nAPP2222925201 - Chief 30 State 7H Flowline (08.16.2022) - Sampling Variance

**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.

Hello Ashton

Your request for a variance regarding sidewall sampling has been approved. Please include a copy of this and all notifications in the closure report to ensure the notifications are documented in the project file.

Thanks,  
Jennifer Nobui

---

**From:** Ashton Thielke <Ashton.Thielke@coterra.com>  
**Sent:** Tuesday, January 24, 2023 4:40 PM  
**To:** Nobui, Jennifer, EMNRD <Jennifer.Nobui@emnrd.nm.gov>  
**Cc:** Laci Luig <Laci.Luig@coterra.com>  
**Subject:** [EXTERNAL] nAPP2222925201 - Chief 30 State 7H Flowline (08.16.2022) - Sampling Variance

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

Good afternoon Ms. Jennifer Nobui,

Per our phone call on 1/24/2023, Cimarex Energy Co. requests an internal sidewall sampling variance for the Chief 30 State 7H (08.16.2022), Incident #: nAPP2222925201

Site Background:

Based off of groundwater research, groundwater is estimated to be ~270 feet below ground surface. The lack of a presence of groundwater was confirmed on August 30, 2022 at a nearby well pad (0.46 miles away), when a groundwater determination bore was installed. Release area in the ROW in the pasture was excavated to depths ranging from 16' to 28'. All composite confirmation floor samples and composite perimeter sidewall samples do not exceed NMOCD regulatory criteria established in 19.15.29.12 NMAC. Entire area of remediation has been backfilled and seeded.

Let me know if you have any questions.

Thanks,



**Ashton Thielke** | PBU - Environmental Consultant

T: 432.813.5347 | M: 281.753.5659 | [ashton.thielke@coterra.com](mailto:ashton.thielke@coterra.com) | [www.coterra.com](http://www.coterra.com)

Coterra Energy Inc. | 600 N. Marienfeld Street, Suite 600 | Midland, TX 79701

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# **APPENDIX IV**

## **PHOTOGRAPHIC DOCUMENTATION**



## PHOTOGRAPHIC DOCUMENTATION

INITIAL PHOTOGRAPHS



PHOTOGRAPHIC DOCUMENTATION

EXCAVATION PHOTOGRAPHS



FINAL PHOTOGRAPHS





## PHOTOGRAPHIC DOCUMENTATION

## FINAL PHOTOGRAPHS



PHOTOGRAPHIC DOCUMENTATION

WATER BORE PHOTOGRAPH



Dimarex Energy  
Chief 7H Water Bore  
09/07/2022 11:00 AM  
32.54602, -103.50371 (-20ft)  
Unnamed Road, New Mexico, USA

# **APPENDIX V**

## **LABORATORY REPORTS**



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

September 29, 2022

MICHAEL COLLIER

H & R ENTERPRISES

1010 GAMBLIN ROAD

HOBBS, NM 88240

RE: CHIEF 30 STATE #7H

Enclosed are the results of analyses for samples received by the laboratory on 09/23/22 15:35.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style 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: 09/23/2022  
 Reported: 09/29/2022  
 Project Name: CHIEF 30 STATE #7H  
 Project Number: CIMAREX (CHIEF #7)  
 Project Location: LEA COUNTY, NM

Sampling Date: 09/23/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH - 1 0-1' (H224442-01)**

BTX 8021B		mg/kg	Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	09/27/2022	ND	2.04	102	2.00	1.31	
<b>Toluene*</b>	<b>8.09</b>	0.500	09/27/2022	ND	2.01	101	2.00	0.0414	
<b>Ethylbenzene*</b>	<b>12.4</b>	0.500	09/27/2022	ND	1.92	96.2	2.00	0.414	
<b>Total Xylenes*</b>	<b>32.8</b>	1.50	09/27/2022	ND	5.95	99.2	6.00	0.0460	
<b>Total BTX</b>	<b>53.3</b>	3.00	09/27/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 134 % 69.9-140

Chloride, SM4500Cl-B		mg/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>256</b>	16.0	09/27/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: CK				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	1440	10.0	09/26/2022	ND	192	96.2	200	1.81	
DRO >C10-C28*	9740	10.0	09/26/2022	ND	197	98.5	200	3.63	
EXT DRO >C28-C36	1380	10.0	09/26/2022	ND					

Surrogate: 1-Chlorooctane 387 % 45.3-161

Surrogate: 1-Chlorooctadecane 277 % 46.3-178

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: 09/23/2022  
 Reported: 09/29/2022  
 Project Name: CHIEF 30 STATE #7H  
 Project Number: CIMAREX (CHIEF #7)  
 Project Location: LEA COUNTY, NM

Sampling Date: 09/23/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH - 1 2' (H224442-02)**

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.565	0.500	09/27/2022	ND	2.04	102	2.00	1.31	
Toluene*	11.4	0.500	09/27/2022	ND	2.01	101	2.00	0.0414	
Ethylbenzene*	9.05	0.500	09/27/2022	ND	1.92	96.2	2.00	0.414	
Total Xylenes*	24.9	1.50	09/27/2022	ND	5.95	99.2	6.00	0.0460	
Total BTEX	45.9	3.00	09/27/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 121 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6640	16.0	09/27/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	560	10.0	09/26/2022	ND	192	96.2	200	1.81	
DRO >C10-C28*	4000	10.0	09/26/2022	ND	197	98.5	200	3.63	
EXT DRO >C28-C36	603	10.0	09/26/2022	ND					

Surrogate: 1-Chlorooctane 152 % 45.3-161

Surrogate: 1-Chlorooctadecane 119 % 46.3-178

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: 09/23/2022  
 Reported: 09/29/2022  
 Project Name: CHIEF 30 STATE #7H  
 Project Number: CIMAREX (CHIEF #7)  
 Project Location: LEA COUNTY, NM

Sampling Date: 09/23/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH - 1 3' (H224442-03)**

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	09/27/2022	ND	2.04	102	2.00	1.31	
Toluene*	5.93	0.500	09/27/2022	ND	2.01	101	2.00	0.0414	
Ethylbenzene*	5.27	0.500	09/27/2022	ND	1.92	96.2	2.00	0.414	
Total Xylenes*	14.8	1.50	09/27/2022	ND	5.95	99.2	6.00	0.0460	
Total BTEX	26.0	3.00	09/27/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	9330	16.0	09/27/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	328	10.0	09/26/2022	ND	192	96.2	200	1.81	
DRO >C10-C28*	2830	10.0	09/26/2022	ND	197	98.5	200	3.63	
EXT DRO >C28-C36	426	10.0	09/26/2022	ND					

Surrogate: 1-Chlorooctane 137 % 45.3-161

Surrogate: 1-Chlorooctadecane 118 % 46.3-178

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 09/23/2022  
 Reported: 09/29/2022  
 Project Name: CHIEF 30 STATE #7H  
 Project Number: CIMAREX (CHIEF #7)  
 Project Location: LEA COUNTY, NM

Sampling Date: 09/23/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH - 1 4' (H224442-04)**

BTEx 8021B		mg/kg	Analyzed By: JH/					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>0.109</b>	0.100	09/27/2022	ND	2.04	102	2.00	1.31	
<b>Toluene*</b>	<b>3.89</b>	0.100	09/27/2022	ND	2.01	101	2.00	0.0414	
<b>Ethylbenzene*</b>	<b>5.06</b>	0.100	09/27/2022	ND	1.92	96.2	2.00	0.414	
<b>Total Xylenes*</b>	<b>15.5</b>	0.300	09/27/2022	ND	5.95	99.2	6.00	0.0460	
<b>Total BTEX</b>	<b>24.5</b>	0.600	09/27/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 165 % 69.9-140

Chloride, SM4500Cl-B		mg/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>4720</b>	16.0	09/27/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg	Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10*</b>	<b>361</b>	10.0	09/26/2022	ND	192	96.2	200	1.81	
<b>DRO &gt;C10-C28*</b>	<b>4280</b>	10.0	09/26/2022	ND	197	98.5	200	3.63	
<b>EXT DRO &gt;C28-C36</b>	<b>646</b>	10.0	09/26/2022	ND					

Surrogate: 1-Chlorooctane 154 % 45.3-161

Surrogate: 1-Chlorooctadecane 137 % 46.3-178

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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: 09/23/2022  
 Reported: 09/29/2022  
 Project Name: CHIEF 30 STATE #7H  
 Project Number: CIMAREX (CHIEF #7)  
 Project Location: LEA COUNTY, NM

Sampling Date: 09/23/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH - 1 6' (H224442-05)**

BTEx 8021B		mg/kg	Analyzed By: JH/					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>2.56</b>	0.500	09/27/2022	ND	2.04	102	2.00	1.31	
<b>Toluene*</b>	<b>44.2</b>	0.500	09/27/2022	ND	2.01	101	2.00	0.0414	
<b>Ethylbenzene*</b>	<b>38.3</b>	0.500	09/27/2022	ND	1.92	96.2	2.00	0.414	
<b>Total Xylenes*</b>	<b>103</b>	1.50	09/27/2022	ND	5.95	99.2	6.00	0.0460	
<b>Total BTEX</b>	<b>188</b>	3.00	09/27/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 155 % 69.9-140

Chloride, SM4500Cl-B		mg/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>4640</b>	16.0	09/27/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg	Analyzed By: CK					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10*</b>	<b>2950</b>	100	09/27/2022	ND	192	96.2	200	1.81	
<b>DRO &gt;C10-C28*</b>	<b>12100</b>	100	09/27/2022	ND	197	98.5	200	3.63	
<b>EXT DRO &gt;C28-C36</b>	<b>1700</b>	100	09/27/2022	ND					

Surrogate: 1-Chlorooctane 540 % 45.3-161

Surrogate: 1-Chlorooctadecane 334 % 46.3-178

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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: 09/23/2022  
 Reported: 09/29/2022  
 Project Name: CHIEF 30 STATE #7H  
 Project Number: CIMAREX (CHIEF #7)  
 Project Location: LEA COUNTY, NM

Sampling Date: 09/23/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH - 1 8' (H224442-06)**

BTEx 8021B		mg/kg	Analyzed By: JH/					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>13.7</b>	0.500	09/27/2022	ND	2.04	102	2.00	1.31	
<b>Toluene*</b>	<b>89.5</b>	0.500	09/27/2022	ND	2.01	101	2.00	0.0414	
<b>Ethylbenzene*</b>	<b>51.1</b>	0.500	09/27/2022	ND	1.92	96.2	2.00	0.414	
<b>Total Xylenes*</b>	<b>128</b>	1.50	09/27/2022	ND	5.95	99.2	6.00	0.0460	
<b>Total BTEX</b>	<b>282</b>	3.00	09/27/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 158 % 69.9-140

Chloride, SM4500Cl-B		mg/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>6640</b>	16.0	09/27/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg	Analyzed By: CK					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10*</b>	<b>4140</b>	100	09/27/2022	ND	192	96.2	200	1.81	
<b>DRO &gt;C10-C28*</b>	<b>15500</b>	100	09/27/2022	ND	197	98.5	200	3.63	
<b>EXT DRO &gt;C28-C36</b>	<b>2160</b>	100	09/27/2022	ND					

Surrogate: 1-Chlorooctane 682 % 45.3-161

Surrogate: 1-Chlorooctadecane 592 % 46.3-178

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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: 09/23/2022  
 Reported: 09/29/2022  
 Project Name: CHIEF 30 STATE #7H  
 Project Number: CIMAREX (CHIEF #7)  
 Project Location: LEA COUNTY, NM

Sampling Date: 09/23/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH - 1 10' (H224442-07)**

BTEx 8021B			mg/kg		Analyzed By: JH/				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>2.16</b>	0.500	09/27/2022	ND	2.02	101	2.00	0.532	QM-07
<b>Toluene*</b>	<b>20.0</b>	0.500	09/27/2022	ND	1.99	99.4	2.00	0.489	QM-07
<b>Ethylbenzene*</b>	<b>12.4</b>	0.500	09/27/2022	ND	1.91	95.3	2.00	0.0228	QM-07
<b>Total Xylenes*</b>	<b>32.8</b>	1.50	09/27/2022	ND	5.97	99.5	6.00	1.07	QM-07
<b>Total BTEX</b>	<b>67.4</b>	3.00	09/27/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 123 % 69.9-140

Chloride, SM4500Cl-B			mg/kg		Analyzed By: GM				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>752</b>	16.0	09/27/2022	ND	400	100	400	3.92	

TPH 8015M			mg/kg		Analyzed By: CK				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10*</b>	<b>602</b>	10.0	09/26/2022	ND	192	96.2	200	1.81	
<b>DRO &gt;C10-C28*</b>	<b>3850</b>	10.0	09/26/2022	ND	197	98.5	200	3.63	
<b>EXT DRO &gt;C28-C36</b>	<b>582</b>	10.0	09/26/2022	ND					

Surrogate: 1-Chlorooctane 159 % 45.3-161

Surrogate: 1-Chlorooctadecane 157 % 46.3-178

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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: 09/23/2022  
 Reported: 09/29/2022  
 Project Name: CHIEF 30 STATE #7H  
 Project Number: CIMAREX (CHIEF #7)  
 Project Location: LEA COUNTY, NM

Sampling Date: 09/23/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH - 1 15' (H224442-08)**

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/27/2022	ND	2.02	101	2.00	0.532	
Toluene*	<0.050	0.050	09/27/2022	ND	1.99	99.4	2.00	0.489	
Ethylbenzene*	<0.050	0.050	09/27/2022	ND	1.91	95.3	2.00	0.0228	
Total Xylenes*	<0.150	0.150	09/27/2022	ND	5.97	99.5	6.00	1.07	
Total BTX	<0.300	0.300	09/27/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1710	16.0	09/27/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/26/2022	ND	192	96.2	200	1.81	
DRO >C10-C28*	315	10.0	09/26/2022	ND	197	98.5	200	3.63	
EXT DRO >C28-C36	71.9	10.0	09/26/2022	ND					

Surrogate: 1-Chlorooctane 104 % 45.3-161

Surrogate: 1-Chlorooctadecane 139 % 46.3-178

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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: 09/23/2022  
 Reported: 09/29/2022  
 Project Name: CHIEF 30 STATE #7H  
 Project Number: CIMAREX (CHIEF #7)  
 Project Location: LEA COUNTY, NM

Sampling Date: 09/23/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH - 1 20' (H224442-09)**

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	09/27/2022	ND	2.02	101	2.00	0.532	
Toluene*	<0.050	0.050	09/27/2022	ND	1.99	99.4	2.00	0.489	
Ethylbenzene*	<0.050	0.050	09/27/2022	ND	1.91	95.3	2.00	0.0228	
Total Xylenes*	<0.150	0.150	09/27/2022	ND	5.97	99.5	6.00	1.07	
Total BTX	<0.300	0.300	09/27/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	09/27/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/26/2022	ND	192	96.2	200	1.81	
DRO >C10-C28*	57.1	10.0	09/26/2022	ND	197	98.5	200	3.63	
EXT DRO >C28-C36	12.1	10.0	09/26/2022	ND					

Surrogate: 1-Chlorooctane 102 % 45.3-161

Surrogate: 1-Chlorooctadecane 114 % 46.3-178

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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: 09/23/2022  
 Reported: 09/29/2022  
 Project Name: CHIEF 30 STATE #7H  
 Project Number: CIMAREX (CHIEF #7)  
 Project Location: LEA COUNTY, NM

Sampling Date: 09/23/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH - 1 25' (H224442-10)**

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/27/2022	ND	2.02	101	2.00	0.532	
Toluene*	<0.050	0.050	09/27/2022	ND	1.99	99.4	2.00	0.489	
Ethylbenzene*	<0.050	0.050	09/27/2022	ND	1.91	95.3	2.00	0.0228	
Total Xylenes*	<0.150	0.150	09/27/2022	ND	5.97	99.5	6.00	1.07	
Total BTX	<0.300	0.300	09/27/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	09/27/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/26/2022	ND	192	96.2	200	1.81	
DRO >C10-C28*	34.5	10.0	09/26/2022	ND	197	98.5	200	3.63	
EXT DRO >C28-C36	<10.0	10.0	09/26/2022	ND					

Surrogate: 1-Chlorooctane 98.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 109 % 46.3-178

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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: 09/23/2022  
 Reported: 09/29/2022  
 Project Name: CHIEF 30 STATE #7H  
 Project Number: CIMAREX (CHIEF #7)  
 Project Location: LEA COUNTY, NM

Sampling Date: 09/23/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH - 2 0-1' (H224442-11)**

BTEx 8021B		mg/kg	Analyzed By: JH/					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	09/27/2022	ND	2.02	101	2.00	0.532	
Toluene*	<b>2.44</b>	0.500	09/27/2022	ND	1.99	99.4	2.00	0.489	
Ethylbenzene*	<b>11.3</b>	0.500	09/27/2022	ND	1.91	95.3	2.00	0.0228	
Total Xylenes*	<b>39.6</b>	1.50	09/27/2022	ND	5.97	99.5	6.00	1.07	
Total BTEX	<b>53.3</b>	3.00	09/27/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 142 % 69.9-140

Chloride, SM4500Cl-B		mg/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<b>1870</b>	16.0	09/27/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg	Analyzed By: CK					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<b>1080</b>	10.0	09/26/2022	ND	192	96.2	200	1.81	
DRO >C10-C28*	<b>7820</b>	10.0	09/26/2022	ND	197	98.5	200	3.63	
EXT DRO >C28-C36	<b>1150</b>	10.0	09/26/2022	ND					

Surrogate: 1-Chlorooctane 300 % 45.3-161

Surrogate: 1-Chlorooctadecane 224 % 46.3-178

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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: 09/23/2022  
 Reported: 09/29/2022  
 Project Name: CHIEF 30 STATE #7H  
 Project Number: CIMAREX (CHIEF #7)  
 Project Location: LEA COUNTY, NM

Sampling Date: 09/23/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH - 2 2' (H224442-12)**

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	09/27/2022	ND	2.02	101	2.00	0.532	
Toluene*	2.80	0.500	09/27/2022	ND	1.99	99.4	2.00	0.489	
Ethylbenzene*	8.03	0.500	09/27/2022	ND	1.91	95.3	2.00	0.0228	
Total Xylenes*	25.1	1.50	09/27/2022	ND	5.97	99.5	6.00	1.07	
Total BTEX	35.9	3.00	09/27/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 125 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4960	16.0	09/27/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: CK				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	785	10.0	09/26/2022	ND	192	96.2	200	1.81	
DRO >C10-C28*	6590	10.0	09/26/2022	ND	197	98.5	200	3.63	
EXT DRO >C28-C36	961	10.0	09/26/2022	ND					

Surrogate: 1-Chlorooctane 225 % 45.3-161

Surrogate: 1-Chlorooctadecane 253 % 46.3-178

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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: 09/23/2022  
 Reported: 09/29/2022  
 Project Name: CHIEF 30 STATE #7H  
 Project Number: CIMAREX (CHIEF #7)  
 Project Location: LEA COUNTY, NM

Sampling Date: 09/23/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH - 2 3' (H224442-13)**

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	09/27/2022	ND	2.02	101	2.00	0.532	
Toluene*	7.74	0.500	09/27/2022	ND	1.99	99.4	2.00	0.489	
Ethylbenzene*	9.43	0.500	09/27/2022	ND	1.91	95.3	2.00	0.0228	
Total Xylenes*	27.5	1.50	09/27/2022	ND	5.97	99.5	6.00	1.07	
Total BTEX	44.6	3.00	09/27/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 124 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	8480	16.0	09/27/2022	ND	416	104	400	0.00	QM-07	
TPH 8015M		mg/kg		Analyzed By: CK						S-04

TPH 8015M	mg/kg		Analyzed By: CK					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	817	10.0	09/26/2022	ND	220	110	200	2.46	
DRO >C10-C28*	6880	10.0	09/26/2022	ND	220	110	200	2.16	QM-07
EXT DRO >C28-C36	1220	10.0	09/26/2022	ND					

Surrogate: 1-Chlorooctane 287 % 45.3-161

Surrogate: 1-Chlorooctadecane 380 % 46.3-178

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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: 09/23/2022  
 Reported: 09/29/2022  
 Project Name: CHIEF 30 STATE #7H  
 Project Number: CIMAREX (CHIEF #7)  
 Project Location: LEA COUNTY, NM

Sampling Date: 09/23/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH - 2 4' (H224442-14)**

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	3.38	0.500	09/27/2022	ND	2.02	101	2.00	0.532	
Toluene*	29.5	0.500	09/27/2022	ND	1.99	99.4	2.00	0.489	
Ethylbenzene*	19.3	0.500	09/27/2022	ND	1.91	95.3	2.00	0.0228	
Total Xylenes*	50.0	1.50	09/27/2022	ND	5.97	99.5	6.00	1.07	
Total BTEX	102	3.00	09/27/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 130 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	11900	16.0	09/27/2022	ND	416	104	400	0.00		

TPH 8015M	mg/kg		Analyzed By: CK					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	1160	10.0	09/26/2022	ND	220	110	200	2.46	
DRO >C10-C28*	7870	10.0	09/26/2022	ND	220	110	200	2.16	
EXT DRO >C28-C36	1420	10.0	09/26/2022	ND					

Surrogate: 1-Chlorooctane 201 % 45.3-161

Surrogate: 1-Chlorooctadecane 493 % 46.3-178

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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: 09/23/2022  
 Reported: 09/29/2022  
 Project Name: CHIEF 30 STATE #7H  
 Project Number: CIMAREX (CHIEF #7)  
 Project Location: LEA COUNTY, NM

Sampling Date: 09/23/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH - 2 6' (H224442-15)**

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.741	0.500	09/27/2022	ND	2.02	101	2.00	0.532	
Toluene*	10.1	0.500	09/27/2022	ND	1.99	99.4	2.00	0.489	
Ethylbenzene*	9.00	0.500	09/27/2022	ND	1.91	95.3	2.00	0.0228	
Total Xylenes*	25.9	1.50	09/27/2022	ND	5.97	99.5	6.00	1.07	
Total BTX	45.7	3.00	09/27/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 124 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	8800	16.0	09/27/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	485	10.0	09/26/2022	ND	220	110	200	2.46	
DRO >C10-C28*	4010	10.0	09/26/2022	ND	220	110	200	2.16	
EXT DRO >C28-C36	712	10.0	09/26/2022	ND					

Surrogate: 1-Chlorooctane 139 % 45.3-161

Surrogate: 1-Chlorooctadecane 120 % 46.3-178

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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: 09/23/2022  
 Reported: 09/29/2022  
 Project Name: CHIEF 30 STATE #7H  
 Project Number: CIMAREX (CHIEF #7)  
 Project Location: LEA COUNTY, NM

Sampling Date: 09/23/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH - 2 8' (H224442-16)**

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	2.25	0.500	09/27/2022	ND	2.02	101	2.00	0.532	
Toluene*	26.2	0.500	09/27/2022	ND	1.99	99.4	2.00	0.489	
Ethylbenzene*	19.8	0.500	09/27/2022	ND	1.91	95.3	2.00	0.0228	
Total Xylenes*	53.0	1.50	09/27/2022	ND	5.97	99.5	6.00	1.07	
Total BTEX	101	3.00	09/27/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 131 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10000	16.0	09/27/2022	ND	416	104	400	0.00	
TPH 8015M		mg/kg		Analyzed By: CK					
				S-04					

Surrogate: 1-Chlorooctane 181 % 45.3-161

Surrogate: 1-Chlorooctadecane 139 % 46.3-178

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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: 09/23/2022  
 Reported: 09/29/2022  
 Project Name: CHIEF 30 STATE #7H  
 Project Number: CIMAREX (CHIEF #7)  
 Project Location: LEA COUNTY, NM

Sampling Date: 09/23/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH - 2 10' (H224442-17)**

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	1.15	0.500	09/27/2022	ND	2.02	101	2.00	0.532	
Toluene*	10.4	0.500	09/27/2022	ND	1.99	99.4	2.00	0.489	
Ethylbenzene*	7.45	0.500	09/27/2022	ND	1.91	95.3	2.00	0.0228	
Total Xylenes*	20.4	1.50	09/27/2022	ND	5.97	99.5	6.00	1.07	
Total BTEX	39.5	3.00	09/27/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	7600	16.0	09/27/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	611	10.0	09/26/2022	ND	220	110	200	2.46	
DRO >C10-C28*	5570	10.0	09/26/2022	ND	220	110	200	2.16	
EXT DRO >C28-C36	1030	10.0	09/26/2022	ND					

Surrogate: 1-Chlorooctane 154 % 45.3-161

Surrogate: 1-Chlorooctadecane 243 % 46.3-178

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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: 09/23/2022  
 Reported: 09/29/2022  
 Project Name: CHIEF 30 STATE #7H  
 Project Number: CIMAREX (CHIEF #7)  
 Project Location: LEA COUNTY, NM

Sampling Date: 09/23/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH - 2 15' (H224442-18)**

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	09/27/2022	ND	2.02	101	2.00	0.532	
Toluene*	0.124	0.050	09/27/2022	ND	1.99	99.4	2.00	0.489	
Ethylbenzene*	0.211	0.050	09/27/2022	ND	1.91	95.3	2.00	0.0228	
Total Xylenes*	0.798	0.150	09/27/2022	ND	5.97	99.5	6.00	1.07	
Total BTEX	1.13	0.300	09/27/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	09/27/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	46.7	10.0	09/26/2022	ND	220	110	200	2.46	
DRO >C10-C28*	948	10.0	09/26/2022	ND	220	110	200	2.16	
EXT DRO >C28-C36	190	10.0	09/26/2022	ND					

Surrogate: 1-Chlorooctane 99.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 125 % 46.3-178

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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: 09/23/2022  
 Reported: 09/29/2022  
 Project Name: CHIEF 30 STATE #7H  
 Project Number: CIMAREX (CHIEF #7)  
 Project Location: LEA COUNTY, NM

Sampling Date: 09/23/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH - 2 20' (H224442-19)**

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	09/27/2022	ND	2.02	101	2.00	0.532		
Toluene*	<0.050	0.050	09/27/2022	ND	1.99	99.4	2.00	0.489		
Ethylbenzene*	<0.050	0.050	09/27/2022	ND	1.91	95.3	2.00	0.0228		
Total Xylenes*	<0.150	0.150	09/27/2022	ND	5.97	99.5	6.00	1.07		
Total BTX	<0.300	0.300	09/27/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	09/27/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/26/2022	ND	220	110	200	2.46	
DRO >C10-C28*	242	10.0	09/26/2022	ND	220	110	200	2.16	
EXT DRO >C28-C36	49.9	10.0	09/26/2022	ND					

Surrogate: 1-Chlorooctane 93.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 103 % 46.3-178

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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: 09/23/2022  
 Reported: 09/29/2022  
 Project Name: CHIEF 30 STATE #7H  
 Project Number: CIMAREX (CHIEF #7)  
 Project Location: LEA COUNTY, NM

Sampling Date: 09/23/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH - 3 0-1' (H224442-20)**

BTEx 8021B		mg/kg	Analyzed By: JH/					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>0.102</b>	0.050	09/27/2022	ND	2.02	101	2.00	0.532	
<b>Toluene*</b>	<b>3.30</b>	0.050	09/27/2022	ND	1.99	99.4	2.00	0.489	
<b>Ethylbenzene*</b>	<b>9.45</b>	0.050	09/27/2022	ND	1.91	95.3	2.00	0.0228	
<b>Total Xylenes*</b>	<b>28.9</b>	0.150	09/27/2022	ND	5.97	99.5	6.00	1.07	
<b>Total BTEx</b>	<b>41.7</b>	0.300	09/27/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 149 % 69.9-140

Chloride, SM4500Cl-B		mg/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>544</b>	16.0	09/27/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg	Analyzed By: CK					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10*</b>	<b>700</b>	10.0	09/26/2022	ND	220	110	200	2.46	
<b>DRO &gt;C10-C28*</b>	<b>5620</b>	10.0	09/26/2022	ND	220	110	200	2.16	
<b>EXT DRO &gt;C28-C36</b>	<b>983</b>	10.0	09/26/2022	ND					

Surrogate: 1-Chlorooctane 163 % 45.3-161

Surrogate: 1-Chlorooctadecane 128 % 46.3-178

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 09/23/2022  
 Reported: 09/29/2022  
 Project Name: CHIEF 30 STATE #7H  
 Project Number: CIMAREX (CHIEF #7)  
 Project Location: LEA COUNTY, NM

Sampling Date: 09/23/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH - 3 2' (H224442-21)**

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	2.78	0.500	09/27/2022	ND	2.02	101	2.00	0.532	
Toluene*	26.2	0.500	09/27/2022	ND	1.99	99.4	2.00	0.489	
Ethylbenzene*	16.7	0.500	09/27/2022	ND	1.91	95.3	2.00	0.0228	
Total Xylenes*	40.8	1.50	09/27/2022	ND	5.97	99.5	6.00	1.07	
Total BTEX	86.5	3.00	09/27/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 125 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	9520	16.0	09/27/2022	ND	416	104	400	0.00		

TPH 8015M	mg/kg	Analyzed By: CK						S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	965	10.0	09/26/2022	ND	220	110	200	2.46	
DRO >C10-C28*	5650	10.0	09/26/2022	ND	220	110	200	2.16	
EXT DRO >C28-C36	1030	10.0	09/26/2022	ND					

Surrogate: 1-Chlorooctane 199 % 45.3-161

Surrogate: 1-Chlorooctadecane 239 % 46.3-178

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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: 09/23/2022  
 Reported: 09/29/2022  
 Project Name: CHIEF 30 STATE #7H  
 Project Number: CIMAREX (CHIEF #7)  
 Project Location: LEA COUNTY, NM

Sampling Date: 09/23/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH - 3 3' (H224442-22)**

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	2.79	0.500	09/27/2022	ND	2.02	101	2.00	0.532	
Toluene*	23.4	0.500	09/27/2022	ND	1.99	99.4	2.00	0.489	
Ethylbenzene*	13.0	0.500	09/27/2022	ND	1.91	95.3	2.00	0.0228	
Total Xylenes*	32.4	1.50	09/27/2022	ND	5.97	99.5	6.00	1.07	
Total BTEX	71.5	3.00	09/27/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 119 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	8400	16.0	09/27/2022	ND	416	104	400	0.00		

TPH 8015M	mg/kg		Analyzed By: CK					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	404	10.0	09/26/2022	ND	220	110	200	2.46	
DRO >C10-C28*	2090	10.0	09/26/2022	ND	220	110	200	2.16	
EXT DRO >C28-C36	403	10.0	09/26/2022	ND					

Surrogate: 1-Chlorooctane 120 % 45.3-161

Surrogate: 1-Chlorooctadecane 179 % 46.3-178

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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: 09/23/2022  
 Reported: 09/29/2022  
 Project Name: CHIEF 30 STATE #7H  
 Project Number: CIMAREX (CHIEF #7)  
 Project Location: LEA COUNTY, NM

Sampling Date: 09/23/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH - 3 4' (H224442-23)**

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	5.97	0.500	09/27/2022	ND	2.02	101	2.00	0.532	
Toluene*	38.8	0.500	09/27/2022	ND	1.99	99.4	2.00	0.489	
Ethylbenzene*	19.1	0.500	09/27/2022	ND	1.91	95.3	2.00	0.0228	
Total Xylenes*	45.5	1.50	09/27/2022	ND	5.97	99.5	6.00	1.07	
Total BTX	109	3.00	09/27/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 123 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	14400	16.0	09/27/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	564	10.0	09/26/2022	ND	220	110	200	2.46	
DRO >C10-C28*	2770	10.0	09/26/2022	ND	220	110	200	2.16	
EXT DRO >C28-C36	509	10.0	09/26/2022	ND					

Surrogate: 1-Chlorooctane 126 % 45.3-161

Surrogate: 1-Chlorooctadecane 160 % 46.3-178

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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: 09/23/2022  
 Reported: 09/29/2022  
 Project Name: CHIEF 30 STATE #7H  
 Project Number: CIMAREX (CHIEF #7)  
 Project Location: LEA COUNTY, NM

Sampling Date: 09/23/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH - 3 6' (H224442-24)**

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	2.96	0.500	09/27/2022	ND	2.02	101	2.00	0.532	
Toluene*	23.4	0.500	09/27/2022	ND	1.99	99.4	2.00	0.489	
Ethylbenzene*	13.0	0.500	09/27/2022	ND	1.91	95.3	2.00	0.0228	
Total Xylenes*	32.3	1.50	09/27/2022	ND	5.97	99.5	6.00	1.07	
Total BTEX	71.6	3.00	09/27/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	12000	16.0	09/27/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	509	10.0	09/26/2022	ND	220	110	200	2.46	
DRO >C10-C28*	3180	10.0	09/26/2022	ND	220	110	200	2.16	
EXT DRO >C28-C36	598	10.0	09/26/2022	ND					

Surrogate: 1-Chlorooctane 128 % 45.3-161

Surrogate: 1-Chlorooctadecane 175 % 46.3-178

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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: 09/23/2022  
 Reported: 09/29/2022  
 Project Name: CHIEF 30 STATE #7H  
 Project Number: CIMAREX (CHIEF #7)  
 Project Location: LEA COUNTY, NM

Sampling Date: 09/23/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH - 3 8' (H224442-25)**

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	1.55	0.500	09/27/2022	ND	2.02	101	2.00	0.532	
Toluene*	17.7	0.500	09/27/2022	ND	1.99	99.4	2.00	0.489	
Ethylbenzene*	12.6	0.500	09/27/2022	ND	1.91	95.3	2.00	0.0228	
Total Xylenes*	33.0	1.50	09/27/2022	ND	5.97	99.5	6.00	1.07	
Total BTEX	64.8	3.00	09/27/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 121 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5440	16.0	09/27/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	667	10.0	09/26/2022	ND	220	110	200	2.46	
DRO >C10-C28*	5150	10.0	09/26/2022	ND	220	110	200	2.16	
EXT DRO >C28-C36	937	10.0	09/26/2022	ND					

Surrogate: 1-Chlorooctane 151 % 45.3-161

Surrogate: 1-Chlorooctadecane 124 % 46.3-178

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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: 09/23/2022  
 Reported: 09/29/2022  
 Project Name: CHIEF 30 STATE #7H  
 Project Number: CIMAREX (CHIEF #7)  
 Project Location: LEA COUNTY, NM

Sampling Date: 09/23/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH - 3 10' (H224442-26)**

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.946	0.500	09/27/2022	ND	2.02	101	2.00	0.532	
Toluene*	14.0	0.500	09/27/2022	ND	1.99	99.4	2.00	0.489	
Ethylbenzene*	11.0	0.500	09/27/2022	ND	1.91	95.3	2.00	0.0228	
Total Xylenes*	30.7	1.50	09/27/2022	ND	5.97	99.5	6.00	1.07	
Total BTEx	56.6	3.00	09/27/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 123 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6720	16.0	09/27/2022	ND	416	104	400	0.00	
TPH 8015M		mg/kg		Analyzed By: CK					
				S-04					

Surrogate: 1-Chlorooctane 172 % 45.3-161

Surrogate: 1-Chlorooctadecane 140 % 46.3-178

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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: 09/23/2022  
 Reported: 09/29/2022  
 Project Name: CHIEF 30 STATE #7H  
 Project Number: CIMAREX (CHIEF #7)  
 Project Location: LEA COUNTY, NM

Sampling Date: 09/23/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH - 3 15' (H224442-27)**

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>0.903</b>	0.500	09/27/2022	ND	1.90	95.0	2.00	2.77	QM-07
<b>Toluene*</b>	<b>9.30</b>	0.500	09/27/2022	ND	1.88	94.2	2.00	2.42	QM-07
<b>Ethylbenzene*</b>	<b>7.05</b>	0.500	09/27/2022	ND	1.81	90.6	2.00	2.40	QM-07
<b>Total Xylenes*</b>	<b>19.8</b>	1.50	09/27/2022	ND	5.63	93.9	6.00	2.58	
<b>Total BTEX</b>	<b>37.1</b>	3.00	09/27/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>4120</b>	16.0	09/27/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10*</b>	<b>466</b>	10.0	09/26/2022	ND	220	110	200	2.46	
<b>DRO &gt;C10-C28*</b>	<b>4770</b>	10.0	09/26/2022	ND	220	110	200	2.16	
<b>EXT DRO &gt;C28-C36</b>	<b>886</b>	10.0	09/26/2022	ND					

Surrogate: 1-Chlorooctane 145 % 45.3-161

Surrogate: 1-Chlorooctadecane 127 % 46.3-178

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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: 09/23/2022  
 Reported: 09/29/2022  
 Project Name: CHIEF 30 STATE #7H  
 Project Number: CIMAREX (CHIEF #7)  
 Project Location: LEA COUNTY, NM

Sampling Date: 09/23/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH - 3 20' (H224442-28)**

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.830	0.500	09/27/2022	ND	1.90	95.0	2.00	2.77	
Toluene*	8.04	0.500	09/27/2022	ND	1.88	94.2	2.00	2.42	
Ethylbenzene*	5.55	0.500	09/27/2022	ND	1.81	90.6	2.00	2.40	
Total Xylenes*	14.8	1.50	09/27/2022	ND	5.63	93.9	6.00	2.58	
Total BTEX	29.3	3.00	09/27/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3880	16.0	09/27/2022	ND	416	104	400	0.00	
TPH 8015M	mg/kg		Analyzed By: CK						S-04

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10*</b>	<b>312</b>	10.0	09/26/2022	ND	220	110	200	2.46	
<b>DRO &gt;C10-C28*</b>	<b>3530</b>	10.0	09/26/2022	ND	220	110	200	2.16	
<b>EXT DRO &gt;C28-C36</b>	<b>693</b>	10.0	09/26/2022	ND					

Surrogate: 1-Chlorooctane 129 % 45.3-161

Surrogate: 1-Chlorooctadecane 191 % 46.3-178

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: 09/23/2022  
 Reported: 09/29/2022  
 Project Name: CHIEF 30 STATE #7H  
 Project Number: CIMAREX (CHIEF #7)  
 Project Location: LEA COUNTY, NM

Sampling Date: 09/23/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH - 3 25' (H224442-29)**

BTEx 8021B		mg/kg		Analyzed By: JH/				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.195	0.050	09/27/2022	ND	1.90	95.0	2.00	2.77	
Toluene*	2.14	0.050	09/27/2022	ND	1.88	94.2	2.00	2.42	
Ethylbenzene*	2.10	0.050	09/27/2022	ND	1.81	90.6	2.00	2.40	
Total Xylenes*	6.08	0.150	09/27/2022	ND	5.63	93.9	6.00	2.58	
Total BTEx	10.5	0.300	09/27/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 154 % 69.9-140

Chloride, SM4500Cl-B			mg/kg					Analyzed By: GM	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>6320</b>	16.0	09/27/2022	ND	416	104	400	0.00	

TPH 8015M			mg/kg					Analyzed By: CK	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10*</b>	<b>85.1</b>	10.0	09/26/2022	ND	220	110	200	2.46	
<b>DRO &gt;C10-C28*</b>	<b>981</b>	10.0	09/26/2022	ND	220	110	200	2.16	
<b>EXT DRO &gt;C28-C36</b>	<b>198</b>	10.0	09/26/2022	ND					

Surrogate: 1-Chlorooctane 107 % 45.3-161

Surrogate: 1-Chlorooctadecane 128 % 46.3-178

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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: 09/23/2022  
 Reported: 09/29/2022  
 Project Name: CHIEF 30 STATE #7H  
 Project Number: CIMAREX (CHIEF #7)  
 Project Location: LEA COUNTY, NM

Sampling Date: 09/23/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH - 3 30' (H224442-30)**

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	09/27/2022	ND	1.90	95.0	2.00	2.77		
Toluene*	<0.050	0.050	09/27/2022	ND	1.88	94.2	2.00	2.42		
Ethylbenzene*	<0.050	0.050	09/27/2022	ND	1.81	90.6	2.00	2.40		
Total Xylenes*	<0.150	0.150	09/27/2022	ND	5.63	93.9	6.00	2.58		
Total BTX	<0.300	0.300	09/27/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2840	16.0	09/27/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/26/2022	ND	220	110	200	2.46	
DRO >C10-C28*	34.1	10.0	09/26/2022	ND	220	110	200	2.16	
EXT DRO >C28-C36	<10.0	10.0	09/26/2022	ND					

Surrogate: 1-Chlorooctane 94.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 99.0 % 46.3-178

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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: 09/23/2022  
 Reported: 09/29/2022  
 Project Name: CHIEF 30 STATE #7H  
 Project Number: CIMAREX (CHIEF #7)  
 Project Location: LEA COUNTY, NM

Sampling Date: 09/23/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH - 3 35' (H224442-31)**

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	09/27/2022	ND	1.90	95.0	2.00	2.77		
Toluene*	<0.050	0.050	09/27/2022	ND	1.88	94.2	2.00	2.42		
Ethylbenzene*	<0.050	0.050	09/27/2022	ND	1.81	90.6	2.00	2.40		
Total Xylenes*	<0.150	0.150	09/27/2022	ND	5.63	93.9	6.00	2.58		
Total BTEx	<0.300	0.300	09/27/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	672	16.0	09/27/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/26/2022	ND	220	110	200	2.46	
DRO >C10-C28*	144	10.0	09/26/2022	ND	220	110	200	2.16	
EXT DRO >C28-C36	27.1	10.0	09/26/2022	ND					

Surrogate: 1-Chlorooctane 92.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 102 % 46.3-178

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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: 09/23/2022  
 Reported: 09/29/2022  
 Project Name: CHIEF 30 STATE #7H  
 Project Number: CIMAREX (CHIEF #7)  
 Project Location: LEA COUNTY, NM

Sampling Date: 09/23/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH - 3 40' (H224442-32)**

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	09/27/2022	ND	1.90	95.0	2.00	2.77		
Toluene*	0.099	0.050	09/27/2022	ND	1.88	94.2	2.00	2.42		
Ethylbenzene*	<0.050	0.050	09/27/2022	ND	1.81	90.6	2.00	2.40		
Total Xylenes*	<0.150	0.150	09/27/2022	ND	5.63	93.9	6.00	2.58		
Total BTEx	<0.300	0.300	09/27/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	09/27/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/26/2022	ND	220	110	200	2.46	
DRO >C10-C28*	54.8	10.0	09/26/2022	ND	220	110	200	2.16	
EXT DRO >C28-C36	<10.0	10.0	09/26/2022	ND					

Surrogate: 1-Chlorooctane 92.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 97.8 % 46.3-178

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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: 09/23/2022  
 Reported: 09/29/2022  
 Project Name: CHIEF 30 STATE #7H  
 Project Number: CIMAREX (CHIEF #7)  
 Project Location: LEA COUNTY, NM

Sampling Date: 09/23/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH - 4 0-1' (H224442-33)**

BTEx 8021B		mg/kg	Analyzed By: JH/					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>0.631</b>	0.500	09/27/2022	ND	1.90	95.0	2.00	2.77	
<b>Toluene*</b>	<b>24.9</b>	0.500	09/27/2022	ND	1.88	94.2	2.00	2.42	
<b>Ethylbenzene*</b>	<b>24.0</b>	0.500	09/27/2022	ND	1.81	90.6	2.00	2.40	
<b>Total Xylenes*</b>	<b>96.3</b>	1.50	09/27/2022	ND	5.63	93.9	6.00	2.58	
<b>Total BTEX</b>	<b>146</b>	3.00	09/27/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 149 % 69.9-140

Chloride, SM4500Cl-B		mg/kg	Analyzed By: GM					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>5200</b>	16.0	09/27/2022	ND	432	108	400	0.00	QM-07
<b>TPH 8015M</b>									

TPH 8015M		mg/kg	Analyzed By: CK					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10*</b>	<b>1740</b>	10.0	09/26/2022	ND	192	96.2	200	4.49	QM-07
<b>DRO &gt;C10-C28*</b>	<b>7440</b>	10.0	09/26/2022	ND	196	98.0	200	4.94	QM-07
<b>EXT DRO &gt;C28-C36</b>	<b>860</b>	10.0	09/26/2022	ND					

Surrogate: 1-Chlorooctane 392 % 45.3-161

Surrogate: 1-Chlorooctadecane 430 % 46.3-178

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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: 09/23/2022  
 Reported: 09/29/2022  
 Project Name: CHIEF 30 STATE #7H  
 Project Number: CIMAREX (CHIEF #7)  
 Project Location: LEA COUNTY, NM

Sampling Date: 09/23/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH - 4 2' (H224442-34)**

BTEx 8021B		mg/kg	Analyzed By: JH/					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>0.950</b>	0.500	09/27/2022	ND	1.90	95.0	2.00	2.77	
<b>Toluene*</b>	<b>27.1</b>	0.500	09/27/2022	ND	1.88	94.2	2.00	2.42	
<b>Ethylbenzene*</b>	<b>26.1</b>	0.500	09/27/2022	ND	1.81	90.6	2.00	2.40	
<b>Total Xylenes*</b>	<b>74.4</b>	1.50	09/27/2022	ND	5.63	93.9	6.00	2.58	
<b>Total BTEX</b>	<b>129</b>	3.00	09/27/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 144 % 69.9-140

Chloride, SM4500CI-B		mg/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>5680</b>	16.0	09/27/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg	Analyzed By: CK					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10*</b>	<b>1620</b>	10.0	09/26/2022	ND	192	96.2	200	4.49	
<b>DRO &gt;C10-C28*</b>	<b>8840</b>	10.0	09/26/2022	ND	196	98.0	200	4.94	
<b>EXT DRO &gt;C28-C36</b>	<b>1020</b>	10.0	09/26/2022	ND					

Surrogate: 1-Chlorooctane 442 % 45.3-161

Surrogate: 1-Chlorooctadecane 730 % 46.3-178

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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: 09/23/2022  
 Reported: 09/29/2022  
 Project Name: CHIEF 30 STATE #7H  
 Project Number: CIMAREX (CHIEF #7)  
 Project Location: LEA COUNTY, NM

Sampling Date: 09/23/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH - 4 3' (H224442-35)**

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	09/27/2022	ND	1.90	95.0	2.00	2.77	
Toluene*	13.1	0.500	09/27/2022	ND	1.88	94.2	2.00	2.42	
Ethylbenzene*	14.8	0.500	09/27/2022	ND	1.81	90.6	2.00	2.40	
Total Xylenes*	42.1	1.50	09/27/2022	ND	5.63	93.9	6.00	2.58	
Total BTEX	70.0	3.00	09/27/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 132 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2280	16.0	09/27/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	563	10.0	09/26/2022	ND	192	96.2	200	4.49	
DRO >C10-C28*	3770	10.0	09/26/2022	ND	196	98.0	200	4.94	
EXT DRO >C28-C36	492	10.0	09/26/2022	ND					

Surrogate: 1-Chlorooctane 168 % 45.3-161

Surrogate: 1-Chlorooctadecane 289 % 46.3-178

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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: 09/23/2022  
 Reported: 09/29/2022  
 Project Name: CHIEF 30 STATE #7H  
 Project Number: CIMAREX (CHIEF #7)  
 Project Location: LEA COUNTY, NM

Sampling Date: 09/23/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH - 4 4' (H224442-36)**

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	3.20	0.500	09/27/2022	ND	1.90	95.0	2.00	2.77	
Toluene*	27.2	0.500	09/27/2022	ND	1.88	94.2	2.00	2.42	
Ethylbenzene*	16.9	0.500	09/27/2022	ND	1.81	90.6	2.00	2.40	
Total Xylenes*	41.0	1.50	09/27/2022	ND	5.63	93.9	6.00	2.58	
Total BTEX	88.3	3.00	09/27/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	09/27/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	143	10.0	09/26/2022	ND	192	96.2	200	4.49	
DRO >C10-C28*	621	10.0	09/26/2022	ND	196	98.0	200	4.94	
EXT DRO >C28-C36	91.4	10.0	09/26/2022	ND					

Surrogate: 1-Chlorooctane 105 % 45.3-161

Surrogate: 1-Chlorooctadecane 137 % 46.3-178

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: 09/23/2022  
 Reported: 09/29/2022  
 Project Name: CHIEF 30 STATE #7H  
 Project Number: CIMAREX (CHIEF #7)  
 Project Location: LEA COUNTY, NM

Sampling Date: 09/23/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH - 4 6' (H224442-37)**

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	1.69	0.500	09/27/2022	ND	1.90	95.0	2.00	2.77	
Toluene*	21.9	0.500	09/27/2022	ND	1.88	94.2	2.00	2.42	
Ethylbenzene*	18.6	0.500	09/27/2022	ND	1.81	90.6	2.00	2.40	
Total Xylenes*	51.8	1.50	09/27/2022	ND	5.63	93.9	6.00	2.58	
Total BTEX	94.0	3.00	09/27/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 138 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	09/27/2022	ND	432	108	400	0.00		

TPH 8015M	mg/kg		Analyzed By: CK					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	1140	10.0	09/26/2022	ND	192	96.2	200	4.49	
DRO >C10-C28*	7010	10.0	09/26/2022	ND	196	98.0	200	4.94	
EXT DRO >C28-C36	797	10.0	09/26/2022	ND					

Surrogate: 1-Chlorooctane 276 % 45.3-161

Surrogate: 1-Chlorooctadecane 511 % 46.3-178

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 09/23/2022  
 Reported: 09/29/2022  
 Project Name: CHIEF 30 STATE #7H  
 Project Number: CIMAREX (CHIEF #7)  
 Project Location: LEA COUNTY, NM

Sampling Date: 09/23/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH - 4 8' (H224442-38)**

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	9.52	0.500	09/27/2022	ND	1.90	95.0	2.00	2.77	
Toluene*	51.0	0.500	09/27/2022	ND	1.88	94.2	2.00	2.42	
Ethylbenzene*	26.2	0.500	09/27/2022	ND	1.81	90.6	2.00	2.40	
Total Xylenes*	67.6	1.50	09/27/2022	ND	5.63	93.9	6.00	2.58	
Total BTEX	154	3.00	09/27/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 132 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	09/27/2022	ND	432	108	400	0.00		

TPH 8015M	mg/kg		Analyzed By: CK					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	1060	10.0	09/26/2022	ND	192	96.2	200	4.49	
DRO >C10-C28*	4220	10.0	09/26/2022	ND	196	98.0	200	4.94	
EXT DRO >C28-C36	533	10.0	09/26/2022	ND					

Surrogate: 1-Chlorooctane 178 % 45.3-161

Surrogate: 1-Chlorooctadecane 312 % 46.3-178

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 09/23/2022  
 Reported: 09/29/2022  
 Project Name: CHIEF 30 STATE #7H  
 Project Number: CIMAREX (CHIEF #7)  
 Project Location: LEA COUNTY, NM

Sampling Date: 09/23/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH - 4 10' (H224442-39)**

BTX 8021B		mg/kg	Analyzed By: JH/					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>0.368</b>	0.050	09/27/2022	ND	1.90	95.0	2.00	2.77	
<b>Toluene*</b>	<b>4.72</b>	0.050	09/27/2022	ND	1.88	94.2	2.00	2.42	
<b>Ethylbenzene*</b>	<b>4.84</b>	0.050	09/27/2022	ND	1.81	90.6	2.00	2.40	
<b>Total Xylenes*</b>	<b>14.1</b>	0.150	09/27/2022	ND	5.63	93.9	6.00	2.58	
<b>Total BTX</b>	<b>24.0</b>	0.300	09/27/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 213 % 69.9-140

Chloride, SM4500CI-B		mg/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>400</b>	16.0	09/27/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg	Analyzed By: CK					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10*</b>	<b>274</b>	10.0	09/26/2022	ND	192	96.2	200	4.49	
<b>DRO &gt;C10-C28*</b>	<b>2340</b>	10.0	09/26/2022	ND	196	98.0	200	4.94	
<b>EXT DRO &gt;C28-C36</b>	<b>320</b>	10.0	09/26/2022	ND					

Surrogate: 1-Chlorooctane 129 % 45.3-161

Surrogate: 1-Chlorooctadecane 219 % 46.3-178

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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: 09/23/2022  
 Reported: 09/29/2022  
 Project Name: CHIEF 30 STATE #7H  
 Project Number: CIMAREX (CHIEF #7)  
 Project Location: LEA COUNTY, NM

Sampling Date: 09/23/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH - 4 15' (H224442-40)**

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	09/27/2022	ND	1.90	95.0	2.00	2.77	
Toluene*	0.051	0.050	09/27/2022	ND	1.88	94.2	2.00	2.42	
Ethylbenzene*	<0.050	0.050	09/27/2022	ND	1.81	90.6	2.00	2.40	
Total Xylenes*	<0.150	0.150	09/27/2022	ND	5.63	93.9	6.00	2.58	
Total BTEx	<0.300	0.300	09/27/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/27/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/26/2022	ND	192	96.2	200	4.49	
DRO >C10-C28*	74.9	10.0	09/26/2022	ND	196	98.0	200	4.94	
EXT DRO >C28-C36	30.6	10.0	09/26/2022	ND					

Surrogate: 1-Chlorooctane 85.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 101 % 46.3-178

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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: 09/23/2022  
 Reported: 09/29/2022  
 Project Name: CHIEF 30 STATE #7H  
 Project Number: CIMAREX (CHIEF #7)  
 Project Location: LEA COUNTY, NM

Sampling Date: 09/23/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH - 4 20' (H224442-41)**

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	09/27/2022	ND	1.90	95.0	2.00	2.77	
Toluene*	<0.050	0.050	09/27/2022	ND	1.88	94.2	2.00	2.42	
Ethylbenzene*	<0.050	0.050	09/27/2022	ND	1.81	90.6	2.00	2.40	
Total Xylenes*	<0.150	0.150	09/27/2022	ND	5.63	93.9	6.00	2.58	
Total BTX	<0.300	0.300	09/27/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	09/27/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/26/2022	ND	192	96.2	200	4.49	
DRO >C10-C28*	107	10.0	09/26/2022	ND	196	98.0	200	4.94	
EXT DRO >C28-C36	18.1	10.0	09/26/2022	ND					

Surrogate: 1-Chlorooctane 95.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 116 % 46.3-178

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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: 09/23/2022  
 Reported: 09/29/2022  
 Project Name: CHIEF 30 STATE #7H  
 Project Number: CIMAREX (CHIEF #7)  
 Project Location: LEA COUNTY, NM

Sampling Date: 09/23/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH - 5 0-1' (H224442-42)**

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.149	0.100	09/27/2022	ND	1.90	95.0	2.00	2.77	
Toluene*	5.26	0.100	09/27/2022	ND	1.88	94.2	2.00	2.42	
Ethylbenzene*	7.68	0.100	09/27/2022	ND	1.81	90.6	2.00	2.40	
Total Xylenes*	40.5	0.300	09/27/2022	ND	5.63	93.9	6.00	2.58	
Total BTEx	53.6	0.600	09/27/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 139 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	576	16.0	09/27/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg	Analyzed By: CK					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	885	10.0	09/26/2022	ND	192	96.2	200	4.49	
DRO >C10-C28*	6660	10.0	09/26/2022	ND	196	98.0	200	4.94	
EXT DRO >C28-C36	770	10.0	09/26/2022	ND					

Surrogate: 1-Chlorooctane 274 % 45.3-161

Surrogate: 1-Chlorooctadecane 417 % 46.3-178

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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: 09/23/2022  
 Reported: 09/29/2022  
 Project Name: CHIEF 30 STATE #7H  
 Project Number: CIMAREX (CHIEF #7)  
 Project Location: LEA COUNTY, NM

Sampling Date: 09/23/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH - 5 2' (H224442-43)**

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.695	0.500	09/27/2022	ND	1.90	95.0	2.00	2.77	
Toluene*	15.1	0.500	09/27/2022	ND	1.88	94.2	2.00	2.42	
Ethylbenzene*	16.4	0.500	09/27/2022	ND	1.81	90.6	2.00	2.40	
Total Xylenes*	48.9	1.50	09/27/2022	ND	5.63	93.9	6.00	2.58	
Total BTX	81.0	3.00	09/27/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 137 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1260	16.0	09/27/2022	ND	432	108	400	0.00		

TPH 8015M	mg/kg		Analyzed By: CK					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	1150	10.0	09/26/2022	ND	192	96.2	200	4.49	
DRO >C10-C28*	7890	10.0	09/26/2022	ND	196	98.0	200	4.94	
EXT DRO >C28-C36	865	10.0	09/26/2022	ND					

Surrogate: 1-Chlorooctane 302 % 45.3-161

Surrogate: 1-Chlorooctadecane 481 % 46.3-178

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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: 09/23/2022  
 Reported: 09/29/2022  
 Project Name: CHIEF 30 STATE #7H  
 Project Number: CIMAREX (CHIEF #7)  
 Project Location: LEA COUNTY, NM

Sampling Date: 09/23/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH - 5 3' (H224442-44)**

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.827	0.500	09/27/2022	ND	1.90	95.0	2.00	2.77	
Toluene*	13.7	0.500	09/27/2022	ND	1.88	94.2	2.00	2.42	
Ethylbenzene*	10.3	0.500	09/27/2022	ND	1.81	90.6	2.00	2.40	
Total Xylenes*	27.8	1.50	09/27/2022	ND	5.63	93.9	6.00	2.58	
Total BTEx	52.6	3.00	09/27/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 120 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	13500	16.0	09/27/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	485	10.0	09/26/2022	ND	192	96.2	200	4.49	
DRO >C10-C28*	3120	10.0	09/26/2022	ND	196	98.0	200	4.94	
EXT DRO >C28-C36	394	10.0	09/26/2022	ND					

Surrogate: 1-Chlorooctane 146 % 45.3-161

Surrogate: 1-Chlorooctadecane 259 % 46.3-178

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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: 09/23/2022  
 Reported: 09/29/2022  
 Project Name: CHIEF 30 STATE #7H  
 Project Number: CIMAREX (CHIEF #7)  
 Project Location: LEA COUNTY, NM

Sampling Date: 09/23/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH - 5 4' (H224442-45)**

BTEx 8021B		mg/kg	Analyzed By: JH/					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>0.242</b>	0.050	09/28/2022	ND	1.90	95.0	2.00	2.77	
<b>Toluene*</b>	<b>3.47</b>	0.050	09/28/2022	ND	1.88	94.2	2.00	2.42	
<b>Ethylbenzene*</b>	<b>3.55</b>	0.050	09/28/2022	ND	1.81	90.6	2.00	2.40	
<b>Total Xylenes*</b>	<b>10.1</b>	0.150	09/28/2022	ND	5.63	93.9	6.00	2.58	
<b>Total BTEX</b>	<b>17.3</b>	0.300	09/28/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 177 % 69.9-140

Chloride, SM4500CI-B		mg/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>12500</b>	16.0	09/27/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg	Analyzed By: CK					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10*</b>	<b>206</b>	10.0	09/26/2022	ND	192	96.2	200	4.49	
<b>DRO &gt;C10-C28*</b>	<b>2170</b>	10.0	09/26/2022	ND	196	98.0	200	4.94	
<b>EXT DRO &gt;C28-C36</b>	<b>283</b>	10.0	09/26/2022	ND					

Surrogate: 1-Chlorooctane 121 % 45.3-161

Surrogate: 1-Chlorooctadecane 213 % 46.3-178

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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: 09/23/2022  
 Reported: 09/29/2022  
 Project Name: CHIEF 30 STATE #7H  
 Project Number: CIMAREX (CHIEF #7)  
 Project Location: LEA COUNTY, NM

Sampling Date: 09/23/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH - 5 6' (H224442-46)**

BTEx 8021B		mg/kg		Analyzed By: JH/				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	14.5	0.500	09/27/2022	ND	1.90	95.0	2.00	2.77	
Toluene*	92.5	0.500	09/27/2022	ND	1.88	94.2	2.00	2.42	
Ethylbenzene*	44.7	0.500	09/27/2022	ND	1.81	90.6	2.00	2.40	
Total Xylenes*	110	1.50	09/27/2022	ND	5.63	93.9	6.00	2.58	
Total BTEX	261	3.00	09/27/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 142 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	14100	16.0	09/27/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	2170	10.0	09/26/2022	ND	192	96.2	200	4.49	
DRO >C10-C28*	7470	10.0	09/26/2022	ND	196	98.0	200	4.94	
EXT DRO >C28-C36	816	10.0	09/26/2022	ND					

Surrogate: 1-Chlorooctane 376 % 45.3-161

Surrogate: 1-Chlorooctadecane 459 % 46.3-178

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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: 09/23/2022  
 Reported: 09/29/2022  
 Project Name: CHIEF 30 STATE #7H  
 Project Number: CIMAREX (CHIEF #7)  
 Project Location: LEA COUNTY, NM

Sampling Date: 09/23/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH - 5 8' (H224442-47)**

BTEx 8021B			mg/kg		Analyzed By: JH				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>2.15</b>	0.500	09/27/2022	ND	2.06	103	2.00	1.01	QM-07
<b>Toluene*</b>	<b>17.6</b>	0.500	09/27/2022	ND	2.00	100	2.00	0.982	QM-07
<b>Ethylbenzene*</b>	<b>11.4</b>	0.500	09/27/2022	ND	1.93	96.3	2.00	1.68	QM-07
<b>Total Xylenes*</b>	<b>30.0</b>	1.50	09/27/2022	ND	5.94	99.0	6.00	1.87	
<b>Total BTEX</b>	<b>61.1</b>	3.00	09/27/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 69.9-140

Chloride, SM4500Cl-B			mg/kg		Analyzed By: GM				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>12400</b>	16.0	09/27/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	569	10.0	09/26/2022	ND	192	96.2	200	4.49	
DRO >C10-C28*	3420	10.0	09/26/2022	ND	196	98.0	200	4.94	
EXT DRO >C28-C36	424	10.0	09/26/2022	ND					

Surrogate: 1-Chlorooctane 161 % 45.3-161

Surrogate: 1-Chlorooctadecane 282 % 46.3-178

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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: 09/23/2022  
 Reported: 09/29/2022  
 Project Name: CHIEF 30 STATE #7H  
 Project Number: CIMAREX (CHIEF #7)  
 Project Location: LEA COUNTY, NM

Sampling Date: 09/23/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH - 5 10' (H224442-48)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	2.66	0.500	09/27/2022	ND	2.06	103	2.00	1.01	
Toluene*	20.3	0.500	09/27/2022	ND	2.00	100	2.00	0.982	
Ethylbenzene*	11.6	0.500	09/27/2022	ND	1.93	96.3	2.00	1.68	
Total Xylenes*	30.1	1.50	09/27/2022	ND	5.94	99.0	6.00	1.87	
Total BTEX	64.7	3.00	09/27/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7840	16.0	09/27/2022	ND	432	108	400	0.00	
TPH 8015M		mg/kg		Analyzed By: CK					
				S-04					

Surrogate: 1-Chlorooctane 163 % 45.3-161

Surrogate: 1-Chlorooctadecane 285 % 46.3-178

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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: 09/23/2022  
 Reported: 09/29/2022  
 Project Name: CHIEF 30 STATE #7H  
 Project Number: CIMAREX (CHIEF #7)  
 Project Location: LEA COUNTY, NM

Sampling Date: 09/23/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH - 5 15' (H224442-49)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	2.26	0.500	09/27/2022	ND	2.06	103	2.00	1.01	
Toluene*	18.6	0.500	09/27/2022	ND	2.00	100	2.00	0.982	
Ethylbenzene*	11.0	0.500	09/27/2022	ND	1.93	96.3	2.00	1.68	
Total Xylenes*	28.6	1.50	09/27/2022	ND	5.94	99.0	6.00	1.87	
Total BTEX	60.5	3.00	09/27/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3200	16.0	09/27/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	496	10.0	09/26/2022	ND	192	96.2	200	4.49	
DRO >C10-C28*	3850	10.0	09/26/2022	ND	196	98.0	200	4.94	
EXT DRO >C28-C36	477	10.0	09/26/2022	ND					

Surrogate: 1-Chlorooctane 144 % 45.3-161

Surrogate: 1-Chlorooctadecane 291 % 46.3-178

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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: 09/23/2022  
 Reported: 09/29/2022  
 Project Name: CHIEF 30 STATE #7H  
 Project Number: CIMAREX (CHIEF #7)  
 Project Location: LEA COUNTY, NM

Sampling Date: 09/23/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH - 5 20' (H224442-50)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	2.99	0.500	09/27/2022	ND	2.06	103	2.00	1.01	
Toluene*	20.7	0.500	09/27/2022	ND	2.00	100	2.00	0.982	
Ethylbenzene*	11.5	0.500	09/27/2022	ND	1.93	96.3	2.00	1.68	
Total Xylenes*	29.0	1.50	09/27/2022	ND	5.94	99.0	6.00	1.87	
Total BTX	64.2	3.00	09/27/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6160	16.0	09/27/2022	ND	432	108	400	0.00		

TPH 8015M	mg/kg		Analyzed By: CK					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	346	10.0	09/26/2022	ND	192	96.2	200	4.49	
DRO >C10-C28*	2160	10.0	09/26/2022	ND	196	98.0	200	4.94	
EXT DRO >C28-C36	272	10.0	09/26/2022	ND					

Surrogate: 1-Chlorooctane 122 % 45.3-161

Surrogate: 1-Chlorooctadecane 204 % 46.3-178

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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: 09/23/2022  
 Reported: 09/29/2022  
 Project Name: CHIEF 30 STATE #7H  
 Project Number: CIMAREX (CHIEF #7)  
 Project Location: LEA COUNTY, NM

Sampling Date: 09/23/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH - 5 25' (H224442-51)**

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	09/27/2022	ND	2.06	103	2.00	1.01	
Toluene*	<0.050	0.050	09/27/2022	ND	2.00	100	2.00	0.982	
Ethylbenzene*	<0.050	0.050	09/27/2022	ND	1.93	96.3	2.00	1.68	
Total Xylenes*	<0.150	0.150	09/27/2022	ND	5.94	99.0	6.00	1.87	
Total BTEx	<0.300	0.300	09/27/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.6 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	09/27/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/26/2022	ND	192	96.2	200	4.49	
DRO >C10-C28*	100	10.0	09/26/2022	ND	196	98.0	200	4.94	
EXT DRO >C28-C36	28.3	10.0	09/26/2022	ND					

Surrogate: 1-Chlorooctane 97.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 118 % 46.3-178

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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: 09/23/2022  
 Reported: 09/29/2022  
 Project Name: CHIEF 30 STATE #7H  
 Project Number: CIMAREX (CHIEF #7)  
 Project Location: LEA COUNTY, NM

Sampling Date: 09/23/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH - 6 0-1' (H224442-52)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	09/27/2022	ND	2.06	103	2.00	1.01	
Toluene*	19.7	0.500	09/27/2022	ND	2.00	100	2.00	0.982	
Ethylbenzene*	25.8	0.500	09/27/2022	ND	1.93	96.3	2.00	1.68	
Total Xylenes*	70.8	1.50	09/27/2022	ND	5.94	99.0	6.00	1.87	
Total BTEx	116	3.00	09/27/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 135 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	09/27/2022	ND	432	108	400	0.00		
TPH 8015M		mg/kg		Analyzed By: CK						S-04

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	1650	10.0	09/26/2022	ND	192	96.2	200	4.49	
DRO >C10-C28*	9860	10.0	09/26/2022	ND	196	98.0	200	4.94	
EXT DRO >C28-C36	1000	10.0	09/26/2022	ND					

Surrogate: 1-Chlorooctane 491 % 45.3-161

Surrogate: 1-Chlorooctadecane 569 % 46.3-178

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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: 09/23/2022  
 Reported: 09/29/2022  
 Project Name: CHIEF 30 STATE #7H  
 Project Number: CIMAREX (CHIEF #7)  
 Project Location: LEA COUNTY, NM

Sampling Date: 09/23/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH - 6 2' (H224442-53)**

BTEx 8021B		mg/kg	Analyzed By: JH					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>5.30</b>	0.500	09/27/2022	ND	2.06	103	2.00	1.01	
<b>Toluene*</b>	<b>75.3</b>	0.500	09/27/2022	ND	2.00	100	2.00	0.982	
<b>Ethylbenzene*</b>	<b>58.2</b>	0.500	09/27/2022	ND	1.93	96.3	2.00	1.68	
<b>Total Xylenes*</b>	<b>149</b>	1.50	09/27/2022	ND	5.94	99.0	6.00	1.87	
<b>Total BTEX</b>	<b>287</b>	3.00	09/27/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 152 % 69.9-140

Chloride, SM4500Cl-B		mg/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>528</b>	16.0	09/27/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg	Analyzed By: CK					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10*</b>	<b>3140</b>	100	09/27/2022	ND	205	102	200	3.34	
<b>DRO &gt;C10-C28*</b>	<b>15900</b>	100	09/27/2022	ND	216	108	200	5.32	
<b>EXT DRO &gt;C28-C36</b>	<b>1520</b>	100	09/27/2022	ND					

Surrogate: 1-Chlorooctane 424 % 45.3-161

Surrogate: 1-Chlorooctadecane 270 % 46.3-178

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 09/23/2022  
 Reported: 09/29/2022  
 Project Name: CHIEF 30 STATE #7H  
 Project Number: CIMAREX (CHIEF #7)  
 Project Location: LEA COUNTY, NM

Sampling Date: 09/23/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH - 6 3' (H224442-54)**

BTEx 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	4.14	0.500	09/27/2022	ND	2.06	103	2.00	1.01	
Toluene*	55.8	0.500	09/27/2022	ND	2.00	100	2.00	0.982	
Ethylbenzene*	44.2	0.500	09/27/2022	ND	1.93	96.3	2.00	1.68	
Total Xylenes*	117	1.50	09/27/2022	ND	5.94	99.0	6.00	1.87	
Total BTEX	221	3.00	09/27/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 143 % 69.9-140

Chloride, SM4500CI-B			mg/kg					Analyzed By: GM	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>592</b>	16.0	09/27/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	2800	100	09/27/2022	ND	205	102	200	3.34	
DRO >C10-C28*	15500	100	09/27/2022	ND	216	108	200	5.32	
EXT DRO >C28-C36	1580	100	09/27/2022	ND					

Surrogate: 1-Chlorooctane 292 % 45.3-161

Surrogate: 1-Chlorooctadecane 304 % 46.3-178

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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: 09/23/2022  
 Reported: 09/29/2022  
 Project Name: CHIEF 30 STATE #7H  
 Project Number: CIMAREX (CHIEF #7)  
 Project Location: LEA COUNTY, NM

Sampling Date: 09/23/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH - 6 4' (H224442-55)**

BTEx 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	3.80	0.500	09/27/2022	ND	2.06	103	2.00	1.01	
Toluene*	57.2	0.500	09/27/2022	ND	2.00	100	2.00	0.982	
Ethylbenzene*	48.9	0.500	09/27/2022	ND	1.93	96.3	2.00	1.68	
Total Xylenes*	127	1.50	09/27/2022	ND	5.94	99.0	6.00	1.87	
Total BTEX	237	3.00	09/27/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 145 % 69.9-140

Chloride, SM4500Cl-B			mg/kg					Analyzed By: GM	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>768</b>	16.0	09/27/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	3220	100	09/27/2022	ND	205	102	200	3.34	
DRO >C10-C28*	15700	100	09/27/2022	ND	216	108	200	5.32	
EXT DRO >C28-C36	1520	100	09/27/2022	ND					

Surrogate: 1-Chlorooctane 421 % 45.3-161

Surrogate: 1-Chlorooctadecane 249 % 46.3-178

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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: 09/23/2022  
 Reported: 09/29/2022  
 Project Name: CHIEF 30 STATE #7H  
 Project Number: CIMAREX (CHIEF #7)  
 Project Location: LEA COUNTY, NM

Sampling Date: 09/23/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH - 6 6' (H224442-56)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	15.8	2.00	09/27/2022	ND	2.06	103	2.00	1.01	
Toluene*	156	2.00	09/27/2022	ND	2.00	100	2.00	0.982	
Ethylbenzene*	97.0	2.00	09/27/2022	ND	1.93	96.3	2.00	1.68	
Total Xylenes*	228	6.00	09/27/2022	ND	5.94	99.0	6.00	1.87	
Total BTEX	497	12.0	09/27/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4240	16.0	09/27/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	6050	100	09/27/2022	ND	205	102	200	3.34	
DRO >C10-C28*	22000	100	09/27/2022	ND	216	108	200	5.32	
EXT DRO >C28-C36	1960	100	09/27/2022	ND					

Surrogate: 1-Chlorooctane 392 % 45.3-161

Surrogate: 1-Chlorooctadecane 351 % 46.3-178

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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: 09/23/2022  
 Reported: 09/29/2022  
 Project Name: CHIEF 30 STATE #7H  
 Project Number: CIMAREX (CHIEF #7)  
 Project Location: LEA COUNTY, NM

Sampling Date: 09/23/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH - 6 8' (H224442-57)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	27.2	2.00	09/27/2022	ND	2.06	103	2.00	1.01	
Toluene*	179	2.00	09/27/2022	ND	2.00	100	2.00	0.982	
Ethylbenzene*	91.9	2.00	09/27/2022	ND	1.93	96.3	2.00	1.68	
Total Xylenes*	219	6.00	09/27/2022	ND	5.94	99.0	6.00	1.87	
Total BTX	517	12.0	09/27/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3280	16.0	09/27/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	5580	100	09/28/2022	ND	205	102	200	3.34	
DRO >C10-C28*	17200	100	09/28/2022	ND	216	108	200	5.32	
EXT DRO >C28-C36	2040	100	09/28/2022	ND					

Surrogate: 1-Chlorooctane 863 % 45.3-161

Surrogate: 1-Chlorooctadecane 517 % 46.3-178

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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: 09/23/2022  
 Reported: 09/29/2022  
 Project Name: CHIEF 30 STATE #7H  
 Project Number: CIMAREX (CHIEF #7)  
 Project Location: LEA COUNTY, NM

Sampling Date: 09/23/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH - 6 10' (H224442-58)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	35.6	2.00	09/27/2022	ND	2.06	103	2.00	1.01	
Toluene*	212	2.00	09/27/2022	ND	2.00	100	2.00	0.982	
Ethylbenzene*	106	2.00	09/27/2022	ND	1.93	96.3	2.00	1.68	
Total Xylenes*	242	6.00	09/27/2022	ND	5.94	99.0	6.00	1.87	
Total BTEX	596	12.0	09/27/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4880	16.0	09/27/2022	ND	416	104	400	0.00	
TPH 8015M	mg/kg		Analyzed By: CK						S-06

Surrogate: 1-Chlorooctane 609 % 45.3-161

Surrogate: 1-Chlorooctadecane 641 % 46.3-178

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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: 09/23/2022  
 Reported: 09/29/2022  
 Project Name: CHIEF 30 STATE #7H  
 Project Number: CIMAREX (CHIEF #7)  
 Project Location: LEA COUNTY, NM

Sampling Date: 09/23/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH - 6 15' (H224442-59)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	11.7	0.500	09/27/2022	ND	2.06	103	2.00	1.01	
Toluene*	80.7	0.500	09/27/2022	ND	2.00	100	2.00	0.982	
Ethylbenzene*	47.1	0.500	09/27/2022	ND	1.93	96.3	2.00	1.68	
Total Xylenes*	113	1.50	09/27/2022	ND	5.94	99.0	6.00	1.87	
Total BTEX	252	3.00	09/27/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 137 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	752	16.0	09/27/2022	ND	416	104	400	0.00		

TPH 8015M	mg/kg	Analyzed By: CK						S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	2900	100	09/27/2022	ND	205	102	200	3.34	
DRO >C10-C28*	14300	100	09/27/2022	ND	216	108	200	5.32	
EXT DRO >C28-C36	1460	100	09/27/2022	ND					

Surrogate: 1-Chlorooctane 437 % 45.3-161

Surrogate: 1-Chlorooctadecane 276 % 46.3-178

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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: 09/23/2022  
 Reported: 09/29/2022  
 Project Name: CHIEF 30 STATE #7H  
 Project Number: CIMAREX (CHIEF #7)  
 Project Location: LEA COUNTY, NM

Sampling Date: 09/23/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH - 6 20' (H224442-60)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	38.6	2.00	09/27/2022	ND	2.06	103	2.00	1.01	
Toluene*	248	2.00	09/27/2022	ND	2.00	100	2.00	0.982	
Ethylbenzene*	133	2.00	09/27/2022	ND	1.93	96.3	2.00	1.68	
Total Xylenes*	339	6.00	09/27/2022	ND	5.94	99.0	6.00	1.87	
Total BTEX	759	12.0	09/27/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 123 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	09/27/2022	ND	416	104	400	0.00		
TPH 8015M		mg/kg		Analyzed By: CK						S-06

Surrogate: 1-Chlorooctane 481 % 45.3-161

Surrogate: 1-Chlorooctadecane 434 % 46.3-178

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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: 09/23/2022  
 Reported: 09/29/2022  
 Project Name: CHIEF 30 STATE #7H  
 Project Number: CIMAREX (CHIEF #7)  
 Project Location: LEA COUNTY, NM

Sampling Date: 09/23/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH - 6 25' (H224442-61)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.085	0.050	09/27/2022	ND	2.06	103	2.00	1.01	
Toluene*	0.745	0.050	09/27/2022	ND	2.00	100	2.00	0.982	
Ethylbenzene*	0.654	0.050	09/27/2022	ND	1.93	96.3	2.00	1.68	
Total Xylenes*	1.78	0.150	09/27/2022	ND	5.94	99.0	6.00	1.87	
Total BTX	3.26	0.300	09/27/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	352	16.0	09/27/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	40.5	10.0	09/27/2022	ND	205	102	200	3.34	
DRO >C10-C28*	1290	10.0	09/27/2022	ND	216	108	200	5.32	
EXT DRO >C28-C36	147	10.0	09/27/2022	ND					

Surrogate: 1-Chlorooctane 101 % 45.3-161

Surrogate: 1-Chlorooctadecane 168 % 46.3-178

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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: 09/23/2022  
 Reported: 09/29/2022  
 Project Name: CHIEF 30 STATE #7H  
 Project Number: CIMAREX (CHIEF #7)  
 Project Location: LEA COUNTY, NM

Sampling Date: 09/23/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH - 6 30' (H224442-62)**

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	09/27/2022	ND	2.06	103	2.00	1.01	
Toluene*	0.087	0.050	09/27/2022	ND	2.00	100	2.00	0.982	
Ethylbenzene*	0.072	0.050	09/27/2022	ND	1.93	96.3	2.00	1.68	
Total Xylenes*	0.204	0.150	09/27/2022	ND	5.94	99.0	6.00	1.87	
Total BTEX	0.363	0.300	09/27/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.7 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	12600	16.0	09/27/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/27/2022	ND	205	102	200	3.34	
DRO >C10-C28*	197	10.0	09/27/2022	ND	216	108	200	5.32	
EXT DRO >C28-C36	26.7	10.0	09/27/2022	ND					

Surrogate: 1-Chlorooctane 98.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 120 % 46.3-178

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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: 09/23/2022  
 Reported: 09/29/2022  
 Project Name: CHIEF 30 STATE #7H  
 Project Number: CIMAREX (CHIEF #7)  
 Project Location: LEA COUNTY, NM

Sampling Date: 09/23/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH - 6 35' (H224442-63)**

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	09/27/2022	ND	2.06	103	2.00	1.01	
Toluene*	<0.050	0.050	09/27/2022	ND	2.00	100	2.00	0.982	
Ethylbenzene*	<0.050	0.050	09/27/2022	ND	1.93	96.3	2.00	1.68	
Total Xylenes*	<0.150	0.150	09/27/2022	ND	5.94	99.0	6.00	1.87	
Total BTX	<0.300	0.300	09/27/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.7 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	09/27/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/27/2022	ND	205	102	200	3.34	
DRO >C10-C28*	205	10.0	09/27/2022	ND	216	108	200	5.32	
EXT DRO >C28-C36	20.8	10.0	09/27/2022	ND					

Surrogate: 1-Chlorooctane 93.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 118 % 46.3-178

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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: 09/23/2022  
 Reported: 09/29/2022  
 Project Name: CHIEF 30 STATE #7H  
 Project Number: CIMAREX (CHIEF #7)  
 Project Location: LEA COUNTY, NM

Sampling Date: 09/23/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH - 6 40' (H224442-64)**

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	09/27/2022	ND	2.06	103	2.00	1.01	
Toluene*	<0.050	0.050	09/27/2022	ND	2.00	100	2.00	0.982	
Ethylbenzene*	<0.050	0.050	09/27/2022	ND	1.93	96.3	2.00	1.68	
Total Xylenes*	<0.150	0.150	09/27/2022	ND	5.94	99.0	6.00	1.87	
Total BTEx	<0.300	0.300	09/27/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.7 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	09/27/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/27/2022	ND	205	102	200	3.34	
DRO >C10-C28*	390	10.0	09/27/2022	ND	216	108	200	5.32	
EXT DRO >C28-C36	39.5	10.0	09/27/2022	ND					

Surrogate: 1-Chlorooctane 97.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 107 % 46.3-178

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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: 09/23/2022  
 Reported: 09/29/2022  
 Project Name: CHIEF 30 STATE #7H  
 Project Number: CIMAREX (CHIEF #7)  
 Project Location: LEA COUNTY, NM

Sampling Date: 09/23/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH - 7 0-1' (H224442-65)**

BTEx 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>1.51</b>	0.500	09/27/2022	ND	2.06	103	2.00	1.01	
<b>Toluene*</b>	<b>36.6</b>	0.500	09/27/2022	ND	2.00	100	2.00	0.982	
<b>Ethylbenzene*</b>	<b>37.9</b>	0.500	09/27/2022	ND	1.93	96.3	2.00	1.68	
<b>Total Xylenes*</b>	<b>106</b>	1.50	09/27/2022	ND	5.94	99.0	6.00	1.87	
<b>Total BTEX</b>	<b>182</b>	3.00	09/27/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 144 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>2880</b>	16.0	09/27/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10*</b>	<b>2190</b>	100	09/27/2022	ND	205	102	200	3.34	
<b>DRO &gt;C10-C28*</b>	<b>10400</b>	100	09/27/2022	ND	216	108	200	5.32	
<b>EXT DRO &gt;C28-C36</b>	<b>1080</b>	100	09/27/2022	ND					

Surrogate: 1-Chlorooctane 377 % 45.3-161

Surrogate: 1-Chlorooctadecane 426 % 46.3-178

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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: 09/23/2022  
 Reported: 09/29/2022  
 Project Name: CHIEF 30 STATE #7H  
 Project Number: CIMAREX (CHIEF #7)  
 Project Location: LEA COUNTY, NM

Sampling Date: 09/23/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH - 7 2' (H224442-66)**

BTX 8021B		mg/kg	Analyzed By: JH					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>6.66</b>	0.500	09/27/2022	ND	2.06	103	2.00	1.01	
<b>Toluene*</b>	<b>95.1</b>	0.500	09/27/2022	ND	2.00	100	2.00	0.982	
<b>Ethylbenzene*</b>	<b>66.8</b>	0.500	09/27/2022	ND	1.93	96.3	2.00	1.68	
<b>Total Xylenes*</b>	<b>161</b>	1.50	09/27/2022	ND	5.94	99.0	6.00	1.87	
<b>Total BTX</b>	<b>330</b>	3.00	09/27/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 150 % 69.9-140

Chloride, SM4500CI-B		mg/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>3160</b>	16.0	09/27/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg	Analyzed By: CK					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10*</b>	<b>4230</b>	100	09/27/2022	ND	205	102	200	3.34	
<b>DRO &gt;C10-C28*</b>	<b>18000</b>	100	09/27/2022	ND	216	108	200	5.32	
<b>EXT DRO &gt;C28-C36</b>	<b>2030</b>	100	09/27/2022	ND					

Surrogate: 1-Chlorooctane 339 % 45.3-161

Surrogate: 1-Chlorooctadecane 351 % 46.3-178

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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: 09/23/2022  
 Reported: 09/29/2022  
 Project Name: CHIEF 30 STATE #7H  
 Project Number: CIMAREX (CHIEF #7)  
 Project Location: LEA COUNTY, NM

Sampling Date: 09/23/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH - 7 3' (H224442-67)**

BTEx 8021B		mg/kg	Analyzed By: JH					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>7.33</b>	0.500	09/26/2022	ND	2.03	102	2.00	7.53	
<b>Toluene*</b>	<b>88.3</b>	0.500	09/26/2022	ND	1.97	98.4	2.00	6.84	
<b>Ethylbenzene*</b>	<b>66.2</b>	0.500	09/26/2022	ND	1.91	95.4	2.00	7.74	
<b>Total Xylenes*</b>	<b>163</b>	1.50	09/26/2022	ND	5.84	97.3	6.00	7.48	
<b>Total BTEX</b>	<b>325</b>	3.00	09/26/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 151 % 69.9-140

Chloride, SM4500Cl-B		mg/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>5760</b>	16.0	09/27/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg	Analyzed By: CK					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10*</b>	<b>4170</b>	100	09/27/2022	ND	205	102	200	3.34	
<b>DRO &gt;C10-C28*</b>	<b>17200</b>	100	09/27/2022	ND	216	108	200	5.32	
<b>EXT DRO &gt;C28-C36</b>	<b>2080</b>	100	09/27/2022	ND					

Surrogate: 1-Chlorooctane 793 % 45.3-161

Surrogate: 1-Chlorooctadecane 1020 % 46.3-178

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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: 09/23/2022  
 Reported: 09/29/2022  
 Project Name: CHIEF 30 STATE #7H  
 Project Number: CIMAREX (CHIEF #7)  
 Project Location: LEA COUNTY, NM

Sampling Date: 09/23/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH - 7 4' (H224442-68)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	11.1	1.00	09/26/2022	ND	2.03	102	2.00	7.53	
Toluene*	119	1.00	09/26/2022	ND	1.97	98.4	2.00	6.84	
Ethylbenzene*	77.7	1.00	09/26/2022	ND	1.91	95.4	2.00	7.74	
Total Xylenes*	183	3.00	09/26/2022	ND	5.84	97.3	6.00	7.48	
Total BTEX	390	6.00	09/26/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 125 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	9860	16.0	09/27/2022	ND	416	104	400	0.00		
TPH 8015M		mg/kg		Analyzed By: CK						S-06

Surrogate: 1-Chlorooctane 795 % 45.3-161

Surrogate: 1-Chlorooctadecane 1030 % 46.3-178

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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: 09/23/2022  
 Reported: 09/29/2022  
 Project Name: CHIEF 30 STATE #7H  
 Project Number: CIMAREX (CHIEF #7)  
 Project Location: LEA COUNTY, NM

Sampling Date: 09/23/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH - 7 6' (H224442-69)**

BTEx 8021B		mg/kg	Analyzed By: JH					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>9.36</b>	0.500	09/26/2022	ND	2.03	102	2.00	7.53	
<b>Toluene*</b>	<b>91.1</b>	0.500	09/26/2022	ND	1.97	98.4	2.00	6.84	
<b>Ethylbenzene*</b>	<b>61.8</b>	0.500	09/26/2022	ND	1.91	95.4	2.00	7.74	
<b>Total Xylenes*</b>	<b>153</b>	1.50	09/26/2022	ND	5.84	97.3	6.00	7.48	
<b>Total BTEX</b>	<b>315</b>	3.00	09/26/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 146 % 69.9-140

Chloride, SM4500Cl-B		mg/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>7730</b>	16.0	09/27/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg	Analyzed By: CK					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10*</b>	<b>4160</b>	100	09/27/2022	ND	205	102	200	3.34	
<b>DRO &gt;C10-C28*</b>	<b>17800</b>	100	09/27/2022	ND	216	108	200	5.32	
<b>EXT DRO &gt;C28-C36</b>	<b>1670</b>	100	09/27/2022	ND					

Surrogate: 1-Chlorooctane 575 % 45.3-161

Surrogate: 1-Chlorooctadecane 660 % 46.3-178

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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: 09/23/2022  
 Reported: 09/29/2022  
 Project Name: CHIEF 30 STATE #7H  
 Project Number: CIMAREX (CHIEF #7)  
 Project Location: LEA COUNTY, NM

Sampling Date: 09/23/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH - 7 8' (H224442-70)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	12.0	1.00	09/27/2022	ND	2.03	102	2.00	7.53	
Toluene*	107	1.00	09/27/2022	ND	1.97	98.4	2.00	6.84	
Ethylbenzene*	67.2	1.00	09/27/2022	ND	1.91	95.4	2.00	7.74	
Total Xylenes*	161	3.00	09/27/2022	ND	5.84	97.3	6.00	7.48	
Total BTEX	347	6.00	09/27/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 123 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	10700	16.0	09/27/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	3460	100	09/27/2022	ND	205	102	200	3.34	
DRO >C10-C28*	14600	100	09/27/2022	ND	216	108	200	5.32	
EXT DRO >C28-C36	1590	100	09/27/2022	ND					

Surrogate: 1-Chlorooctane 468 % 45.3-161

Surrogate: 1-Chlorooctadecane 265 % 46.3-178

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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: 09/23/2022  
 Reported: 09/29/2022  
 Project Name: CHIEF 30 STATE #7H  
 Project Number: CIMAREX (CHIEF #7)  
 Project Location: LEA COUNTY, NM

Sampling Date: 09/23/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH - 7 10' (H224442-71)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	32.7	2.00	09/27/2022	ND	2.03	102	2.00	7.53	
Toluene*	197	2.00	09/27/2022	ND	1.97	98.4	2.00	6.84	
Ethylbenzene*	90.6	2.00	09/27/2022	ND	1.91	95.4	2.00	7.74	
Total Xylenes*	204	6.00	09/27/2022	ND	5.84	97.3	6.00	7.48	
Total BTEX	525	12.0	09/27/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6660	16.0	09/27/2022	ND	416	104	400	0.00		
TPH 8015M		mg/kg		Analyzed By: CK						S-06

Surrogate: 1-Chlorooctane 410 % 45.3-161

Surrogate: 1-Chlorooctadecane 223 % 46.3-178

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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: 09/23/2022  
 Reported: 09/29/2022  
 Project Name: CHIEF 30 STATE #7H  
 Project Number: CIMAREX (CHIEF #7)  
 Project Location: LEA COUNTY, NM

Sampling Date: 09/23/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH - 7 15' (H224442-72)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	12.7	0.500	09/27/2022	ND	2.03	102	2.00	7.53	
Toluene*	91.4	0.500	09/27/2022	ND	1.97	98.4	2.00	6.84	
Ethylbenzene*	58.2	0.500	09/27/2022	ND	1.91	95.4	2.00	7.74	
Total Xylenes*	142	1.50	09/27/2022	ND	5.84	97.3	6.00	7.48	
Total BTEX	304	3.00	09/27/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 136 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6530	16.0	09/27/2022	ND	416	104	400	0.00	
TPH 8015M	mg/kg		Analyzed By: CK						S-06

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10*</b>	<b>3100</b>	50.0	09/27/2022	ND	205	102	200	3.34	
<b>DRO &gt;C10-C28*</b>	<b>17300</b>	50.0	09/27/2022	ND	216	108	200	5.32	
<b>EXT DRO &gt;C28-C36</b>	<b>1410</b>	50.0	09/27/2022	ND					

Surrogate: 1-Chlorooctane 478 % 45.3-161

Surrogate: 1-Chlorooctadecane 347 % 46.3-178

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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: 09/23/2022  
 Reported: 09/29/2022  
 Project Name: CHIEF 30 STATE #7H  
 Project Number: CIMAREX (CHIEF #7)  
 Project Location: LEA COUNTY, NM

Sampling Date: 09/23/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH - 7 20' (H224442-73)**

BTEx 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	5.04	0.500	09/27/2022	ND	2.03	102	2.00	7.53	
Toluene*	55.9	0.500	09/27/2022	ND	1.97	98.4	2.00	6.84	
Ethylbenzene*	42.6	0.500	09/27/2022	ND	1.91	95.4	2.00	7.74	
Total Xylenes*	107	1.50	09/27/2022	ND	5.84	97.3	6.00	7.48	
Total BTEX	211	3.00	09/27/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 142 % 69.9-140

Chloride, SM4500Cl-B			mg/kg					Analyzed By: GM	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>224</b>	16.0	09/27/2022	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: CK				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	2490	50.0	09/26/2022	ND	221	110	200	3.76	QM-07
DRO >C10-C28*	10500	50.0	09/26/2022	ND	200	100	200	0.768	QM-07
EXT DRO >C28-C36	1320	50.0	09/26/2022	ND					

Surrogate: 1-Chlorooctane 275 % 45.3-161

Surrogate: 1-Chlorooctadecane 514 % 46.3-178

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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: 09/23/2022  
 Reported: 09/29/2022  
 Project Name: CHIEF 30 STATE #7H  
 Project Number: CIMAREX (CHIEF #7)  
 Project Location: LEA COUNTY, NM

Sampling Date: 09/23/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH - 7 25' (H224442-74)**

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	09/26/2022	ND	2.03	102	2.00	7.53	
Toluene*	1.18	0.050	09/26/2022	ND	1.97	98.4	2.00	6.84	
Ethylbenzene*	1.36	0.050	09/26/2022	ND	1.91	95.4	2.00	7.74	
Total Xylenes*	3.85	0.150	09/26/2022	ND	5.84	97.3	6.00	7.48	
Total BTEX	6.39	0.300	09/26/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 125 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	496	16.0	09/27/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	87.4	10.0	09/26/2022	ND	221	110	200	3.76	
DRO >C10-C28*	1240	10.0	09/26/2022	ND	200	100	200	0.768	
EXT DRO >C28-C36	164	10.0	09/26/2022	ND					

Surrogate: 1-Chlorooctane 83.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 125 % 46.3-178

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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: 09/23/2022  
 Reported: 09/29/2022  
 Project Name: CHIEF 30 STATE #7H  
 Project Number: CIMAREX (CHIEF #7)  
 Project Location: LEA COUNTY, NM

Sampling Date: 09/23/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH - 7 30' (H224442-75)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.079	0.050	09/26/2022	ND	2.03	102	2.00	7.53	
Toluene*	1.17	0.050	09/26/2022	ND	1.97	98.4	2.00	6.84	
Ethylbenzene*	1.05	0.050	09/26/2022	ND	1.91	95.4	2.00	7.74	
Total Xylenes*	2.97	0.150	09/26/2022	ND	5.84	97.3	6.00	7.48	
Total BTEX	5.26	0.300	09/26/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 119 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	336	16.0	09/27/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	71.2	10.0	09/26/2022	ND	221	110	200	3.76	
DRO >C10-C28*	958	10.0	09/26/2022	ND	200	100	200	0.768	
EXT DRO >C28-C36	116	10.0	09/26/2022	ND					

Surrogate: 1-Chlorooctane 91.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 119 % 46.3-178

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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: 09/23/2022  
 Reported: 09/29/2022  
 Project Name: CHIEF 30 STATE #7H  
 Project Number: CIMAREX (CHIEF #7)  
 Project Location: LEA COUNTY, NM

Sampling Date: 09/23/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH - 7 35' (H224442-76)**

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	09/26/2022	ND	2.03	102	2.00	7.53	
Toluene*	0.287	0.050	09/26/2022	ND	1.97	98.4	2.00	6.84	
Ethylbenzene*	0.380	0.050	09/26/2022	ND	1.91	95.4	2.00	7.74	
Total Xylenes*	1.17	0.150	09/26/2022	ND	5.84	97.3	6.00	7.48	
Total BTEX	1.83	0.300	09/26/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	09/27/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	38.7	10.0	09/26/2022	ND	221	110	200	3.76	
DRO >C10-C28*	804	10.0	09/26/2022	ND	200	100	200	0.768	
EXT DRO >C28-C36	101	10.0	09/26/2022	ND					

Surrogate: 1-Chlorooctane 92.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 122 % 46.3-178

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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: 09/23/2022  
 Reported: 09/29/2022  
 Project Name: CHIEF 30 STATE #7H  
 Project Number: CIMAREX (CHIEF #7)  
 Project Location: LEA COUNTY, NM

Sampling Date: 09/23/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH - 7 40' (H224442-77)**

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	09/26/2022	ND	2.03	102	2.00	7.53	
Toluene*	0.426	0.050	09/26/2022	ND	1.97	98.4	2.00	6.84	
Ethylbenzene*	0.449	0.050	09/26/2022	ND	1.91	95.4	2.00	7.74	
Total Xylenes*	1.34	0.150	09/26/2022	ND	5.84	97.3	6.00	7.48	
Total BTEX	2.22	0.300	09/26/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	384	16.0	09/27/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	35.9	10.0	09/26/2022	ND	221	110	200	3.76	
DRO >C10-C28*	906	10.0	09/26/2022	ND	200	100	200	0.768	
EXT DRO >C28-C36	117	10.0	09/26/2022	ND					

Surrogate: 1-Chlorooctane 86.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 143 % 46.3-178

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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: 09/23/2022  
 Reported: 09/29/2022  
 Project Name: CHIEF 30 STATE #7H  
 Project Number: CIMAREX (CHIEF #7)  
 Project Location: LEA COUNTY, NM

Sampling Date: 09/23/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BG - 1 0-1' (H224442-78)**

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	09/27/2022	ND	1.88	94.2	2.00	9.74		
Toluene*	<0.050	0.050	09/27/2022	ND	1.83	91.4	2.00	9.07		
Ethylbenzene*	<0.050	0.050	09/27/2022	ND	1.76	88.1	2.00	10.2		
Total Xylenes*	<0.150	0.150	09/27/2022	ND	5.43	90.4	6.00	10.2		
Total BTEx	<0.300	0.300	09/27/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.2 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	09/27/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/26/2022	ND	221	110	200	3.76	
DRO >C10-C28*	<10.0	10.0	09/26/2022	ND	200	100	200	0.768	
EXT DRO >C28-C36	<10.0	10.0	09/26/2022	ND					

Surrogate: 1-Chlorooctane 79.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 89.0 % 46.3-178

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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: 09/23/2022  
 Reported: 09/29/2022  
 Project Name: CHIEF 30 STATE #7H  
 Project Number: CIMAREX (CHIEF #7)  
 Project Location: LEA COUNTY, NM

Sampling Date: 09/23/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BG - 2 0-1' (H224442-79)**

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	09/27/2022	ND	1.88	94.2	2.00	9.74		
Toluene*	<0.050	0.050	09/27/2022	ND	1.83	91.4	2.00	9.07		
Ethylbenzene*	<0.050	0.050	09/27/2022	ND	1.76	88.1	2.00	10.2		
Total Xylenes*	<0.150	0.150	09/27/2022	ND	5.43	90.4	6.00	10.2		
Total BTEx	<0.300	0.300	09/27/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.2 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	09/27/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/27/2022	ND	221	110	200	3.76	
DRO >C10-C28*	<10.0	10.0	09/27/2022	ND	200	100	200	0.768	
EXT DRO >C28-C36	<10.0	10.0	09/27/2022	ND					

Surrogate: 1-Chlorooctane 89.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 99.1 % 46.3-178

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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: 09/23/2022  
 Reported: 09/29/2022  
 Project Name: CHIEF 30 STATE #7H  
 Project Number: CIMAREX (CHIEF #7)  
 Project Location: LEA COUNTY, NM

Sampling Date: 09/23/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BG - 3 0-1' (H224442-80)**

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	09/27/2022	ND	1.88	94.2	2.00	9.74		
Toluene*	<0.050	0.050	09/27/2022	ND	1.83	91.4	2.00	9.07		
Ethylbenzene*	<0.050	0.050	09/27/2022	ND	1.76	88.1	2.00	10.2		
Total Xylenes*	<0.150	0.150	09/27/2022	ND	5.43	90.4	6.00	10.2		
Total BTEx	<0.300	0.300	09/27/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.9 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	09/27/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/27/2022	ND	221	110	200	3.76	
DRO >C10-C28*	<10.0	10.0	09/27/2022	ND	200	100	200	0.768	
EXT DRO >C28-C36	<10.0	10.0	09/27/2022	ND					

Surrogate: 1-Chlorooctane 85.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 95.7 % 46.3-178

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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: 09/23/2022  
 Reported: 09/29/2022  
 Project Name: CHIEF 30 STATE #7H  
 Project Number: CIMAREX (CHIEF #7)  
 Project Location: LEA COUNTY, NM

Sampling Date: 09/23/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BG - 4 0-1' (H224442-81)**

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	09/27/2022	ND	1.88	94.2	2.00	9.74		
Toluene*	<0.050	0.050	09/27/2022	ND	1.83	91.4	2.00	9.07		
Ethylbenzene*	<0.050	0.050	09/27/2022	ND	1.76	88.1	2.00	10.2		
Total Xylenes*	<0.150	0.150	09/27/2022	ND	5.43	90.4	6.00	10.2		
Total BTEx	<0.300	0.300	09/27/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.6 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	09/27/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/27/2022	ND	221	110	200	3.76	
DRO >C10-C28*	<10.0	10.0	09/27/2022	ND	200	100	200	0.768	
EXT DRO >C28-C36	<10.0	10.0	09/27/2022	ND					

Surrogate: 1-Chlorooctane 88.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 99.1 % 46.3-178

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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: 09/23/2022  
 Reported: 09/29/2022  
 Project Name: CHIEF 30 STATE #7H  
 Project Number: CIMAREX (CHIEF #7)  
 Project Location: LEA COUNTY, NM

Sampling Date: 09/23/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BG - 5 0-1' (H224442-82)**

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	09/27/2022	ND	1.88	94.2	2.00	9.74	
Toluene*	<0.050	0.050	09/27/2022	ND	1.83	91.4	2.00	9.07	
Ethylbenzene*	<0.050	0.050	09/27/2022	ND	1.76	88.1	2.00	10.2	
Total Xylenes*	<0.150	0.150	09/27/2022	ND	5.43	90.4	6.00	10.2	
Total BTX	<0.300	0.300	09/27/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.3 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	09/27/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/27/2022	ND	221	110	200	3.76	
DRO >C10-C28*	<10.0	10.0	09/27/2022	ND	200	100	200	0.768	
EXT DRO >C28-C36	<10.0	10.0	09/27/2022	ND					

Surrogate: 1-Chlorooctane 79.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 88.6 % 46.3-178

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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: 09/23/2022  
 Reported: 09/29/2022  
 Project Name: CHIEF 30 STATE #7H  
 Project Number: CIMAREX (CHIEF #7)  
 Project Location: LEA COUNTY, NM

Sampling Date: 09/23/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BG - 6 0-1' (H224442-83)**

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	09/27/2022	ND	1.88	94.2	2.00	9.74		
Toluene*	<0.050	0.050	09/27/2022	ND	1.83	91.4	2.00	9.07		
Ethylbenzene*	<0.050	0.050	09/27/2022	ND	1.76	88.1	2.00	10.2		
Total Xylenes*	<0.150	0.150	09/27/2022	ND	5.43	90.4	6.00	10.2		
Total BTX	<0.300	0.300	09/27/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.4 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	09/27/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/27/2022	ND	221	110	200	3.76	
DRO >C10-C28*	<10.0	10.0	09/27/2022	ND	200	100	200	0.768	
EXT DRO >C28-C36	<10.0	10.0	09/27/2022	ND					

Surrogate: 1-Chlorooctane 78.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 88.6 % 46.3-178

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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: 09/23/2022  
 Reported: 09/29/2022  
 Project Name: CHIEF 30 STATE #7H  
 Project Number: CIMAREX (CHIEF #7)  
 Project Location: LEA COUNTY, NM

Sampling Date: 09/23/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BG - 7 0-1' (H224442-84)**

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	09/27/2022	ND	1.88	94.2	2.00	9.74		
Toluene*	0.100	0.050	09/27/2022	ND	1.83	91.4	2.00	9.07		
Ethylbenzene*	<0.050	0.050	09/27/2022	ND	1.76	88.1	2.00	10.2		
Total Xylenes*	<0.150	0.150	09/27/2022	ND	5.43	90.4	6.00	10.2		
Total BTEx	<0.300	0.300	09/27/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.6 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	09/27/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/26/2022	ND	201	101	200	2.36	
DRO >C10-C28*	<10.0	10.0	09/26/2022	ND	209	105	200	3.62	
EXT DRO >C28-C36	<10.0	10.0	09/26/2022	ND					

Surrogate: 1-Chlorooctane 87.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 104 % 46.3-178

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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: 09/23/2022  
 Reported: 09/29/2022  
 Project Name: CHIEF 30 STATE #7H  
 Project Number: CIMAREX (CHIEF #7)  
 Project Location: LEA COUNTY, NM

Sampling Date: 09/23/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BG - 8 0-1' (H224442-85)**

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	09/27/2022	ND	1.88	94.2	2.00	9.74		
Toluene*	0.105	0.050	09/27/2022	ND	1.83	91.4	2.00	9.07		
Ethylbenzene*	<0.050	0.050	09/27/2022	ND	1.76	88.1	2.00	10.2		
Total Xylenes*	<0.150	0.150	09/27/2022	ND	5.43	90.4	6.00	10.2		
Total BTX	<0.300	0.300	09/27/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.6 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	09/27/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/26/2022	ND	201	101	200	2.36	
DRO >C10-C28*	<10.0	10.0	09/26/2022	ND	209	105	200	3.62	
EXT DRO >C28-C36	<10.0	10.0	09/26/2022	ND					

Surrogate: 1-Chlorooctane 100 % 45.3-161

Surrogate: 1-Chlorooctadecane 115 % 46.3-178

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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: 09/23/2022  
 Reported: 09/29/2022  
 Project Name: CHIEF 30 STATE #7H  
 Project Number: CIMAREX (CHIEF #7)  
 Project Location: LEA COUNTY, NM

Sampling Date: 09/23/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BG - 9 0-1' (H224442-86)**

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	09/27/2022	ND	1.88	94.2	2.00	9.74		
Toluene*	<0.050	0.050	09/27/2022	ND	1.83	91.4	2.00	9.07		
Ethylbenzene*	<0.050	0.050	09/27/2022	ND	1.76	88.1	2.00	10.2		
Total Xylenes*	<0.150	0.150	09/27/2022	ND	5.43	90.4	6.00	10.2		
Total BTEx	<0.300	0.300	09/27/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.3 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	09/27/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/26/2022	ND	201	101	200	2.36	
DRO >C10-C28*	<10.0	10.0	09/26/2022	ND	209	105	200	3.62	
EXT DRO >C28-C36	<10.0	10.0	09/26/2022	ND					

Surrogate: 1-Chlorooctane 84.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 96.8 % 46.3-178

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: 09/23/2022  
 Reported: 09/29/2022  
 Project Name: CHIEF 30 STATE #7H  
 Project Number: CIMAREX (CHIEF #7)  
 Project Location: LEA COUNTY, NM

Sampling Date: 09/23/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BG - 10 0-1' (H224442-87)**

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	09/28/2022	ND	1.88	94.2	2.00	9.74		
Toluene*	<0.050	0.050	09/28/2022	ND	1.83	91.4	2.00	9.07		
Ethylbenzene*	<0.050	0.050	09/28/2022	ND	1.76	88.1	2.00	10.2		
Total Xylenes*	<0.150	0.150	09/28/2022	ND	5.43	90.4	6.00	10.2		
Total BTX	<0.300	0.300	09/28/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.1 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	09/27/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/26/2022	ND	201	101	200	2.36	
DRO >C10-C28*	<10.0	10.0	09/26/2022	ND	209	105	200	3.62	
EXT DRO >C28-C36	<10.0	10.0	09/26/2022	ND					

Surrogate: 1-Chlorooctane 85.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 101 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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### Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
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", written in a cursive style.

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

<b>Company Name:</b> H&K Enterprises <b>Project Manager:</b> Michael Collier <b>Address:</b> <b>City:</b> <b>State:</b> <b>Zip:</b> <b>Phone #:</b> <b>Fax #:</b> <b>Project #:</b> <b>Project Owner:</b> Cimarex Energy <b>Project Name:</b> Chief 30 State #7H (Chief #7) <b>Project Location:</b> Lea County, NM <b>Sampler Name:</b> Roy Bell <b>Lab I.D.:</b>				<b>P.O. #:</b> <b>Company:</b> Cimarex Energy <b>Attn:</b> Laci Lujig <b>Address:</b> <b>City:</b> <b>State:</b> <b>Zip:</b> <b>Phone #:</b> <b>Fax #:</b>				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>																							
<b>Sample I.D.</b>												<b>(G) RAB OR (C) COMP.</b>				<b># CONTAINERS</b>																			
												GROUNDWATER				<b>MATRIX</b> <b>PRESERV.</b> <b>SAMPLING</b>																			
												WASTEWATER																							
												SOIL																							
												OIL																							
												SLUDGE																							
OTHER :												ACID/BASE:				ICE / COOL				OTHER :															
DATE												DATE				TIME																			
BH-1 2'												G				1				X				X				X							
BH-1 3'																																			
BH-1 4'																																			
BH-1 6'																																			
BH-1 8'																																			
BH-1 10'																																			
BH-1 15'																																			
BH-1 20'																																			
BH-1 25'																																			

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<b>Relinquished By:</b>		<b>Date:</b> 9-23-22		<b>Received By:</b>		<b>Date:</b> 9-23-22	
<b>Relinquished By:</b>		<b>Date:</b> 9-23-22		<b>Received By:</b>		<b>Date:</b> 9-23-22	
<b>Relinquished By:</b>		<b>Date:</b> 9-23-22		<b>Received By:</b>		<b>Date:</b> 9-23-22	

<b>Delivered By:</b> (Circle One) Sampler - UPS - Bus - Other:		<b>Observed Temp. °C</b> 5.3 <b>Corrected Temp. °C</b> 4.7		<b>Sample Condition</b> Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Cool Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<b>CHECKED BY:</b> (Initials)		<b>Turnaround Time:</b> Standard <input checked="" type="checkbox"/> Expedited <input type="checkbox"/>		<b>Thermometer ID</b> #113 <b>Correction Factor</b> -0.8°C		<b>Turnaround Time:</b> Standard <input checked="" type="checkbox"/> Expedited <input type="checkbox"/>		<b>Thermometer ID</b> #113 <b>Correction Factor</b> -0.8°C	
<b>REMARKS:</b> PAGE 1 of 8		<b>Verbal Result:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No		<b>Add'l Phone #:</b>		<b>REMARKS:</b> PAGE 1 of 8		<b>Verbal Result:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No		<b>Add'l Phone #:</b>		<b>REMARKS:</b> PAGE 1 of 8		<b>Verbal Result:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No	

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## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: H&R Enterprises		<b>BILL TO</b>		ANALYSIS REQUEST	
Project Manager: Michael Collier		P.O. #:			
Address:		Company: Cimarex Energy			
City:		State:		Zip:	
Phone #:		Fax #:		Attn: Laci Lulig	
Project #:		Project Owner: Cimarex Energy		Address:	
Project Name: Chief 30 State #7H (Chief #7)		City:		State:	
Project Location: Lea County, NM		Phone #:		Zip:	
Sampler Name: Roy Bell		Fax #:			
Lab I.D.		PRESERV.		SAMPLING	
Sample I.D.		(G)RAB OR (C)OMP. # CONTAINERS		MATRIX GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER :	
		DATE		TIME	
BH-2 0-1'		X		X	
BH-2 2'		X		X	
BH-2 3'		X		X	
BH-2 4'		X		X	
BH-2 6'		X		X	
BH-2 8'		X		X	
BH-2 10'		X		X	
BH-2 15'		X		X	
BH-2 20'		X		X	
BH-3 0-1'		X		X	

LAB USE ONLY: Labeled and designated sampling and activity records provided by any other entity within the project to be retained by the client for the employee. All claims including those for negligence and any other causes whatsoever shall be deemed waived unless made in writing and retained by the client within 30 days after the date of the incident. The client shall be responsible for the retention of records. The client shall be responsible for the retention of records. The client shall be responsible for the retention of records.

Relinquished By:		Received By:	
Date: 12-3-22		Date: 12-3-22	
Time: 1535		Time: 1535	
Refurnished By:		Received By:	
Date:		Date:	
Time:		Time:	

Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C: 53 Corrected Temp. °C: 4.7	Sample Condition Cool Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Sample Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY: (Initials) V.P.	Turnaround Time: <input type="checkbox"/> Standard <input checked="" type="checkbox"/> Expedited Observed Temp. °C:	Bacteria (only) Sample Condition: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #:					
REMARKS: PAGE 2 of 8					

All Results are emailed. Please provide Email address.

Thermometer ID #113  
 Correction Factor -0.1°C  
 Corrected Temp. °C:



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: H&R Enterprises		<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>									
Project Manager: Michael Collier		P.O. #:											
Address:		Company: Cimarex Energy											
City:		Attn: Luci Luig											
State:		Address:											
Fax #:		City:											
Project #:		Project Owner: Cimarex Energy											
Project Name: Chief 30 State #7H (Chief #7)		State:		Zip:									
Project Location: Lea County, NM		Phone #:											
Sample Name: Roy Bell		Fax #:											
FOR LAB USE ONLY		PRESERV.		SAMPLING									
Lab I.D.													
Sample I.D.													
H22442		(G)RAB OR (C)OMP.		# CONTAINERS									
21		G		1									
22		BH-3 2'											
23		BH-3 3'											
24		BH-3 4'											
25		BH-3 6'											
26		BH-3 8'											
27		BH-3 10'											
28		BH-3 15'											
29		BH-3 20'											
30		BH-3 25'											
31		BH-3 30'											
Relinquished By:		Date: 7-23-22		Received By:									
Relinquished By:		Time: 1535		Time:									
Delivered By: (Circle One)		Observed Temp. °C		Sample Condition									
Sampler - UPS - Bus - Other:		Corrected Temp. °C		Cool: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No									
		4.7		Ice: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No									
				No: <input type="checkbox"/> Yes <input type="checkbox"/> No									
				CHECKED BY: (Initials)									
				V.E.									
				Thermometer ID #113									
				Correction Factor -0.8°C									
				Standard									
				Cool: <input type="checkbox"/> Yes <input type="checkbox"/> No									
				Observed Temp. °C									
				Add'l Phone #:									
				REMARKS: PAGE 3 of 8									
				All Results are emailed. Please provide Email address:									

FORM-006 R 3.2 10/07/21

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Company Name: H&R Enterprises

[illegible]



## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240  
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[illegible]







CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: H&R Enterprises		<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>													
Project Manager: Michael Collier		P.O. #:															
Address:		Company: Cimarex Energy															
City:		Attn: Laci Luig															
State:		Address:															
Zip:		City:															
Phone #:		State:															
Fax #:		Zip:															
Project #:		Project Owner: Cimarex Energy															
Project Name: Chief 30 State #7H (Chief #7)		City:															
Project Location: Lea County, NM		State:															
Sampler Name: Roy Bell		Phone #:															
Fax #:																	
FOR LAB USE ONLY																	
Lab I.D.		PRESERV.		SAMPLING													
Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS													
GROUNDWATER		WASTEWATER		SOIL													
OIL		SLUDGE		OTHER :													
ACID/BASE:		ICE / COOL		OTHER :													
DATE		TIME		BTEX		TPH		Chlorides									
BH-6 25'		G		I		X		X		X							
BH-6 30'		X		X		X		X		X							
BH-6 35'		X		X		X		X		X							
BH-6 40'		X		X		X		X		X							
BH-7 0-1'		X		X		X		X		X							
BH-7 2'		X		X		X		X		X							
BH-7 3'		X		X		X		X		X							
BH-7 4'		X		X		X		X		X							
BH-7 6'		X		X		X		X		X							
BH-7 8'		X		X		X		X		X							
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Relinquished By:		Date: 9-23-22		Received By:		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:									
Relinquished By:		Time: 1535		Received By:		All Results are emailed. Please provide Email address:											
Time:		Date:		Time:		REMARK:											
Delivered By: (Circle One)		Observed Temp. °C		Sample Condition		CHECKED BY: (Initials)		Turnover Time:		Standard		Bacteria (only) Sample Condition					
Sampler - UPS - Bus - Other:		Corrected Temp. °C		Cool Intact <input checked="" type="checkbox"/> Intact <input type="checkbox"/>		Y.C.		Thermometer ID #113		Cool Intact <input type="checkbox"/> Observed Temp. °C							
		4.7		No <input type="checkbox"/> No <input type="checkbox"/>				Correction Factor 2.0°C		Yes <input type="checkbox"/> No <input type="checkbox"/>		Yes <input type="checkbox"/> No <input type="checkbox"/>		Corrected Temp. °C			

FORM-006 R 3.2 10/07/21

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Company Name: H&R Enterprises

Company Name: H&R Enterprises										BILL TO										ANALYSIS REQUEST									
Project Manager: Michael Collier										P.O. #:																			
Address:										Company: Cimarex Energy																			
City:										Attn: Laci Lulig																			
Phone #:										Address:																			
Fax #:										City:																			
Project #:										State:																			
Project Name: Chief 30 State #7H (Chief #7)										Phone #:																			
Project Location: Lea County, NM										Fax #:																			
Sampler Name: Roy Bell										MATRIX																			
Lab I.D.										PRESERV.										SAMPLING									
Sample I.D.										(G)RAB OR (C)OMP.																			
										# CONTAINERS																			
H22442										GROUNDWATER																			
										WASTEWATER																			
										SOIL																			
										OIL																			
										SLUDGE																			
										OTHER :																			
										ACID/BASE:																			
										ICE / COOL																			
										OTHER :																			
										DATE										TIME									
BH-7 10'										X										BTEX									
BH-7 15'										X										TPH									
BH-7 20'										X										Chlorides									
BH-7 25'																													
BH-7 30'																													
BH-7 35'																													
BH-7 40'																													
BG-1 0-1'																													
BG-2 0-1'																													
BG-3 0-1'																													
ALERT NOTE: Lulig and Collier certify that the information provided is true and correct to the best of their knowledge and belief. The undersigned hereby certifies that the information provided is true and correct to the best of their knowledge and belief. The undersigned hereby certifies that the information provided is true and correct to the best of their knowledge and belief.																													
Relinquished By: [Signature]										Date: 2-23-22										Received By: [Signature]									
Relinquished By: [Signature]										Date: 1-3-25										Received By: [Signature]									
Delivered By: (Circle One) Sampler - UPS - Bus - Other:										Observed Temp. °C: 53 Corrected Temp. °C: 47										Sample Condition Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/>									
CHECKED BY: [Signature]										Thermometer ID #113 Correction Factor -0.5°C										Turnaround Time: Standard <input checked="" type="checkbox"/> Expedited <input type="checkbox"/> Bacterial (only) Sample Condition: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>									



Company Name: H&R Enterprises

**Sample I.D.**

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

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November 17, 2022

MICHAEL COLLIER

H & R ENTERPRISES

1010 GAMBLIN ROAD

HOBBS, NM 88240

RE: CHIEF 30 STATE #7H

Enclosed are the results of analyses for samples received by the laboratory on 11/15/22 15:05.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 11/15/2022  
 Reported: 11/17/2022  
 Project Name: CHIEF 30 STATE #7H  
 Project Number: CIMAREX (CHIEF #7H)  
 Project Location: LEA COUNTY, NM

Sampling Date: 11/15/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: S - 1 16' (H225399-01)**

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	11/16/2022	ND	1.96	98.2	2.00	3.25	
Toluene*	<0.050	0.050	11/16/2022	ND	2.11	106	2.00	2.96	
Ethylbenzene*	<0.050	0.050	11/16/2022	ND	1.95	97.6	2.00	1.96	
Total Xylenes*	<0.150	0.150	11/16/2022	ND	5.87	97.8	6.00	2.38	
Total BTX	<0.300	0.300	11/16/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	11/16/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/16/2022	ND	209	105	200	1.12	
DRO >C10-C28*	<10.0	10.0	11/16/2022	ND	207	103	200	4.16	
EXT DRO >C28-C36	<10.0	10.0	11/16/2022	ND					

Surrogate: 1-Chlorooctane 73.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 83.0 % 46.3-178

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: 11/15/2022  
 Reported: 11/17/2022  
 Project Name: CHIEF 30 STATE #7H  
 Project Number: CIMAREX (CHIEF #7H)  
 Project Location: LEA COUNTY, NM

Sampling Date: 11/15/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: S - 2 16' (H225399-02)**

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	11/16/2022	ND	1.96	98.2	2.00	3.25		
Toluene*	<0.050	0.050	11/16/2022	ND	2.11	106	2.00	2.96		
Ethylbenzene*	<0.050	0.050	11/16/2022	ND	1.95	97.6	2.00	1.96		
Total Xylenes*	<0.150	0.150	11/16/2022	ND	5.87	97.8	6.00	2.38		
Total BTEX	<0.300	0.300	11/16/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	11/16/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/16/2022	ND	209	105	200	1.12	
DRO >C10-C28*	<10.0	10.0	11/16/2022	ND	207	103	200	4.16	
EXT DRO >C28-C36	<10.0	10.0	11/16/2022	ND					

Surrogate: 1-Chlorooctane 96.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 105 % 46.3-178

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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: 11/15/2022  
 Reported: 11/17/2022  
 Project Name: CHIEF 30 STATE #7H  
 Project Number: CIMAREX (CHIEF #7H)  
 Project Location: LEA COUNTY, NM

Sampling Date: 11/15/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: S - 3 16' (H225399-03)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/16/2022	ND	1.96	98.2	2.00	3.25	
Toluene*	<0.050	0.050	11/16/2022	ND	2.11	106	2.00	2.96	
Ethylbenzene*	<0.050	0.050	11/16/2022	ND	1.95	97.6	2.00	1.96	
Total Xylenes*	<0.150	0.150	11/16/2022	ND	5.87	97.8	6.00	2.38	
Total BTX	<0.300	0.300	11/16/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	11/16/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/16/2022	ND	209	105	200	1.12	
DRO >C10-C28*	10.6	10.0	11/16/2022	ND	207	103	200	4.16	
EXT DRO >C28-C36	<10.0	10.0	11/16/2022	ND					

Surrogate: 1-Chlorooctane 93.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 101 % 46.3-178

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 11/15/2022  
 Reported: 11/17/2022  
 Project Name: CHIEF 30 STATE #7H  
 Project Number: CIMAREX (CHIEF #7H)  
 Project Location: LEA COUNTY, NM

Sampling Date: 11/15/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: S - 4 16' (H225399-04)**

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	11/16/2022	ND	1.96	98.2	2.00	3.25		
Toluene*	<0.050	0.050	11/16/2022	ND	2.11	106	2.00	2.96		
Ethylbenzene*	<0.050	0.050	11/16/2022	ND	1.95	97.6	2.00	1.96		
Total Xylenes*	<0.150	0.150	11/16/2022	ND	5.87	97.8	6.00	2.38		
Total BTX	<0.300	0.300	11/16/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	11/16/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/16/2022	ND	209	105	200	1.12	
DRO >C10-C28*	<10.0	10.0	11/16/2022	ND	207	103	200	4.16	
EXT DRO >C28-C36	<10.0	10.0	11/16/2022	ND					

Surrogate: 1-Chlorooctane 88.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 96.1 % 46.3-178

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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: 11/15/2022  
 Reported: 11/17/2022  
 Project Name: CHIEF 30 STATE #7H  
 Project Number: CIMAREX (CHIEF #7H)  
 Project Location: LEA COUNTY, NM

Sampling Date: 11/15/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: S - 5 28' (H225399-05)**

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	11/16/2022	ND	1.96	98.2	2.00	3.25		
Toluene*	<0.050	0.050	11/16/2022	ND	2.11	106	2.00	2.96		
Ethylbenzene*	<0.050	0.050	11/16/2022	ND	1.95	97.6	2.00	1.96		
Total Xylenes*	<0.150	0.150	11/16/2022	ND	5.87	97.8	6.00	2.38		
Total BTEx	<0.300	0.300	11/16/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	11/16/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/16/2022	ND	209	105	200	1.12	
DRO >C10-C28*	<10.0	10.0	11/16/2022	ND	207	103	200	4.16	
EXT DRO >C28-C36	<10.0	10.0	11/16/2022	ND					

Surrogate: 1-Chlorooctane 98.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 110 % 46.3-178

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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: 11/15/2022  
 Reported: 11/17/2022  
 Project Name: CHIEF 30 STATE #7H  
 Project Number: CIMAREX (CHIEF #7H)  
 Project Location: LEA COUNTY, NM

Sampling Date: 11/15/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: S - 6 28' (H225399-06)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/16/2022	ND	1.96	98.2	2.00	3.25		
Toluene*	<0.050	0.050	11/16/2022	ND	2.11	106	2.00	2.96		
Ethylbenzene*	<0.050	0.050	11/16/2022	ND	1.95	97.6	2.00	1.96		
Total Xylenes*	<0.150	0.150	11/16/2022	ND	5.87	97.8	6.00	2.38		
Total BTEx	<0.300	0.300	11/16/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	11/16/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/16/2022	ND	209	105	200	1.12	
DRO >C10-C28*	<10.0	10.0	11/16/2022	ND	207	103	200	4.16	
EXT DRO >C28-C36	<10.0	10.0	11/16/2022	ND					

Surrogate: 1-Chlorooctane 85.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 99.1 % 46.3-178

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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: 11/15/2022  
 Reported: 11/17/2022  
 Project Name: CHIEF 30 STATE #7H  
 Project Number: CIMAREX (CHIEF #7H)  
 Project Location: LEA COUNTY, NM

Sampling Date: 11/15/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: S - 7 28' (H225399-07)**

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	11/16/2022	ND	1.96	98.2	2.00	3.25	
Toluene*	<0.050	0.050	11/16/2022	ND	2.11	106	2.00	2.96	
Ethylbenzene*	<0.050	0.050	11/16/2022	ND	1.95	97.6	2.00	1.96	
Total Xylenes*	<0.150	0.150	11/16/2022	ND	5.87	97.8	6.00	2.38	
Total BTEx	<0.300	0.300	11/16/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	11/16/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/16/2022	ND	235	118	200	13.7	
DRO >C10-C28*	<10.0	10.0	11/16/2022	ND	229	114	200	17.4	
EXT DRO >C28-C36	<10.0	10.0	11/16/2022	ND					

Surrogate: 1-Chlorooctane 94.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 100 % 46.3-178

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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: 11/15/2022  
 Reported: 11/17/2022  
 Project Name: CHIEF 30 STATE #7H  
 Project Number: CIMAREX (CHIEF #7H)  
 Project Location: LEA COUNTY, NM

Sampling Date: 11/15/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: S - 8 28' (H225399-08)**

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	11/16/2022	ND	1.96	98.2	2.00	3.25		
Toluene*	<0.050	0.050	11/16/2022	ND	2.11	106	2.00	2.96		
Ethylbenzene*	<0.050	0.050	11/16/2022	ND	1.95	97.6	2.00	1.96		
Total Xylenes*	<0.150	0.150	11/16/2022	ND	5.87	97.8	6.00	2.38		
Total BTEX	<0.300	0.300	11/16/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.7 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	11/16/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/16/2022	ND	235	118	200	13.7	
DRO >C10-C28*	<10.0	10.0	11/16/2022	ND	229	114	200	17.4	
EXT DRO >C28-C36	<10.0	10.0	11/16/2022	ND					

Surrogate: 1-Chlorooctane 92.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 101 % 46.3-178

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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: 11/15/2022  
 Reported: 11/17/2022  
 Project Name: CHIEF 30 STATE #7H  
 Project Number: CIMAREX (CHIEF #7H)  
 Project Location: LEA COUNTY, NM

Sampling Date: 11/15/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: S - 9 25' (H225399-09)**

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	11/16/2022	ND	1.96	98.2	2.00	3.25		
Toluene*	<0.050	0.050	11/16/2022	ND	2.11	106	2.00	2.96		
Ethylbenzene*	<0.050	0.050	11/16/2022	ND	1.95	97.6	2.00	1.96		
Total Xylenes*	<0.150	0.150	11/16/2022	ND	5.87	97.8	6.00	2.38		
Total BTEx	<0.300	0.300	11/16/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	11/16/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/16/2022	ND	235	118	200	13.7	
DRO >C10-C28*	32.4	10.0	11/16/2022	ND	229	114	200	17.4	
EXT DRO >C28-C36	<10.0	10.0	11/16/2022	ND					

Surrogate: 1-Chlorooctane 91.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 97.3 % 46.3-178

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: 11/15/2022  
 Reported: 11/17/2022  
 Project Name: CHIEF 30 STATE #7H  
 Project Number: CIMAREX (CHIEF #7H)  
 Project Location: LEA COUNTY, NM

Sampling Date: 11/15/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: S - 10 25' (H225399-10)**

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	11/16/2022	ND	1.96	98.2	2.00	3.25		
Toluene*	<0.050	0.050	11/16/2022	ND	2.11	106	2.00	2.96		
Ethylbenzene*	<0.050	0.050	11/16/2022	ND	1.95	97.6	2.00	1.96		
Total Xylenes*	<0.150	0.150	11/16/2022	ND	5.87	97.8	6.00	2.38		
Total BTEx	<0.300	0.300	11/16/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	11/16/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/16/2022	ND	235	118	200	13.7	
DRO >C10-C28*	26.4	10.0	11/16/2022	ND	229	114	200	17.4	
EXT DRO >C28-C36	<10.0	10.0	11/16/2022	ND					

Surrogate: 1-Chlorooctane 90.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 99.2 % 46.3-178

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: 11/15/2022  
 Reported: 11/17/2022  
 Project Name: CHIEF 30 STATE #7H  
 Project Number: CIMAREX (CHIEF #7H)  
 Project Location: LEA COUNTY, NM

Sampling Date: 11/15/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: S - 11 25' (H225399-11)**

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	11/16/2022	ND	1.96	98.2	2.00	3.25		
Toluene*	<0.050	0.050	11/16/2022	ND	2.11	106	2.00	2.96		
Ethylbenzene*	<0.050	0.050	11/16/2022	ND	1.95	97.6	2.00	1.96		
Total Xylenes*	<0.150	0.150	11/16/2022	ND	5.87	97.8	6.00	2.38		
Total BTEx	<0.300	0.300	11/16/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/16/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/16/2022	ND	235	118	200	13.7	
DRO >C10-C28*	<10.0	10.0	11/16/2022	ND	229	114	200	17.4	
EXT DRO >C28-C36	<10.0	10.0	11/16/2022	ND					

Surrogate: 1-Chlorooctane 91.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 98.9 % 46.3-178

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 11/15/2022  
 Reported: 11/17/2022  
 Project Name: CHIEF 30 STATE #7H  
 Project Number: CIMAREX (CHIEF #7H)  
 Project Location: LEA COUNTY, NM

Sampling Date: 11/15/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: S - 12 25' (H225399-12)**

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	11/16/2022	ND	1.96	98.2	2.00	3.25		
Toluene*	<0.050	0.050	11/16/2022	ND	2.11	106	2.00	2.96		
Ethylbenzene*	<0.050	0.050	11/16/2022	ND	1.95	97.6	2.00	1.96		
Total Xylenes*	<0.150	0.150	11/16/2022	ND	5.87	97.8	6.00	2.38		
Total BTEX	<0.300	0.300	11/16/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.6 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	11/16/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/17/2022	ND	235	118	200	13.7	
DRO >C10-C28*	<10.0	10.0	11/17/2022	ND	229	114	200	17.4	
EXT DRO >C28-C36	<10.0	10.0	11/17/2022	ND					

Surrogate: 1-Chlorooctane 94.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 102 % 46.3-178

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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: 11/15/2022  
 Reported: 11/17/2022  
 Project Name: CHIEF 30 STATE #7H  
 Project Number: CIMAREX (CHIEF #7H)  
 Project Location: LEA COUNTY, NM

Sampling Date: 11/15/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: S - 13 20' (H225399-13)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/16/2022	ND	1.96	98.2	2.00	3.25		
Toluene*	<0.050	0.050	11/16/2022	ND	2.11	106	2.00	2.96		
Ethylbenzene*	<0.050	0.050	11/16/2022	ND	1.95	97.6	2.00	1.96		
Total Xylenes*	<0.150	0.150	11/16/2022	ND	5.87	97.8	6.00	2.38		
Total BTEx	<0.300	0.300	11/16/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/16/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/17/2022	ND	235	118	200	13.7	
DRO >C10-C28*	<10.0	10.0	11/17/2022	ND	229	114	200	17.4	
EXT DRO >C28-C36	<10.0	10.0	11/17/2022	ND					

Surrogate: 1-Chlorooctane 90.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 97.5 % 46.3-178

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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: 11/15/2022  
 Reported: 11/17/2022  
 Project Name: CHIEF 30 STATE #7H  
 Project Number: CIMAREX (CHIEF #7H)  
 Project Location: LEA COUNTY, NM

Sampling Date: 11/15/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW - 1 16' (H225399-14)**

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	11/16/2022	ND	1.96	98.2	2.00	3.25	
Toluene*	<0.050	0.050	11/16/2022	ND	2.11	106	2.00	2.96	
Ethylbenzene*	<0.050	0.050	11/16/2022	ND	1.95	97.6	2.00	1.96	
Total Xylenes*	<0.150	0.150	11/16/2022	ND	5.87	97.8	6.00	2.38	
Total BTX	<0.300	0.300	11/16/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.9 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	11/16/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/17/2022	ND	235	118	200	13.7	
DRO >C10-C28*	<10.0	10.0	11/17/2022	ND	229	114	200	17.4	
EXT DRO >C28-C36	<10.0	10.0	11/17/2022	ND					

Surrogate: 1-Chlorooctane 92.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 97.2 % 46.3-178

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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: 11/15/2022  
 Reported: 11/17/2022  
 Project Name: CHIEF 30 STATE #7H  
 Project Number: CIMAREX (CHIEF #7H)  
 Project Location: LEA COUNTY, NM

Sampling Date: 11/15/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW - 2 16' (H225399-15)**

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	11/16/2022	ND	1.96	98.2	2.00	3.25		
Toluene*	<0.050	0.050	11/16/2022	ND	2.11	106	2.00	2.96		
Ethylbenzene*	<0.050	0.050	11/16/2022	ND	1.95	97.6	2.00	1.96		
Total Xylenes*	<0.150	0.150	11/16/2022	ND	5.87	97.8	6.00	2.38		
Total BTX	<0.300	0.300	11/16/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.0 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	11/16/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/17/2022	ND	235	118	200	13.7	
DRO >C10-C28*	<10.0	10.0	11/17/2022	ND	229	114	200	17.4	
EXT DRO >C28-C36	<10.0	10.0	11/17/2022	ND					

Surrogate: 1-Chlorooctane 84.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 90.3 % 46.3-178

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 11/15/2022  
 Reported: 11/17/2022  
 Project Name: CHIEF 30 STATE #7H  
 Project Number: CIMAREX (CHIEF #7H)  
 Project Location: LEA COUNTY, NM

Sampling Date: 11/15/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW - 3 16' (H225399-16)**

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	11/16/2022	ND	1.96	98.2	2.00	3.25		
Toluene*	<0.050	0.050	11/16/2022	ND	2.11	106	2.00	2.96		
Ethylbenzene*	<0.050	0.050	11/16/2022	ND	1.95	97.6	2.00	1.96		
Total Xylenes*	<0.150	0.150	11/16/2022	ND	5.87	97.8	6.00	2.38		
Total BTX	<0.300	0.300	11/16/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/16/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/16/2022	ND	194	97.0	200	10.1	
DRO >C10-C28*	<10.0	10.0	11/16/2022	ND	191	95.5	200	1.06	
EXT DRO >C28-C36	<10.0	10.0	11/16/2022	ND					

Surrogate: 1-Chlorooctane 88.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 99.1 % 46.3-178

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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: 11/15/2022  
 Reported: 11/17/2022  
 Project Name: CHIEF 30 STATE #7H  
 Project Number: CIMAREX (CHIEF #7H)  
 Project Location: LEA COUNTY, NM

Sampling Date: 11/15/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW - 4 16' (H225399-17)**

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	11/16/2022	ND	1.96	98.2	2.00	3.25		
Toluene*	<0.050	0.050	11/16/2022	ND	2.11	106	2.00	2.96		
Ethylbenzene*	<0.050	0.050	11/16/2022	ND	1.95	97.6	2.00	1.96		
Total Xylenes*	<0.150	0.150	11/16/2022	ND	5.87	97.8	6.00	2.38		
Total BTEx	<0.300	0.300	11/16/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.4 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/16/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/16/2022	ND	194	97.0	200	10.1	
DRO >C10-C28*	<10.0	10.0	11/16/2022	ND	191	95.5	200	1.06	
EXT DRO >C28-C36	<10.0	10.0	11/16/2022	ND					

Surrogate: 1-Chlorooctane 81.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 91.2 % 46.3-178

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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: 11/15/2022  
 Reported: 11/17/2022  
 Project Name: CHIEF 30 STATE #7H  
 Project Number: CIMAREX (CHIEF #7H)  
 Project Location: LEA COUNTY, NM

Sampling Date: 11/15/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW - 5 16' (H225399-18)**

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	11/16/2022	ND	1.96	98.2	2.00	3.25		
Toluene*	<0.050	0.050	11/16/2022	ND	2.11	106	2.00	2.96		
Ethylbenzene*	<0.050	0.050	11/16/2022	ND	1.95	97.6	2.00	1.96		
Total Xylenes*	<0.150	0.150	11/16/2022	ND	5.87	97.8	6.00	2.38		
Total BTEx	<0.300	0.300	11/16/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	11/16/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/16/2022	ND	194	97.0	200	10.1	
DRO >C10-C28*	<10.0	10.0	11/16/2022	ND	191	95.5	200	1.06	
EXT DRO >C28-C36	<10.0	10.0	11/16/2022	ND					

Surrogate: 1-Chlorooctane 86.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 95.1 % 46.3-178

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: 11/15/2022  
 Reported: 11/17/2022  
 Project Name: CHIEF 30 STATE #7H  
 Project Number: CIMAREX (CHIEF #7H)  
 Project Location: LEA COUNTY, NM

Sampling Date: 11/15/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW - 6 28' (H225399-19)**

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	11/16/2022	ND	1.96	98.2	2.00	3.25		
Toluene*	<0.050	0.050	11/16/2022	ND	2.11	106	2.00	2.96		
Ethylbenzene*	<0.050	0.050	11/16/2022	ND	1.95	97.6	2.00	1.96		
Total Xylenes*	<0.150	0.150	11/16/2022	ND	5.87	97.8	6.00	2.38		
Total BTEx	<0.300	0.300	11/16/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/16/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/16/2022	ND	194	97.0	200	10.1	
DRO >C10-C28*	<10.0	10.0	11/16/2022	ND	191	95.5	200	1.06	
EXT DRO >C28-C36	<10.0	10.0	11/16/2022	ND					

Surrogate: 1-Chlorooctane 91.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 99.9 % 46.3-178

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 11/15/2022  
 Reported: 11/17/2022  
 Project Name: CHIEF 30 STATE #7H  
 Project Number: CIMAREX (CHIEF #7H)  
 Project Location: LEA COUNTY, NM

Sampling Date: 11/15/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW - 7 28' (H225399-20)**

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	11/16/2022	ND	1.96	98.2	2.00	3.25	
Toluene*	<0.050	0.050	11/16/2022	ND	2.11	106	2.00	2.96	
Ethylbenzene*	<0.050	0.050	11/16/2022	ND	1.95	97.6	2.00	1.96	
Total Xylenes*	<0.150	0.150	11/16/2022	ND	5.87	97.8	6.00	2.38	
Total BTEx	<0.300	0.300	11/16/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	11/16/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/16/2022	ND	194	97.0	200	10.1	
DRO >C10-C28*	<10.0	10.0	11/16/2022	ND	191	95.5	200	1.06	
EXT DRO >C28-C36	<10.0	10.0	11/16/2022	ND					

Surrogate: 1-Chlorooctane 92.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 101 % 46.3-178

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 11/15/2022  
 Reported: 11/17/2022  
 Project Name: CHIEF 30 STATE #7H  
 Project Number: CIMAREX (CHIEF #7H)  
 Project Location: LEA COUNTY, NM

Sampling Date: 11/15/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW - 8 28' (H225399-21)**

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	11/17/2022	ND	1.88	94.2	2.00	2.80		
Toluene*	<0.050	0.050	11/17/2022	ND	2.09	105	2.00	2.57		
Ethylbenzene*	<0.050	0.050	11/17/2022	ND	1.94	96.9	2.00	0.570		
Total Xylenes*	<0.150	0.150	11/17/2022	ND	5.84	97.3	6.00	0.296		
Total BTEx	<0.300	0.300	11/17/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	11/16/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/16/2022	ND	194	97.0	200	10.1	
DRO >C10-C28*	<10.0	10.0	11/16/2022	ND	191	95.5	200	1.06	
EXT DRO >C28-C36	<10.0	10.0	11/16/2022	ND					

Surrogate: 1-Chlorooctane 91.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 100 % 46.3-178

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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: 11/15/2022  
 Reported: 11/17/2022  
 Project Name: CHIEF 30 STATE #7H  
 Project Number: CIMAREX (CHIEF #7H)  
 Project Location: LEA COUNTY, NM

Sampling Date: 11/15/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW - 9 28' (H225399-22)**

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	11/17/2022	ND	1.88	94.2	2.00	2.80	
Toluene*	<0.050	0.050	11/17/2022	ND	2.09	105	2.00	2.57	
Ethylbenzene*	<0.050	0.050	11/17/2022	ND	1.94	96.9	2.00	0.570	
Total Xylenes*	<0.150	0.150	11/17/2022	ND	5.84	97.3	6.00	0.296	
Total BTEx	<0.300	0.300	11/17/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	11/16/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/16/2022	ND	194	97.0	200	10.1	
DRO >C10-C28*	<10.0	10.0	11/16/2022	ND	191	95.5	200	1.06	
EXT DRO >C28-C36	<10.0	10.0	11/16/2022	ND					

Surrogate: 1-Chlorooctane 90.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 99.1 % 46.3-178

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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: 11/15/2022  
 Reported: 11/17/2022  
 Project Name: CHIEF 30 STATE #7H  
 Project Number: CIMAREX (CHIEF #7H)  
 Project Location: LEA COUNTY, NM

Sampling Date: 11/15/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW - 10 28' (H225399-23)**

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	11/17/2022	ND	1.88	94.2	2.00	2.80		
Toluene*	<0.050	0.050	11/17/2022	ND	2.09	105	2.00	2.57		
Ethylbenzene*	<0.050	0.050	11/17/2022	ND	1.94	96.9	2.00	0.570		
Total Xylenes*	<0.150	0.150	11/17/2022	ND	5.84	97.3	6.00	0.296		
Total BTEx	<0.300	0.300	11/17/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.1 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/16/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/16/2022	ND	194	97.0	200	10.1	
DRO >C10-C28*	<10.0	10.0	11/16/2022	ND	191	95.5	200	1.06	
EXT DRO >C28-C36	<10.0	10.0	11/16/2022	ND					

Surrogate: 1-Chlorooctane 89.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 99.6 % 46.3-178

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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: 11/15/2022  
 Reported: 11/17/2022  
 Project Name: CHIEF 30 STATE #7H  
 Project Number: CIMAREX (CHIEF #7H)  
 Project Location: LEA COUNTY, NM

Sampling Date: 11/15/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW - 11 25' (H225399-24)**

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	11/17/2022	ND	1.88	94.2	2.00	2.80		
Toluene*	<0.050	0.050	11/17/2022	ND	2.09	105	2.00	2.57		
Ethylbenzene*	<0.050	0.050	11/17/2022	ND	1.94	96.9	2.00	0.570		
Total Xylenes*	<0.150	0.150	11/17/2022	ND	5.84	97.3	6.00	0.296		
Total BTEx	<0.300	0.300	11/17/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.0 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	11/16/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/16/2022	ND	194	97.0	200	10.1	
DRO >C10-C28*	<10.0	10.0	11/16/2022	ND	191	95.5	200	1.06	
EXT DRO >C28-C36	<10.0	10.0	11/16/2022	ND					

Surrogate: 1-Chlorooctane 87.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 101 % 46.3-178

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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: 11/15/2022  
 Reported: 11/17/2022  
 Project Name: CHIEF 30 STATE #7H  
 Project Number: CIMAREX (CHIEF #7H)  
 Project Location: LEA COUNTY, NM

Sampling Date: 11/15/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW - 12 25' (H225399-25)**

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	11/17/2022	ND	1.88	94.2	2.00	2.80		
Toluene*	<0.050	0.050	11/17/2022	ND	2.09	105	2.00	2.57		
Ethylbenzene*	<0.050	0.050	11/17/2022	ND	1.94	96.9	2.00	0.570		
Total Xylenes*	<0.150	0.150	11/17/2022	ND	5.84	97.3	6.00	0.296		
Total BTEx	<0.300	0.300	11/17/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/16/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/16/2022	ND	194	97.0	200	10.1	
DRO >C10-C28*	<10.0	10.0	11/16/2022	ND	191	95.5	200	1.06	
EXT DRO >C28-C36	<10.0	10.0	11/16/2022	ND					

Surrogate: 1-Chlorooctane 105 % 45.3-161

Surrogate: 1-Chlorooctadecane 118 % 46.3-178

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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: 11/15/2022  
 Reported: 11/17/2022  
 Project Name: CHIEF 30 STATE #7H  
 Project Number: CIMAREX (CHIEF #7H)  
 Project Location: LEA COUNTY, NM

Sampling Date: 11/15/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW - 13 25' (H225399-26)**

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	11/17/2022	ND	1.88	94.2	2.00	2.80		
Toluene*	<0.050	0.050	11/17/2022	ND	2.09	105	2.00	2.57		
Ethylbenzene*	<0.050	0.050	11/17/2022	ND	1.94	96.9	2.00	0.570		
Total Xylenes*	<0.150	0.150	11/17/2022	ND	5.84	97.3	6.00	0.296		
Total BTEx	<0.300	0.300	11/17/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.2 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/16/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/16/2022	ND	194	97.0	200	10.1	
DRO >C10-C28*	<10.0	10.0	11/16/2022	ND	191	95.5	200	1.06	
EXT DRO >C28-C36	<10.0	10.0	11/16/2022	ND					

Surrogate: 1-Chlorooctane 81.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 90.0 % 46.3-178

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: 11/15/2022  
 Reported: 11/17/2022  
 Project Name: CHIEF 30 STATE #7H  
 Project Number: CIMAREX (CHIEF #7H)  
 Project Location: LEA COUNTY, NM

Sampling Date: 11/15/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW - 14 25' (H225399-27)**

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	11/17/2022	ND	1.88	94.2	2.00	2.80		
Toluene*	<0.050	0.050	11/17/2022	ND	2.09	105	2.00	2.57		
Ethylbenzene*	<0.050	0.050	11/17/2022	ND	1.94	96.9	2.00	0.570		
Total Xylenes*	<0.150	0.150	11/17/2022	ND	5.84	97.3	6.00	0.296		
Total BTEx	<0.300	0.300	11/17/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.0 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/16/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/16/2022	ND	194	97.0	200	10.1	
DRO >C10-C28*	<10.0	10.0	11/16/2022	ND	191	95.5	200	1.06	
EXT DRO >C28-C36	<10.0	10.0	11/16/2022	ND					

Surrogate: 1-Chlorooctane 90.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 100 % 46.3-178

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: 11/15/2022  
 Reported: 11/17/2022  
 Project Name: CHIEF 30 STATE #7H  
 Project Number: CIMAREX (CHIEF #7H)  
 Project Location: LEA COUNTY, NM

Sampling Date: 11/15/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW - 15 25' (H225399-28)**

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	11/17/2022	ND	1.88	94.2	2.00	2.80		
Toluene*	<0.050	0.050	11/17/2022	ND	2.09	105	2.00	2.57		
Ethylbenzene*	<0.050	0.050	11/17/2022	ND	1.94	96.9	2.00	0.570		
Total Xylenes*	<0.150	0.150	11/17/2022	ND	5.84	97.3	6.00	0.296		
Total BTEx	<0.300	0.300	11/17/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	46.0	16.0	11/16/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/16/2022	ND	194	97.0	200	10.1	
DRO >C10-C28*	<10.0	10.0	11/16/2022	ND	191	95.5	200	1.06	
EXT DRO >C28-C36	<10.0	10.0	11/16/2022	ND					

Surrogate: 1-Chlorooctane 91.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 100 % 46.3-178

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: 11/15/2022  
 Reported: 11/17/2022  
 Project Name: CHIEF 30 STATE #7H  
 Project Number: CIMAREX (CHIEF #7H)  
 Project Location: LEA COUNTY, NM

Sampling Date: 11/15/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW - 16 25' (H225399-29)**

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	11/17/2022	ND	1.88	94.2	2.00	2.80		
Toluene*	<0.050	0.050	11/17/2022	ND	2.09	105	2.00	2.57		
Ethylbenzene*	<0.050	0.050	11/17/2022	ND	1.94	96.9	2.00	0.570		
Total Xylenes*	<0.150	0.150	11/17/2022	ND	5.84	97.3	6.00	0.296		
Total BTEx	<0.300	0.300	11/17/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/16/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/16/2022	ND	194	97.0	200	10.1	
DRO >C10-C28*	<10.0	10.0	11/16/2022	ND	191	95.5	200	1.06	
EXT DRO >C28-C36	<10.0	10.0	11/16/2022	ND					

Surrogate: 1-Chlorooctane 46.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 54.3 % 46.3-178

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 11/15/2022  
 Reported: 11/17/2022  
 Project Name: CHIEF 30 STATE #7H  
 Project Number: CIMAREX (CHIEF #7H)  
 Project Location: LEA COUNTY, NM

Sampling Date: 11/15/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW - 17 25' (H225399-30)**

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	11/17/2022	ND	1.88	94.2	2.00	2.80		
Toluene*	<0.050	0.050	11/17/2022	ND	2.09	105	2.00	2.57		
Ethylbenzene*	<0.050	0.050	11/17/2022	ND	1.94	96.9	2.00	0.570		
Total Xylenes*	<0.150	0.150	11/17/2022	ND	5.84	97.3	6.00	0.296		
Total BTEx	<0.300	0.300	11/17/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	11/16/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/16/2022	ND	194	97.0	200	10.1	
DRO >C10-C28*	16.2	10.0	11/16/2022	ND	191	95.5	200	1.06	
EXT DRO >C28-C36	<10.0	10.0	11/16/2022	ND					

Surrogate: 1-Chlorooctane 62.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 71.5 % 46.3-178

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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: 11/15/2022  
 Reported: 11/17/2022  
 Project Name: CHIEF 30 STATE #7H  
 Project Number: CIMAREX (CHIEF #7H)  
 Project Location: LEA COUNTY, NM

Sampling Date: 11/15/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW - 18 25' (H225399-31)**

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	11/17/2022	ND	1.88	94.2	2.00	2.80		
Toluene*	<0.050	0.050	11/17/2022	ND	2.09	105	2.00	2.57		
Ethylbenzene*	<0.050	0.050	11/17/2022	ND	1.94	96.9	2.00	0.570		
Total Xylenes*	<0.150	0.150	11/17/2022	ND	5.84	97.3	6.00	0.296		
Total BTEx	<0.300	0.300	11/17/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.1 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/16/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/16/2022	ND	194	97.0	200	10.1	
DRO >C10-C28*	12.1	10.0	11/16/2022	ND	191	95.5	200	1.06	
EXT DRO >C28-C36	<10.0	10.0	11/16/2022	ND					

Surrogate: 1-Chlorooctane 53.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 62.7 % 46.3-178

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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: 11/15/2022  
 Reported: 11/17/2022  
 Project Name: CHIEF 30 STATE #7H  
 Project Number: CIMAREX (CHIEF #7H)  
 Project Location: LEA COUNTY, NM

Sampling Date: 11/15/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW - 19 25' (H225399-32)**

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	11/17/2022	ND	1.88	94.2	2.00	2.80		
Toluene*	<0.050	0.050	11/17/2022	ND	2.09	105	2.00	2.57		
Ethylbenzene*	<0.050	0.050	11/17/2022	ND	1.94	96.9	2.00	0.570		
Total Xylenes*	<0.150	0.150	11/17/2022	ND	5.84	97.3	6.00	0.296		
Total BTEx	<0.300	0.300	11/17/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.7 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/16/2022	ND	432	108	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	11/16/2022	ND	194	97.0	200	10.1	
DRO >C10-C28*	<10.0	10.0	11/16/2022	ND	191	95.5	200	1.06	
EXT DRO >C28-C36	<10.0	10.0	11/16/2022	ND					

Surrogate: 1-Chlorooctane 61.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 70.2 % 46.3-178

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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: 11/15/2022  
 Reported: 11/17/2022  
 Project Name: CHIEF 30 STATE #7H  
 Project Number: CIMAREX (CHIEF #7H)  
 Project Location: LEA COUNTY, NM

Sampling Date: 11/15/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW - 20 25' (H225399-33)**

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	11/17/2022	ND	1.88	94.2	2.00	2.80		
Toluene*	<0.050	0.050	11/17/2022	ND	2.09	105	2.00	2.57		
Ethylbenzene*	<0.050	0.050	11/17/2022	ND	1.94	96.9	2.00	0.570		
Total Xylenes*	<0.150	0.150	11/17/2022	ND	5.84	97.3	6.00	0.296		
Total BTEx	<0.300	0.300	11/17/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	11/16/2022	ND	432	108	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	11/16/2022	ND	194	97.0	200	10.1	
DRO >C10-C28*	14.2	10.0	11/16/2022	ND	191	95.5	200	1.06	
EXT DRO >C28-C36	<10.0	10.0	11/16/2022	ND					

Surrogate: 1-Chlorooctane 62.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 71.7 % 46.3-178

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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: 11/15/2022  
 Reported: 11/17/2022  
 Project Name: CHIEF 30 STATE #7H  
 Project Number: CIMAREX (CHIEF #7H)  
 Project Location: LEA COUNTY, NM

Sampling Date: 11/15/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW - 21 25' (H225399-34)**

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	11/17/2022	ND	1.88	94.2	2.00	2.80		
Toluene*	<0.050	0.050	11/17/2022	ND	2.09	105	2.00	2.57		
Ethylbenzene*	<0.050	0.050	11/17/2022	ND	1.94	96.9	2.00	0.570		
Total Xylenes*	<0.150	0.150	11/17/2022	ND	5.84	97.3	6.00	0.296		
Total BTEx	<0.300	0.300	11/17/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.6 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/16/2022	ND	432	108	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	11/16/2022	ND	194	97.0	200	10.1	
DRO >C10-C28*	<10.0	10.0	11/16/2022	ND	191	95.5	200	1.06	
EXT DRO >C28-C36	<10.0	10.0	11/16/2022	ND					

Surrogate: 1-Chlorooctane 68.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 77.4 % 46.3-178

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 11/15/2022  
 Reported: 11/17/2022  
 Project Name: CHIEF 30 STATE #7H  
 Project Number: CIMAREX (CHIEF #7H)  
 Project Location: LEA COUNTY, NM

Sampling Date: 11/15/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW - 22 25' (H225399-35)**

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	11/17/2022	ND	1.88	94.2	2.00	2.80		
Toluene*	<0.050	0.050	11/17/2022	ND	2.09	105	2.00	2.57		
Ethylbenzene*	<0.050	0.050	11/17/2022	ND	1.94	96.9	2.00	0.570		
Total Xylenes*	<0.150	0.150	11/17/2022	ND	5.84	97.3	6.00	0.296		
Total BTEx	<0.300	0.300	11/17/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	11/16/2022	ND	432	108	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	11/16/2022	ND	194	97.0	200	10.1	
DRO >C10-C28*	<10.0	10.0	11/16/2022	ND	191	95.5	200	1.06	
EXT DRO >C28-C36	<10.0	10.0	11/16/2022	ND					

Surrogate: 1-Chlorooctane 71.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 82.4 % 46.3-178

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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: 11/15/2022  
 Reported: 11/17/2022  
 Project Name: CHIEF 30 STATE #7H  
 Project Number: CIMAREX (CHIEF #7H)  
 Project Location: LEA COUNTY, NM

Sampling Date: 11/15/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW - 23 25' (H225399-36)**

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	11/17/2022	ND	1.88	94.2	2.00	2.80		
Toluene*	<0.050	0.050	11/17/2022	ND	2.09	105	2.00	2.57		
Ethylbenzene*	<0.050	0.050	11/17/2022	ND	1.94	96.9	2.00	0.570		
Total Xylenes*	<0.150	0.150	11/17/2022	ND	5.84	97.3	6.00	0.296		
Total BTEx	<0.300	0.300	11/17/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.6 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	11/16/2022	ND	432	108	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	11/16/2022	ND	221	110	200	11.9	
DRO >C10-C28*	<10.0	10.0	11/16/2022	ND	233	116	200	10.2	
EXT DRO >C28-C36	<10.0	10.0	11/16/2022	ND					

Surrogate: 1-Chlorooctane 72.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 79.8 % 46.3-178

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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: 11/15/2022  
 Reported: 11/17/2022  
 Project Name: CHIEF 30 STATE #7H  
 Project Number: CIMAREX (CHIEF #7H)  
 Project Location: LEA COUNTY, NM

Sampling Date: 11/15/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW - 24 25' (H225399-37)**

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	11/17/2022	ND	1.88	94.2	2.00	2.80		
Toluene*	<0.050	0.050	11/17/2022	ND	2.09	105	2.00	2.57		
Ethylbenzene*	<0.050	0.050	11/17/2022	ND	1.94	96.9	2.00	0.570		
Total Xylenes*	<0.150	0.150	11/17/2022	ND	5.84	97.3	6.00	0.296		
Total BTEx	<0.300	0.300	11/17/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.0 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/16/2022	ND	432	108	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	11/16/2022	ND	221	110	200	11.9	
DRO >C10-C28*	<10.0	10.0	11/16/2022	ND	233	116	200	10.2	
EXT DRO >C28-C36	<10.0	10.0	11/16/2022	ND					

Surrogate: 1-Chlorooctane 73.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 79.5 % 46.3-178

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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: 11/15/2022  
 Reported: 11/17/2022  
 Project Name: CHIEF 30 STATE #7H  
 Project Number: CIMAREX (CHIEF #7H)  
 Project Location: LEA COUNTY, NM

Sampling Date: 11/15/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW - 25 20' (H225399-38)**

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	11/17/2022	ND	1.88	94.2	2.00	2.80	
Toluene*	<0.050	0.050	11/17/2022	ND	2.09	105	2.00	2.57	
Ethylbenzene*	<0.050	0.050	11/17/2022	ND	1.94	96.9	2.00	0.570	
Total Xylenes*	<0.150	0.150	11/17/2022	ND	5.84	97.3	6.00	0.296	
Total BTEx	<0.300	0.300	11/17/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.4 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/16/2022	ND	432	108	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	11/16/2022	ND	221	110	200	11.9	
DRO >C10-C28*	15.5	10.0	11/16/2022	ND	233	116	200	10.2	
EXT DRO >C28-C36	<10.0	10.0	11/16/2022	ND					

Surrogate: 1-Chlorooctane 70.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 76.5 % 46.3-178

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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: 11/15/2022  
 Reported: 11/17/2022  
 Project Name: CHIEF 30 STATE #7H  
 Project Number: CIMAREX (CHIEF #7H)  
 Project Location: LEA COUNTY, NM

Sampling Date: 11/15/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW - 26 28' (H225399-39)**

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	11/17/2022	ND	1.88	94.2	2.00	2.80		
Toluene*	<0.050	0.050	11/17/2022	ND	2.09	105	2.00	2.57		
Ethylbenzene*	<0.050	0.050	11/17/2022	ND	1.94	96.9	2.00	0.570		
Total Xylenes*	<0.150	0.150	11/17/2022	ND	5.84	97.3	6.00	0.296		
Total BTEx	<0.300	0.300	11/17/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/16/2022	ND	432	108	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	11/16/2022	ND	221	110	200	11.9	
DRO >C10-C28*	<10.0	10.0	11/16/2022	ND	233	116	200	10.2	
EXT DRO >C28-C36	<10.0	10.0	11/16/2022	ND					

Surrogate: 1-Chlorooctane 74.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 77.1 % 46.3-178

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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: 11/15/2022  
 Reported: 11/17/2022  
 Project Name: CHIEF 30 STATE #7H  
 Project Number: CIMAREX (CHIEF #7H)  
 Project Location: LEA COUNTY, NM

Sampling Date: 11/15/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW - 27 28' (H225399-40)**

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	11/17/2022	ND	1.88	94.2	2.00	2.80	
Toluene*	<0.050	0.050	11/17/2022	ND	2.09	105	2.00	2.57	
Ethylbenzene*	<0.050	0.050	11/17/2022	ND	1.94	96.9	2.00	0.570	
Total Xylenes*	<0.150	0.150	11/17/2022	ND	5.84	97.3	6.00	0.296	
Total BTEx	<0.300	0.300	11/17/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/16/2022	ND	432	108	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	11/16/2022	ND	221	110	200	11.9	
DRO >C10-C28*	<10.0	10.0	11/16/2022	ND	233	116	200	10.2	
EXT DRO >C28-C36	<10.0	10.0	11/16/2022	ND					

Surrogate: 1-Chlorooctane 80.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 83.9 % 46.3-178

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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: 11/15/2022  
 Reported: 11/17/2022  
 Project Name: CHIEF 30 STATE #7H  
 Project Number: CIMAREX (CHIEF #7H)  
 Project Location: LEA COUNTY, NM

Sampling Date: 11/15/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW - 28 28' (H225399-41)**

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	11/16/2022	ND	1.81	90.7	2.00	14.4	
Toluene*	<0.050	0.050	11/16/2022	ND	1.92	96.1	2.00	12.7	
Ethylbenzene*	<0.050	0.050	11/16/2022	ND	1.89	94.6	2.00	10.8	
Total Xylenes*	<0.150	0.150	11/16/2022	ND	5.83	97.2	6.00	9.47	
Total BTX	<0.300	0.300	11/16/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.1 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/16/2022	ND	432	108	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	11/16/2022	ND	221	110	200	11.9	
DRO >C10-C28*	<10.0	10.0	11/16/2022	ND	233	116	200	10.2	
EXT DRO >C28-C36	<10.0	10.0	11/16/2022	ND					

Surrogate: 1-Chlorooctane 93.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 98.2 % 46.3-178

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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: 11/15/2022  
 Reported: 11/17/2022  
 Project Name: CHIEF 30 STATE #7H  
 Project Number: CIMAREX (CHIEF #7H)  
 Project Location: LEA COUNTY, NM

Sampling Date: 11/15/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW - 29 28' (H225399-42)**

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	11/16/2022	ND	1.81	90.7	2.00	14.4		
Toluene*	<0.050	0.050	11/16/2022	ND	1.92	96.1	2.00	12.7		
Ethylbenzene*	<0.050	0.050	11/16/2022	ND	1.89	94.6	2.00	10.8		
Total Xylenes*	<0.150	0.150	11/16/2022	ND	5.83	97.2	6.00	9.47		
Total BTEx	<0.300	0.300	11/16/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.5 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	11/16/2022	ND	432	108	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	11/16/2022	ND	221	110	200	11.9	
DRO >C10-C28*	<10.0	10.0	11/16/2022	ND	233	116	200	10.2	
EXT DRO >C28-C36	<10.0	10.0	11/16/2022	ND					

Surrogate: 1-Chlorooctane 79.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 82.1 % 46.3-178

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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: 11/15/2022  
 Reported: 11/17/2022  
 Project Name: CHIEF 30 STATE #7H  
 Project Number: CIMAREX (CHIEF #7H)  
 Project Location: LEA COUNTY, NM

Sampling Date: 11/15/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW - 30 28' (H225399-43)**

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	11/16/2022	ND	1.81	90.7	2.00	14.4	
Toluene*	<0.050	0.050	11/16/2022	ND	1.92	96.1	2.00	12.7	
Ethylbenzene*	<0.050	0.050	11/16/2022	ND	1.89	94.6	2.00	10.8	
Total Xylenes*	<0.150	0.150	11/16/2022	ND	5.83	97.2	6.00	9.47	
Total BTX	<0.300	0.300	11/16/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/16/2022	ND	432	108	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	11/16/2022	ND	221	110	200	11.9	
DRO >C10-C28*	<10.0	10.0	11/16/2022	ND	233	116	200	10.2	
EXT DRO >C28-C36	<10.0	10.0	11/16/2022	ND					

Surrogate: 1-Chlorooctane 72.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 75.7 % 46.3-178

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: 11/15/2022  
 Reported: 11/17/2022  
 Project Name: CHIEF 30 STATE #7H  
 Project Number: CIMAREX (CHIEF #7H)  
 Project Location: LEA COUNTY, NM

Sampling Date: 11/15/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW - 31 16' (H225399-44)**

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	11/16/2022	ND	1.81	90.7	2.00	14.4		
Toluene*	<0.050	0.050	11/16/2022	ND	1.92	96.1	2.00	12.7		
Ethylbenzene*	<0.050	0.050	11/16/2022	ND	1.89	94.6	2.00	10.8		
Total Xylenes*	<0.150	0.150	11/16/2022	ND	5.83	97.2	6.00	9.47		
Total BTEx	<0.300	0.300	11/16/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.9 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	11/16/2022	ND	432	108	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	11/16/2022	ND	221	110	200	11.9	
DRO >C10-C28*	<10.0	10.0	11/16/2022	ND	233	116	200	10.2	
EXT DRO >C28-C36	<10.0	10.0	11/16/2022	ND					

Surrogate: 1-Chlorooctane 70.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 74.5 % 46.3-178

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: 11/15/2022  
 Reported: 11/17/2022  
 Project Name: CHIEF 30 STATE #7H  
 Project Number: CIMAREX (CHIEF #7H)  
 Project Location: LEA COUNTY, NM

Sampling Date: 11/15/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW - 32 16' (H225399-45)**

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	11/16/2022	ND	1.81	90.7	2.00	14.4	
Toluene*	<0.050	0.050	11/16/2022	ND	1.92	96.1	2.00	12.7	
Ethylbenzene*	<0.050	0.050	11/16/2022	ND	1.89	94.6	2.00	10.8	
Total Xylenes*	<0.150	0.150	11/16/2022	ND	5.83	97.2	6.00	9.47	
Total BTX	<0.300	0.300	11/16/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.1 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/16/2022	ND	432	108	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	11/16/2022	ND	221	110	200	11.9	
DRO >C10-C28*	<10.0	10.0	11/16/2022	ND	233	116	200	10.2	
EXT DRO >C28-C36	<10.0	10.0	11/16/2022	ND					

Surrogate: 1-Chlorooctane 71.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 74.6 % 46.3-178

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 11/15/2022  
 Reported: 11/17/2022  
 Project Name: CHIEF 30 STATE #7H  
 Project Number: CIMAREX (CHIEF #7H)  
 Project Location: LEA COUNTY, NM

Sampling Date: 11/15/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW - 33 16' (H225399-46)**

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	11/16/2022	ND	1.81	90.7	2.00	14.4		
Toluene*	<0.050	0.050	11/16/2022	ND	1.92	96.1	2.00	12.7		
Ethylbenzene*	<0.050	0.050	11/16/2022	ND	1.89	94.6	2.00	10.8		
Total Xylenes*	<0.150	0.150	11/16/2022	ND	5.83	97.2	6.00	9.47		
Total BTEx	<0.300	0.300	11/16/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.5 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/16/2022	ND	432	108	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	11/17/2022	ND	221	110	200	11.9	
DRO >C10-C28*	<10.0	10.0	11/17/2022	ND	233	116	200	10.2	
EXT DRO >C28-C36	<10.0	10.0	11/17/2022	ND					

Surrogate: 1-Chlorooctane 72.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 76.1 % 46.3-178

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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: 11/15/2022  
 Reported: 11/17/2022  
 Project Name: CHIEF 30 STATE #7H  
 Project Number: CIMAREX (CHIEF #7H)  
 Project Location: LEA COUNTY, NM

Sampling Date: 11/15/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW - 34 16' (H225399-47)**

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	11/16/2022	ND	1.81	90.7	2.00	14.4		
Toluene*	<0.050	0.050	11/16/2022	ND	1.92	96.1	2.00	12.7		
Ethylbenzene*	<0.050	0.050	11/16/2022	ND	1.89	94.6	2.00	10.8		
Total Xylenes*	<0.150	0.150	11/16/2022	ND	5.83	97.2	6.00	9.47		
Total BTEx	<0.300	0.300	11/16/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.0 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	11/16/2022	ND	432	108	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	11/17/2022	ND	221	110	200	11.9	
DRO >C10-C28*	<10.0	10.0	11/17/2022	ND	233	116	200	10.2	
EXT DRO >C28-C36	<10.0	10.0	11/17/2022	ND					

Surrogate: 1-Chlorooctane 74.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 81.7 % 46.3-178

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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: 11/15/2022  
 Reported: 11/17/2022  
 Project Name: CHIEF 30 STATE #7H  
 Project Number: CIMAREX (CHIEF #7H)  
 Project Location: LEA COUNTY, NM

Sampling Date: 11/15/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW - 35 16' (H225399-48)**

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	11/16/2022	ND	1.81	90.7	2.00	14.4		
Toluene*	<0.050	0.050	11/16/2022	ND	1.92	96.1	2.00	12.7		
Ethylbenzene*	<0.050	0.050	11/16/2022	ND	1.89	94.6	2.00	10.8		
Total Xylenes*	<0.150	0.150	11/16/2022	ND	5.83	97.2	6.00	9.47		
Total BTEx	<0.300	0.300	11/16/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.5 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/16/2022	ND	432	108	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	11/17/2022	ND	221	110	200	11.9	
DRO >C10-C28*	<10.0	10.0	11/17/2022	ND	233	116	200	10.2	
EXT DRO >C28-C36	<10.0	10.0	11/17/2022	ND					

Surrogate: 1-Chlorooctane 79.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 86.7 % 46.3-178

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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: 11/15/2022  
 Reported: 11/17/2022  
 Project Name: CHIEF 30 STATE #7H  
 Project Number: CIMAREX (CHIEF #7H)  
 Project Location: LEA COUNTY, NM

Sampling Date: 11/15/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW - 36 16' (H225399-49)**

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	11/16/2022	ND	1.81	90.7	2.00	14.4	
Toluene*	<0.050	0.050	11/16/2022	ND	1.92	96.1	2.00	12.7	
Ethylbenzene*	<0.050	0.050	11/16/2022	ND	1.89	94.6	2.00	10.8	
Total Xylenes*	<0.150	0.150	11/16/2022	ND	5.83	97.2	6.00	9.47	
Total BTX	<0.300	0.300	11/16/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.6 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	11/16/2022	ND	432	108	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	11/17/2022	ND	221	110	200	11.9	
DRO >C10-C28*	<10.0	10.0	11/17/2022	ND	233	116	200	10.2	
EXT DRO >C28-C36	<10.0	10.0	11/17/2022	ND					

Surrogate: 1-Chlorooctane 77.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 84.9 % 46.3-178

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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: 11/15/2022  
 Reported: 11/17/2022  
 Project Name: CHIEF 30 STATE #7H  
 Project Number: CIMAREX (CHIEF #7H)  
 Project Location: LEA COUNTY, NM

Sampling Date: 11/15/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BG - 1 0-1' (H225399-50)**

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	11/16/2022	ND	1.81	90.7	2.00	14.4		
Toluene*	<0.050	0.050	11/16/2022	ND	1.92	96.1	2.00	12.7		
Ethylbenzene*	<0.050	0.050	11/16/2022	ND	1.89	94.6	2.00	10.8		
Total Xylenes*	<0.150	0.150	11/16/2022	ND	5.83	97.2	6.00	9.47		
Total BTEx	<0.300	0.300	11/16/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.8 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	11/16/2022	ND	432	108	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	11/17/2022	ND	221	110	200	11.9	
DRO >C10-C28*	<10.0	10.0	11/17/2022	ND	233	116	200	10.2	
EXT DRO >C28-C36	<10.0	10.0	11/17/2022	ND					

Surrogate: 1-Chlorooctane 73.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 77.1 % 46.3-178

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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: 11/15/2022  
 Reported: 11/17/2022  
 Project Name: CHIEF 30 STATE #7H  
 Project Number: CIMAREX (CHIEF #7H)  
 Project Location: LEA COUNTY, NM

Sampling Date: 11/15/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BG - 2 0-1' (H225399-51)**

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	11/16/2022	ND	1.81	90.7	2.00	14.4		
Toluene*	<0.050	0.050	11/16/2022	ND	1.92	96.1	2.00	12.7		
Ethylbenzene*	<0.050	0.050	11/16/2022	ND	1.89	94.6	2.00	10.8		
Total Xylenes*	<0.150	0.150	11/16/2022	ND	5.83	97.2	6.00	9.47		
Total BTEx	<0.300	0.300	11/16/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.8 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	11/16/2022	ND	432	108	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	11/17/2022	ND	221	110	200	11.9	
DRO >C10-C28*	<10.0	10.0	11/17/2022	ND	233	116	200	10.2	
EXT DRO >C28-C36	<10.0	10.0	11/17/2022	ND					

Surrogate: 1-Chlorooctane 70.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 73.4 % 46.3-178

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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: 11/15/2022  
 Reported: 11/17/2022  
 Project Name: CHIEF 30 STATE #7H  
 Project Number: CIMAREX (CHIEF #7H)  
 Project Location: LEA COUNTY, NM

Sampling Date: 11/15/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BG - 3 0-1' (H225399-52)**

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	11/16/2022	ND	1.81	90.7	2.00	14.4	
Toluene*	<0.050	0.050	11/16/2022	ND	1.92	96.1	2.00	12.7	
Ethylbenzene*	<0.050	0.050	11/16/2022	ND	1.89	94.6	2.00	10.8	
Total Xylenes*	<0.150	0.150	11/16/2022	ND	5.83	97.2	6.00	9.47	
Total BTX	<0.300	0.300	11/16/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.2 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	11/16/2022	ND	448	112	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	11/17/2022	ND	221	110	200	11.9	
DRO >C10-C28*	<10.0	10.0	11/17/2022	ND	233	116	200	10.2	
EXT DRO >C28-C36	<10.0	10.0	11/17/2022	ND					

Surrogate: 1-Chlorooctane 75.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 78.4 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 11/15/2022  
 Reported: 11/17/2022  
 Project Name: CHIEF 30 STATE #7H  
 Project Number: CIMAREX (CHIEF #7H)  
 Project Location: LEA COUNTY, NM

Sampling Date: 11/15/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BG - 4 0-1' (H225399-53)**

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	11/16/2022	ND	1.81	90.7	2.00	14.4		
Toluene*	<0.050	0.050	11/16/2022	ND	1.92	96.1	2.00	12.7		
Ethylbenzene*	<0.050	0.050	11/16/2022	ND	1.89	94.6	2.00	10.8		
Total Xylenes*	<0.150	0.150	11/16/2022	ND	5.83	97.2	6.00	9.47		
Total BTEx	<0.300	0.300	11/16/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.1 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/16/2022	ND	448	112	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	11/17/2022	ND	221	110	200	11.9	
DRO >C10-C28*	<10.0	10.0	11/17/2022	ND	233	116	200	10.2	
EXT DRO >C28-C36	<10.0	10.0	11/17/2022	ND					

Surrogate: 1-Chlorooctane 88.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 96.8 % 46.3-178

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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: 11/15/2022  
 Reported: 11/17/2022  
 Project Name: CHIEF 30 STATE #7H  
 Project Number: CIMAREX (CHIEF #7H)  
 Project Location: LEA COUNTY, NM

Sampling Date: 11/15/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BG - 5 0-1' (H225399-54)**

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	11/16/2022	ND	1.81	90.7	2.00	14.4		
Toluene*	<0.050	0.050	11/16/2022	ND	1.92	96.1	2.00	12.7		
Ethylbenzene*	<0.050	0.050	11/16/2022	ND	1.89	94.6	2.00	10.8		
Total Xylenes*	<0.150	0.150	11/16/2022	ND	5.83	97.2	6.00	9.47		
Total BTEx	<0.300	0.300	11/16/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.2 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/16/2022	ND	448	112	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	11/17/2022	ND	221	110	200	11.9	
DRO >C10-C28*	<10.0	10.0	11/17/2022	ND	233	116	200	10.2	
EXT DRO >C28-C36	<10.0	10.0	11/17/2022	ND					

Surrogate: 1-Chlorooctane 70.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 72.7 % 46.3-178

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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: 11/15/2022  
 Reported: 11/17/2022  
 Project Name: CHIEF 30 STATE #7H  
 Project Number: CIMAREX (CHIEF #7H)  
 Project Location: LEA COUNTY, NM

Sampling Date: 11/15/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BG - 6 0-1' (H225399-55)**

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	11/16/2022	ND	1.81	90.7	2.00	14.4		
Toluene*	<0.050	0.050	11/16/2022	ND	1.92	96.1	2.00	12.7		
Ethylbenzene*	<0.050	0.050	11/16/2022	ND	1.89	94.6	2.00	10.8		
Total Xylenes*	<0.150	0.150	11/16/2022	ND	5.83	97.2	6.00	9.47		
Total BTEx	<0.300	0.300	11/16/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/16/2022	ND	448	112	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	11/17/2022	ND	221	110	200	11.9	
DRO >C10-C28*	<10.0	10.0	11/17/2022	ND	233	116	200	10.2	
EXT DRO >C28-C36	<10.0	10.0	11/17/2022	ND					

Surrogate: 1-Chlorooctane 91.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 99.5 % 46.3-178

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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



pg 1 of 5

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





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

### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

pg 2 of 5

Company Name: Project Manager: Address: City: State: Zip: Phone #: Fax #: Project #: Project Name: Project Location: Sampler Name: FOR LAB USE ONLY										P.O. #: Company: Attn: Address: City: State: Zip: Phone #: Fax #:										<b>BILL TO</b>										<b>ANALYSIS REQUEST</b>																			
Lab I.D. Sample I.D. 11/15/22										(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER :										MATRIX PRESERV. SAMPLING										DATE TIME										BTEX TPH Chlorides									
11/15/22 12 13 14 15 16 17 18 19 20										25' 25' 20' 16' 5W-2 5W-3 5W-4 5W-5 5W-6 28' 28'										11/15/22 11/15/22 11/15/22 11/15/22 11/15/22 11/15/22 11/15/22 11/15/22 11/15/22 11/15/22										11/15/22 11/15/22 11/15/22 11/15/22 11/15/22 11/15/22 11/15/22 11/15/22 11/15/22										11/15/22 11/15/22 11/15/22 11/15/22 11/15/22 11/15/22 11/15/22 11/15/22 11/15/22									
Relinquished By: Date: 11-15-22 Time: 1:05 Received By: Date: Time:										Verbal Result: All Results are emailed. Please provide Email address:										REMARKS: Turnaround Time: Standard Rush Bacteria (only) Cool Intact Corrected Temp. °C										Add'l Phone #: Sample Condition Observed Temp. °C																			





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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

pg 3065

[illegible]





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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

pg 4 of 5

Company Name:		P.O. #:		ANALYSIS REQUEST	
Project Manager:		Company:			
Address:		Attn:			
City:		Address:			
Phone #:		City:			
Fax #:		State:			
Project #:		Zip:			
Project Name:		Phone #:			
Project Location:		Fax #:			
Sampler Name:		FOR LAB USE ONLY			
Lab I.D.		Sample I.D.			
31 32 33 34 35 36 37 38 39 40		5W-18 25' 5W-19 5W-20 5W-21 5W-22 5W-23 5W-24 5W-25 20' 5W-26 28' 5W-27 28'			
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Relinquished By:		# CONTAINERS			
Date: 1/15/22		GROUNDWATER			
Time: 13:05		WASTEWATER			
Received By:		SOIL			
Date: 1/15/22		OIL			
Time: 13:05		SLUDGE			
Received By:		OTHER:			
Date: 1/15/22		ACID/BASE:			
Time: 13:05		ICE / COOL			
Received By:		OTHER:			
Date: 1/15/22		DATE			
Time: 13:05		TIME			
Received By:		BTEX			
Date: 1/15/22		TPH			
Time: 13:05		Chlorides			
Received By:					
Date: 1/15/22					
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101 East Marland, Hobbs, NM 88240  
(575) 393-2326 FAX (575) 393-2476

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

129 50 x 5

<b>Company Name:</b>				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>			
<b>Project Manager:</b>				<b>P.O. #:</b>							
<b>Address:</b>				<b>Company:</b>							
<b>City:</b>				<b>Attn:</b>							
<b>State:</b>				<b>Address:</b>							
<b>Phone #:</b>				<b>City:</b>							
<b>Fax #:</b>				<b>State:</b>							
<b>Project #: /</b>				<b>Zip:</b>							
<b>Project Location:</b>				<b>Phone #:</b>							
<b>Sample Name:</b>				<b>Fax #:</b>							
<small>FOR LAB USE ONLY</small>											
<b>Lab I.D.</b>		<b>Sample I.D.</b>		<b>(G)RAB OR (C)OMP.</b>	<b># CONTAINERS</b>	<b>MATRIX</b>		<b>PRESERV</b>	<b>SAMPLING</b>		
				<b>GROUNDWATER</b>		<b>WASTEWATER</b>					
				<b>SOIL</b>		<b>OIL</b>					
				<b>SLUDGE</b>		<b>OTHER :</b>					
				<b>ACID/BASE:</b>		<b>ICE / COOL</b>		<b>DATE</b>	<b>TIME</b>		
				<b>OTHER :</b>							
#BOS399		SW-28 28'		C	1	X		11/5/02		X BTEX	
41		SW-29								X TPH	
42		SW-30								X Chlorides	
43		SW-31									
44		SW-32									
45		SW-33									
46		SW-34									
47		SW-35									
48		SW-36									
49											

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analysis. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable services. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client. Its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

<b>Relinquished By:</b>	<b>Date:</b> 11/5-22	<b>Received By:</b>	<b>Date:</b> 11/5-22
<b>Time:</b> 1:30 PM	<b>Signature:</b>	<b>Signature:</b>	<b>Signature:</b>
<b>Remarks:</b>			

<b>Delivered By:</b> (Circle One)	<b>Observed Temp. °C</b>	<b>Corrected Temp. °C</b>	<b>Sample Condition</b>	<b>CHECKED BY:</b> (Initials)	<b>Turnaround Time:</b>	<b>Standard</b>	<b>Add'l Phone #:</b>
Sampler - UPS - Bus - Other:	0.4	-0.2	Yes Intact No No	V-S	30 hr	Rush	3 Day
<b>Verbal Result:</b> Yes No Add'l Phone #: <b>All Results are emailed. Please provide Email address:</b>							





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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Pg 6 of 6

Company Name:		P.O. #:		BILL TO		ANALYSIS REQUEST	
Project Manager:		Company:					
Address:		Attn:					
City:		Address:					
State:		City:					
Zip:		State:					
Phone #:		Phone #:					
Fax #:		Fax #:					
Project #:		Project Owner:					
Project Name:		City:					
Project Location:		State:					
Sample Name:		Zip:					
FOR LAB USE ONLY		Matrix		PRESERV		SAMPLING	
Lab I.D.		Sample I.D.					
H225399		AG-1		0-1			
S1 AG-1		S1		1			
S2 AG-2		S2		1			
S3 AG-3		S3		1			
S4 AG-4		S4		1			
S5 AG-5		S5		1			
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**District I**  
1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-6161 Fax:(575) 393-0720  
**District II**  
811 S. First St., Artesia, NM 88210  
Phone:(575) 748-1283 Fax:(575) 748-9720  
**District III**  
1000 Rio Brazos Rd., Aztec, NM 87410  
Phone:(505) 334-6178 Fax:(505) 334-6170  
**District IV**  
1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS  
  
Action 180752

CONDITIONS

Operator: CIMAREX ENERGY CO. 600 N. Marienfeld Street Midland, TX 79701	OGRID: 215099
	Action Number: 180752
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Closure Report Approved. Going forward, please include the lat/long of the DTW boring for depth to water determination.	2/17/2023