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## Deferment Report

Crawford 27-26 Fee 1H  
Incident# nAPP2317446018  
Eddy County, New Mexico

### Prepared For:

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

### Prepared By:

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

December 1, 2023

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

Subject: **Deferment Report**  
Crawford 27-26 Fee 1H  
Eddy County, NM

Dear Mr. Bratcher,

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

### Site Information

The Crawford 27-26 Fee 1H is located approximately 13 miles South of Carlsbad, New Mexico. The legal location for this release is Unit Letter D, Section 27, Township 24 South and Range 26 East in Eddy County, New Mexico. More specifically the latitude and longitude for the release are 32.193517 North and -104.287730 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 Reagan-Upton association, 0 to 9 percent slopes. The referenced soil data is attached in [Appendix II](#). Drainage courses in this area are typically dry. The project site is located in a high Karst potential area (Karst Map, [Appendix I](#)).

### Groundwater and Site Characterization

The New Mexico Office of the State Engineer web site indicates that the nearest reported depth to groundwater is 30-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>30 Feet/BGS</b>
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<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Within 300 feet of any continuously flowing watercourse or any other significant watercourse
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Within 200 feet of any lakebed, sinkhole, or a playa lake
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Within 300 feet from an occupied permanent residence, school, hospital, institution, or church
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Within 500 feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Within 1000 feet of any freshwater well or spring
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Within incorporated municipal boundaries or within a defined municipal freshwater well field covered under a municipal ordinance adopted pursuant to Section 3-2703 NMSA 1978
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Within 300 feet of a wetland
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Within the area overlying a subsurface mine
<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Within an unstable area
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Within a 100-year floodplain

As this is a remediation in an area with a depth to groundwater of less than 50-feet BGS, the closure criteria for this site are as follows:

Table I			
Closure Criteria for Soils Impacted by a Release			
Minimum depth below any point within the horizontal boundary of the release to ground water less than 10,000 mg/l TDS	Constituent	Method*	Limit**
≤ 50 feet	Chloride **	EPA 300.0 or SM4500 CIB	600 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	100 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg

### Incident Description

On June 22, 2023, the lease operator discovered a buried flowline leaking. An estimated 5 barrels (bbls) was released along the flowline right-of-way (ROW). Approximately 0.5 bbls of oil and 4.5 bbls of produced water were released. A total of 0 bbls were recovered.

## Remedial Activities

H&R mobilized personnel to begin remediation and confirmation sampling activities of the release area. Grab samples were obtained by way of test trenching the release area. Field chloride titrations were performed, and the results are presented in the following data table. Initial test trench sample locations are illustrated on the Site Assessment Map, [Appendix I](#). Before, during, and after photographs of the location are attached in [Appendix IV](#). Complete laboratory reports can be found in [Appendix V](#).

Table 1: Initial Test Trench Soil Samples Field Data

Sample ID	Date	Depth	Field Titrations (Cl)
TT-1	9/20/2023	0-1'	2254
		2'	7090
		3'	6770
		4'	6593
		6'	3757
		8'	2587
TT-2	9/20/2023	4'	7019
		8'	1843
		10'	4991
		12'	1121
TT-3	9/20/2023	4'	7019
		6'	5282
		10'	4254
		14'	921
TT = Test Trench			

Based on the results of our test trench field data and upon client authorization, excavation activities of the impacted area commenced. Composite confirmation samples were collected from the bottom and sidewalls of the excavation every 200-square foot and transported to Cardinal Laboratory for analysis to confirm that NMOCD closure criteria had been met, the results of which can be found in the following data table. The areas near confirmation sample points S-7 through S-9 were hydro-excavated to a total depth of 4-feet BGS, the maximum depth allowable as to not compromise the structural integrity of the pipeline riser (point of release) and potentially creating further contamination from a new release. The area near confirmation sample point S-6 was excavated to a total depth of 6-feet BGS, the maximum depth allowable due to a pipeline that runs North and South along the East side of the excavated area, as well as being unsafe for further excavation activity. Confirmation sample locations and excavation dimensions can be found on the Confirmation Sample Map #1 and #2 in [Appendix I](#). Complete laboratory reports are attached in [Appendix V](#).

Table 2: Confirmation Soil Sample Analysis

Sample ID	Sample Date	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg
NMOCD Table 1 Closure Criteria 19.15.29 NMAC			50 mg/kg	10 mg/kg	100 mg/kg			100 mg/kg	600 mg/kg
S-1	10/31/2023	12'	ND	ND	ND	ND	ND	0	32
S-2	10/31/2023	12'	ND	ND	ND	ND	ND	0	16
S-3	10/31/2023	12'	ND	ND	ND	ND	ND	0	16
S-4	10/31/2023	14'	ND	ND	ND	ND	ND	0	32
S-5	10/31/2023	14'	ND	ND	ND	ND	ND	0	16
S-6	10/31/2023	6'	ND	ND	ND	ND	ND	0	32
S-7	10/31/2023	4'	ND	ND	ND	ND	ND	0	1440
S-8	10/31/2023	4'	ND	ND	ND	ND	ND	0	1380
S-9	10/31/2023	4'	ND	ND	ND	ND	ND	0	1100
S-10	10/31/2023	16'	ND	ND	ND	ND	ND	0	32
S-11	10/31/2023	16'	ND	ND	ND	ND	ND	0	16
SW-1	10/31/2023	12'	ND	ND	ND	ND	ND	0	16
SW-2	10/31/2023	12'	ND	ND	ND	ND	ND	0	32
SW-3	10/31/2023	12'	ND	ND	ND	ND	ND	0	32
SW-4	10/31/2023	12'	ND	ND	ND	ND	ND	0	32
SW-5	10/31/2023	12'	ND	ND	ND	ND	ND	0	32
SW-6	10/31/2023	12'	ND	ND	ND	ND	ND	0	16
SW-7	10/31/2023	12'	ND	ND	ND	ND	ND	0	32
SW-8	10/31/2023	12'	ND	ND	ND	ND	ND	0	16
SW-9	10/31/2023	12'	ND	ND	ND	ND	ND	0	32
SW-10	10/31/2023	12'	ND	ND	ND	ND	ND	0	16
SW-11	10/31/2023	12'	ND	ND	ND	ND	ND	0	32
SW-12	10/31/2023	14'	ND	ND	ND	ND	ND	0	32
SW-13	10/31/2023	14'	ND	ND	ND	ND	ND	0	16
SW-14	10/31/2023	14'	ND	ND	ND	ND	ND	0	32
SW-15	10/31/2023	14'	ND	ND	ND	ND	ND	0	16
SW-16	10/31/2023	14'	ND	ND	ND	ND	ND	0	32
SW-17	10/31/2023	14'	ND	ND	ND	ND	ND	0	32
SW-18	10/31/2023	14'	ND	ND	ND	ND	ND	0	32
SW-19	10/31/2023	14'	ND	ND	ND	ND	ND	0	32
SW-20	10/31/2023	14'	ND	ND	ND	ND	ND	0	32
SW-21	10/31/2023	14'	ND	ND	ND	ND	ND	0	32
SW-22	10/31/2023	6'	ND	ND	ND	ND	ND	0	32
SW-23	10/31/2023	6'	ND	ND	ND	ND	ND	0	32
SW-24	10/31/2023	6'	ND	ND	ND	ND	ND	0	288
SW-25	10/31/2023	4'	ND	ND	ND	ND	ND	0	144
SW-26	10/31/2023	4'	ND	ND	ND	ND	ND	0	176
SW-27	10/31/2023	4'	ND	ND	ND	ND	ND	0	208
SW-28	10/31/2023	4'	ND	ND	ND	ND	ND	0	240
SW-29	10/31/2023	16'	ND	ND	ND	ND	ND	0	288
SW-30	10/31/2023	16'	ND	ND	ND	ND	ND	0	272
SW-31	10/31/2023	16'	ND	ND	ND	ND	ND	0	224
SW-32	10/31/2023	16'	ND	ND	ND	ND	ND	0	256
SW-33	10/31/2023	16'	ND	ND	ND	ND	ND	0	240
SW-34	10/31/2023	16'	ND	ND	ND	ND	ND	0	208

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

## Remedial Actions

- The impacted areas near sample points S-1 through S-3 were excavated to a total depth of 12-feet BGS.
- The impacted areas near sample points S-4 and S-5 were excavated to a total depth of 14-feet BGS.
- The impacted area near sample point S-6 was excavated to a total depth of 6-feet BGS.
- The impacted areas near sample points S-7 through S-9 were excavated to a total depth of 4-feet BGS.
- The impacted areas near sample point S-10 and S-11 were excavated to a total depth of 16-feet BGS.
- Composite confirmation samples were obtained from the bottom and sidewalls of the excavated area, every 200-square foot and transported to Cardinal Laboratory for analysis to verify that all contaminants above closure criteria had been removed.
- All the excavated material (940yds) was hauled to Lea Land, a NMOCD approved solid waste disposal facility.
- The excavated area on the right-of-way were backfilled with clean, locally sourced topsoil at depth and brought to grade, machine compacted and contoured to match the surrounding location.
- The Final C-141 formally documenting the remedial actions is attached in [Appendix III](#).

### Deferment Area

The impacted areas near confirmation sample points S-6 through S-9, also outlined by confirmation sample points SW-24 through SW-29 will be deferred until the infrastructure is replaced or put out of service. See email communication from the area Superintendent stating the inability to excavate under the riser, represented by confirmation samples S-6 through S-9 as well as confirmation sidewall sample points SW-24 through SW-29, until infrastructure is replaced or put out of service, whichever comes first. See [Appendix III](#) for email communication. See Confirmation Sample Map #2 in [Appendix I](#).

### Closure

Based on the safety concerns and active infrastructure in place, on behalf of Cimarex Energy Co. we request the chloride impacted area around the pipeline riser infrastructure and buried pipeline be deferred until infrastructure is replaced or put out of service.

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

Respectfully submitted,

H&R Enterprises, LLC



Michael Collier  
Environmental Project Manager

Attachments:

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

# APPENDIX I

## SITE MAPS

## KARST MAP

## TOPOGRAPHIC MAP

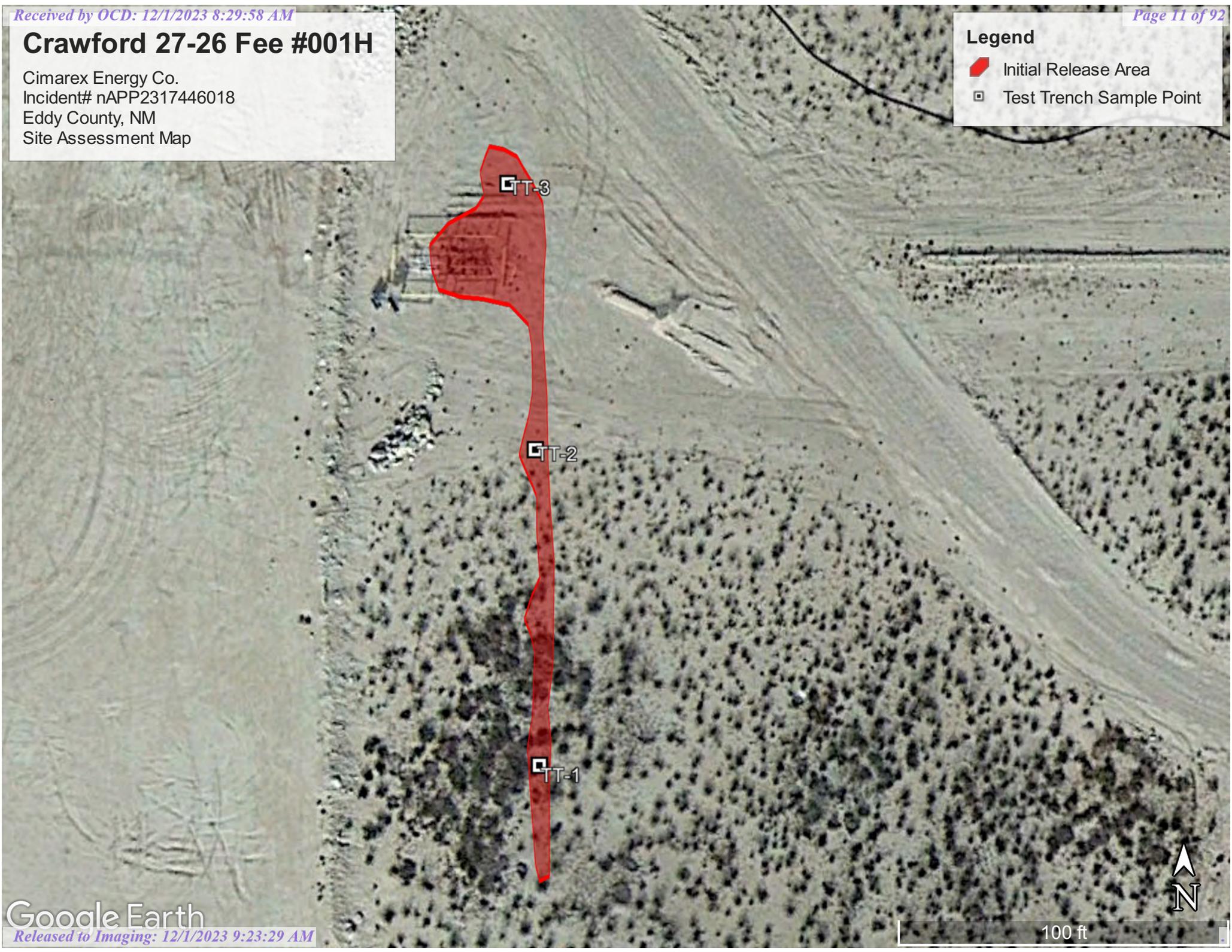
## LOCATOR MAP

# Crawford 27-26 Fee #001H

Cimarex Energy Co.  
Incident# nAPP2317446018  
Eddy County, NM  
Site Assessment Map

**Legend**

-  Initial Release Area
-  Test Trench Sample Point



100 ft

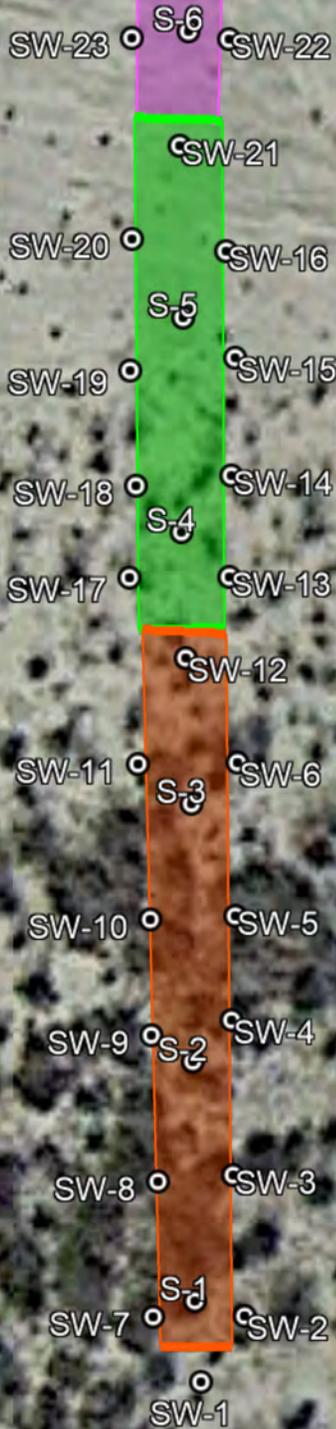


# Crawford 27-26 Fee #001H

Cimarex Energy Co.  
Incident# nAPP2317446018  
Eddy County, NM  
Confirmation Sample Map #1

**Legend**

-  12ft. Excavation
-  14ft. Excavation
-  6ft. Excavation
-  Composite Confirmation Sample

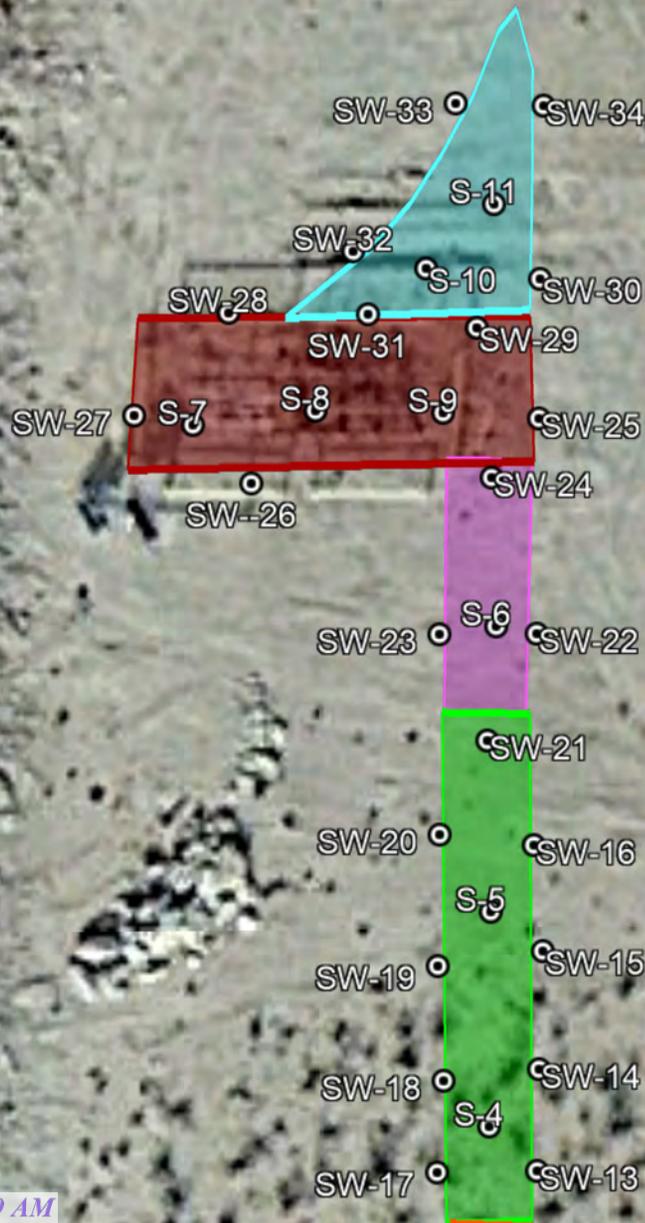


# Crawford 27-26 Fee #001H

Cimarex Energy Co.  
Incident# nAPP2317446018  
Eddy County, NM  
Confirmation Sample Map #2

**Legend**

-  14ft. Excavation
-  16ft. Excavation
-  4ft. Excavation
-  6ft. Excavation
-  Composite Confirmation Sample

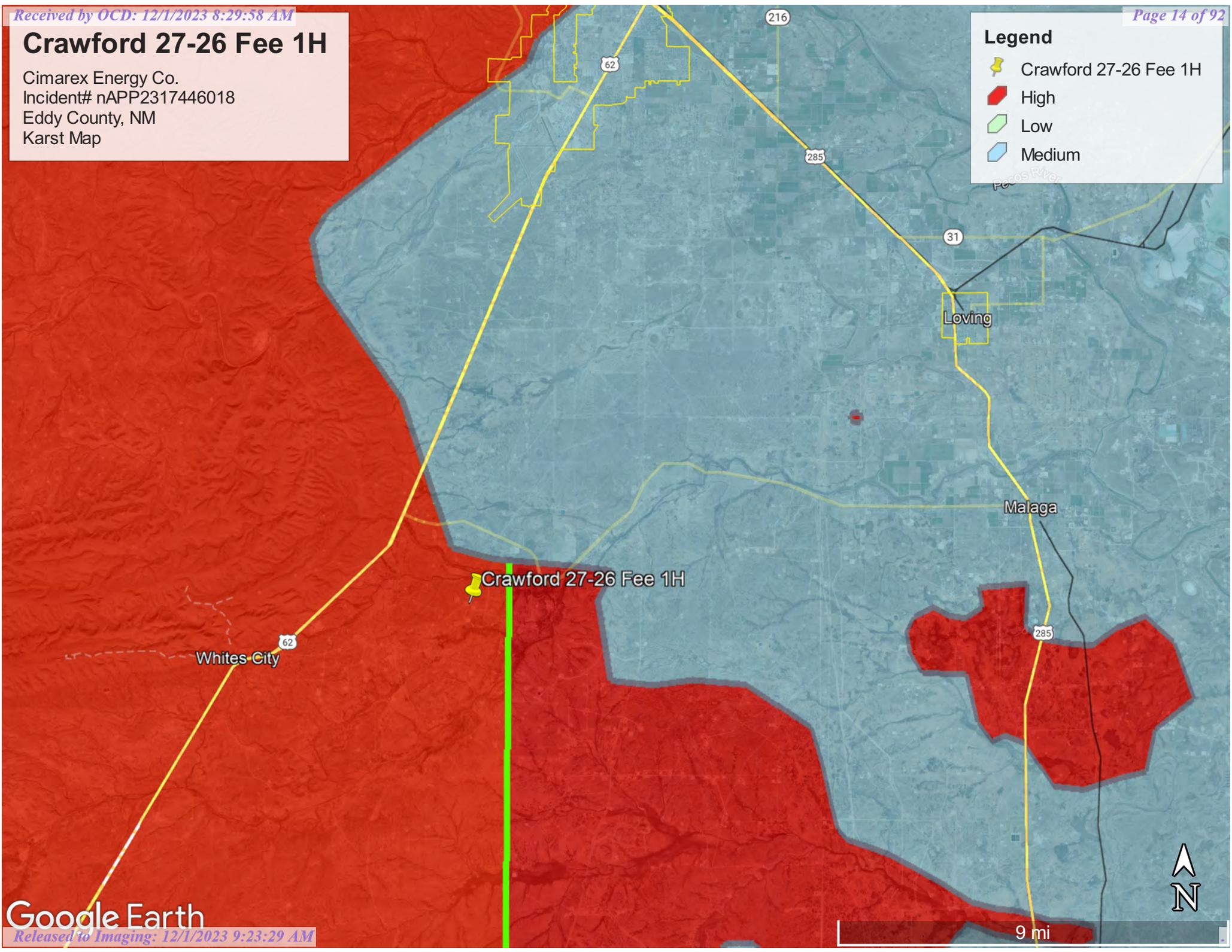


# Crawford 27-26 Fee 1H

Cimarex Energy Co.  
Incident# nAPP2317446018  
Eddy County, NM  
Karst Map

**Legend**

-  Crawford 27-26 Fee 1H
-  High
-  Low
-  Medium

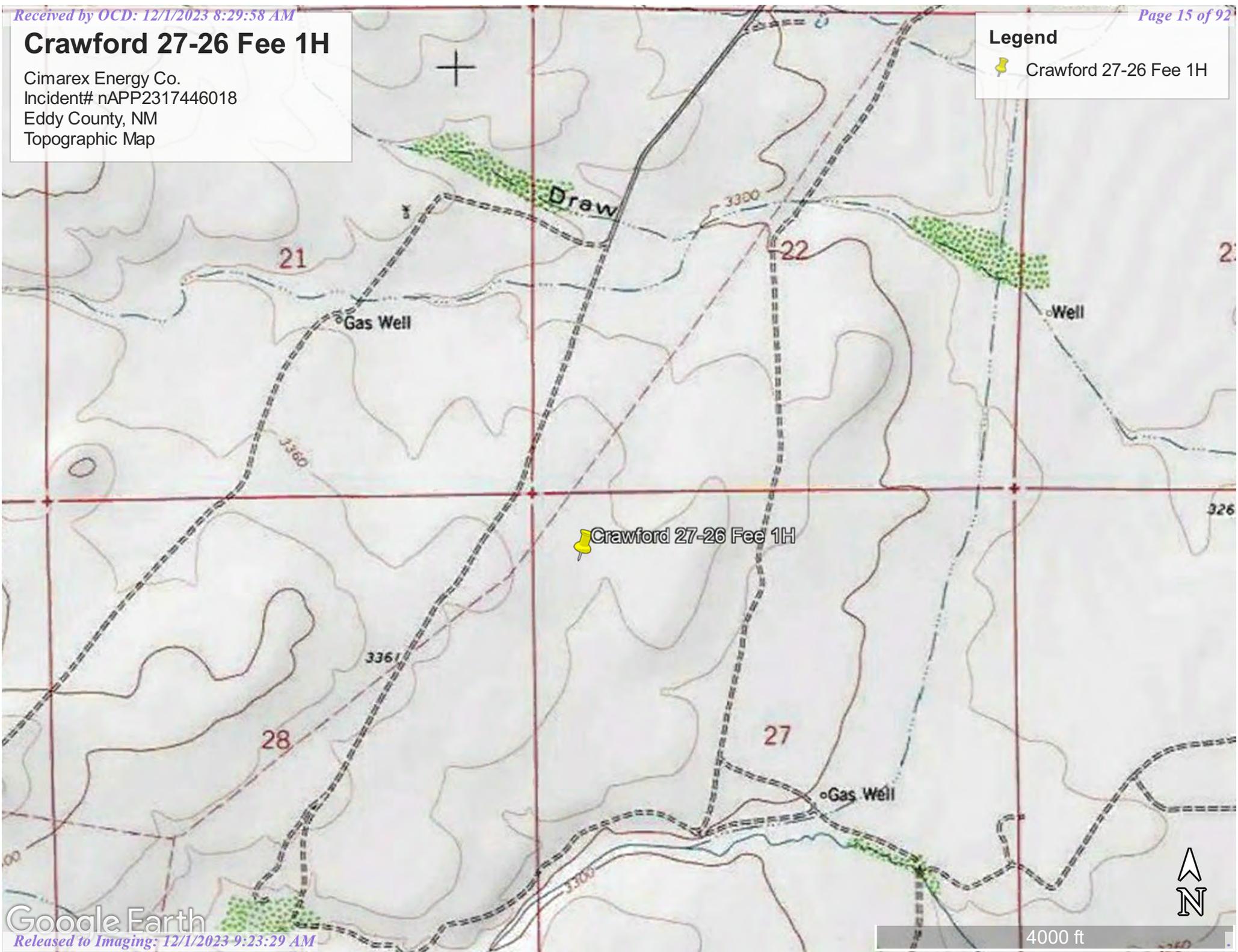


# Crawford 27-26 Fee 1H

Cimarex Energy Co.  
Incident# nAPP2317446018  
Eddy County, NM  
Topographic Map

**Legend**

-  Crawford 27-26 Fee 1H

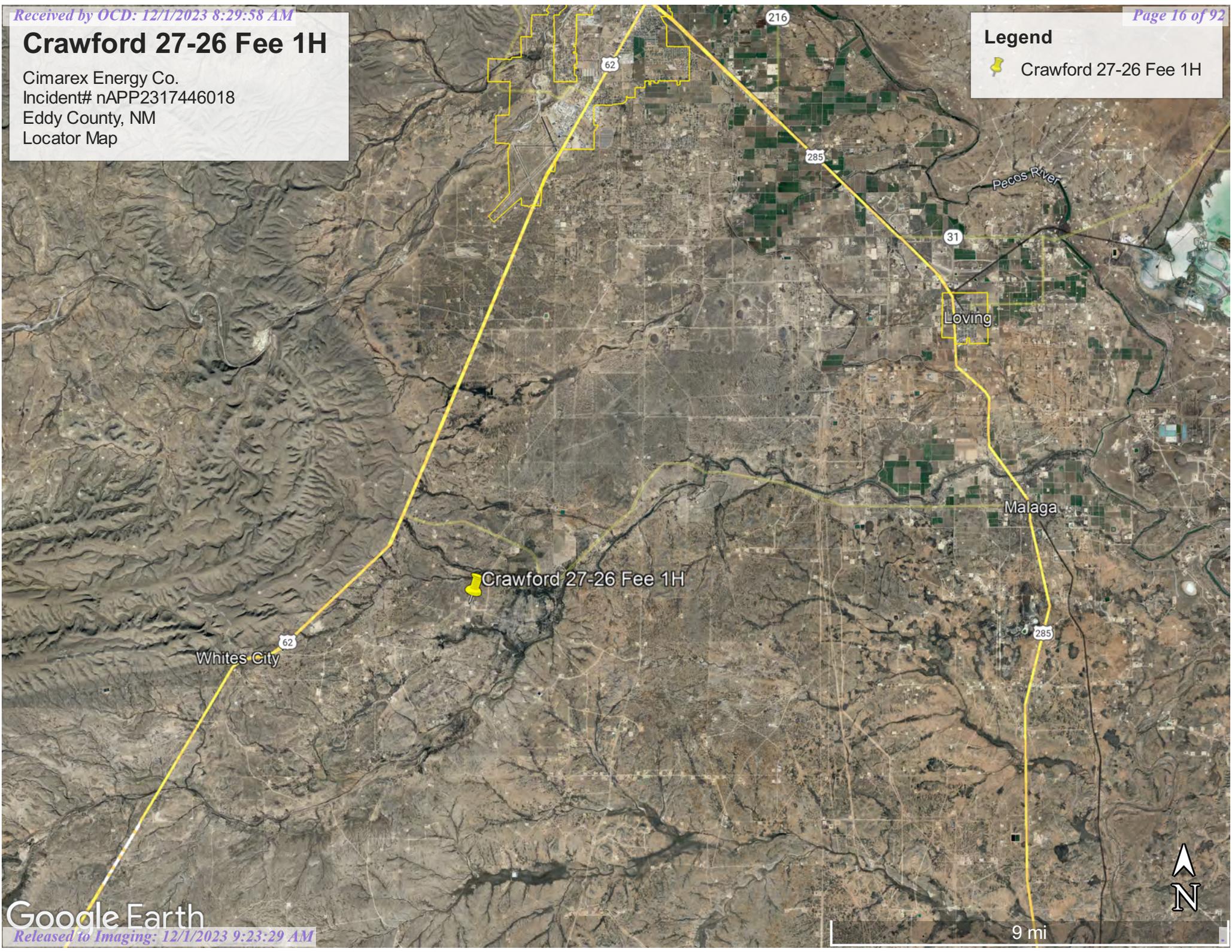


# Crawford 27-26 Fee 1H

Cimarex Energy Co.  
Incident# nAPP2317446018  
Eddy County, NM  
Locator Map

**Legend**

-  Crawford 27-26 Fee 1H



# APPENDIX II

## GROUNDWATER DATA

## SOIL SURVEY

## FEMA FLOOD ZONE



# New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

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

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

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

(quarters are smallest to largest) (NAD83 UTM in meters) (In feet)

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column	
<a href="#">C_00792</a>		C	ED	4	2	27	24S	26E	568397	3561747*	<input type="checkbox"/>	1291	70	30	40	
<a href="#">C_00928</a>		C	ED	1	1	23	24S	26E	568806	3563757*	<input type="checkbox"/>	2374	91	7	84	
<a href="#">C_04586 POD1</a>		C	ED	4	1	1	35	24S	26E	568993	3560476	<input type="checkbox"/>	2436	150		
<a href="#">C_00829</a>		C	ED	1	4	23	24S	26E	569591	3562957*	<input type="checkbox"/>	2605	50	19	31	
<a href="#">C_03110</a>		C	ED	4	1	4	23	24S	26E	569690	3562856*	<input type="checkbox"/>	2667	35	12	23
<a href="#">C_00369</a>	C	CUB	ED	2	1	23	24S	26E	569207	3563757*	<input type="checkbox"/>	2670				
<a href="#">C_01869</a>	R	C	ED	2	3	4	23	24S	26E	569753	3562679	<input type="checkbox"/>	2681	110	30	80
<a href="#">C_01869 POD2</a>		C	ED	2	3	4	23	24S	26E	569753	3562679	<input type="checkbox"/>	2681	111	50	61
<a href="#">C_03526 POD1</a>		C	ED	1	4	4	23	24S	26E	569788	3562666	<input type="checkbox"/>	2711	200		
<a href="#">C_00517</a>		C	ED	1	3	2	23	24S	26E	569498	3563456*	<input type="checkbox"/>	2736	80	31	49
<a href="#">C_00883</a>		C	ED	3	2	4	23	24S	26E	569887	3562855*	<input type="checkbox"/>	2855	60	14	46
<a href="#">C_03200 POD1</a>		C	ED	2	3	4	34	24S	26E	568206	3559349	<input type="checkbox"/>	2912	80	52	28
<a href="#">C_00755</a>		C	ED	4	1	15	24S	26E	567564	3564984*	<input type="checkbox"/>	2952	270			
<a href="#">C_01616</a>		C	ED	2	4	23	24S	26E	569988	3562956*	<input type="checkbox"/>	2981	84	84	0	

Average Depth to Water: **32 feet**  
 Minimum Depth: **7 feet**  
 Maximum Depth: **84 feet**

**Record Count:** 14

**Basin/County Search:**

**County:** Eddy

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

**Easting (X):** 567143.94

**Northing (Y):** 3562061.68

**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.

11/13/23 8:28 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER

Map Unit Description: Reagan-Upton association, 0 to 9 percent slopes---Eddy Area, New Mexico

## Eddy Area, New Mexico

### RE—Reagan-Upton association, 0 to 9 percent slopes

#### Map Unit Setting

*National map unit symbol:* 1w5d

*Elevation:* 1,100 to 5,400 feet

*Mean annual precipitation:* 6 to 14 inches

*Mean annual air temperature:* 60 to 64 degrees F

*Frost-free period:* 180 to 240 days

*Farmland classification:* Farmland of statewide importance

#### Map Unit Composition

*Reagan and similar soils:* 70 percent

*Upton and similar soils:* 25 percent

*Minor components:* 5 percent

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

#### Description of Reagan

##### Setting

*Landform:* Fan remnants, alluvial fans

*Landform position (three-dimensional):* Rise

*Down-slope shape:* Convex, linear

*Across-slope shape:* Linear

*Parent material:* Alluvium and/or eolian deposits

##### Typical profile

*H1 - 0 to 8 inches:* loam

*H2 - 8 to 60 inches:* loam

##### Properties and qualities

*Slope:* 0 to 3 percent

*Depth to restrictive feature:* More than 80 inches

*Drainage class:* Well drained

*Runoff class:* Low

*Capacity of the most limiting layer to transmit water*

*(Ksat):* Moderately high to high (0.60 to 2.00 in/hr)

*Depth to water table:* More than 80 inches

*Frequency of flooding:* None

*Frequency of ponding:* None

*Calcium carbonate, maximum content:* 40 percent

*Maximum salinity:* Very slightly saline to moderately saline (2.0 to 8.0 mmhos/cm)

*Sodium adsorption ratio, maximum:* 1.0

*Available water supply, 0 to 60 inches:* Moderate (about 8.2 inches)

##### Interpretive groups

*Land capability classification (irrigated):* 2e

*Land capability classification (nonirrigated):* 6e

Map Unit Description: Reagan-Upton association, 0 to 9 percent slopes---Eddy Area, New Mexico

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*Hydrologic Soil Group:* B  
*Ecological site:* R042CY153NM - Loamy  
*Hydric soil rating:* No

### Description of Upton

#### Setting

*Landform:* Ridges, fans  
*Landform position (three-dimensional):* Side slope, rise  
*Down-slope shape:* Convex  
*Across-slope shape:* Convex  
*Parent material:* Residuum weathered from limestone

#### Typical profile

*H1 - 0 to 9 inches:* gravelly loam  
*H2 - 9 to 13 inches:* gravelly loam  
*H3 - 13 to 21 inches:* cemented  
*H4 - 21 to 60 inches:* very gravelly loam

#### Properties and qualities

*Slope:* 0 to 9 percent  
*Depth to restrictive feature:* 7 to 20 inches to petrocalcic  
*Drainage class:* Well drained  
*Runoff class:* High  
*Capacity of the most limiting layer to transmit water (Ksat):* Low to moderately high (0.01 to 0.60 in/hr)  
*Depth to water table:* More than 80 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Calcium carbonate, maximum content:* 75 percent  
*Maximum salinity:* Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)  
*Sodium adsorption ratio, maximum:* 1.0  
*Available water supply, 0 to 60 inches:* Very low (about 1.4 inches)

#### Interpretive groups

*Land capability classification (irrigated):* None specified  
*Land capability classification (nonirrigated):* 7s  
*Hydrologic Soil Group:* D  
*Ecological site:* R042CY159NM - Shallow Loamy  
*Hydric soil rating:* No

### Minor Components

#### Atoka

*Percent of map unit:* 3 percent  
*Ecological site:* R070BC007NM - Loamy  
*Hydric soil rating:* No

#### Pima

*Percent of map unit:* 2 percent  
*Ecological site:* R070BC017NM - Bottomland

Map Unit Description: Reagan-Upton association, 0 to 9 percent slopes---Eddy Area, New Mexico

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*Hydric soil rating:* No

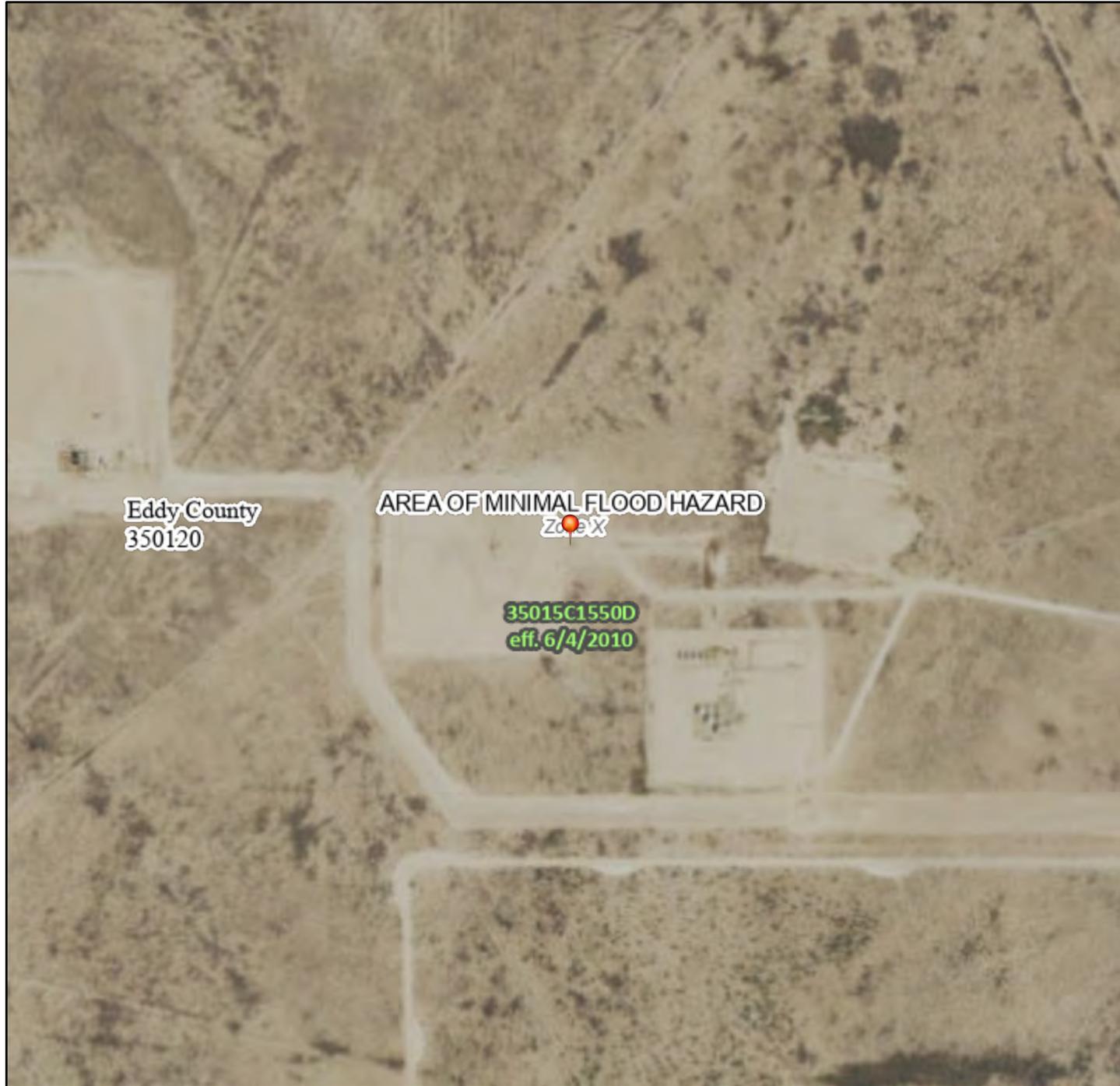
## Data Source Information

Soil Survey Area: Eddy Area, New Mexico  
Survey Area Data: Version 19, Sep 7, 2023

# National Flood Hazard Layer FIRMette



104°17'35"W 32°11'52"N



## Legend

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

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) <i>Zone A, V, A99</i>
		With BFE or Depth <i>Zone AE, AO, AH, VE, AR</i>
		Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile <i>Zone X</i>
		Future Conditions 1% Annual Chance Flood Hazard <i>Zone X</i>
		Area with Reduced Flood Risk due to Levee. See Notes. <i>Zone X</i>
		Area with Flood Risk due to Levee <i>Zone D</i>

OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard <i>Zone X</i>
		Effective LOMRs
		Area of Undetermined Flood Hazard <i>Zone D</i>
GENERAL STRUCTURES		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall

OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance
		17.5 Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
OTHER FEATURES		Coastal Transect Baseline
		Profile Baseline
		Hydrographic Feature

MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped

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

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on **11/13/2023 at 10:38 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**

**EMAIL COMMUNICATION**

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	nAPP2317446018
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) nAPP2317446018
Contact mailing address: 6001 Deauville Blvd., Suite 300N Midland, TX 79706	

### Location of Release Source

Latitude 32.193517 \_\_\_\_\_ Longitude -104.287730 \_\_\_\_\_  
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Crawford 27-26 Fee 1H	Site Type: Flowline ROW
Date Release Discovered: 6/22/2023	API# (if applicable) 30-015-44693

Unit Letter	Section	Township	Range	County
D	27	24S	26E	Eddy

Surface Owner:  State  Federal  Tribal  Private (Name: Bounds Family Trust \_\_\_\_\_)

### 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) 0.5	Volume Recovered (bbls) 0
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 4.5	Volume Recovered (bbls) 0
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input checked="" 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

The Lease Operator arrived on location and found the buried flowline leaking. An estimated 5 barrels fluid was released along the flowline ROW. The buried flowline is being hydrovac'd to identify the exact point-of-release and cause, along with impacted soils in the ROW. Any additional impact will be scheduled for remediation in the coming weeks. Spilled: 5 barrels (0.5 barrels oil + 4.5 barrels water) Recovered: 0 barrels

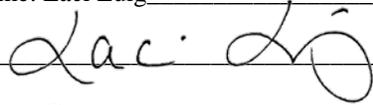
State of New Mexico  
Oil Conservation Division

Incident ID	nAPP2317446018
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?  <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? By: 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: 6/23/2023 _____ email: laci.luig@coterra.com _____ Telephone: (432) 208-3035 _____
<b><u>OCD Only</u></b> Received by: <u>Scott Rodgers</u> _____ Date: <u>12/01/2023</u> _____

Incident ID	nAPP2317446018
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?	_ 30 _ (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 checked="" type="checkbox"/> Yes <input 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.

Incident ID	nAPP2317446018
District RP	
Facility ID	
Application ID	

## Remediation Plan

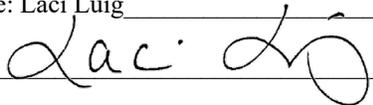
**Remediation Plan Checklist:** *Each of the following items must be included in the plan.*

- Detailed description of proposed remediation technique
- Scaled sitemap with GPS coordinates showing delineation points
- Estimated volume of material to be remediated
- Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

**Deferral Requests Only:** *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- Extents of contamination must be fully delineated.
- Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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

Printed Name: Laci Luig \_\_\_\_\_ Title: ESH Specialist \_\_\_\_\_  
 Signature:  \_\_\_\_\_ Date: 12/1/2023 \_\_\_\_\_  
 email: laci.luig@coterra.com \_\_\_\_\_ Telephone: (432) 208-3035 \_\_\_\_\_

**OCD Only**

Received by: Scott Rodgers Date: 12/01/2023

- Approved       Approved with Attached Conditions of Approval       Denied       Deferral Approved

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

**From:** [Wells, Shelly, EMNRD](#)  
**To:** [Laci Luig](#)  
**Cc:** [Michael Collier](#); [Hamlet, Robert, EMNRD](#); [Bratcher, Michael, EMNRD](#)  
**Subject:** RE: [EXTERNAL] nAPP2317446018 Crawford 27-26 Fee 1H sample notification  
**Date:** Thursday, October 26, 2023 2:35:08 PM

---

Good afternoon Laci,

The OCD has received your notification. 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.

Thank you,

**Shelly**

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

---

**From:** Laci Luig <[Laci.Luig@coterra.com](mailto:Laci.Luig@coterra.com)>  
**Sent:** Thursday, October 26, 2023 2:09 PM  
**To:** Enviro, OCD, EMNRD <[OCD.Enviro@emnrd.nm.gov](mailto:OCD.Enviro@emnrd.nm.gov)>  
**Cc:** Michael Collier <[mcollier@H-R-Enterprises.com](mailto:mcollier@H-R-Enterprises.com)>  
**Subject:** [EXTERNAL] nAPP2317446018 Crawford 27-26 Fee 1H sample notification

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

Good afternoon,

This email serves as notification for confirmation sampling on the Crawford 27-26 Fee 1H flowline. Sampling is scheduled to begin as early as Tuesday, October 31<sup>st</sup>, weather and soil conditions permitting. H&R Enterprises will be onsite to collect the confirmation samples.

Incident ID: [nAPP2317446018](#)  
Coordinates: [32.193517, -104.287730](#)

Thank you,



**Laci Luig** | Environmental, Health & Safety 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. | 6001 Deauville Blvd., Suite 300N | Midland, TX 79706

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

This message may contain confidential and/or privileged information. If you are not the addressee or authorized to receive this for the addressee, you must not use, copy, disclose or take any action based on this message or any information herein. If you have received this message in error, please advise the sender immediately by reply e-mail and delete this message.

## Ashton Thielke

---

**From:** Corey Cates  
**Sent:** Friday, October 6, 2023 10:11 AM  
**To:** Ashton Thielke  
**Cc:** Laci Luig  
**Subject:** RE: Crawford 27-26 Fee 1H (6.22.2023) - Spill Incident

Good morning EHS team,

After careful review with my team and engineers of this spill incident around the Crawford 27-26 Fee #001H riser, Coterra does **not** want a hydrovac to remove soil past 4' below the surface. Doing so would could potentially cause structurally instability and might result in additional releases in the future as backfill material can shift and settle overtime. My team and I will keep the ESH team aware if this riser is ever removed, at which time, a full site remediation can take place.

Thanks,

Corey Cates  
Production Superintendent  
Permian Northwest  
432-215-8105



---

**From:** Ashton Thielke <Ashton.Thielke@coterra.com>  
**Sent:** Friday, October 6, 2023 7:58 AM  
**To:** Corey Cates <Corey.Cates@coterra.com>  
**Cc:** Laci Luig <Laci.Luig@coterra.com>  
**Subject:** Crawford 27-26 Fee 1H (6.22.2023) - Spill Incident

Good morning Corey,

I just wanted to follow up with you following our onsite meeting with you and your team discussing the Crawford 27-26 Fee #001H Riser.

The big safety concern was the point of release around the riser and the best path moving forward with addressing the soil under the riser.  
The plan for now is to get a hand crew and hydrovac to remove as much impact around the riser, doing our best to not affect the riser integrity.

Please let me know how to proceed.

Thanks!



**Ashton Thielke** | PBU - Environmental Consultant

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

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

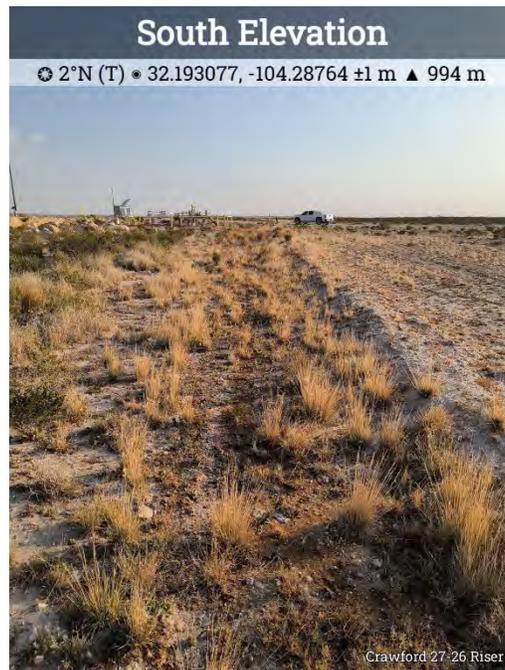
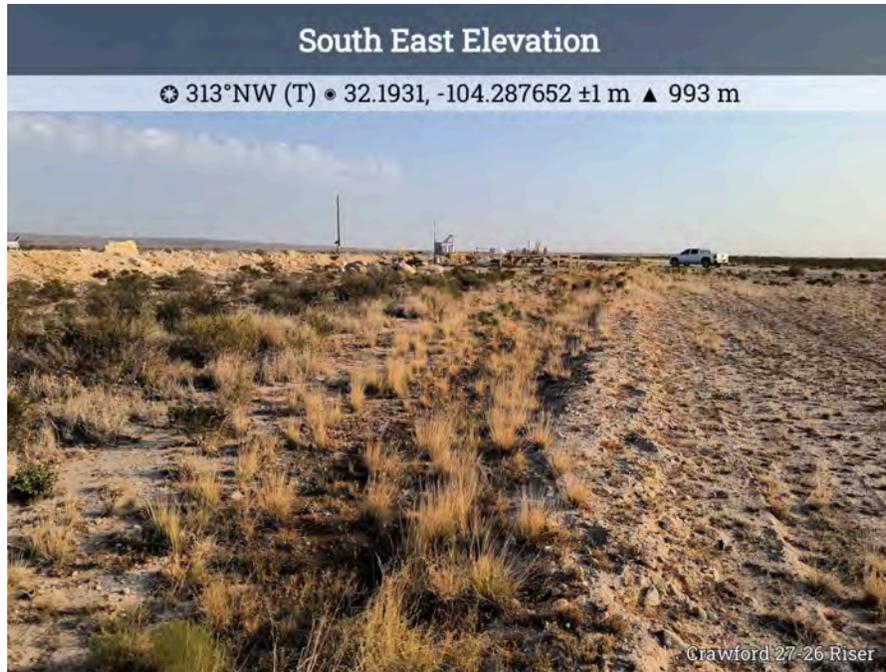
Coterra Energy Inc. is the result of the merger of Cimarex Energy Co. and Cabot Oil & Gas Corporation on October 1, 2021.

# APPENDIX IV

# PHOTOGRAPHIC DOCUMENTATION

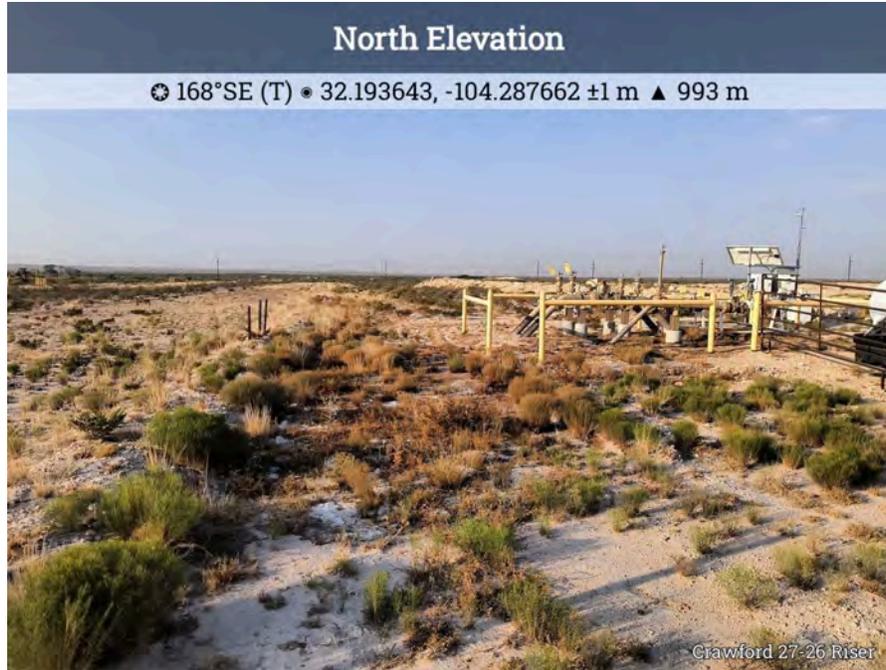
PHOTOGRAPHIC DOCUMENTATION

INITIAL PHOTOGRAPHS



PHOTOGRAPHIC DOCUMENTATION

INITIAL PHOTOGRAPHS



PHOTOGRAPHIC DOCUMENTATION

EXCAVATION PHOTOGRAPHS



PHOTOGRAPHIC DOCUMENTATION

FINAL PHOTOGRAPHS



PHOTOGRAPHIC DOCUMENTATION

**FINAL PHOTOGRAPHS**



PHOTOGRAPHIC DOCUMENTATION

**DEFERMENT AREA**



# APPENDIX V

## LABORATORY REPORTS



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

November 03, 2023

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

RE: CRAWFORD 27-26 FEE 1H (CRAWFORD)

Enclosed are the results of analyses for samples received by the laboratory on 10/31/23 13:35.

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,

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



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

**Analytical Results For:**

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

Received:	10/31/2023	Sampling Date:	10/31/2023
Reported:	11/03/2023	Sampling Type:	Soil
Project Name:	CRAWFORD 27-26 FEE 1H (CRAWFORD)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EDDY CO NM		

**Sample ID: S - 1 12' (H235960-01)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/01/2023	ND	1.75	87.6	2.00	2.50	
Toluene*	<0.050	0.050	11/01/2023	ND	1.95	97.7	2.00	0.806	
Ethylbenzene*	<0.050	0.050	11/01/2023	ND	1.97	98.7	2.00	0.387	
Total Xylenes*	<0.150	0.150	11/01/2023	ND	6.03	101	6.00	0.386	
Total BTEX	<0.300	0.300	11/01/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/02/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/02/2023	ND	182	90.9	200	2.91	
DRO >C10-C28*	<10.0	10.0	11/02/2023	ND	168	84.2	200	2.94	
EXT DRO >C28-C36	<10.0	10.0	11/02/2023	ND					

Surrogate: 1-Chlorooctane 72.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.5 % 49.1-148

Cardinal Laboratories

\* = Accredited Analyte

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



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

**Analytical Results For:**

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

Received:	10/31/2023	Sampling Date:	10/31/2023
Reported:	11/03/2023	Sampling Type:	Soil
Project Name:	CRAWFORD 27-26 FEE 1H (CRAWFORD)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EDDY CO NM		

**Sample ID: S - 2 12' (H235960-02)**

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	11/01/2023	ND	1.75	87.6	2.00	2.50	
Toluene*	<0.050	0.050	11/01/2023	ND	1.95	97.7	2.00	0.806	
Ethylbenzene*	<0.050	0.050	11/01/2023	ND	1.97	98.7	2.00	0.387	
Total Xylenes*	<0.150	0.150	11/01/2023	ND	6.03	101	6.00	0.386	
Total BTEX	<0.300	0.300	11/01/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/02/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/03/2023	ND	182	90.9	200	2.91	
DRO >C10-C28*	<10.0	10.0	11/03/2023	ND	168	84.2	200	2.94	
EXT DRO >C28-C36	<10.0	10.0	11/03/2023	ND					

Surrogate: 1-Chlorooctane 87.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.9 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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



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

**Analytical Results For:**

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

Received:	10/31/2023	Sampling Date:	10/31/2023
Reported:	11/03/2023	Sampling Type:	Soil
Project Name:	CRAWFORD 27-26 FEE 1H (CRAWFORD)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EDDY CO NM		

**Sample ID: S - 3 12' (H235960-03)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/02/2023	ND	1.75	87.6	2.00	2.50	
Toluene*	<0.050	0.050	11/02/2023	ND	1.95	97.7	2.00	0.806	
Ethylbenzene*	<0.050	0.050	11/02/2023	ND	1.97	98.7	2.00	0.387	
Total Xylenes*	<0.150	0.150	11/02/2023	ND	6.03	101	6.00	0.386	
Total BTEX	<0.300	0.300	11/02/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/02/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/02/2023	ND	182	90.9	200	2.91	
DRO >C10-C28*	<10.0	10.0	11/02/2023	ND	168	84.2	200	2.94	
EXT DRO >C28-C36	<10.0	10.0	11/02/2023	ND					

Surrogate: 1-Chlorooctane 62.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 62.7 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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



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

**Analytical Results For:**

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

Received:	10/31/2023	Sampling Date:	10/31/2023
Reported:	11/03/2023	Sampling Type:	Soil
Project Name:	CRAWFORD 27-26 FEE 1H (CRAWFORD)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EDDY CO NM		

**Sample ID: S - 4 14' (H235960-04)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/02/2023	ND	1.75	87.6	2.00	2.50	
Toluene*	<0.050	0.050	11/02/2023	ND	1.95	97.7	2.00	0.806	
Ethylbenzene*	<0.050	0.050	11/02/2023	ND	1.97	98.7	2.00	0.387	
Total Xylenes*	<0.150	0.150	11/02/2023	ND	6.03	101	6.00	0.386	
Total BTEX	<0.300	0.300	11/02/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/02/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/02/2023	ND	182	90.9	200	2.91	
DRO >C10-C28*	<10.0	10.0	11/02/2023	ND	168	84.2	200	2.94	
EXT DRO >C28-C36	<10.0	10.0	11/02/2023	ND					

Surrogate: 1-Chlorooctane 62.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 62.0 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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



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

**Analytical Results For:**

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

Received:	10/31/2023	Sampling Date:	10/31/2023
Reported:	11/03/2023	Sampling Type:	Soil
Project Name:	CRAWFORD 27-26 FEE 1H (CRAWFORD)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EDDY CO NM		

**Sample ID: S - 5 14' (H235960-05)**

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	11/02/2023	ND	1.75	87.6	2.00	2.50	
Toluene*	<0.050	0.050	11/02/2023	ND	1.95	97.7	2.00	0.806	
Ethylbenzene*	<0.050	0.050	11/02/2023	ND	1.97	98.7	2.00	0.387	
Total Xylenes*	<0.150	0.150	11/02/2023	ND	6.03	101	6.00	0.386	
Total BTEX	<0.300	0.300	11/02/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/02/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/03/2023	ND	182	90.9	200	2.91	
DRO >C10-C28*	<10.0	10.0	11/03/2023	ND	168	84.2	200	2.94	
EXT DRO >C28-C36	<10.0	10.0	11/03/2023	ND					

Surrogate: 1-Chlorooctane 87.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.4 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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



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

**Analytical Results For:**

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

Received:	10/31/2023	Sampling Date:	10/31/2023
Reported:	11/03/2023	Sampling Type:	Soil
Project Name:	CRAWFORD 27-26 FEE 1H (CRAWFORD)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EDDY CO NM		

**Sample ID: S - 6 6' (H235960-06)**

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	11/02/2023	ND	1.75	87.6	2.00	2.50		
Toluene*	<0.050	0.050	11/02/2023	ND	1.95	97.7	2.00	0.806		
Ethylbenzene*	<0.050	0.050	11/02/2023	ND	1.97	98.7	2.00	0.387		
Total Xylenes*	<0.150	0.150	11/02/2023	ND	6.03	101	6.00	0.386		
Total BTEX	<0.300	0.300	11/02/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/02/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	11/02/2023	ND	182	90.9	200	2.91		
DRO >C10-C28*	<10.0	10.0	11/02/2023	ND	168	84.2	200	2.94		
EXT DRO >C28-C36	<10.0	10.0	11/02/2023	ND						

Surrogate: 1-Chlorooctane 69.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 67.7 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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



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

**Analytical Results For:**

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

Received:	10/31/2023	Sampling Date:	10/31/2023
Reported:	11/03/2023	Sampling Type:	Soil
Project Name:	CRAWFORD 27-26 FEE 1H (CRAWFORD)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EDDY CO NM		

**Sample ID: S - 7 4' (H235960-07)**

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	11/02/2023	ND	1.75	87.6	2.00	2.50		
Toluene*	<0.050	0.050	11/02/2023	ND	1.95	97.7	2.00	0.806		
Ethylbenzene*	<0.050	0.050	11/02/2023	ND	1.97	98.7	2.00	0.387		
Total Xylenes*	<0.150	0.150	11/02/2023	ND	6.03	101	6.00	0.386		
Total BTEX	<0.300	0.300	11/02/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1440	16.0	11/02/2023	ND	432	108	400	0.00	QM-07	

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	11/02/2023	ND	182	90.9	200	2.91		
DRO >C10-C28*	<10.0	10.0	11/02/2023	ND	168	84.2	200	2.94		
EXT DRO >C28-C36	<10.0	10.0	11/02/2023	ND						

Surrogate: 1-Chlorooctane 68.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 69.5 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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



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

**Analytical Results For:**

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

Received:	10/31/2023	Sampling Date:	10/31/2023
Reported:	11/03/2023	Sampling Type:	Soil
Project Name:	CRAWFORD 27-26 FEE 1H (CRAWFORD)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EDDY CO NM		

**Sample ID: S - 8 4' (H235960-08)**

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	11/02/2023	ND	1.75	87.6	2.00	2.50	
Toluene*	<0.050	0.050	11/02/2023	ND	1.95	97.7	2.00	0.806	
Ethylbenzene*	<0.050	0.050	11/02/2023	ND	1.97	98.7	2.00	0.387	
Total Xylenes*	<0.150	0.150	11/02/2023	ND	6.03	101	6.00	0.386	
Total BTEX	<0.300	0.300	11/02/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1380	16.0	11/02/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/02/2023	ND	182	90.9	200	2.91	
DRO >C10-C28*	<10.0	10.0	11/02/2023	ND	168	84.2	200	2.94	
EXT DRO >C28-C36	<10.0	10.0	11/02/2023	ND					

Surrogate: 1-Chlorooctane 70.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 70.5 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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



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

**Analytical Results For:**

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

Received:	10/31/2023	Sampling Date:	10/31/2023
Reported:	11/03/2023	Sampling Type:	Soil
Project Name:	CRAWFORD 27-26 FEE 1H (CRAWFORD)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EDDY CO NM		

**Sample ID: S - 9 4' (H235960-09)**

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	11/02/2023	ND	1.75	87.6	2.00	2.50	
Toluene*	<0.050	0.050	11/02/2023	ND	1.95	97.7	2.00	0.806	
Ethylbenzene*	<0.050	0.050	11/02/2023	ND	1.97	98.7	2.00	0.387	
Total Xylenes*	<0.150	0.150	11/02/2023	ND	6.03	101	6.00	0.386	
Total BTEX	<0.300	0.300	11/02/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1100	16.0	11/02/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/02/2023	ND	182	90.9	200	2.91	
DRO >C10-C28*	<10.0	10.0	11/02/2023	ND	168	84.2	200	2.94	
EXT DRO >C28-C36	<10.0	10.0	11/02/2023	ND					

Surrogate: 1-Chlorooctane 71.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 70.9 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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



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

**Analytical Results For:**

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

Received:	10/31/2023	Sampling Date:	10/31/2023
Reported:	11/03/2023	Sampling Type:	Soil
Project Name:	CRAWFORD 27-26 FEE 1H (CRAWFORD)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EDDY CO NM		

**Sample ID: S - 10 16' (H235960-10)**

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	11/02/2023	ND	1.75	87.6	2.00	2.50		
Toluene*	<0.050	0.050	11/02/2023	ND	1.95	97.7	2.00	0.806		
Ethylbenzene*	<0.050	0.050	11/02/2023	ND	1.97	98.7	2.00	0.387		
Total Xylenes*	<0.150	0.150	11/02/2023	ND	6.03	101	6.00	0.386		
Total BTEX	<0.300	0.300	11/02/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/02/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	11/02/2023	ND	182	90.9	200	2.91		
DRO >C10-C28*	<10.0	10.0	11/02/2023	ND	168	84.2	200	2.94		
EXT DRO >C28-C36	<10.0	10.0	11/02/2023	ND						

Surrogate: 1-Chlorooctane 65.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 64.0 % 49.1-148

Cardinal Laboratories

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



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

**Analytical Results For:**

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

Received:	10/31/2023	Sampling Date:	10/31/2023
Reported:	11/03/2023	Sampling Type:	Soil
Project Name:	CRAWFORD 27-26 FEE 1H (CRAWFORD)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EDDY CO NM		

**Sample ID: S - 11 16' (H235960-11)**

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	11/02/2023	ND	1.75	87.6	2.00	2.50	
Toluene*	<0.050	0.050	11/02/2023	ND	1.95	97.7	2.00	0.806	
Ethylbenzene*	<0.050	0.050	11/02/2023	ND	1.97	98.7	2.00	0.387	
Total Xylenes*	<0.150	0.150	11/02/2023	ND	6.03	101	6.00	0.386	
Total BTEX	<0.300	0.300	11/02/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/02/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/02/2023	ND	182	90.9	200	2.91	
DRO >C10-C28*	<10.0	10.0	11/02/2023	ND	168	84.2	200	2.94	
EXT DRO >C28-C36	<10.0	10.0	11/02/2023	ND					

Surrogate: 1-Chlorooctane 64.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 63.4 % 49.1-148

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



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

**Analytical Results For:**

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

Received:	10/31/2023	Sampling Date:	10/31/2023
Reported:	11/03/2023	Sampling Type:	Soil
Project Name:	CRAWFORD 27-26 FEE 1H (CRAWFORD)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EDDY CO NM		

**Sample ID: SW - 1 12' (H235960-12)**

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	11/02/2023	ND	1.75	87.6	2.00	2.50	
Toluene*	<0.050	0.050	11/02/2023	ND	1.95	97.7	2.00	0.806	
Ethylbenzene*	<0.050	0.050	11/02/2023	ND	1.97	98.7	2.00	0.387	
Total Xylenes*	<0.150	0.150	11/02/2023	ND	6.03	101	6.00	0.386	
Total BTEX	<0.300	0.300	11/02/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/02/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/02/2023	ND	182	90.9	200	2.91	
DRO >C10-C28*	<10.0	10.0	11/02/2023	ND	168	84.2	200	2.94	
EXT DRO >C28-C36	<10.0	10.0	11/02/2023	ND					

Surrogate: 1-Chlorooctane 68.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 68.5 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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



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

**Analytical Results For:**

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

Received:	10/31/2023	Sampling Date:	10/31/2023
Reported:	11/03/2023	Sampling Type:	Soil
Project Name:	CRAWFORD 27-26 FEE 1H (CRAWFORD)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EDDY CO NM		

**Sample ID: SW - 2 12' (H235960-13)**

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	11/02/2023	ND	1.75	87.6	2.00	2.50	
Toluene*	<0.050	0.050	11/02/2023	ND	1.95	97.7	2.00	0.806	
Ethylbenzene*	<0.050	0.050	11/02/2023	ND	1.97	98.7	2.00	0.387	
Total Xylenes*	<0.150	0.150	11/02/2023	ND	6.03	101	6.00	0.386	
Total BTEX	<0.300	0.300	11/02/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/02/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/02/2023	ND	182	90.9	200	2.91	
DRO >C10-C28*	<10.0	10.0	11/02/2023	ND	168	84.2	200	2.94	
EXT DRO >C28-C36	<10.0	10.0	11/02/2023	ND					

Surrogate: 1-Chlorooctane 70.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 69.9 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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



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

**Analytical Results For:**

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

Received:	10/31/2023	Sampling Date:	10/31/2023
Reported:	11/03/2023	Sampling Type:	Soil
Project Name:	CRAWFORD 27-26 FEE 1H (CRAWFORD)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EDDY CO NM		

**Sample ID: SW - 3 12' (H235960-14)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/02/2023	ND	1.75	87.6	2.00	2.50	
Toluene*	<0.050	0.050	11/02/2023	ND	1.95	97.7	2.00	0.806	
Ethylbenzene*	<0.050	0.050	11/02/2023	ND	1.97	98.7	2.00	0.387	
Total Xylenes*	<0.150	0.150	11/02/2023	ND	6.03	101	6.00	0.386	
Total BTEX	<0.300	0.300	11/02/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/02/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/02/2023	ND	182	90.9	200	2.91	
DRO >C10-C28*	<10.0	10.0	11/02/2023	ND	168	84.2	200	2.94	
EXT DRO >C28-C36	<10.0	10.0	11/02/2023	ND					

Surrogate: 1-Chlorooctane 60.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 61.6 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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



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

**Analytical Results For:**

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

Received:	10/31/2023	Sampling Date:	10/31/2023
Reported:	11/03/2023	Sampling Type:	Soil
Project Name:	CRAWFORD 27-26 FEE 1H (CRAWFORD)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EDDY CO NM		

**Sample ID: SW - 4 12' (H235960-15)**

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/02/2023	ND	1.75	87.6	2.00	2.50		
Toluene*	<0.050	0.050	11/02/2023	ND	1.95	97.7	2.00	0.806		
Ethylbenzene*	<0.050	0.050	11/02/2023	ND	1.97	98.7	2.00	0.387		
Total Xylenes*	<0.150	0.150	11/02/2023	ND	6.03	101	6.00	0.386		
Total BTEX	<0.300	0.300	11/02/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/02/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	11/02/2023	ND	182	90.9	200	2.91		
DRO >C10-C28*	<10.0	10.0	11/02/2023	ND	168	84.2	200	2.94		
EXT DRO >C28-C36	<10.0	10.0	11/02/2023	ND						

Surrogate: 1-Chlorooctane 67.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 68.2 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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



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

**Analytical Results For:**

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

Received:	10/31/2023	Sampling Date:	10/31/2023
Reported:	11/03/2023	Sampling Type:	Soil
Project Name:	CRAWFORD 27-26 FEE 1H (CRAWFORD)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EDDY CO NM		

**Sample ID: SW - 5 12' (H235960-16)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/02/2023	ND	1.75	87.6	2.00	2.50	
Toluene*	<0.050	0.050	11/02/2023	ND	1.95	97.7	2.00	0.806	
Ethylbenzene*	<0.050	0.050	11/02/2023	ND	1.97	98.7	2.00	0.387	
Total Xylenes*	<0.150	0.150	11/02/2023	ND	6.03	101	6.00	0.386	
Total BTEX	<0.300	0.300	11/02/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/02/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/02/2023	ND	182	90.9	200	2.91	
DRO >C10-C28*	<10.0	10.0	11/02/2023	ND	168	84.2	200	2.94	
EXT DRO >C28-C36	<10.0	10.0	11/02/2023	ND					

Surrogate: 1-Chlorooctane 70.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 69.9 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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



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

**Analytical Results For:**

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

Received:	10/31/2023	Sampling Date:	10/31/2023
Reported:	11/03/2023	Sampling Type:	Soil
Project Name:	CRAWFORD 27-26 FEE 1H (CRAWFORD)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EDDY CO NM		

**Sample ID: SW - 6 12' (H235960-17)**

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	11/02/2023	ND	1.75	87.6	2.00	2.50	
Toluene*	<0.050	0.050	11/02/2023	ND	1.95	97.7	2.00	0.806	
Ethylbenzene*	<0.050	0.050	11/02/2023	ND	1.97	98.7	2.00	0.387	
Total Xylenes*	<0.150	0.150	11/02/2023	ND	6.03	101	6.00	0.386	
Total BTEX	<0.300	0.300	11/02/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/02/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/02/2023	ND	180	90.0	200	2.90	
DRO >C10-C28*	<10.0	10.0	11/02/2023	ND	161	80.6	200	3.04	
EXT DRO >C28-C36	<10.0	10.0	11/02/2023	ND					

Surrogate: 1-Chlorooctane 87.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.0 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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



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

**Analytical Results For:**

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

Received:	10/31/2023	Sampling Date:	10/31/2023
Reported:	11/03/2023	Sampling Type:	Soil
Project Name:	CRAWFORD 27-26 FEE 1H (CRAWFORD)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EDDY CO NM		

**Sample ID: SW - 7 12' (H235960-18)**

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	11/02/2023	ND	1.75	87.6	2.00	2.50		
Toluene*	<0.050	0.050	11/02/2023	ND	1.95	97.7	2.00	0.806		
Ethylbenzene*	<0.050	0.050	11/02/2023	ND	1.97	98.7	2.00	0.387		
Total Xylenes*	<0.150	0.150	11/02/2023	ND	6.03	101	6.00	0.386		
Total BTEX	<0.300	0.300	11/02/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/02/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	11/02/2023	ND	180	90.0	200	2.90		
DRO >C10-C28*	<10.0	10.0	11/02/2023	ND	161	80.6	200	3.04		
EXT DRO >C28-C36	<10.0	10.0	11/02/2023	ND						

Surrogate: 1-Chlorooctane 86.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.3 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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



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

**Analytical Results For:**

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

Received:	10/31/2023	Sampling Date:	10/31/2023
Reported:	11/03/2023	Sampling Type:	Soil
Project Name:	CRAWFORD 27-26 FEE 1H (CRAWFORD)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EDDY CO NM		

**Sample ID: SW - 8 12' (H235960-19)**

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	11/02/2023	ND	1.75	87.6	2.00	2.50	
Toluene*	<0.050	0.050	11/02/2023	ND	1.95	97.7	2.00	0.806	
Ethylbenzene*	<0.050	0.050	11/02/2023	ND	1.97	98.7	2.00	0.387	
Total Xylenes*	<0.150	0.150	11/02/2023	ND	6.03	101	6.00	0.386	
Total BTEX	<0.300	0.300	11/02/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/02/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/02/2023	ND	180	90.0	200	2.90	
DRO >C10-C28*	<10.0	10.0	11/02/2023	ND	161	80.6	200	3.04	
EXT DRO >C28-C36	<10.0	10.0	11/02/2023	ND					

Surrogate: 1-Chlorooctane 80.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 70.0 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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



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

**Analytical Results For:**

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

Received:	10/31/2023	Sampling Date:	10/31/2023
Reported:	11/03/2023	Sampling Type:	Soil
Project Name:	CRAWFORD 27-26 FEE 1H (CRAWFORD)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EDDY CO NM		

**Sample ID: SW - 9 12' (H235960-20)**

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	11/02/2023	ND	1.75	87.6	2.00	2.50	
Toluene*	<0.050	0.050	11/02/2023	ND	1.95	97.7	2.00	0.806	
Ethylbenzene*	<0.050	0.050	11/02/2023	ND	1.97	98.7	2.00	0.387	
Total Xylenes*	<0.150	0.150	11/02/2023	ND	6.03	101	6.00	0.386	
Total BTEX	<0.300	0.300	11/02/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/02/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/02/2023	ND	180	90.0	200	2.90	
DRO >C10-C28*	<10.0	10.0	11/02/2023	ND	161	80.6	200	3.04	
EXT DRO >C28-C36	<10.0	10.0	11/02/2023	ND					

Surrogate: 1-Chlorooctane 80.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 70.3 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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



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

**Analytical Results For:**

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

Received:	10/31/2023	Sampling Date:	10/31/2023
Reported:	11/03/2023	Sampling Type:	Soil
Project Name:	CRAWFORD 27-26 FEE 1H (CRAWFORD)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EDDY CO NM		

**Sample ID: SW - 10 12' (H235960-21)**

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	11/02/2023	ND	2.00	100	2.00	1.27	
Toluene*	<0.050	0.050	11/02/2023	ND	2.04	102	2.00	0.774	
Ethylbenzene*	<0.050	0.050	11/02/2023	ND	2.04	102	2.00	1.12	
Total Xylenes*	<0.150	0.150	11/02/2023	ND	6.39	106	6.00	1.13	
Total BTEX	<0.300	0.300	11/02/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/02/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/02/2023	ND	180	90.0	200	2.90	
DRO >C10-C28*	<10.0	10.0	11/02/2023	ND	161	80.6	200	3.04	
EXT DRO >C28-C36	<10.0	10.0	11/02/2023	ND					

Surrogate: 1-Chlorooctane 83.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.0 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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



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

**Analytical Results For:**

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

Received:	10/31/2023	Sampling Date:	10/31/2023
Reported:	11/03/2023	Sampling Type:	Soil
Project Name:	CRAWFORD 27-26 FEE 1H (CRAWFORD)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EDDY CO NM		

**Sample ID: SW - 11 12' (H235960-22)**

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	11/02/2023	ND	2.00	100	2.00	1.27	
Toluene*	<0.050	0.050	11/02/2023	ND	2.04	102	2.00	0.774	
Ethylbenzene*	<0.050	0.050	11/02/2023	ND	2.04	102	2.00	1.12	
Total Xylenes*	<0.150	0.150	11/02/2023	ND	6.39	106	6.00	1.13	
Total BTEX	<0.300	0.300	11/02/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/02/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/02/2023	ND	180	90.0	200	2.90	
DRO >C10-C28*	<10.0	10.0	11/02/2023	ND	161	80.6	200	3.04	
EXT DRO >C28-C36	<10.0	10.0	11/02/2023	ND					

Surrogate: 1-Chlorooctane 71.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 64.9 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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



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

**Analytical Results For:**

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

Received:	10/31/2023	Sampling Date:	10/31/2023
Reported:	11/03/2023	Sampling Type:	Soil
Project Name:	CRAWFORD 27-26 FEE 1H (CRAWFORD)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EDDY CO NM		

**Sample ID: SW - 12 14' (H235960-23)**

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	11/02/2023	ND	2.00	100	2.00	1.27	
Toluene*	<0.050	0.050	11/02/2023	ND	2.04	102	2.00	0.774	
Ethylbenzene*	<0.050	0.050	11/02/2023	ND	2.04	102	2.00	1.12	
Total Xylenes*	<0.150	0.150	11/02/2023	ND	6.39	106	6.00	1.13	
Total BTEX	<0.300	0.300	11/02/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/02/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/02/2023	ND	180	90.0	200	2.90	
DRO >C10-C28*	<10.0	10.0	11/02/2023	ND	161	80.6	200	3.04	
EXT DRO >C28-C36	<10.0	10.0	11/02/2023	ND					

Surrogate: 1-Chlorooctane 79.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 69.3 % 49.1-148

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\*=Accredited Analyte

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



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

**Analytical Results For:**

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

Received:	10/31/2023	Sampling Date:	10/31/2023
Reported:	11/03/2023	Sampling Type:	Soil
Project Name:	CRAWFORD 27-26 FEE 1H (CRAWFORD)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EDDY CO NM		

**Sample ID: SW - 13 14' (H235960-24)**

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	11/02/2023	ND	2.00	100	2.00	1.27	
Toluene*	<0.050	0.050	11/02/2023	ND	2.04	102	2.00	0.774	
Ethylbenzene*	<0.050	0.050	11/02/2023	ND	2.04	102	2.00	1.12	
Total Xylenes*	<0.150	0.150	11/02/2023	ND	6.39	106	6.00	1.13	
Total BTEX	<0.300	0.300	11/02/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/02/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/02/2023	ND	180	90.0	200	2.90	
DRO >C10-C28*	<10.0	10.0	11/02/2023	ND	161	80.6	200	3.04	
EXT DRO >C28-C36	<10.0	10.0	11/02/2023	ND					

Surrogate: 1-Chlorooctane 81.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.0 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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



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

**Analytical Results For:**

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

Received:	10/31/2023	Sampling Date:	10/31/2023
Reported:	11/03/2023	Sampling Type:	Soil
Project Name:	CRAWFORD 27-26 FEE 1H (CRAWFORD)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EDDY CO NM		

**Sample ID: SW - 14 14' (H235960-25)**

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	11/02/2023	ND	2.00	100	2.00	1.27	
Toluene*	<0.050	0.050	11/02/2023	ND	2.04	102	2.00	0.774	
Ethylbenzene*	<0.050	0.050	11/02/2023	ND	2.04	102	2.00	1.12	
Total Xylenes*	<0.150	0.150	11/02/2023	ND	6.39	106	6.00	1.13	
Total BTEX	<0.300	0.300	11/02/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/02/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/02/2023	ND	180	90.0	200	2.90	
DRO >C10-C28*	<10.0	10.0	11/02/2023	ND	161	80.6	200	3.04	
EXT DRO >C28-C36	<10.0	10.0	11/02/2023	ND					

Surrogate: 1-Chlorooctane 79.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 70.2 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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



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

**Analytical Results For:**

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

Received:	10/31/2023	Sampling Date:	10/31/2023
Reported:	11/03/2023	Sampling Type:	Soil
Project Name:	CRAWFORD 27-26 FEE 1H (CRAWFORD)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EDDY CO NM		

**Sample ID: SW - 15 14' (H235960-26)**

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	11/02/2023	ND	2.00	100	2.00	1.27	
Toluene*	<0.050	0.050	11/02/2023	ND	2.04	102	2.00	0.774	
Ethylbenzene*	<0.050	0.050	11/02/2023	ND	2.04	102	2.00	1.12	
Total Xylenes*	<0.150	0.150	11/02/2023	ND	6.39	106	6.00	1.13	
Total BTEX	<0.300	0.300	11/02/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/02/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/02/2023	ND	180	90.0	200	2.90	
DRO >C10-C28*	<10.0	10.0	11/02/2023	ND	161	80.6	200	3.04	
EXT DRO >C28-C36	<10.0	10.0	11/02/2023	ND					

Surrogate: 1-Chlorooctane 77.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 67.9 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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



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

**Analytical Results For:**

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

Received:	10/31/2023	Sampling Date:	10/31/2023
Reported:	11/03/2023	Sampling Type:	Soil
Project Name:	CRAWFORD 27-26 FEE 1H (CRAWFORD)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EDDY CO NM		

**Sample ID: SW - 16 14' (H235960-27)**

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	11/02/2023	ND	2.00	100	2.00	1.27	
Toluene*	<0.050	0.050	11/02/2023	ND	2.04	102	2.00	0.774	
Ethylbenzene*	<0.050	0.050	11/02/2023	ND	2.04	102	2.00	1.12	
Total Xylenes*	<0.150	0.150	11/02/2023	ND	6.39	106	6.00	1.13	
Total BTEX	<0.300	0.300	11/02/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/02/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/02/2023	ND	180	90.0	200	2.90	
DRO >C10-C28*	<10.0	10.0	11/02/2023	ND	161	80.6	200	3.04	
EXT DRO >C28-C36	<10.0	10.0	11/02/2023	ND					

Surrogate: 1-Chlorooctane 90.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.9 % 49.1-148

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\*=Accredited Analyte

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



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

**Analytical Results For:**

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

Received:	10/31/2023	Sampling Date:	10/31/2023
Reported:	11/03/2023	Sampling Type:	Soil
Project Name:	CRAWFORD 27-26 FEE 1H (CRAWFORD)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EDDY CO NM		

**Sample ID: SW - 17 14' (H235960-28)**

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	11/02/2023	ND	2.00	100	2.00	1.27	
Toluene*	<0.050	0.050	11/02/2023	ND	2.04	102	2.00	0.774	
Ethylbenzene*	<0.050	0.050	11/02/2023	ND	2.04	102	2.00	1.12	
Total Xylenes*	<0.150	0.150	11/02/2023	ND	6.39	106	6.00	1.13	
Total BTEX	<0.300	0.300	11/02/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/02/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/02/2023	ND	180	90.0	200	2.90	
DRO >C10-C28*	<10.0	10.0	11/02/2023	ND	161	80.6	200	3.04	
EXT DRO >C28-C36	<10.0	10.0	11/02/2023	ND					

Surrogate: 1-Chlorooctane 70.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 63.0 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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



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

**Analytical Results For:**

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

Received:	10/31/2023	Sampling Date:	10/31/2023
Reported:	11/03/2023	Sampling Type:	Soil
Project Name:	CRAWFORD 27-26 FEE 1H (CRAWFORD)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EDDY CO NM		

**Sample ID: SW - 18 14' (H235960-29)**

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	11/02/2023	ND	2.00	100	2.00	1.27	
Toluene*	<0.050	0.050	11/02/2023	ND	2.04	102	2.00	0.774	
Ethylbenzene*	<0.050	0.050	11/02/2023	ND	2.04	102	2.00	1.12	
Total Xylenes*	<0.150	0.150	11/02/2023	ND	6.39	106	6.00	1.13	
Total BTEX	<0.300	0.300	11/02/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/02/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/02/2023	ND	180	90.0	200	2.90	
DRO >C10-C28*	<10.0	10.0	11/02/2023	ND	161	80.6	200	3.04	
EXT DRO >C28-C36	<10.0	10.0	11/02/2023	ND					

Surrogate: 1-Chlorooctane 63.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 56.9 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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



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

**Analytical Results For:**

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

Received:	10/31/2023	Sampling Date:	10/31/2023
Reported:	11/03/2023	Sampling Type:	Soil
Project Name:	CRAWFORD 27-26 FEE 1H (CRAWFORD)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EDDY CO NM		

**Sample ID: SW - 19 14' (H235960-30)**

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	11/02/2023	ND	2.00	100	2.00	1.27	
Toluene*	<0.050	0.050	11/02/2023	ND	2.04	102	2.00	0.774	
Ethylbenzene*	<0.050	0.050	11/02/2023	ND	2.04	102	2.00	1.12	
Total Xylenes*	<0.150	0.150	11/02/2023	ND	6.39	106	6.00	1.13	
Total BTEX	<0.300	0.300	11/02/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/02/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/02/2023	ND	180	90.0	200	2.90	
DRO >C10-C28*	<10.0	10.0	11/02/2023	ND	161	80.6	200	3.04	
EXT DRO >C28-C36	<10.0	10.0	11/02/2023	ND					

Surrogate: 1-Chlorooctane 75.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 67.4 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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



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

**Analytical Results For:**

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

Received:	10/31/2023	Sampling Date:	10/31/2023
Reported:	11/03/2023	Sampling Type:	Soil
Project Name:	CRAWFORD 27-26 FEE 1H (CRAWFORD)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EDDY CO NM		

**Sample ID: SW - 20 14' (H235960-31)**

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	11/02/2023	ND	2.00	100	2.00	1.27	
Toluene*	<0.050	0.050	11/02/2023	ND	2.04	102	2.00	0.774	
Ethylbenzene*	<0.050	0.050	11/02/2023	ND	2.04	102	2.00	1.12	
Total Xylenes*	<0.150	0.150	11/02/2023	ND	6.39	106	6.00	1.13	
Total BTEX	<0.300	0.300	11/02/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/02/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/02/2023	ND	180	90.0	200	2.90	
DRO >C10-C28*	<10.0	10.0	11/02/2023	ND	161	80.6	200	3.04	
EXT DRO >C28-C36	<10.0	10.0	11/02/2023	ND					

Surrogate: 1-Chlorooctane 78.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 69.8 % 49.1-148

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\*=Accredited Analyte

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



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

**Analytical Results For:**

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

Received:	10/31/2023	Sampling Date:	10/31/2023
Reported:	11/03/2023	Sampling Type:	Soil
Project Name:	CRAWFORD 27-26 FEE 1H (CRAWFORD)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EDDY CO NM		

**Sample ID: SW - 21 14' (H235960-32)**

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	11/02/2023	ND	2.00	100	2.00	1.27	
Toluene*	<0.050	0.050	11/02/2023	ND	2.04	102	2.00	0.774	
Ethylbenzene*	<0.050	0.050	11/02/2023	ND	2.04	102	2.00	1.12	
Total Xylenes*	<0.150	0.150	11/02/2023	ND	6.39	106	6.00	1.13	
Total BTEX	<0.300	0.300	11/02/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/02/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/02/2023	ND	180	90.0	200	2.90	
DRO >C10-C28*	<10.0	10.0	11/02/2023	ND	161	80.6	200	3.04	
EXT DRO >C28-C36	<10.0	10.0	11/02/2023	ND					

Surrogate: 1-Chlorooctane 79.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 70.3 % 49.1-148

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\*=Accredited Analyte

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



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

**Analytical Results For:**

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

Received:	10/31/2023	Sampling Date:	10/31/2023
Reported:	11/03/2023	Sampling Type:	Soil
Project Name:	CRAWFORD 27-26 FEE 1H (CRAWFORD)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EDDY CO NM		

**Sample ID: SW - 22 6' (H235960-33)**

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	11/02/2023	ND	2.00	100	2.00	1.27	
Toluene*	<0.050	0.050	11/02/2023	ND	2.04	102	2.00	0.774	
Ethylbenzene*	<0.050	0.050	11/02/2023	ND	2.04	102	2.00	1.12	
Total Xylenes*	<0.150	0.150	11/02/2023	ND	6.39	106	6.00	1.13	
Total BTEX	<0.300	0.300	11/02/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/02/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/02/2023	ND	180	90.0	200	2.90	
DRO >C10-C28*	<10.0	10.0	11/02/2023	ND	161	80.6	200	3.04	
EXT DRO >C28-C36	<10.0	10.0	11/02/2023	ND					

Surrogate: 1-Chlorooctane 71.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 62.2 % 49.1-148

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\*=Accredited Analyte

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



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

**Analytical Results For:**

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

Received:	10/31/2023	Sampling Date:	10/31/2023
Reported:	11/03/2023	Sampling Type:	Soil
Project Name:	CRAWFORD 27-26 FEE 1H (CRAWFORD)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EDDY CO NM		

**Sample ID: SW - 23 6' (H235960-34)**

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	11/02/2023	ND	2.00	100	2.00	1.27	
Toluene*	<0.050	0.050	11/02/2023	ND	2.04	102	2.00	0.774	
Ethylbenzene*	<0.050	0.050	11/02/2023	ND	2.04	102	2.00	1.12	
Total Xylenes*	<0.150	0.150	11/02/2023	ND	6.39	106	6.00	1.13	
Total BTEX	<0.300	0.300	11/02/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/02/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/02/2023	ND	180	90.0	200	2.90	
DRO >C10-C28*	<10.0	10.0	11/02/2023	ND	161	80.6	200	3.04	
EXT DRO >C28-C36	<10.0	10.0	11/02/2023	ND					

Surrogate: 1-Chlorooctane 70.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 60.6 % 49.1-148

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



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

**Analytical Results For:**

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

Received:	10/31/2023	Sampling Date:	10/31/2023
Reported:	11/03/2023	Sampling Type:	Soil
Project Name:	CRAWFORD 27-26 FEE 1H (CRAWFORD)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EDDY CO NM		

**Sample ID: SW - 24 6' (H235960-35)**

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	11/02/2023	ND	2.00	100	2.00	1.27	
Toluene*	<0.050	0.050	11/02/2023	ND	2.04	102	2.00	0.774	
Ethylbenzene*	<0.050	0.050	11/02/2023	ND	2.04	102	2.00	1.12	
Total Xylenes*	<0.150	0.150	11/02/2023	ND	6.39	106	6.00	1.13	
Total BTEX	<0.300	0.300	11/02/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	11/02/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/02/2023	ND	180	90.0	200	2.90	
DRO >C10-C28*	<10.0	10.0	11/02/2023	ND	161	80.6	200	3.04	
EXT DRO >C28-C36	<10.0	10.0	11/02/2023	ND					

Surrogate: 1-Chlorooctane 77.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 68.8 % 49.1-148

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



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

**Analytical Results For:**

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

Received:	10/31/2023	Sampling Date:	10/31/2023
Reported:	11/03/2023	Sampling Type:	Soil
Project Name:	CRAWFORD 27-26 FEE 1H (CRAWFORD)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EDDY CO NM		

**Sample ID: SW - 25 4' (H235960-36)**

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	11/02/2023	ND	2.00	100	2.00	1.27	
Toluene*	<0.050	0.050	11/02/2023	ND	2.04	102	2.00	0.774	
Ethylbenzene*	<0.050	0.050	11/02/2023	ND	2.04	102	2.00	1.12	
Total Xylenes*	<0.150	0.150	11/02/2023	ND	6.39	106	6.00	1.13	
Total BTEX	<0.300	0.300	11/02/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	11/02/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/02/2023	ND	180	90.0	200	2.90	
DRO >C10-C28*	<10.0	10.0	11/02/2023	ND	161	80.6	200	3.04	
EXT DRO >C28-C36	<10.0	10.0	11/02/2023	ND					

Surrogate: 1-Chlorooctane 77.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 69.3 % 49.1-148

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



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

**Analytical Results For:**

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

Received:	10/31/2023	Sampling Date:	10/31/2023
Reported:	11/03/2023	Sampling Type:	Soil
Project Name:	CRAWFORD 27-26 FEE 1H (CRAWFORD)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EDDY CO NM		

**Sample ID: SW - 26 4' (H235960-37)**

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	11/02/2023	ND	2.00	100	2.00	1.27	
Toluene*	<0.050	0.050	11/02/2023	ND	2.04	102	2.00	0.774	
Ethylbenzene*	<0.050	0.050	11/02/2023	ND	2.04	102	2.00	1.12	
Total Xylenes*	<0.150	0.150	11/02/2023	ND	6.39	106	6.00	1.13	
Total BTEX	<0.300	0.300	11/02/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	11/02/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/01/2023	ND	184	92.0	200	1.92	
DRO >C10-C28*	<10.0	10.0	11/01/2023	ND	194	96.9	200	0.387	
EXT DRO >C28-C36	<10.0	10.0	11/01/2023	ND					

Surrogate: 1-Chlorooctane 89.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.0 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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



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

**Analytical Results For:**

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

Received:	10/31/2023	Sampling Date:	10/31/2023
Reported:	11/03/2023	Sampling Type:	Soil
Project Name:	CRAWFORD 27-26 FEE 1H (CRAWFORD)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EDDY CO NM		

**Sample ID: SW - 27 4' (H235960-38)**

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	11/02/2023	ND	2.00	100	2.00	1.27	
Toluene*	<0.050	0.050	11/02/2023	ND	2.04	102	2.00	0.774	
Ethylbenzene*	<0.050	0.050	11/02/2023	ND	2.04	102	2.00	1.12	
Total Xylenes*	<0.150	0.150	11/02/2023	ND	6.39	106	6.00	1.13	
Total BTEX	<0.300	0.300	11/02/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	11/02/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/01/2023	ND	184	92.0	200	1.92	
DRO >C10-C28*	<10.0	10.0	11/01/2023	ND	194	96.9	200	0.387	
EXT DRO >C28-C36	<10.0	10.0	11/01/2023	ND					

Surrogate: 1-Chlorooctane 92.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.9 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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



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

**Analytical Results For:**

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

Received:	10/31/2023	Sampling Date:	10/31/2023
Reported:	11/03/2023	Sampling Type:	Soil
Project Name:	CRAWFORD 27-26 FEE 1H (CRAWFORD)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EDDY CO NM		

**Sample ID: SW - 28 4' (H235960-39)**

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	11/02/2023	ND	2.00	100	2.00	1.27	
Toluene*	<0.050	0.050	11/02/2023	ND	2.04	102	2.00	0.774	
Ethylbenzene*	<0.050	0.050	11/02/2023	ND	2.04	102	2.00	1.12	
Total Xylenes*	<0.150	0.150	11/02/2023	ND	6.39	106	6.00	1.13	
Total BTEX	<0.300	0.300	11/02/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	11/02/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/01/2023	ND	184	92.0	200	1.92	
DRO >C10-C28*	<10.0	10.0	11/01/2023	ND	194	96.9	200	0.387	
EXT DRO >C28-C36	<10.0	10.0	11/01/2023	ND					

Surrogate: 1-Chlorooctane 85.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.2 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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



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

**Analytical Results For:**

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

Received:	10/31/2023	Sampling Date:	10/31/2023
Reported:	11/03/2023	Sampling Type:	Soil
Project Name:	CRAWFORD 27-26 FEE 1H (CRAWFORD)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EDDY CO NM		

**Sample ID: SW - 29 16' (H235960-40)**

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	11/02/2023	ND	2.00	100	2.00	1.27	
Toluene*	<0.050	0.050	11/02/2023	ND	2.04	102	2.00	0.774	
Ethylbenzene*	<0.050	0.050	11/02/2023	ND	2.04	102	2.00	1.12	
Total Xylenes*	<0.150	0.150	11/02/2023	ND	6.39	106	6.00	1.13	
Total BTEX	<0.300	0.300	11/02/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	11/02/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/01/2023	ND	184	92.0	200	1.92	
DRO >C10-C28*	<10.0	10.0	11/01/2023	ND	194	96.9	200	0.387	
EXT DRO >C28-C36	<10.0	10.0	11/01/2023	ND					

Surrogate: 1-Chlorooctane 80.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.2 % 49.1-148

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\*=Accredited Analyte

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



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

**Analytical Results For:**

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

Received:	10/31/2023	Sampling Date:	10/31/2023
Reported:	11/03/2023	Sampling Type:	Soil
Project Name:	CRAWFORD 27-26 FEE 1H (CRAWFORD)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EDDY CO NM		

**Sample ID: SW - 30 16' (H235960-41)**

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	11/01/2023	ND	2.01	100	2.00	2.54	
Toluene*	<0.050	0.050	11/01/2023	ND	2.06	103	2.00	3.86	
Ethylbenzene*	<0.050	0.050	11/01/2023	ND	2.05	103	2.00	3.85	
Total Xylenes*	<0.150	0.150	11/01/2023	ND	6.12	102	6.00	4.40	
Total BTEX	<0.300	0.300	11/01/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	11/02/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/01/2023	ND	184	92.0	200	1.92	
DRO >C10-C28*	<10.0	10.0	11/01/2023	ND	194	96.9	200	0.387	
EXT DRO >C28-C36	<10.0	10.0	11/01/2023	ND					

Surrogate: 1-Chlorooctane 76.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.3 % 49.1-148

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\*=Accredited Analyte

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



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

**Analytical Results For:**

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

Received:	10/31/2023	Sampling Date:	10/31/2023
Reported:	11/03/2023	Sampling Type:	Soil
Project Name:	CRAWFORD 27-26 FEE 1H (CRAWFORD)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EDDY CO NM		

**Sample ID: SW - 31 16' (H235960-42)**

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	11/01/2023	ND	2.01	100	2.00	2.54	
Toluene*	<0.050	0.050	11/01/2023	ND	2.06	103	2.00	3.86	
Ethylbenzene*	<0.050	0.050	11/01/2023	ND	2.05	103	2.00	3.85	
Total Xylenes*	<0.150	0.150	11/01/2023	ND	6.12	102	6.00	4.40	
Total BTEX	<0.300	0.300	11/01/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	11/02/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/01/2023	ND	184	92.0	200	1.92	
DRO >C10-C28*	<10.0	10.0	11/01/2023	ND	194	96.9	200	0.387	
EXT DRO >C28-C36	<10.0	10.0	11/01/2023	ND					

Surrogate: 1-Chlorooctane 70.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 64.4 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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



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

**Analytical Results For:**

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

Received:	10/31/2023	Sampling Date:	10/31/2023
Reported:	11/03/2023	Sampling Type:	Soil
Project Name:	CRAWFORD 27-26 FEE 1H (CRAWFORD)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EDDY CO NM		

**Sample ID: SW - 32 16' (H235960-43)**

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	11/01/2023	ND	2.01	100	2.00	2.54	
Toluene*	<0.050	0.050	11/01/2023	ND	2.06	103	2.00	3.86	
Ethylbenzene*	<0.050	0.050	11/01/2023	ND	2.05	103	2.00	3.85	
Total Xylenes*	<0.150	0.150	11/01/2023	ND	6.12	102	6.00	4.40	
Total BTEX	<0.300	0.300	11/01/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	11/02/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/01/2023	ND	184	92.0	200	1.92	
DRO >C10-C28*	<10.0	10.0	11/01/2023	ND	194	96.9	200	0.387	
EXT DRO >C28-C36	<10.0	10.0	11/01/2023	ND					

Surrogate: 1-Chlorooctane 76.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.6 % 49.1-148

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\*=Accredited Analyte

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



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

**Analytical Results For:**

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

Received:	10/31/2023	Sampling Date:	10/31/2023
Reported:	11/03/2023	Sampling Type:	Soil
Project Name:	CRAWFORD 27-26 FEE 1H (CRAWFORD)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EDDY CO NM		

**Sample ID: SW - 33 16' (H235960-44)**

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	11/01/2023	ND	2.01	100	2.00	2.54	
Toluene*	<0.050	0.050	11/01/2023	ND	2.06	103	2.00	3.86	
Ethylbenzene*	<0.050	0.050	11/01/2023	ND	2.05	103	2.00	3.85	
Total Xylenes*	<0.150	0.150	11/01/2023	ND	6.12	102	6.00	4.40	
Total BTEX	<0.300	0.300	11/01/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	11/02/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/01/2023	ND	184	92.0	200	1.92	
DRO >C10-C28*	<10.0	10.0	11/01/2023	ND	194	96.9	200	0.387	
EXT DRO >C28-C36	<10.0	10.0	11/01/2023	ND					

Surrogate: 1-Chlorooctane 73.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.9 % 49.1-148

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



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

**Analytical Results For:**

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

Received:	10/31/2023	Sampling Date:	10/31/2023
Reported:	11/03/2023	Sampling Type:	Soil
Project Name:	CRAWFORD 27-26 FEE 1H (CRAWFORD)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EDDY CO NM		

**Sample ID: SW - 34 16' (H235960-45)**

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	11/01/2023	ND	2.01	100	2.00	2.54	
Toluene*	<0.050	0.050	11/01/2023	ND	2.06	103	2.00	3.86	
Ethylbenzene*	<0.050	0.050	11/01/2023	ND	2.05	103	2.00	3.85	
Total Xylenes*	<0.150	0.150	11/01/2023	ND	6.12	102	6.00	4.40	
Total BTEX	<0.300	0.300	11/01/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	11/02/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/01/2023	ND	184	92.0	200	1.92	
DRO >C10-C28*	<10.0	10.0	11/01/2023	ND	194	96.9	200	0.387	
EXT DRO >C28-C36	<10.0	10.0	11/01/2023	ND					

Surrogate: 1-Chlorooctane 72.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.8 % 49.1-148

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\*=Accredited Analyte

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



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

Notes and Definitions

- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- \*\* Samples not received at proper temperature of 6°C or below.
- \*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C  
Samples reported on an as received basis (wet) unless otherwise noted on report

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



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 (575) 393-2326 FAX (575) 393-2476

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

**BILL TO**

**ANALYSIS REQUEST**

Company Name: **H&R ENTERPRISES**  
 Project Manager: **M. COUWER**  
 Address: \_\_\_\_\_  
 City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_  
 P.O. #: \_\_\_\_\_  
 Company: **CIMAREX**  
 Attn: **WACI LUIS**  
 Address: \_\_\_\_\_  
 City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_  
 Project #: \_\_\_\_\_  
 Project Owner: **CIMAREX**  
 Project Name: **CRAWFORD 27-26 FEE 1H (CRAWFORD)**  
 Project Location: **EDDY COUNTY, NM**  
 Sampler Name: **M. COUWER**  
 P. O. #: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_  
 Phone #: \_\_\_\_\_  
 Fax #: \_\_\_\_\_

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV	DATE	TIME	BTEx	TPH	CHLORIDES
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :						
H235960	1 S-1 12'	C	1			X						X	X	X	
	2 S-2 1'														
	3 S-3														
	4 S-4 14'														
	5 S-5 14'														
	6 S-6 6' to 6'														
	7 S-7 4'														
	8 S-8 1'														
	9 S-9														
	10 S-10 14'														

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Relinquished By: **M. Couwer** Date: **10-31-23** Time: **1335**  
 Received By: **[Signature]** Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Verbal Result:  Yes  No  Add'l Phone #: \_\_\_\_\_  
 All Results are emailed. Please provide Email address: \_\_\_\_\_  
 REMARKS: **P616F5 72-HR RUSH**

Delivered By: (Circle One) Observed Temp. °C **41.1** Sample Condition  Intact  Cool  Intact  Yes  No  Yes  No  
 Corrected Temp. °C \_\_\_\_\_  
 Checked By: **[Signature]**  
 Turnaround Time: \_\_\_\_\_ Standard  Bacteria (only)  Sample Condition   
 Thermometer ID: **#443** Rush  Cool Intact  Observed Temp. °C \_\_\_\_\_  
 Correction Factor: **#140**  Yes  No  Yes  No  Corrected Temp. °C \_\_\_\_\_  
 FORM 0001 R 3-9-07 11/02/22 **† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com**



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

**BILL TO**

**ANALYSIS REQUEST**

Company Name: \_\_\_\_\_ P.O. #: \_\_\_\_\_  
 Project Manager: \_\_\_\_\_ Company: \_\_\_\_\_  
 Address: \_\_\_\_\_ Attn: \_\_\_\_\_  
 City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_  
 Phone #: \_\_\_\_\_ Fax #: \_\_\_\_\_  
 Project #: *SEE PAGE 1* Project Owner: \_\_\_\_\_  
 Project Name: \_\_\_\_\_ City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_  
 Project Location: \_\_\_\_\_ Phone #: \_\_\_\_\_  
 Sampler Name: \_\_\_\_\_ Fax #: \_\_\_\_\_

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.	DATE	TIME	TPH	BTEX	CHLORIDES
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :						
<i>H235960</i>	<i>11 S-11 16'</i>	<i>C</i>	<i>1</i>			<i>X</i>						<i>X</i>	<i>X</i>	<i>X</i>	
	<i>12 SW-1 12'</i>	<i>C</i>	<i>1</i>									<i>X</i>	<i>X</i>	<i>X</i>	
	<i>13 SW-2</i>	<i>C</i>	<i>1</i>									<i>X</i>	<i>X</i>	<i>X</i>	
	<i>14 SW-3</i>	<i>C</i>	<i>1</i>									<i>X</i>	<i>X</i>	<i>X</i>	
	<i>15 SW-4</i>	<i>C</i>	<i>1</i>									<i>X</i>	<i>X</i>	<i>X</i>	
	<i>16 SW-5</i>	<i>C</i>	<i>1</i>									<i>X</i>	<i>X</i>	<i>X</i>	
	<i>17 SW-6</i>	<i>C</i>	<i>1</i>									<i>X</i>	<i>X</i>	<i>X</i>	
	<i>18 SW-7</i>	<i>C</i>	<i>1</i>									<i>X</i>	<i>X</i>	<i>X</i>	
	<i>19 SW-8</i>	<i>C</i>	<i>1</i>									<i>X</i>	<i>X</i>	<i>X</i>	
	<i>20 SW-9</i>	<i>C</i>	<i>1</i>									<i>X</i>	<i>X</i>	<i>X</i>	

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Relinquished By: *MJD/RLK*  
 Date: *10-31-23*  
 Time: *1335*  
 Received By: *[Signature]*  
 Date: \_\_\_\_\_  
 Time: \_\_\_\_\_

REMARKS: *PL 2075 72-HR RUSH*

Delivered By: (Circle One) Observed Temp. °C *411*  
 Sampler - UPS - Bus - Other: Corrected Temp. °C \_\_\_\_\_  
 Sample Condition: Cool Intact  Yes  No  
 Checked By: (Initials) *A-80*  
 Turnaround Time: \_\_\_\_\_ Standard  Bacteria (only) Sample Condition  
 Thermometer ID # *4137* *RUSH*  Cool Intact  Observed Temp. °C  
 Correction Factor *4996* *#1140*  Yes  No  No  No Corrected Temp. °C

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

**BILL TO**

**ANALYSIS REQUEST**

Company Name: \_\_\_\_\_ P.O. #: \_\_\_\_\_  
 Project Manager: \_\_\_\_\_ Company: \_\_\_\_\_  
 Address: \_\_\_\_\_ Attn: \_\_\_\_\_  
 City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_  
 Phone #: \_\_\_\_\_ Fax #: \_\_\_\_\_  
 Project #: \_\_\_\_\_ Project Owner: \_\_\_\_\_  
 Project Name: \_\_\_\_\_ City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_  
 Project Location: \_\_\_\_\_ Phone #: \_\_\_\_\_  
 Sampler Name: \_\_\_\_\_ Fax #: \_\_\_\_\_

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.	SAMPLING	DATE	TIME	TPH	BTEX	CHLORIDES
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :							
H335960																
21	SW-10 12'	C	1			X						10-31-23		X	X	X
22	SW-11 12'															
23	SW-12 14'															
24	SW-13															
25	SW-14															
26	SW-15															
27	SW-16															
28	SW-17															
29	SW-18															
30	SW-19															

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Relinquished By: \_\_\_\_\_ Date: 10-31-23 Received By: \_\_\_\_\_  
 Time: 1:35 PM Received By: \_\_\_\_\_

Delivered By: (Circle One) Observed Temp. °C 41/1 Sample Condition Cool Intact  Yes  No  
 Sampler - UPS - Bus - Other: Corrected Temp. °C  Yes  No

REMARKS: P6 3 of 5 72-HR RUSH  
 Verbal Result:  Yes  No Add'l Phone #: \_\_\_\_\_  
 All Results are emailed. Please provide Email address: \_\_\_\_\_  
 Turnaround Time: Standard  Bacteria (only) Sample Condition  Cool Intact Observed Temp. °C  
 Thermometer ID #4137 #140  Yes  No Corrected Temp. °C  
 Correction Factor #0.0  Yes  No



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

Company Name: _____ Project Manager: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____ Project #: _____ Project Owner: _____ Project Name: _____ Project Location: _____ Sampler Name: _____ FOR LAB USE ONLY		<b>BILL TO</b> P.O. #: _____ Company: _____ Attn: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____		<b>ANALYSIS REQUEST</b>	
Lab I.D. _____ Sample I.D. _____ HZ35960	(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER :	MATRIX PRESERV SAMPLING	DATE TIME	TPH BTEX CHLORIDES	
31 SW-20 14' 32 SW-21 14' 33 SW-22 6' 34 SW-23 1' 35 SW-24 1' 36 SW-25 4' 37 SW-26 1' 38 SW-27 1' 39 SW-28 1' 40 SW-29 14'	C I I I I I I I I I I	X X X X X X X X X X	10-31-23 10-31-23 10-31-23 10-31-23 10-31-23 10-31-23 10-31-23 10-31-23 10-31-23 10-31-23 10-31-23	X X X X X X X X X X	

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Relinquished By: MJP/ALL Date: 10-31-23 Received By: [Signature] Date: 10-31-23  
 Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Received By: \_\_\_\_\_ Date: \_\_\_\_\_

Delivered By: (Circle One) Observed Temp. °C \_\_\_\_\_ Corrected Temp. °C \_\_\_\_\_  
 Sampler - UPS - Bus - Other: \_\_\_\_\_

Sample Condition: Cool  Intact   
 Yes  No  Yes  No

Checked By: (Initials) [Signature]

REMARKS: PG 46F5 72-HR RUSH  
 Turnaround Time: \_\_\_\_\_  
 Thermometer ID #444- RUSH Standard  Bacteria (only) Sample Condition  
 Correction Factor #1440  Cool Intact  Observed Temp. °C  
 Yes  No  Yes  No  Corrected Temp. °C

FOR CARDINAL USE ONLY: \_\_\_\_\_

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

Company Name:		P.O. #:		<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>	
Project Manager:		Company:					
Address:		Attn:					
City:		Address:					
Phone #:		City:					
Project #:		State:					
Project Name:		Phone #:					
Project Location:		Fax #:					
Sampler Name:		SAMPLING					
FOR LAB USE ONLY		PRESERV					
Lab I.D.		MATRIX					
Sample I.D.		GROUNDWATER					
		WASTEWATER					
		SOIL					
		OIL					
		SLUDGE					
		OTHER :					
		ACID/BASE:					
		ICE / COOL					
		OTHER :					
		DATE					
		TIME					
		TPH					
		BTEX					
		CHLORIDES					

*Handwritten notes in table:*  
 H235-960  
 41 SW-30 16'  
 42 SW-31  
 43 SW-32  
 44 SW-33  
 45 SW-34  
 (G)RAB OR (C)OMP. C I  
 # CONTAINERS I I  
 MATRIX X  
 PRESERV X  
 DATE 10-31-23  
 TIME  
 TPH X X X  
 BTEX  
 CHLORIDES

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Relinquished By: *M. L. Bell*  
 Date: 10-31-23  
 Time: 13:35  
 Received By: *[Signature]*  
 Date:   
 Time:   
 Received By: *[Signature]*

Delivered By: (Circle One) Observed Temp. °C *4.1*  
 Cooler Intact  Yes  No  
 Sample Condition  Intact  Cool  Yes  No  
 Checked BY: (Initials) *[Signature]*  
 Turnaround Time: *PL 50F5*  
 Standard  *72-HR RUSH*  
 Bacteria (only)  *RUSH*  
 Cool Intact  Yes  No  
 Sample Condition  Observed Temp. °C  
 Corrected Temp. °C

**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 290193

**CONDITIONS**

Operator: CIMAREX ENERGY CO. 6001 Deauville Blvd Midland, TX 79706	OGRID: 215099
	Action Number: 290193
	Action Type: [C-141] Release Corrective Action (C-141)

**CONDITIONS**

Created By	Condition	Condition Date
scott.rodgers	None	12/1/2023