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Soil Remediation Closure Report and Deferral Request

Hornsby 35 Federal CTB
Incident# nAPP2417870294
Eddy County, New Mexico

Prepared For:

Cimarex Energy Co.
6001 Deauville Blvd.
Midland, TX 79706

Prepared By:

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

January 9, 2025

Mr. Mike Bratcher
New Mexico Oil Conservation District
1220 S. St. Francis Dr.
Santa Fe, NM 87505

Subject: **Soil Remediation Closure Report and Deferral Request**
Hornsby 35 Federal CTB
Eddy County, NM

Dear Mr. Bratcher,

Cimarex Energy Co. has contracted H&R Enterprises (H&R) to perform soil remediation services at the above-referenced location. Our proposed soil remediation activities are contained herein.

Site Information

The Hornsby 35 Federal CTB is located approximately 26 miles South of Loving, New Mexico. The legal location for this well pad is Unit Letter F, Section 35, Township 26 South and Range 27 East in Eddy County, New Mexico. More specifically the latitude and longitude for the release are 32.000428 North and -104.163516 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 Ector-Reagan association, 0 to 9 percent slopes. Drainage courses in this area are typically dry. The project site is in a high Karst potential area.

Groundwater and Site Characterization

The New Mexico Office of the State Engineer web site indicates that the nearest reported average depth to groundwater is 55-feet below ground surface (BGS).

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

Approximate Depth to Groundwater

55 Feet/BGS

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

Due to groundwater data being outside the recommended 0.5-mile radius, a groundwater determination bore was drilled on site to a depth of 60-feet BGS, and water was gauged at a static level of 55-feet BGS. As this project is in a high Karst area, 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 06, 2024, it was discovered that a 4-inch poly line leaving the facility over pressurized causing a hole to form on the poly line. This hole allowed the release of 110 barrels (bbls) of produced water to be released into the lined containment, onto the well pad, behind the containment, and onto another well pad. Of the 110 bbls released approximately 10 bbls were recovered.

Soil Assessment Activities

H&R mobilized equipment and personnel to perform soil assessment activities of the release area. Grab samples were collected from the release area and transported to Cardinal Laboratory for BTEX, TPH, and Chloride analysis. The results of that analysis are presented in the table below. Soil assessment sample locations are illustrated on the Soil Assessment Map, [Appendix I](#). Photographic documentation of each sample point can be found in [Appendix IV](#). A complete laboratory report can be found in [Appendix V](#).

Table 1: Soil Assessment Sample Results

Sample ID	Sample Date	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg
NMOCD Table 1 Closure Criteria 19.15.29 NMAC			50 mg/kg	10 mg/kg	100 mg/kg			100 mg/kg	600 mg/kg
BH-1	9/11/2024	0-1'	ND	ND	ND	66.6	ND	66.6	23600
		2'	ND	ND	ND	ND	ND	0	704
		3'	ND	ND	ND	ND	ND	0	272
		4'	ND	ND	ND	ND	ND	0	208
BH-2	9/11/2024	0-1'	ND	ND	ND	376	128	504	6400
		2'	ND	ND	ND	ND	ND	0	960
		3'	ND	ND	ND	ND	ND	0	1040
		4'	ND	ND	ND	ND	ND	0	64
BH-3	9/11/2024	0-1'	ND	ND	ND	14.7	ND	14.7	20800
		2'	ND	ND	ND	ND	ND	0	976
		3'	ND	ND	ND	ND	ND	0	192
		4'	ND	ND	ND	ND	ND	0	96
BH-4	9/11/2024	0-1'	ND	ND	ND	ND	ND	0	3280
		2'	ND	ND	ND	ND	ND	0	112
		3'	ND	ND	ND	ND	ND	0	144
		4'	ND	ND	ND	ND	ND	0	160
BH-5	9/11/2024	0-1'	ND	ND	ND	ND	ND	0	8800
		2'	ND	ND	ND	ND	ND	0	528
		3'	ND	ND	ND	ND	ND	0	176
		4'	ND	ND	ND	ND	ND	0	176
BH-6	9/11/2024	0-1'	ND	ND	ND	ND	ND	0	6100
		2'	ND	ND	ND	ND	ND	0	288
		3'	ND	ND	ND	ND	ND	0	176
		4'	ND	ND	ND	ND	ND	0	160

ND = Analyte Not Detected BH = Vertical Bore Hole Sample Point

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
H-1	9/11/2024	0-1'	ND	ND	ND	ND	ND	0	96
H-2	9/11/2024	0-1'	ND	ND	ND	ND	ND	0	96
H-3	9/11/2024	0-1'	ND	ND	ND	ND	ND	0	64
H-4	9/11/2024	0-1'	ND	ND	ND	ND	ND	0	80
H-5	9/11/2024	0-1'	ND	ND	ND	ND	ND	0	64
H-6	9/11/2024	0-1'	ND	ND	ND	ND	ND	0	64
H-7	9/11/2024	0-1'	ND	ND	ND	ND	ND	0	80
H-8	9/11/2024	0-1'	ND	ND	ND	ND	ND	0	80
H-9	9/11/2024	0-1'	ND	ND	ND	ND	ND	0	80
H-10	9/11/2024	0-1'	ND	ND	ND	ND	ND	0	80
H-11	9/11/2024	0-1'	ND	ND	ND	ND	ND	0	80
H-12	9/11/2024	0-1'	ND	ND	ND	ND	ND	0	80
H-13	9/11/2024	0-1'	ND	ND	ND	ND	ND	0	64
H-14	9/11/2024	0-1'	ND	ND	ND	ND	ND	0	80
H-15	9/11/2024	0-1'	ND	ND	ND	ND	ND	0	80
H-16	9/11/2024	0-1'	ND	ND	ND	ND	ND	0	80
H-17	9/11/2024	0-1'	ND	ND	ND	ND	ND	0	48
H-18	9/11/2024	0-1'	ND	ND	ND	ND	ND	0	48

ND = Analyte Not Detected H = Horizontal Sample Point

Based on the results of our soil assessment, remediation was required at all sample locations.

Deferral Request

Due to an active oil line coming into the tank containment at BH-1 as well as some contaminants leeching into the soil underneath the active central tank battery containment, Cimarex Energy Co. is requesting a deferral for these areas (Deferral Area Map, [Appendix I](#)) until closure of the facility. Cimarex Energy Co. does not believe this deferment will result in imminent risk to human health, the environment, or groundwater. Remediation of these areas would cause the removal of all the equipment and buried active oil lines resulting in complete shut down of multiple wells and tank facilities for a long period of time. All soil assessment sample locations were vertically delineated and all contaminants outside the containment excluding BH-1 have been removed. Our soil remediation activities in the areas near BH-2 through BH-6 are outlined below.

Soil Remediation Activities

- The impacted area near BH-2 was excavated to a depth of 4-foot BGS.
- The impacted area near BH-3 was excavated to a depth of 3-foot BGS.
- The impacted areas near BH-4 through BH-6 were excavated to depth of 2-foot BGS.
- Composite confirmation samples were collected from the bottom and sidewalls of the excavated areas every 200-square foot and laboratory analyzed to confirm closure criteria have been met. See table below for confirmation sample results. See the Bottom Confirmation Sample Map and Sidewall Confirmation Sample Map for confirmation sample locations and excavation dimensions, [Appendix I](#).
- All contaminated material (340 cu.yds) were hauled to Lea Land, an NMOCD approved solid waste disposal.
- All excavated areas were backfilled with clean caliche, machine compacted and brought up to grade.
- GPS tagged photographic documentation of the remediation and backfill phases can be found in [Appendix IV](#).

Table 2: Composite Confirmation Sample Results

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	12/20/2024	2'	ND	ND	ND	ND	ND	0	160
S-2	12/20/2024	2'	ND	ND	ND	ND	ND	0	128
S-3	12/20/2024	2'	ND	ND	ND	ND	ND	0	176
S-4	12/20/2024	2'	ND	ND	ND	ND	ND	0	16
S-5	12/20/2024	2'	ND	ND	ND	ND	ND	0	16
S-6	12/20/2024	2'	ND	ND	ND	ND	ND	0	192
S-7	12/20/2024	2'	ND	ND	ND	ND	ND	0	176
S-8	12/20/2024	2'	ND	ND	ND	ND	ND	0	16
S-9	12/20/2024	2'	ND	ND	ND	ND	ND	0	16
S-10	12/20/2024	2'	ND	ND	ND	ND	ND	0	192
S-11	12/20/2024	2'	ND	ND	ND	ND	ND	0	16
S-12	12/20/2024	2'	ND	ND	ND	ND	ND	0	176
S-13	12/20/2024	2'	ND	ND	ND	ND	ND	0	208
S-14	12/20/2024	2'	ND	ND	ND	ND	ND	0	16
S-15	12/20/2024	2'	ND	ND	ND	ND	ND	0	32
S-16	12/20/2024	2'	ND	ND	ND	ND	ND	0	32
S-17	12/20/2024	3'	ND	ND	ND	ND	ND	0	192
S-18	12/20/2024	3'	ND	ND	ND	ND	ND	0	176
S-19	12/20/2024	4'	ND	ND	ND	ND	ND	0	208
S-20	12/20/2024	4'	ND	ND	ND	ND	ND	0	160
SW-1	12/20/2024	2'	ND	ND	ND	ND	ND	0	224
SW-2	12/20/2024	2'	ND	ND	ND	ND	ND	0	176
SW-3	12/20/2024	2'	ND	ND	ND	ND	ND	0	32
SW-4	12/20/2024	2'	ND	ND	ND	ND	ND	0	192
SW-5	12/20/2024	2'	ND	ND	ND	ND	ND	0	192
SW-6	12/20/2024	2'	ND	ND	ND	ND	ND	0	208
SW-7	12/20/2024	2-3'	ND	ND	ND	ND	ND	0	192
SW-8	12/20/2024	3'	ND	ND	ND	ND	ND	0	208
SW-9	12/20/2024	3'	ND	ND	ND	ND	ND	0	176
SW-10	12/20/2024	3'	ND	ND	ND	ND	ND	0	224
SW-11	12/20/2024	3'	ND	ND	ND	ND	ND	0	208
SW-12	12/20/2024	3-4'	ND	ND	ND	ND	ND	0	208
SW-13	12/20/2024	4'	ND	ND	ND	ND	ND	0	160
SW-14	12/20/2024	4'	ND	ND	ND	ND	ND	0	192
SW-15	12/20/2024	4'	ND	ND	ND	ND	ND	0	176
SW-16	12/20/2024	4'	ND	ND	ND	ND	ND	0	176
SW-17	12/20/2024	4'	ND	ND	ND	ND	ND	0	208

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

Closure

Based on the results of our soil assessment, soil remediation, and confirmation sampling results, on behalf of Cimarex Energy Co., we request that this soil remediation closure report and deferral request be approved.

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

Respectfully submitted,

H&R Enterprises, LLC

Michael Collier

Michael Collier
Environmental Project Manager

Attachments:

Appendix I Site Plans

Appendix II Groundwater Data, Groundwater Determination Bore Information, Soil Survey

Appendix III NMOCD Correspondence

Appendix IV Photographic Documentation

Appendix V Laboratory Report.

APPENDIX I

SITE MAPS

KARST POTENTIAL MAP

TOPOGRAPHIC MAP

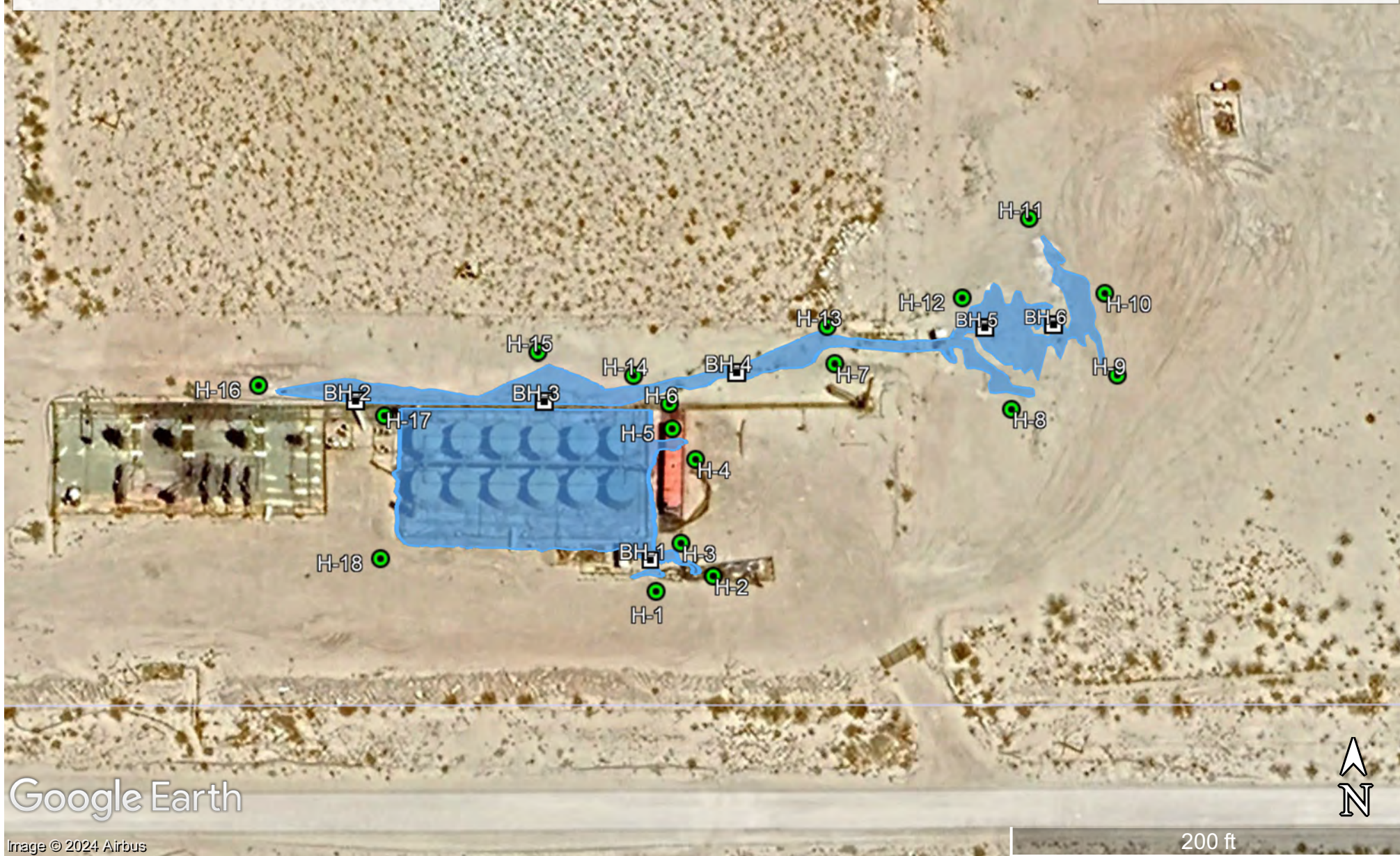
LOCATOR MAP

Hornsby 35 Federal CTB

Cimarex Energy Co.
Incident# nAPP2417870294
Eddy County, NM
Site Assessment Map

Legend

- Horizontal Sample Point
- Release Area
- Vertical Sample Point



Hornsby 35 Federal Com CTB

Cimarex Energy Co.
Incident# nAPP2417870294
Eddy County, NM
Bottom Confirmation Sample Map

Legend





- 2ft. Excavation
- 3ft. Excavation
- 4ft. Excavation
- Bottom Composite Confirmation Sample



Hornsby 35 Federal Com CTB

Cimarex Energy Co.
Incident# nAPP2417870294
Eddy County, NM
Sidewall Confirmation Sample Map

Legend

-  2ft. Excavation
-  3ft. Excavation
-  4ft. Excavation
-  Sidewall Composite Confirmation Sample




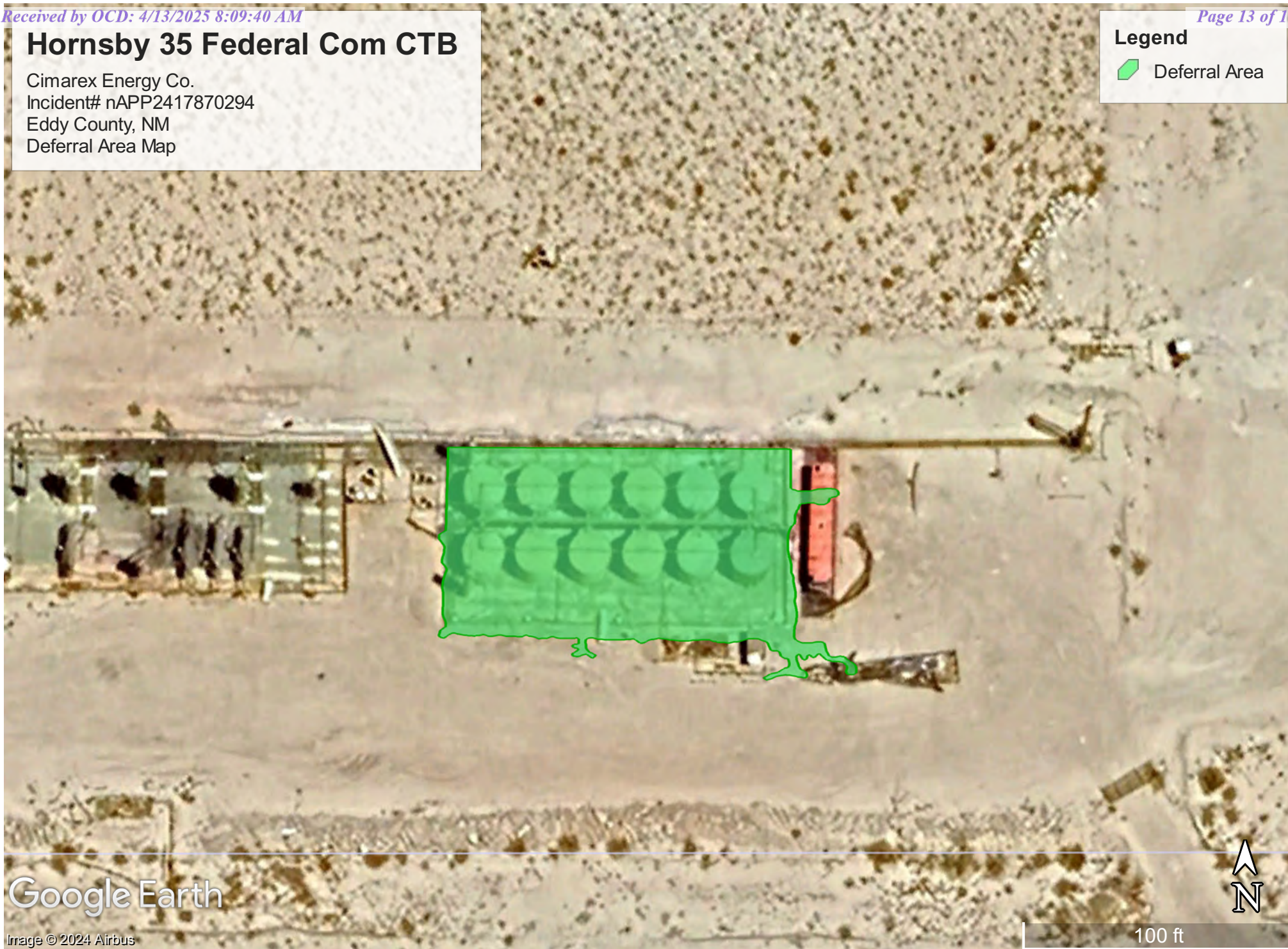
Google Earth

Image © 2024 Airbus

Hornsby 35 Federal Com CTB

Cimarex Energy Co.
Incident# nAPP2417870294
Eddy County, NM
Deferral Area Map

Legend
 Deferral Area



Google Earth





Image © 2024 Airbus

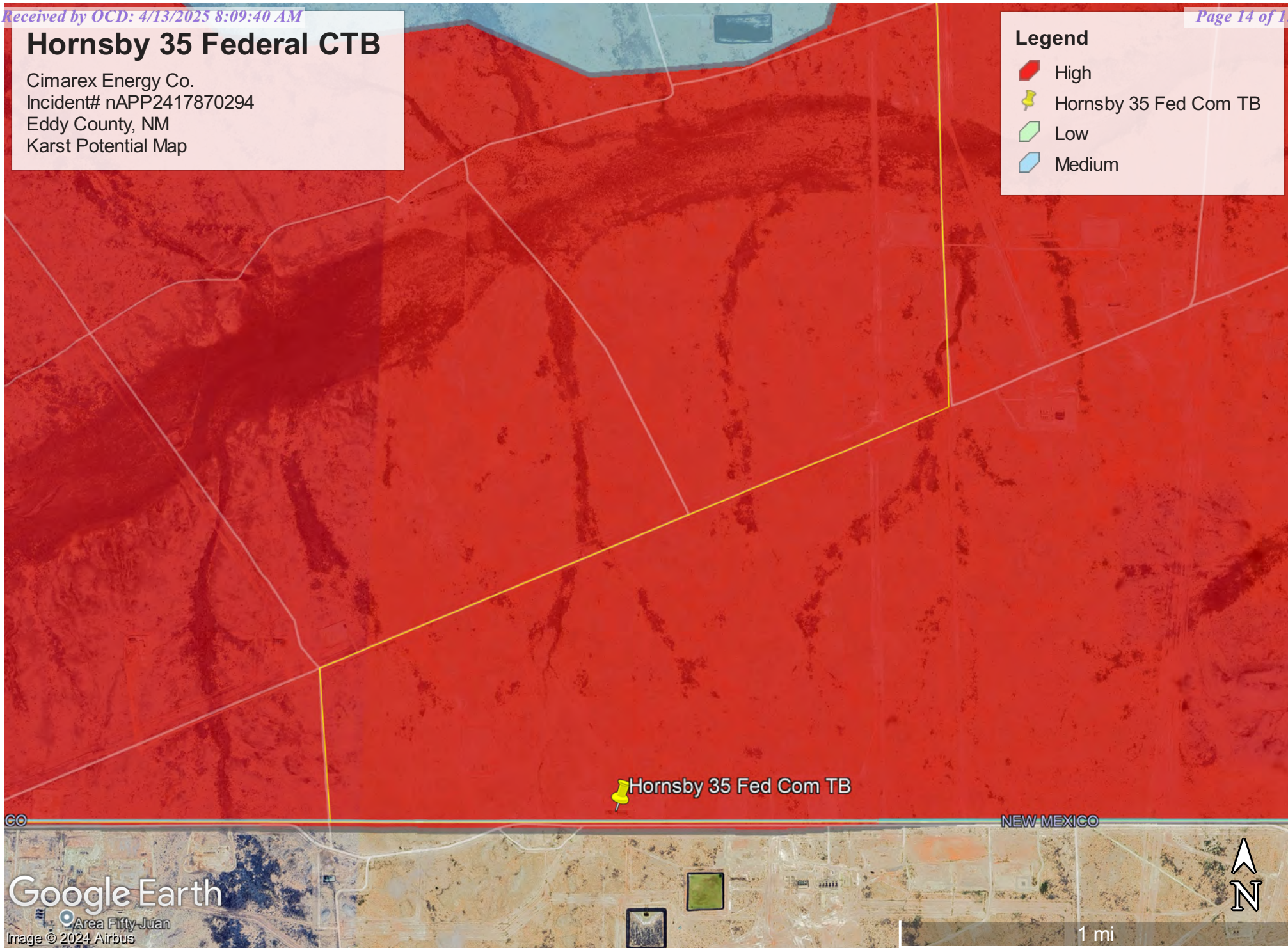
100 ft

Hornsby 35 Federal CTB

Cimarex Energy Co.
Incident# nAPP2417870294
Eddy County, NM
Karst Potential Map

Legend


-  High
-  Hornsby 35 Fed Com TB
-  Low
-  Medium

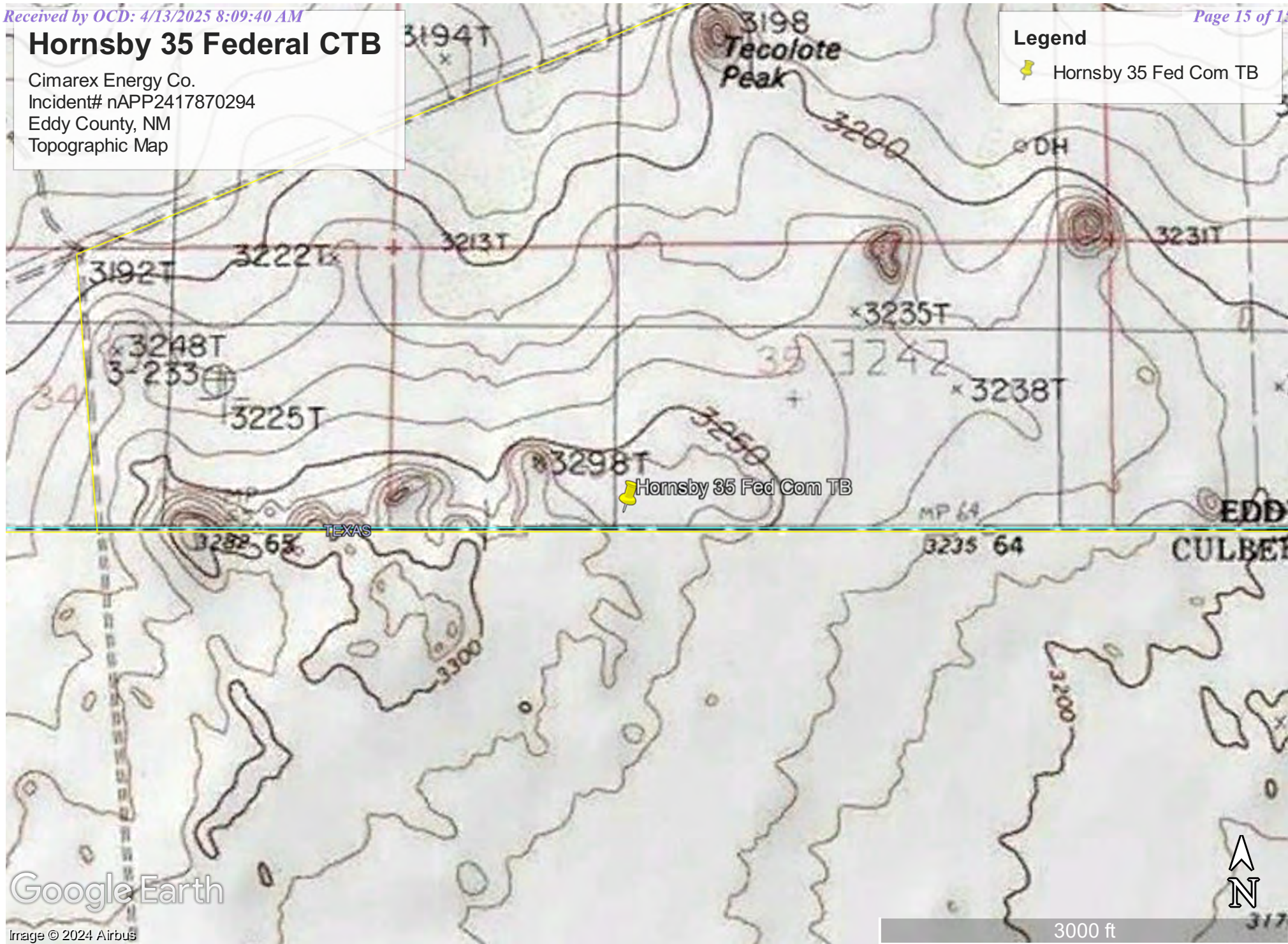


Hornsby 35 Federal CTB

Cimarex Energy Co.
Incident# nAPP2417870294
Eddy County, NM
Topographic Map

Legend


 Hornsby 35 Fed Com TB

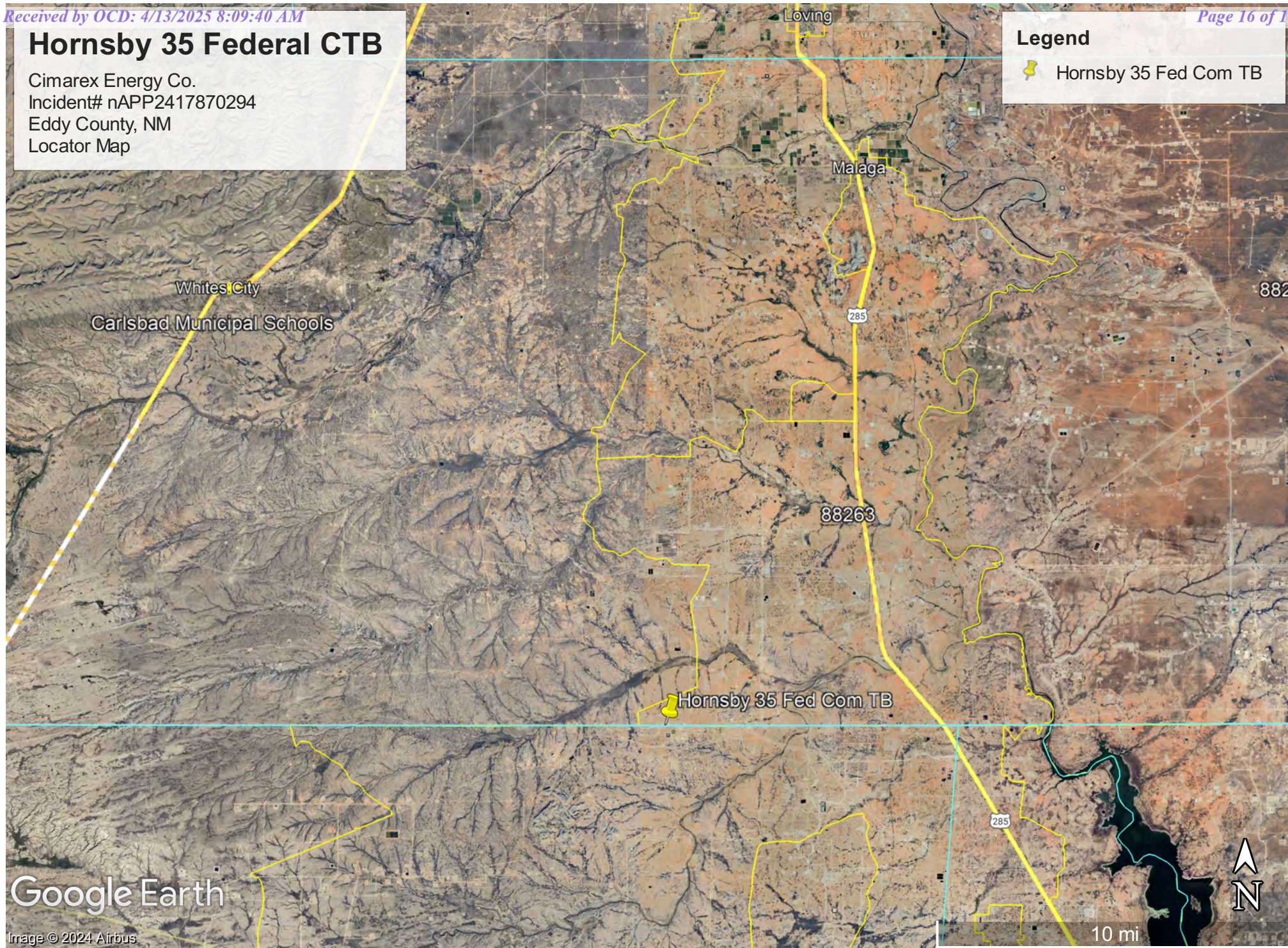


Hornsby 35 Federal CTB

Cimarex Energy Co.
Incident# nAPP2417870294
Eddy County, NM
Locator Map

Legend

 Hornsby 35 Fed Com TB



APPENDIX II

GROUNDWATER DATA

SOIL SURVEY

FEMA FLOOD ZONE

**GROUNDWATER
DETERMINATION BORE
PERMIT**

Water Column/Average Depth to Water

(AOLW##### 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 smallest to largest)

(NAD83 UTM in me

POD Number	Code	Sub basin	County	Q64	Q16	Q4	Sec	Tws	Range	X
C 04873 POD1		CUB	ED	SW	SE	SW	35	26S	27E	579042.0 354
C 02930		C	ED	NE	SW	SE	22	26S	27E	577938.0 354
C 02476		CUB	ED		SE	NW	24	26S	27E	580653.0 354
C 02475		CUB	ED		NE	SE	13	26S	27E	581450.0 354
C 04466 POD1		CUB	ED	SW	SW	NE	29	26S	28E	584327.2 354
C 04573 POD1		CUB	ED	SW	NW	NW	11	26S	27E	578524.4 354
C 04573 POD2		CUB	ED	SW	NW	NW	11	26S	27E	578564.6 354
C 04573 POD3		CUB	ED	SE	NW	NW	11	26S	27E	578583.5 354
C 02474		CUB	ED		SE	SW	02	26S	27E	578964.0 354
C 04875 POD1		CUB	ED	SW	NE	SE	24	26S	26E	571604.1 354
C 04269 POD1		CUB	ED	SE	NE	SW	18	26S	27E	572620.2 354
C 02219		CUB	ED	SE	SE	SE	05	26S	27E	575033.0 354
C 02160 S7		CUB	ED	SW	SW	NW	22	26S	28E	586638.0 354

C 04881.POD1	CUB	ED	NW	SE	NW	25	26S	26E	570792.2	354
C 02218	CUB	ED	SE	NW	SE	07	26S	27E	573039.0	354
C 02588	C	ED	SW	SE	SW	33	25S	27E	575645.0	354
C 04022.POD2	CUB	ED	NE	NE	NE	27	26S	28E	588106.4	354
C 02478	CUB	ED		NE	NW	05	26S	28E	583848.0	354
C 04079.POD1	CUB	ED	NW	NE	SW	33	25S	27E	575658.4	355
C 02438	CUB	ED	SE	NE	SW	12	26S	26E	571015.0	354



RecordCount: 20

Basin/County Search:

County: ED

UTM Filters (in meters):

Easting: 578982.71

Northing: 3540784.63

Radius: 10000

* 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.

10/2/24 1:14 PM MST Water Column/Average Depth to Water

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

Eddy Area, New Mexico

ER—Ector-Reagan association, 0 to 9 percent slopes

Map Unit Setting

National map unit symbol: 1w4d

Elevation: 1,100 to 5,400 feet

Mean annual precipitation: 6 to 18 inches

Mean annual air temperature: 58 to 70 degrees F

Frost-free period: 180 to 240 days

Farmland classification: Not prime farmland

Map Unit Composition

Ector and similar soils: 65 percent

Reagan and similar soils: 25 percent

Minor components: 10 percent

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

Description of Ector

Setting

Landform: Ridges, hills

Landform position (two-dimensional): Shoulder, backslope, footslope, toeslope

Landform position (three-dimensional): Side slope, head slope, nose slope, crest

Down-slope shape: Convex

Across-slope shape: Linear

Parent material: Residuum weathered from limestone

Typical profile

H1 - 0 to 6 inches: very cobbly loam

H2 - 6 to 60 inches: bedrock

Properties and qualities

Slope: 0 to 9 percent

Depth to restrictive feature: 4 to 20 inches to lithic bedrock

Drainage class: Well drained

Runoff class: Medium

Capacity of the most limiting layer to transmit water

(Ksat): Moderately low to high (0.06 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: 60 percent

Maximum salinity: Nonsaline to slightly saline (0.0 to 4.0 mmhos/cm)

Sodium adsorption ratio, maximum: 1.0

Available water supply, 0 to 60 inches: Very low (about 0.5 inches)

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

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7s

Hydrologic Soil Group: D

Ecological site: R042CY158NM - Very Shallow

Hydric soil rating: No

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 32 inches: loam

H3 - 32 to 60 inches: clay 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: 50 percent

Gypsum, maximum content: 20 percent

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

Sodium adsorption ratio, maximum: 15.0

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

Interpretive groups

Land capability classification (irrigated): 2e

Land capability classification (nonirrigated): 6e

Hydrologic Soil Group: B

Ecological site: R070BC007NM - Loamy

Hydric soil rating: No

Minor Components**Ector**

Percent of map unit: 4 percent

Ecological site: R042CY158NM - Very Shallow

Hydric soil rating: No

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

Pima

Percent of map unit: 3 percent

Ecological site: R070BC017NM - Bottomland

Hydric soil rating: No

Upton

Percent of map unit: 3 percent

Ecological site: R070BC025NM - Shallow

Hydric soil rating: No

Data Source Information



Soil Survey Area: Eddy Area, New Mexico

Survey Area Data: Version 20, Sep 3, 2024

Hornsby 35 Federal CTB

Cimarex Energy Co.
Incident# nAPP2417870294
Eddy County, NM
Water Bore Map

Legend

-  Groundwater Determination Bore
-  Hornsby 35 Fed Com TB





WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.)		WELL TAG ID NO.		OSE FILE NO(S).		
	WELL OWNER NAME(S)				PHONE (OPTIONAL)		
	WELL OWNER MAILING ADDRESS				CITY	STATE	ZIP
	WELL LOCATION (FROM GPS)	DEGREES		MINUTES	SECONDS	* ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84	
		LATITUDE		N	W		
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE							

2. DRILLING & CASING INFORMATION	LICENSE NO.		NAME OF LICENSED DRILLER			NAME OF WELL DRILLING COMPANY		
	DRILLING STARTED		DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)		
	COMPLETED WELL IS:		ARTESIAN *add Centralizer info below	DRY HOLE	SHALLOW (UNCONFINED)	STATIC WATER LEVEL IN COMPLETED WELL (FT)	DATE STATIC MEASURED	
	DRILLING FLUID:		AIR	MUD	ADDITIVES – SPECIFY:			
	DRILLING METHOD:		ROTARY	HAMMER	CABLE TOOL	OTHER – SPECIFY:	CHECK HERE IF PITLESS ADAPTER IS INSTALLED	
	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						

3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE- RANGE BY INTERVAL <i>*(if using Centralizers for Artesian wells- indicate the spacing below)</i>	AMOUNT (cubic feet)	METHOD OF PLACEMENT
	FROM	TO				

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 09/22/2022)

FILE NO.

POD NO.

TRN NO.

LOCATION

WELL TAG ID NO.

PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)	
	FROM	TO					
					<input type="checkbox"/> Y <input type="checkbox"/> N		
					<input type="checkbox"/> Y <input type="checkbox"/> N		
					<input type="checkbox"/> Y <input type="checkbox"/> N		
					<input type="checkbox"/> Y <input type="checkbox"/> N		
					<input type="checkbox"/> Y <input type="checkbox"/> N		
					<input type="checkbox"/> Y <input type="checkbox"/> N		
					<input type="checkbox"/> Y <input type="checkbox"/> N		
					<input type="checkbox"/> Y <input type="checkbox"/> N		
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					<input type="checkbox"/> Y <input type="checkbox"/> N		
					<input type="checkbox"/> Y <input type="checkbox"/> N		
					<input type="checkbox"/> Y <input type="checkbox"/> N		
					<input type="checkbox"/> Y <input type="checkbox"/> N		
					<input type="checkbox"/> Y <input type="checkbox"/> N		
	METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: PUMP AIR LIFT BAILER OTHER – SPECIFY:				TOTAL ESTIMATED WELL YIELD (gpm):		
	5. TEST; RIG SUPERVISION	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.				
		MISCELLANEOUS INFORMATION:					
PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:							
6. SIGNATURE	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING:						
	SIGNATURE OF DRILLER / PRINT SIGNEE NAME					DATE	

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 09/22/2022)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 2 OF 2

National Flood Hazard Layer FIRMMette



104°10'7"W 32°0'17"N



Released to Imaging: 4/14/2025 10:09:11 AM

1:6,000

104°9'30"W 31°59'46"N

Basemap Imagery Source: USGS National Map 2023

Legend

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

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone D
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
		Area of Undetermined Flood Hazard Zone D
GENERAL STRUCTURES		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5 Cross Sections with 1% Annual Chance Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
MAP PANELS		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 1/9/2025 at 3:54 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

APPENDIX III

NMOCD CORRESPONDENCE

OCD Permitting

Home Operator Data Action Status Action Search Results Action Status Item Details

[C-141] Release Corrective Action (C-141) Application

Submission Information

Submission ID:	360094	Districts:	Artesia
Operator:	[215099] CIMAREX ENERGY CO.	Counties:	Eddy
Description:	CIMAREX ENERGY CO. [215099] , Hornsby 35 Federal CTB , nAPP2417870294		
Status:	APPROVED		
Status Date:	07/01/2024		
References (2):	fAPP2201338838, nAPP2417870294		

Forms

Attachments: [Volume Calculation](#)

Questions

Prerequisites

Incident ID (n#)	nAPP2417870294
Incident Name	NAPP2417870294 HORNSBY 35 FEDERAL CTB @ 0
Incident Type	Produced Water Release
Incident Status	Initial C-141 Received
Incident Facility	[fAPP2201338838] Hornsby 35 Fed-2H, 3H, 4H-7H, 8H, 10H

Location of Release Source

Please answer all the questions in this group.

Site Name	Hornsby 35 Federal CTB
Date Release Discovered	06/25/2024
Surface Owner	Federal

Incident Details

Please answer all the questions in this group.

Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release

Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.

Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Equipment Failure Pipeline (Any) Produced Water Released: 110 BBL Recovered: 10 BBL Lost: 100 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	A 4" surface poly line leaving the facility over pressurized due to an improper kill setting on the water transfer pump, causing a hole to form in the poly line. This resulted in a release of 110 barrels produced water onto the well pad, behind the lined containment and then flowed down onto another well pad. Impacted soils will be scheduled for remediation in the coming weeks.

Nature and Volume of Release (continued)

Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major	From paragraph A. "Major release" determine using:

With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.

Initial Response

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

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission.

If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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.

I hereby agree and sign off to the above statement	No
--	----

Site Characterization

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). 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 in feet below ground surface (ft bgs)	Not answered.
What method was used to determine the depth to ground water	Not answered.
Did this release impact groundwater or surface water	Not answered.

What is the minimum distance, between the closest lateral extents of the release and the following surface areas:

A continuously flowing watercourse or any other significant watercourse	Not answered.
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Not answered.
An occupied permanent residence, school, hospital, institution, or church	Not answered.
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Not answered.
Any other fresh water well or spring	Not answered.
Incorporated municipal boundaries or a defined municipal fresh water well field	Not answered.
A wetland	Not answered.
A subsurface mine	Not answered.
An (non-karst) unstable area	Not answered.
A karst geology	Not answered.

A 100-year floodplain

Did the release impact areas not on an exploration, development, production, or storage site

Not answered.

Not answered.

Remediation Plan

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

Requesting a remediation plan approval with this submission

No

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

Acknowledgments

This submission type does not have acknowledgments, at this time.

Comments

No comments found for this submission.

Conditions

Summary:

scwells (7/1/2024), Condition of approval: Laci Luig acknowledged through email that the Initial Response section was meant to be signed.

ramlet (7/1/2024), None

Reasons

No reasons found for this submission.

From: OCDOnline@state.nm.us
To: [DL Permian Environmental](#)
Subject: [EXTERNAL] The Oil Conservation Division (OCD) has accepted the application, Application ID: 413100
Date: Tuesday, December 17, 2024 4:14:24 PM

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

To whom it may concern (c/o Laci Luig for CIMAREX ENERGY CO.),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2417870294.

The sampling event is expected to take place:

When: 12/20/2024 @ 08:00

Where: F-35-26S-27E 0 FNL 0 FEL (32.0003,-104.16381)

Additional Information: Contact Michael Collier with H&R Enterprises 575-909-0326

Additional Instructions: GPS Coordinates 32.00030, -104.16381

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department

1220 South St. Francis Drive

Santa Fe, NM 87505

APPENDIX IV

PHOTOGRAPHIC DOCUMENTATION

PHOTOGRAPHIC DOCUMENTATION

SITE ASSESSMENT SAMPLE POINT PHOTOGRAPHS



BH-1



BH-2

PHOTOGRAPHIC DOCUMENTATION



BH-3



BH-4

PHOTOGRAPHIC DOCUMENTATION



BH-5

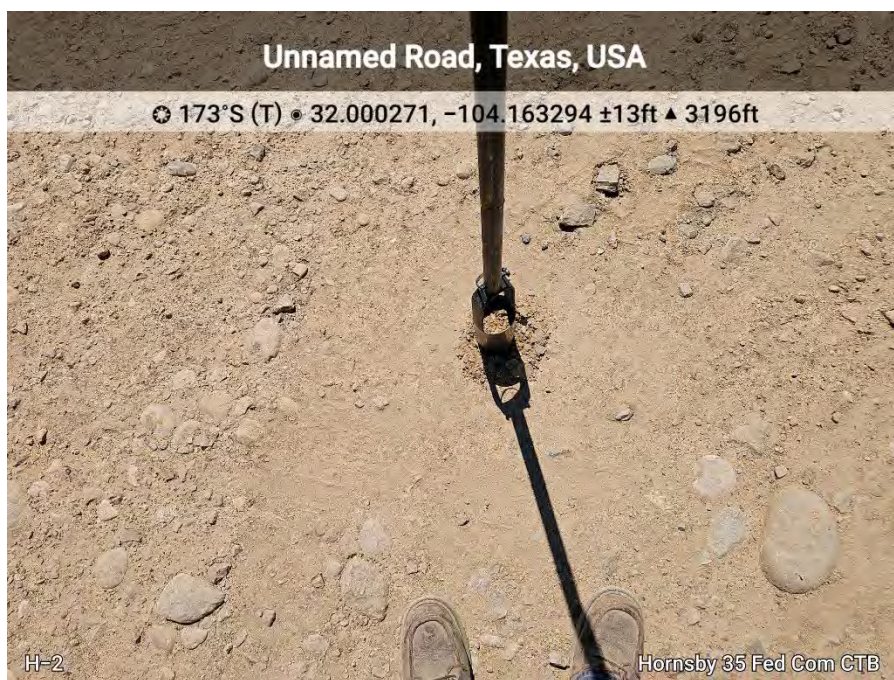


BH-6

PHOTOGRAPHIC DOCUMENTATION



H-1



H-2

PHOTOGRAPHIC DOCUMENTATION



H-3



H-4

PHOTOGRAPHIC DOCUMENTATION

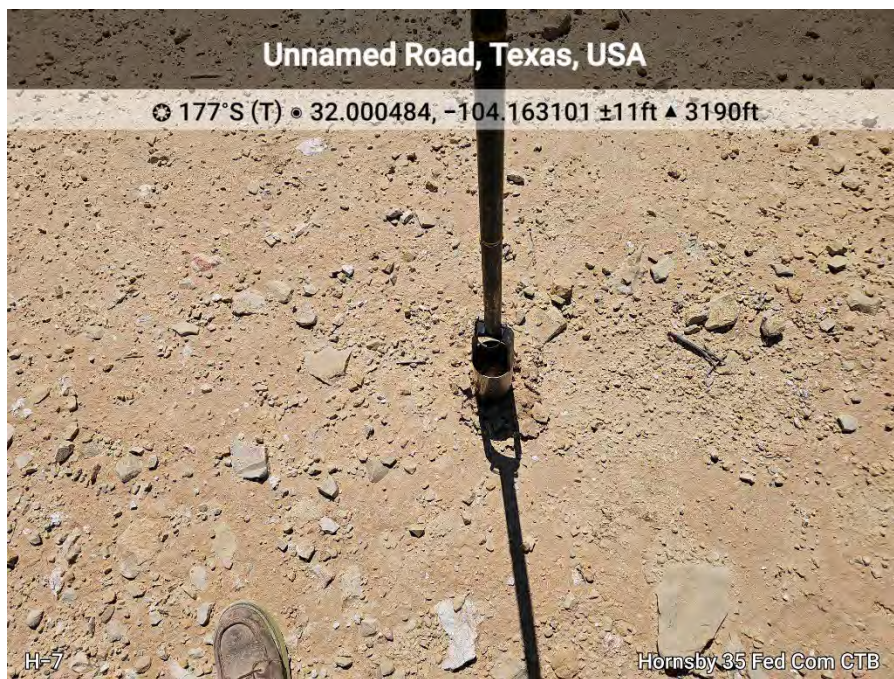


H-5



H-6

PHOTOGRAPHIC DOCUMENTATION



H-7

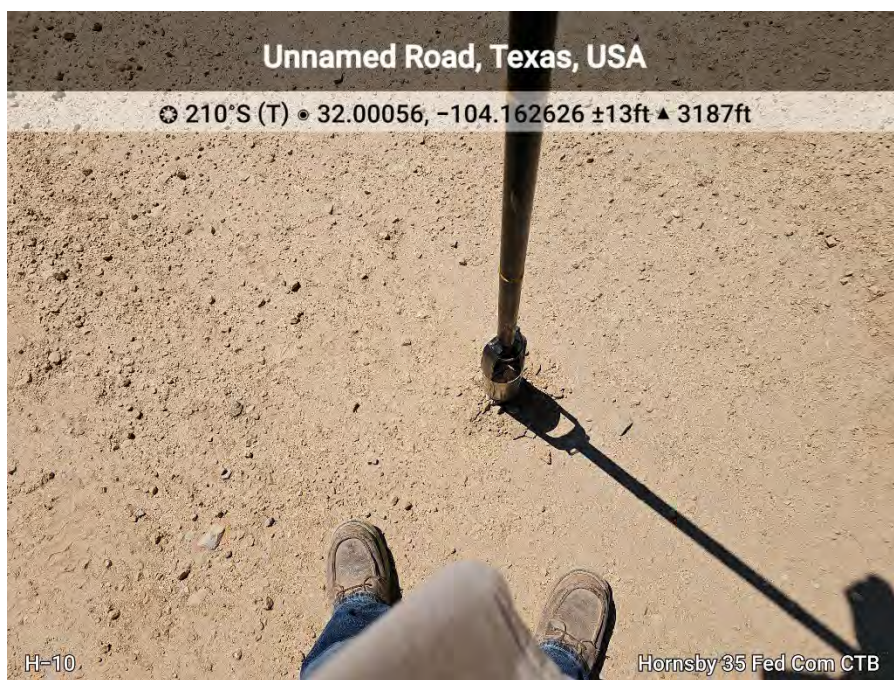


H-8

PHOTOGRAPHIC DOCUMENTATION



H-9



H-10

PHOTOGRAPHIC DOCUMENTATION



H-11

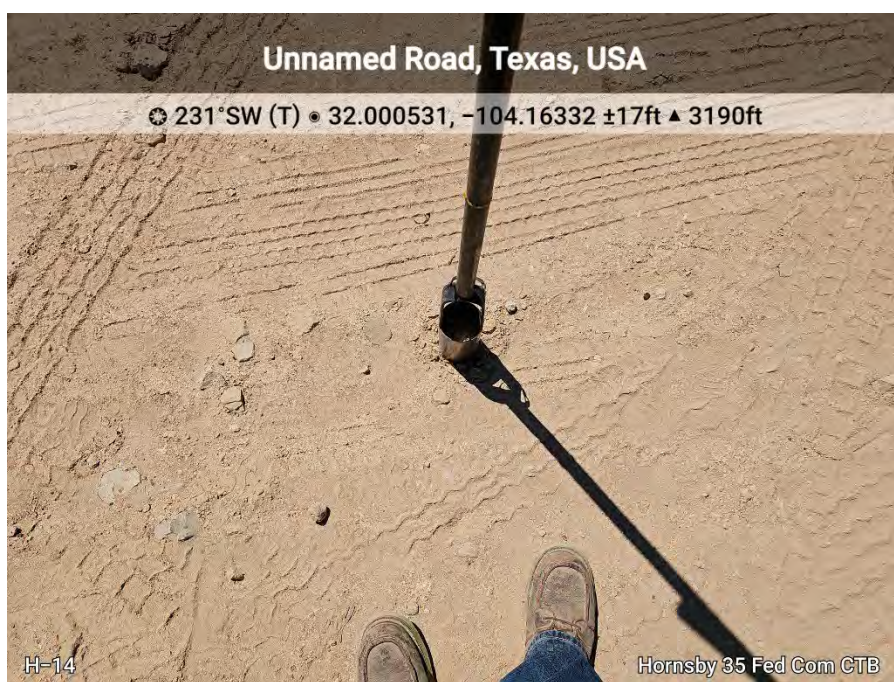


H-12

PHOTOGRAPHIC DOCUMENTATION

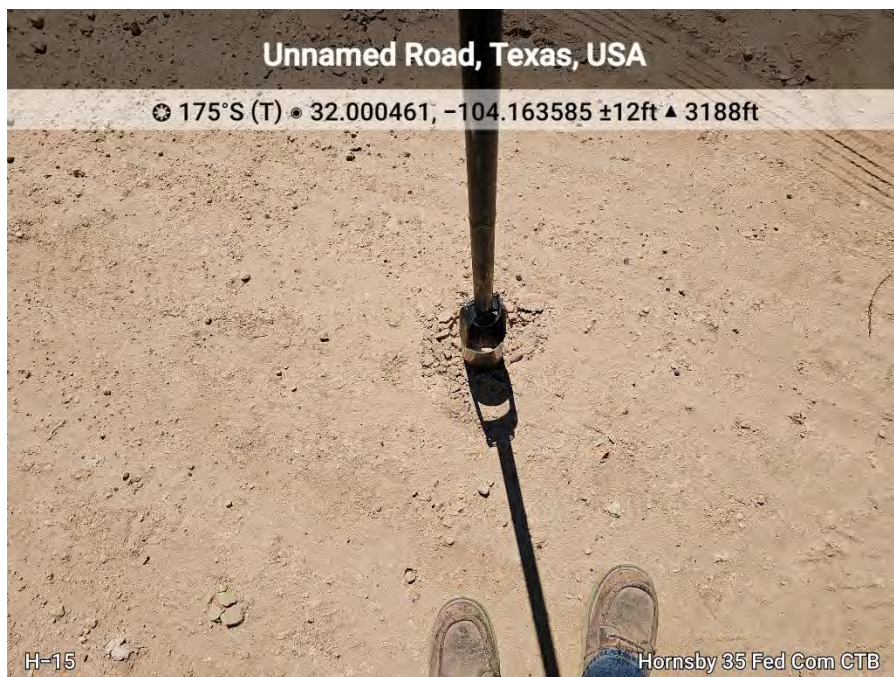


H-13

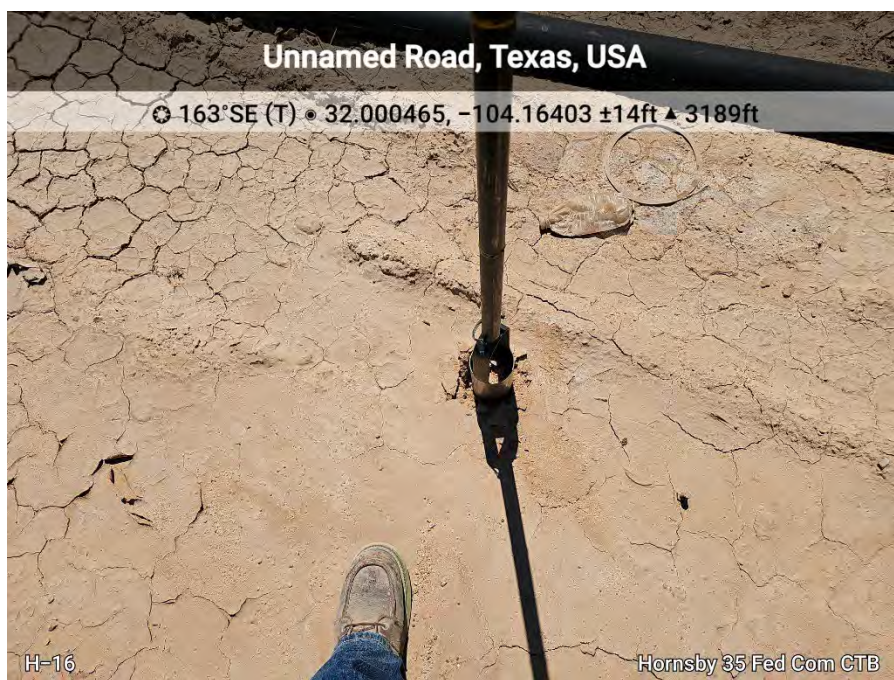


H-14

PHOTOGRAPHIC DOCUMENTATION



H-16



H-16

PHOTOGRAPHIC DOCUMENTATION



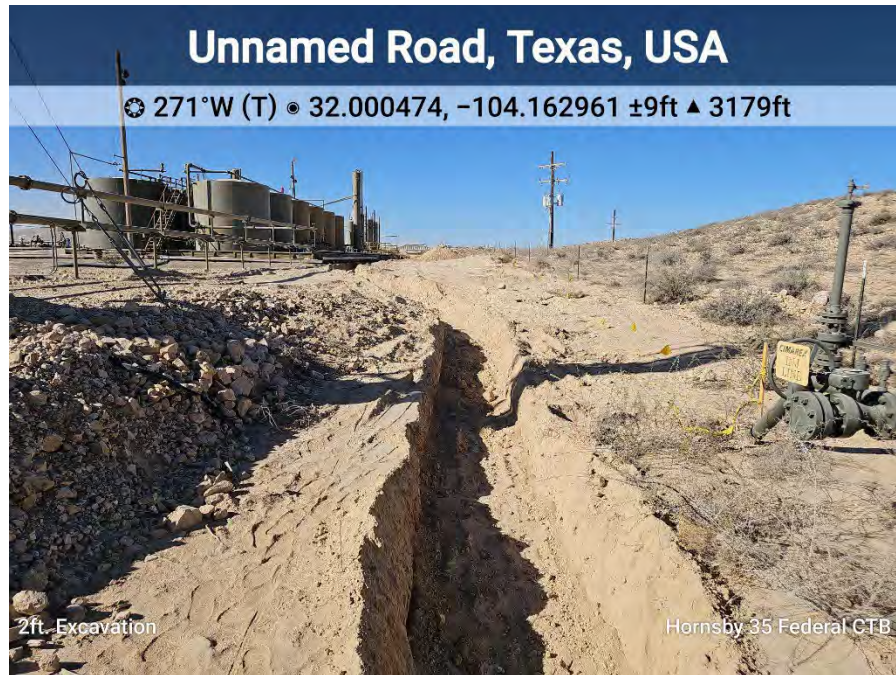
H-17

EXCAVATION PHOTOGRAPHS

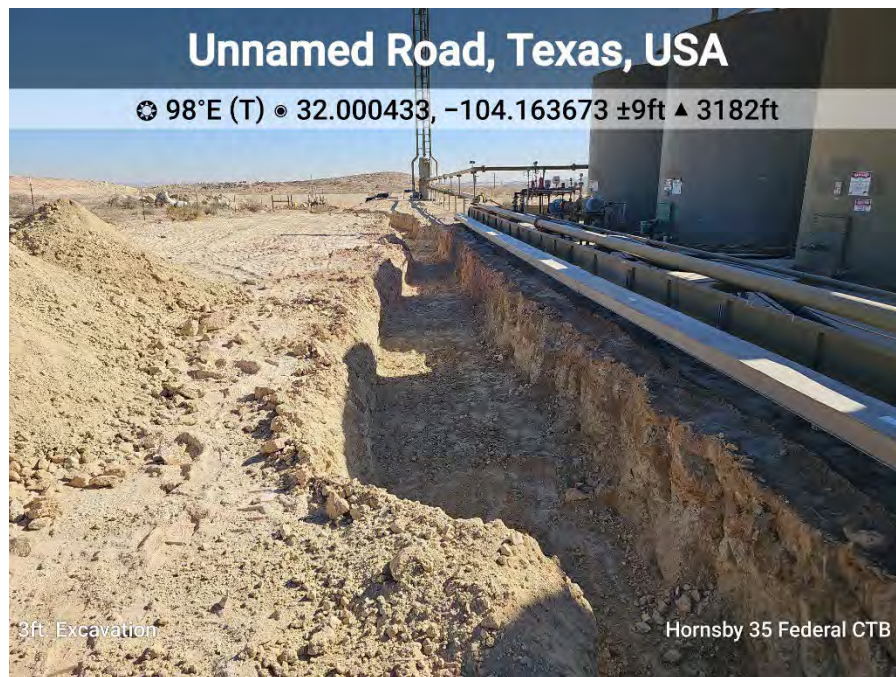


2 FOOT EXCAVATION

PHOTOGRAPHIC DOCUMENTATION



2 FOOT EXCAVATION



3 FOOT EXCAVATION

PHOTOGRAPHIC DOCUMENTATION

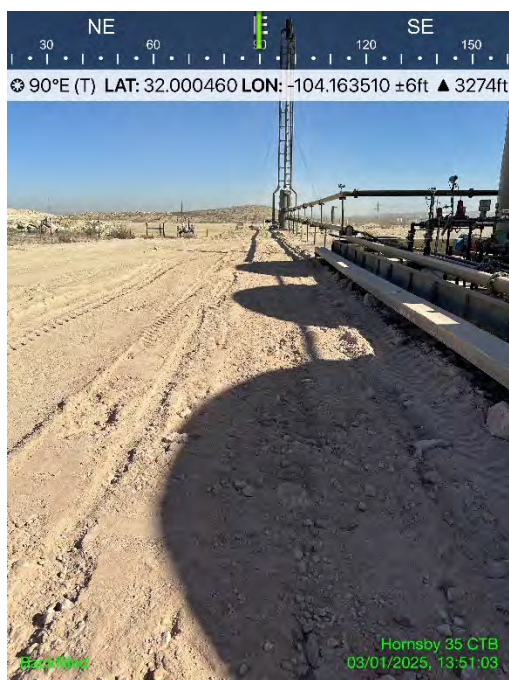


4 FOOT EXCAVATION

FINAL PHOTOGRAPHS



PHOTOGRAPHIC DOCUMENTATION



PHOTOGRAPHIC DOCUMENTATION



APPENDIX V

LABORATORY REPORTS



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

September 17, 2024

MICHAEL COLLIER

H & R ENTERPRISES

1010 GAMBLIN ROAD

HOBBS, NM 88240

RE: HORNSBY 35 FED COM CTB

Enclosed are the results of analyses for samples received by the laboratory on 09/12/24 11:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/12/2024
 Reported: 09/17/2024
 Project Name: HORNSBY 35 FED COM CTB
 Project Number: (HORNSBY)
 Project Location: COTERRA- EDDY CO NM

Sampling Date: 09/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BH - 1 0-1' (H245520-01)

BTX 8021B			mg/kg		Analyzed By: JH				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/13/2024	ND	2.25	113	2.00	0.716	
Toluene*	<0.050	0.050	09/13/2024	ND	2.18	109	2.00	3.29	
Ethylbenzene*	<0.050	0.050	09/13/2024	ND	2.23	112	2.00	5.06	
Total Xylenes*	<0.150	0.150	09/13/2024	ND	6.77	113	6.00	5.25	
Total BTX	<0.300	0.300	09/13/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B			mg/kg		Analyzed By: CT				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	23600	16.0	09/12/2024	ND	400	100	400	3.92	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/13/2024	ND	182	90.9	200	1.80	
DRO >C10-C28*	66.6	10.0	09/13/2024	ND	175	87.4	200	4.95	
EXT DRO >C28-C36	<10.0	10.0	09/13/2024	ND					

Surrogate: 1-Chlorooctane 93.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/12/2024
 Reported: 09/17/2024
 Project Name: HORNSBY 35 FED COM CTB
 Project Number: (HORNSBY)
 Project Location: COTERRA- EDDY CO NM

Sampling Date: 09/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BH - 1 2' (H245520-02)

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	09/13/2024	ND	2.25	113	2.00	0.716		
Toluene*	<0.050	0.050	09/13/2024	ND	2.18	109	2.00	3.29		
Ethylbenzene*	<0.050	0.050	09/13/2024	ND	2.23	112	2.00	5.06		
Total Xylenes*	<0.150	0.150	09/13/2024	ND	6.77	113	6.00	5.25		
Total BTEx	<0.300	0.300	09/13/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	704	16.0	09/12/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/13/2024	ND	182	90.9	200	1.80	
DRO >C10-C28*	<10.0	10.0	09/13/2024	ND	175	87.4	200	4.95	
EXT DRO >C28-C36	<10.0	10.0	09/13/2024	ND					

Surrogate: 1-Chlorooctane 92.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/12/2024
 Reported: 09/17/2024
 Project Name: HORNSBY 35 FED COM CTB
 Project Number: (HORNSBY)
 Project Location: COTERRA- EDDY CO NM

Sampling Date: 09/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BH - 1 3' (H245520-03)

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	09/13/2024	ND	2.25	113	2.00	0.716	
Toluene*	<0.050	0.050	09/13/2024	ND	2.18	109	2.00	3.29	
Ethylbenzene*	<0.050	0.050	09/13/2024	ND	2.23	112	2.00	5.06	
Total Xylenes*	<0.150	0.150	09/13/2024	ND	6.77	113	6.00	5.25	
Total BTEx	<0.300	0.300	09/13/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	09/12/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/13/2024	ND	182	90.9	200	1.80	
DRO >C10-C28*	<10.0	10.0	09/13/2024	ND	175	87.4	200	4.95	
EXT DRO >C28-C36	<10.0	10.0	09/13/2024	ND					

Surrogate: 1-Chlorooctane 85.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/12/2024
 Reported: 09/17/2024
 Project Name: HORNSBY 35 FED COM CTB
 Project Number: (HORNSBY)
 Project Location: COTERRA- EDDY CO NM

Sampling Date: 09/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BH - 1 4' (H245520-04)

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	09/13/2024	ND	2.25	113	2.00	0.716		
Toluene*	<0.050	0.050	09/13/2024	ND	2.18	109	2.00	3.29		
Ethylbenzene*	<0.050	0.050	09/13/2024	ND	2.23	112	2.00	5.06		
Total Xylenes*	<0.150	0.150	09/13/2024	ND	6.77	113	6.00	5.25		
Total BTEX	<0.300	0.300	09/13/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	09/12/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/13/2024	ND	182	90.9	200	1.80	
DRO >C10-C28*	<10.0	10.0	09/13/2024	ND	175	87.4	200	4.95	
EXT DRO >C28-C36	<10.0	10.0	09/13/2024	ND					

Surrogate: 1-Chlorooctane 95.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/12/2024
 Reported: 09/17/2024
 Project Name: HORNSBY 35 FED COM CTB
 Project Number: (HORNSBY)
 Project Location: COTERRA- EDDY CO NM

Sampling Date: 09/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BH - 2 0-1' (H245520-05)

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	09/13/2024	ND	2.25	113	2.00	0.716	
Toluene*	<0.050	0.050	09/13/2024	ND	2.18	109	2.00	3.29	
Ethylbenzene*	<0.050	0.050	09/13/2024	ND	2.23	112	2.00	5.06	
Total Xylenes*	<0.150	0.150	09/13/2024	ND	6.77	113	6.00	5.25	
Total BTEx	<0.300	0.300	09/13/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6400	16.0	09/12/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/13/2024	ND	182	90.9	200	1.80	
DRO >C10-C28*	376	10.0	09/13/2024	ND	175	87.4	200	4.95	
EXT DRO >C28-C36	128	10.0	09/13/2024	ND					

Surrogate: 1-Chlorooctane 91.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 121 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/12/2024
 Reported: 09/17/2024
 Project Name: HORNSBY 35 FED COM CTB
 Project Number: (HORNSBY)
 Project Location: COTERRA- EDDY CO NM

Sampling Date: 09/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BH - 2 2' (H245520-06)

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	09/13/2024	ND	2.25	113	2.00	0.716	
Toluene*	<0.050	0.050	09/13/2024	ND	2.18	109	2.00	3.29	
Ethylbenzene*	<0.050	0.050	09/13/2024	ND	2.23	112	2.00	5.06	
Total Xylenes*	<0.150	0.150	09/13/2024	ND	6.77	113	6.00	5.25	
Total BTEx	<0.300	0.300	09/13/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	960	16.0	09/12/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/13/2024	ND	182	90.9	200	1.80	
DRO >C10-C28*	<10.0	10.0	09/13/2024	ND	175	87.4	200	4.95	
EXT DRO >C28-C36	<10.0	10.0	09/13/2024	ND					

Surrogate: 1-Chlorooctane 94.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/12/2024
 Reported: 09/17/2024
 Project Name: HORNSBY 35 FED COM CTB
 Project Number: (HORNSBY)
 Project Location: COTERRA- EDDY CO NM

Sampling Date: 09/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BH - 2 3' (H245520-07)

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	09/13/2024	ND	2.25	113	2.00	0.716	
Toluene*	<0.050	0.050	09/13/2024	ND	2.18	109	2.00	3.29	
Ethylbenzene*	<0.050	0.050	09/13/2024	ND	2.23	112	2.00	5.06	
Total Xylenes*	<0.150	0.150	09/13/2024	ND	6.77	113	6.00	5.25	
Total BTEx	<0.300	0.300	09/13/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1040	16.0	09/12/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2024	ND	206	103	200	0.126	
DRO >C10-C28*	<10.0	10.0	09/12/2024	ND	201	100	200	1.47	
EXT DRO >C28-C36	<10.0	10.0	09/12/2024	ND					

Surrogate: 1-Chlorooctane 90.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/12/2024
 Reported: 09/17/2024
 Project Name: HORNSBY 35 FED COM CTB
 Project Number: (HORNSBY)
 Project Location: COTERRA- EDDY CO NM

Sampling Date: 09/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BH - 2 4' (H245520-08)

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	09/13/2024	ND	2.25	113	2.00	0.716		
Toluene*	<0.050	0.050	09/13/2024	ND	2.18	109	2.00	3.29		
Ethylbenzene*	<0.050	0.050	09/13/2024	ND	2.23	112	2.00	5.06		
Total Xylenes*	<0.150	0.150	09/13/2024	ND	6.77	113	6.00	5.25		
Total BTEX	<0.300	0.300	09/13/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	09/12/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2024	ND	206	103	200	0.126	
DRO >C10-C28*	<10.0	10.0	09/12/2024	ND	201	100	200	1.47	
EXT DRO >C28-C36	<10.0	10.0	09/12/2024	ND					

Surrogate: 1-Chlorooctane 90.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/12/2024
 Reported: 09/17/2024
 Project Name: HORNSBY 35 FED COM CTB
 Project Number: (HORNSBY)
 Project Location: COTERRA- EDDY CO NM

Sampling Date: 09/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BH - 3 0-1' (H245520-09)

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	09/13/2024	ND	2.27	114	2.00	0.866	
Toluene*	<0.050	0.050	09/13/2024	ND	2.20	110	2.00	3.51	
Ethylbenzene*	<0.050	0.050	09/13/2024	ND	2.33	117	2.00	2.08	
Total Xylenes*	<0.150	0.150	09/13/2024	ND	7.02	117	6.00	1.88	
Total BTEX	<0.300	0.300	09/13/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	20800	16.0	09/12/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2024	ND	206	103	200	0.126	
DRO >C10-C28*	14.7	10.0	09/12/2024	ND	201	100	200	1.47	
EXT DRO >C28-C36	<10.0	10.0	09/12/2024	ND					

Surrogate: 1-Chlorooctane 83.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/12/2024
 Reported: 09/17/2024
 Project Name: HORNSBY 35 FED COM CTB
 Project Number: (HORNSBY)
 Project Location: COTERRA- EDDY CO NM

Sampling Date: 09/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BH - 3 2' (H245520-10)

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	09/13/2024	ND	2.27	114	2.00	0.866		
Toluene*	<0.050	0.050	09/13/2024	ND	2.20	110	2.00	3.51		
Ethylbenzene*	<0.050	0.050	09/13/2024	ND	2.33	117	2.00	2.08		
Total Xylenes*	<0.150	0.150	09/13/2024	ND	7.02	117	6.00	1.88		
Total BTEx	<0.300	0.300	09/13/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	976	16.0	09/12/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2024	ND	206	103	200	0.126	
DRO >C10-C28*	<10.0	10.0	09/12/2024	ND	201	100	200	1.47	
EXT DRO >C28-C36	<10.0	10.0	09/12/2024	ND					

Surrogate: 1-Chlorooctane 90.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/12/2024
 Reported: 09/17/2024
 Project Name: HORNSBY 35 FED COM CTB
 Project Number: (HORNSBY)
 Project Location: COTERRA- EDDY CO NM

Sampling Date: 09/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BH - 3 3' (H245520-11)

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	09/13/2024	ND	2.27	114	2.00	0.866		
Toluene*	<0.050	0.050	09/13/2024	ND	2.20	110	2.00	3.51		
Ethylbenzene*	<0.050	0.050	09/13/2024	ND	2.33	117	2.00	2.08		
Total Xylenes*	<0.150	0.150	09/13/2024	ND	7.02	117	6.00	1.88		
Total BTEx	<0.300	0.300	09/13/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	09/12/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2024	ND	206	103	200	0.126	
DRO >C10-C28*	<10.0	10.0	09/12/2024	ND	201	100	200	1.47	
EXT DRO >C28-C36	<10.0	10.0	09/12/2024	ND					

Surrogate: 1-Chlorooctane 86.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/12/2024
 Reported: 09/17/2024
 Project Name: HORNSBY 35 FED COM CTB
 Project Number: (HORNSBY)
 Project Location: COTERRA- EDDY CO NM

Sampling Date: 09/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BH - 3 4' (H245520-12)

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	09/13/2024	ND	2.27	114	2.00	0.866		
Toluene*	<0.050	0.050	09/13/2024	ND	2.20	110	2.00	3.51		
Ethylbenzene*	<0.050	0.050	09/13/2024	ND	2.33	117	2.00	2.08		
Total Xylenes*	<0.150	0.150	09/13/2024	ND	7.02	117	6.00	1.88		
Total BTEx	<0.300	0.300	09/13/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	09/12/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2024	ND	206	103	200	0.126	
DRO >C10-C28*	<10.0	10.0	09/12/2024	ND	201	100	200	1.47	
EXT DRO >C28-C36	<10.0	10.0	09/12/2024	ND					

Surrogate: 1-Chlorooctane 86.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/12/2024
 Reported: 09/17/2024
 Project Name: HORNSBY 35 FED COM CTB
 Project Number: (HORNSBY)
 Project Location: COTERRA- EDDY CO NM

Sampling Date: 09/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BH - 4 0-1' (H245520-13)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/13/2024	ND	2.27	114	2.00	0.866	
Toluene*	<0.050	0.050	09/13/2024	ND	2.20	110	2.00	3.51	
Ethylbenzene*	<0.050	0.050	09/13/2024	ND	2.33	117	2.00	2.08	
Total Xylenes*	<0.150	0.150	09/13/2024	ND	7.02	117	6.00	1.88	
Total BTX	<0.300	0.300	09/13/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3280	16.0	09/12/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2024	ND	206	103	200	0.126	
DRO >C10-C28*	<10.0	10.0	09/12/2024	ND	201	100	200	1.47	
EXT DRO >C28-C36	<10.0	10.0	09/12/2024	ND					

Surrogate: 1-Chlorooctane 84.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/12/2024
 Reported: 09/17/2024
 Project Name: HORNSBY 35 FED COM CTB
 Project Number: (HORNSBY)
 Project Location: COTERRA- EDDY CO NM

Sampling Date: 09/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BH - 4 2' (H245520-14)

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	09/13/2024	ND	2.27	114	2.00	0.866		
Toluene*	<0.050	0.050	09/13/2024	ND	2.20	110	2.00	3.51		
Ethylbenzene*	<0.050	0.050	09/13/2024	ND	2.33	117	2.00	2.08		
Total Xylenes*	<0.150	0.150	09/13/2024	ND	7.02	117	6.00	1.88		
Total BTEx	<0.300	0.300	09/13/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	09/12/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2024	ND	206	103	200	0.126	
DRO >C10-C28*	<10.0	10.0	09/12/2024	ND	201	100	200	1.47	
EXT DRO >C28-C36	<10.0	10.0	09/12/2024	ND					

Surrogate: 1-Chlorooctane 87.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/12/2024
 Reported: 09/17/2024
 Project Name: HORNSBY 35 FED COM CTB
 Project Number: (HORNSBY)
 Project Location: COTERRA- EDDY CO NM

Sampling Date: 09/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BH - 4 3' (H245520-15)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/13/2024	ND	2.27	114	2.00	0.866		
Toluene*	<0.050	0.050	09/13/2024	ND	2.20	110	2.00	3.51		
Ethylbenzene*	<0.050	0.050	09/13/2024	ND	2.33	117	2.00	2.08		
Total Xylenes*	<0.150	0.150	09/13/2024	ND	7.02	117	6.00	1.88		
Total BTX	<0.300	0.300	09/13/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 127 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	09/12/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2024	ND	206	103	200	0.126	
DRO >C10-C28*	<10.0	10.0	09/12/2024	ND	201	100	200	1.47	
EXT DRO >C28-C36	<10.0	10.0	09/12/2024	ND					

Surrogate: 1-Chlorooctane 79.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/12/2024
 Reported: 09/17/2024
 Project Name: HORNSBY 35 FED COM CTB
 Project Number: (HORNSBY)
 Project Location: COTERRA- EDDY CO NM

Sampling Date: 09/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BH - 4 4' (H245520-16)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/13/2024	ND	2.27	114	2.00	0.866		
Toluene*	<0.050	0.050	09/13/2024	ND	2.20	110	2.00	3.51		
Ethylbenzene*	<0.050	0.050	09/13/2024	ND	2.33	117	2.00	2.08		
Total Xylenes*	<0.150	0.150	09/13/2024	ND	7.02	117	6.00	1.88		
Total BTX	<0.300	0.300	09/13/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 125 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	09/12/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2024	ND	206	103	200	0.126	
DRO >C10-C28*	<10.0	10.0	09/12/2024	ND	201	100	200	1.47	
EXT DRO >C28-C36	<10.0	10.0	09/12/2024	ND					

Surrogate: 1-Chlorooctane 61.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/12/2024
 Reported: 09/17/2024
 Project Name: HORNSBY 35 FED COM CTB
 Project Number: (HORNSBY)
 Project Location: COTERRA- EDDY CO NM

Sampling Date: 09/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BH - 5 0-1' (H245520-17)

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	09/13/2024	ND	2.27	114	2.00	0.866		
Toluene*	<0.050	0.050	09/13/2024	ND	2.20	110	2.00	3.51		
Ethylbenzene*	<0.050	0.050	09/13/2024	ND	2.33	117	2.00	2.08		
Total Xylenes*	<0.150	0.150	09/13/2024	ND	7.02	117	6.00	1.88		
Total BTEx	<0.300	0.300	09/13/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8800	16.0	09/12/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2024	ND	206	103	200	0.126	
DRO >C10-C28*	<10.0	10.0	09/12/2024	ND	201	100	200	1.47	
EXT DRO >C28-C36	<10.0	10.0	09/12/2024	ND					

Surrogate: 1-Chlorooctane 79.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/12/2024
 Reported: 09/17/2024
 Project Name: HORNSBY 35 FED COM CTB
 Project Number: (HORNSBY)
 Project Location: COTERRA- EDDY CO NM

Sampling Date: 09/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BH - 5 2' (H245520-18)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/13/2024	ND	2.27	114	2.00	0.866	
Toluene*	<0.050	0.050	09/13/2024	ND	2.20	110	2.00	3.51	
Ethylbenzene*	<0.050	0.050	09/13/2024	ND	2.33	117	2.00	2.08	
Total Xylenes*	<0.150	0.150	09/13/2024	ND	7.02	117	6.00	1.88	
Total BTEx	<0.300	0.300	09/13/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 119 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	528	16.0	09/12/2024	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	09/12/2024	ND	206	103	200	0.126	
DRO >C10-C28*	<10.0	10.0	09/12/2024	ND	201	100	200	1.47	
EXT DRO >C28-C36	<10.0	10.0	09/12/2024	ND					

Surrogate: 1-Chlorooctane 90.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/12/2024
 Reported: 09/17/2024
 Project Name: HORNSBY 35 FED COM CTB
 Project Number: (HORNSBY)
 Project Location: COTERRA- EDDY CO NM

Sampling Date: 09/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BH - 5 3' (H245520-19)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/13/2024	ND	2.27	114	2.00	0.866		
Toluene*	<0.050	0.050	09/13/2024	ND	2.20	110	2.00	3.51		
Ethylbenzene*	<0.050	0.050	09/13/2024	ND	2.33	117	2.00	2.08		
Total Xylenes*	<0.150	0.150	09/13/2024	ND	7.02	117	6.00	1.88		
Total BTX	<0.300	0.300	09/13/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 123 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	09/12/2024	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	09/12/2024	ND	206	103	200	0.126	
DRO >C10-C28*	<10.0	10.0	09/12/2024	ND	201	100	200	1.47	
EXT DRO >C28-C36	<10.0	10.0	09/12/2024	ND					

Surrogate: 1-Chlorooctane 78.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/12/2024
 Reported: 09/17/2024
 Project Name: HORNSBY 35 FED COM CTB
 Project Number: (HORNSBY)
 Project Location: COTERRA- EDDY CO NM

Sampling Date: 09/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BH - 5 4' (H245520-20)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/13/2024	ND	2.27	114	2.00	0.866		
Toluene*	<0.050	0.050	09/13/2024	ND	2.20	110	2.00	3.51		
Ethylbenzene*	<0.050	0.050	09/13/2024	ND	2.33	117	2.00	2.08		
Total Xylenes*	<0.150	0.150	09/13/2024	ND	7.02	117	6.00	1.88		
Total BTX	<0.300	0.300	09/13/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	09/12/2024	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	09/12/2024	ND	206	103	200	0.126	
DRO >C10-C28*	<10.0	10.0	09/12/2024	ND	201	100	200	1.47	
EXT DRO >C28-C36	<10.0	10.0	09/12/2024	ND					

Surrogate: 1-Chlorooctane 88.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/12/2024
 Reported: 09/17/2024
 Project Name: HORNSBY 35 FED COM CTB
 Project Number: (HORNSBY)
 Project Location: COTERRA- EDDY CO NM

Sampling Date: 09/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BH - 6 0-1' (H245520-21)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/13/2024	ND	2.27	114	2.00	0.866		
Toluene*	<0.050	0.050	09/13/2024	ND	2.20	110	2.00	3.51		
Ethylbenzene*	<0.050	0.050	09/13/2024	ND	2.33	117	2.00	2.08		
Total Xylenes*	<0.150	0.150	09/13/2024	ND	7.02	117	6.00	1.88		
Total BTX	<0.300	0.300	09/13/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6100	16.0	09/12/2024	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	09/12/2024	ND	206	103	200	0.126	
DRO >C10-C28*	<10.0	10.0	09/12/2024	ND	201	100	200	1.47	
EXT DRO >C28-C36	<10.0	10.0	09/12/2024	ND					

Surrogate: 1-Chlorooctane 85.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/12/2024
 Reported: 09/17/2024
 Project Name: HORNSBY 35 FED COM CTB
 Project Number: (HORNSBY)
 Project Location: COTERRA- EDDY CO NM

Sampling Date: 09/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BH - 6 2' (H245520-22)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/13/2024	ND	2.27	114	2.00	0.866		
Toluene*	<0.050	0.050	09/13/2024	ND	2.20	110	2.00	3.51		
Ethylbenzene*	<0.050	0.050	09/13/2024	ND	2.33	117	2.00	2.08		
Total Xylenes*	<0.150	0.150	09/13/2024	ND	7.02	117	6.00	1.88		
Total BTX	<0.300	0.300	09/13/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	09/12/2024	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	09/12/2024	ND	206	103	200	0.126	
DRO >C10-C28*	<10.0	10.0	09/12/2024	ND	201	100	200	1.47	
EXT DRO >C28-C36	<10.0	10.0	09/12/2024	ND					

Surrogate: 1-Chlorooctane 92.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/12/2024
 Reported: 09/17/2024
 Project Name: HORNSBY 35 FED COM CTB
 Project Number: (HORNSBY)
 Project Location: COTERRA- EDDY CO NM

Sampling Date: 09/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BH - 6 3' (H245520-23)

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	09/13/2024	ND	2.27	114	2.00	0.866	
Toluene*	<0.050	0.050	09/13/2024	ND	2.20	110	2.00	3.51	
Ethylbenzene*	<0.050	0.050	09/13/2024	ND	2.33	117	2.00	2.08	
Total Xylenes*	<0.150	0.150	09/13/2024	ND	7.02	117	6.00	1.88	
Total BTEx	<0.300	0.300	09/13/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	09/12/2024	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	09/12/2024	ND	206	103	200	0.126	
DRO >C10-C28*	<10.0	10.0	09/12/2024	ND	201	100	200	1.47	
EXT DRO >C28-C36	<10.0	10.0	09/12/2024	ND					

Surrogate: 1-Chlorooctane 93.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/12/2024
 Reported: 09/17/2024
 Project Name: HORNSBY 35 FED COM CTB
 Project Number: (HORNSBY)
 Project Location: COTERRA- EDDY CO NM

Sampling Date: 09/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BH - 6 4' (H245520-24)

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	09/13/2024	ND	2.27	114	2.00	0.866	
Toluene*	<0.050	0.050	09/13/2024	ND	2.20	110	2.00	3.51	
Ethylbenzene*	<0.050	0.050	09/13/2024	ND	2.33	117	2.00	2.08	
Total Xylenes*	<0.150	0.150	09/13/2024	ND	7.02	117	6.00	1.88	
Total BTEX	<0.300	0.300	09/13/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	09/12/2024	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	09/13/2024	ND	206	103	200	0.126	
DRO >C10-C28*	<10.0	10.0	09/13/2024	ND	201	100	200	1.47	
EXT DRO >C28-C36	<10.0	10.0	09/13/2024	ND					

Surrogate: 1-Chlorooctane 97.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 122 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/12/2024
 Reported: 09/17/2024
 Project Name: HORNSBY 35 FED COM CTB
 Project Number: (HORNSBY)
 Project Location: COTERRA- EDDY CO NM

Sampling Date: 09/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: H - 1 0-1' (H245520-25)

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	09/13/2024	ND	2.27	114	2.00	0.866		
Toluene*	<0.050	0.050	09/13/2024	ND	2.20	110	2.00	3.51		
Ethylbenzene*	<0.050	0.050	09/13/2024	ND	2.33	117	2.00	2.08		
Total Xylenes*	<0.150	0.150	09/13/2024	ND	7.02	117	6.00	1.88		
Total BTEx	<0.300	0.300	09/13/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	09/12/2024	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	09/13/2024	ND	206	103	200	0.126	
DRO >C10-C28*	<10.0	10.0	09/13/2024	ND	201	100	200	1.47	
EXT DRO >C28-C36	<10.0	10.0	09/13/2024	ND					

Surrogate: 1-Chlorooctane 93.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/12/2024
 Reported: 09/17/2024
 Project Name: HORNSBY 35 FED COM CTB
 Project Number: (HORNSBY)
 Project Location: COTERRA- EDDY CO NM

Sampling Date: 09/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: H - 2 0-1' (H245520-26)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/13/2024	ND	2.27	114	2.00	0.866		
Toluene*	<0.050	0.050	09/13/2024	ND	2.20	110	2.00	3.51		
Ethylbenzene*	<0.050	0.050	09/13/2024	ND	2.33	117	2.00	2.08		
Total Xylenes*	<0.150	0.150	09/13/2024	ND	7.02	117	6.00	1.88		
Total BTX	<0.300	0.300	09/13/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	09/12/2024	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	09/13/2024	ND	206	103	200	0.126	
DRO >C10-C28*	<10.0	10.0	09/13/2024	ND	201	100	200	1.47	
EXT DRO >C28-C36	<10.0	10.0	09/13/2024	ND					

Surrogate: 1-Chlorooctane 95.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/12/2024
 Reported: 09/17/2024
 Project Name: HORNSBY 35 FED COM CTB
 Project Number: (HORNSBY)
 Project Location: COTERRA- EDDY CO NM

Sampling Date: 09/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: H - 3 0-1' (H245520-27)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/13/2024	ND	2.27	114	2.00	0.866		
Toluene*	<0.050	0.050	09/13/2024	ND	2.20	110	2.00	3.51		
Ethylbenzene*	<0.050	0.050	09/13/2024	ND	2.33	117	2.00	2.08		
Total Xylenes*	<0.150	0.150	09/13/2024	ND	7.02	117	6.00	1.88		
Total BTX	<0.300	0.300	09/13/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	09/12/2024	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	09/12/2024	ND	184	91.8	200	1.39	
DRO >C10-C28*	<10.0	10.0	09/12/2024	ND	188	94.1	200	2.95	
EXT DRO >C28-C36	<10.0	10.0	09/12/2024	ND					

Surrogate: 1-Chlorooctane 86.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/12/2024
 Reported: 09/17/2024
 Project Name: HORNSBY 35 FED COM CTB
 Project Number: (HORNSBY)
 Project Location: COTERRA- EDDY CO NM

Sampling Date: 09/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: H - 4 0-1' (H245520-28)

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	09/13/2024	ND	2.27	114	2.00	0.866		
Toluene*	<0.050	0.050	09/13/2024	ND	2.20	110	2.00	3.51		
Ethylbenzene*	<0.050	0.050	09/13/2024	ND	2.33	117	2.00	2.08		
Total Xylenes*	<0.150	0.150	09/13/2024	ND	7.02	117	6.00	1.88		
Total BTEx	<0.300	0.300	09/13/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	09/12/2024	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	09/12/2024	ND	184	91.8	200	1.39	
DRO >C10-C28*	<10.0	10.0	09/12/2024	ND	188	94.1	200	2.95	
EXT DRO >C28-C36	<10.0	10.0	09/12/2024	ND					

Surrogate: 1-Chlorooctane 85.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/12/2024
 Reported: 09/17/2024
 Project Name: HORNSBY 35 FED COM CTB
 Project Number: (HORNSBY)
 Project Location: COTERRA- EDDY CO NM

Sampling Date: 09/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: H - 5 0-1' (H245520-29)

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	09/13/2024	ND	2.05	103	2.00	6.64		
Toluene*	<0.050	0.050	09/13/2024	ND	2.02	101	2.00	8.25		
Ethylbenzene*	<0.050	0.050	09/13/2024	ND	2.06	103	2.00	9.26		
Total Xylenes*	<0.150	0.150	09/13/2024	ND	6.16	103	6.00	9.50		
Total BTEX	<0.300	0.300	09/13/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.2 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	09/12/2024	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	09/12/2024	ND	184	91.8	200	1.39	
DRO >C10-C28*	<10.0	10.0	09/12/2024	ND	188	94.1	200	2.95	
EXT DRO >C28-C36	<10.0	10.0	09/12/2024	ND					

Surrogate: 1-Chlorooctane 76.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/12/2024
 Reported: 09/17/2024
 Project Name: HORNSBY 35 FED COM CTB
 Project Number: (HORNSBY)
 Project Location: COTERRA- EDDY CO NM

Sampling Date: 09/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: H - 6 0-1' (H245520-30)

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	09/13/2024	ND	2.05	103	2.00	6.64		
Toluene*	<0.050	0.050	09/13/2024	ND	2.02	101	2.00	8.25		
Ethylbenzene*	<0.050	0.050	09/13/2024	ND	2.06	103	2.00	9.26		
Total Xylenes*	<0.150	0.150	09/13/2024	ND	6.16	103	6.00	9.50		
Total BTEx	<0.300	0.300	09/13/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	09/12/2024	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	09/12/2024	ND	184	91.8	200	1.39	
DRO >C10-C28*	<10.0	10.0	09/12/2024	ND	188	94.1	200	2.95	
EXT DRO >C28-C36	<10.0	10.0	09/12/2024	ND					

Surrogate: 1-Chlorooctane 82.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/12/2024
 Reported: 09/17/2024
 Project Name: HORNSBY 35 FED COM CTB
 Project Number: (HORNSBY)
 Project Location: COTERRA- EDDY CO NM

Sampling Date: 09/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: H - 7 0-1' (H245520-31)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/13/2024	ND	2.05	103	2.00	6.64		
Toluene*	<0.050	0.050	09/13/2024	ND	2.02	101	2.00	8.25		
Ethylbenzene*	<0.050	0.050	09/13/2024	ND	2.06	103	2.00	9.26		
Total Xylenes*	<0.150	0.150	09/13/2024	ND	6.16	103	6.00	9.50		
Total BTEx	<0.300	0.300	09/13/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.5 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	09/12/2024	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	09/12/2024	ND	184	91.8	200	1.39	
DRO >C10-C28*	<10.0	10.0	09/12/2024	ND	188	94.1	200	2.95	
EXT DRO >C28-C36	<10.0	10.0	09/12/2024	ND					

Surrogate: 1-Chlorooctane 85.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/12/2024
 Reported: 09/17/2024
 Project Name: HORNSBY 35 FED COM CTB
 Project Number: (HORNSBY)
 Project Location: COTERRA- EDDY CO NM

Sampling Date: 09/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: H - 8 0-1' (H245520-32)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/13/2024	ND	2.05	103	2.00	6.64		
Toluene*	<0.050	0.050	09/13/2024	ND	2.02	101	2.00	8.25		
Ethylbenzene*	<0.050	0.050	09/13/2024	ND	2.06	103	2.00	9.26		
Total Xylenes*	<0.150	0.150	09/13/2024	ND	6.16	103	6.00	9.50		
Total BTEx	<0.300	0.300	09/13/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.1 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	09/12/2024	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	09/12/2024	ND	184	91.8	200	1.39	
DRO >C10-C28*	<10.0	10.0	09/12/2024	ND	188	94.1	200	2.95	
EXT DRO >C28-C36	<10.0	10.0	09/12/2024	ND					

Surrogate: 1-Chlorooctane 89.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/12/2024
 Reported: 09/17/2024
 Project Name: HORNSBY 35 FED COM CTB
 Project Number: (HORNSBY)
 Project Location: COTERRA- EDDY CO NM

Sampling Date: 09/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: H - 9 0-1' (H245520-33)

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	09/13/2024	ND	2.05	103	2.00	6.64		
Toluene*	<0.050	0.050	09/13/2024	ND	2.02	101	2.00	8.25		
Ethylbenzene*	<0.050	0.050	09/13/2024	ND	2.06	103	2.00	9.26		
Total Xylenes*	<0.150	0.150	09/13/2024	ND	6.16	103	6.00	9.50		
Total BTEx	<0.300	0.300	09/13/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	09/12/2024	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	09/12/2024	ND	184	91.8	200	1.39	
DRO >C10-C28*	<10.0	10.0	09/12/2024	ND	188	94.1	200	2.95	
EXT DRO >C28-C36	<10.0	10.0	09/12/2024	ND					

Surrogate: 1-Chlorooctane 81.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 09/12/2024
 Reported: 09/17/2024
 Project Name: HORNSBY 35 FED COM CTB
 Project Number: (HORNSBY)
 Project Location: COTERRA- EDDY CO NM

Sampling Date: 09/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: H - 10 0-1' (H245520-34)

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	09/13/2024	ND	2.05	103	2.00	6.64		
Toluene*	<0.050	0.050	09/13/2024	ND	2.02	101	2.00	8.25		
Ethylbenzene*	<0.050	0.050	09/13/2024	ND	2.06	103	2.00	9.26		
Total Xylenes*	<0.150	0.150	09/13/2024	ND	6.16	103	6.00	9.50		
Total BTEx	<0.300	0.300	09/13/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.9 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	09/12/2024	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	09/12/2024	ND	184	91.8	200	1.39	
DRO >C10-C28*	<10.0	10.0	09/12/2024	ND	188	94.1	200	2.95	
EXT DRO >C28-C36	<10.0	10.0	09/12/2024	ND					

Surrogate: 1-Chlorooctane 93.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/12/2024
 Reported: 09/17/2024
 Project Name: HORNSBY 35 FED COM CTB
 Project Number: (HORNSBY)
 Project Location: COTERRA- EDDY CO NM

Sampling Date: 09/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: H - 11 0-1' (H245520-35)

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	09/13/2024	ND	2.05	103	2.00	6.64		
Toluene*	<0.050	0.050	09/13/2024	ND	2.02	101	2.00	8.25		
Ethylbenzene*	<0.050	0.050	09/13/2024	ND	2.06	103	2.00	9.26		
Total Xylenes*	<0.150	0.150	09/13/2024	ND	6.16	103	6.00	9.50		
Total BTEX	<0.300	0.300	09/13/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	09/12/2024	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	09/12/2024	ND	184	91.8	200	1.39	
DRO >C10-C28*	<10.0	10.0	09/12/2024	ND	188	94.1	200	2.95	
EXT DRO >C28-C36	<10.0	10.0	09/12/2024	ND					

Surrogate: 1-Chlorooctane 89.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/12/2024
 Reported: 09/17/2024
 Project Name: HORNSBY 35 FED COM CTB
 Project Number: (HORNSBY)
 Project Location: COTERRA- EDDY CO NM

Sampling Date: 09/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: H - 12 0-1' (H245520-36)

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	09/13/2024	ND	2.05	103	2.00	6.64		
Toluene*	<0.050	0.050	09/13/2024	ND	2.02	101	2.00	8.25		
Ethylbenzene*	<0.050	0.050	09/13/2024	ND	2.06	103	2.00	9.26		
Total Xylenes*	<0.150	0.150	09/13/2024	ND	6.16	103	6.00	9.50		
Total BTEX	<0.300	0.300	09/13/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.5 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	09/12/2024	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	09/12/2024	ND	184	91.8	200	1.39	
DRO >C10-C28*	<10.0	10.0	09/12/2024	ND	188	94.1	200	2.95	
EXT DRO >C28-C36	<10.0	10.0	09/12/2024	ND					

Surrogate: 1-Chlorooctane 86.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/12/2024
 Reported: 09/17/2024
 Project Name: HORNSBY 35 FED COM CTB
 Project Number: (HORNSBY)
 Project Location: COTERRA- EDDY CO NM

Sampling Date: 09/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: H - 13 0-1' (H245520-37)

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	09/13/2024	ND	2.05	103	2.00	6.64		
Toluene*	<0.050	0.050	09/13/2024	ND	2.02	101	2.00	8.25		
Ethylbenzene*	<0.050	0.050	09/13/2024	ND	2.06	103	2.00	9.26		
Total Xylenes*	<0.150	0.150	09/13/2024	ND	6.16	103	6.00	9.50		
Total BTEX	<0.300	0.300	09/13/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.0 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	09/12/2024	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	09/12/2024	ND	184	91.8	200	1.39	
DRO >C10-C28*	<10.0	10.0	09/12/2024	ND	188	94.1	200	2.95	
EXT DRO >C28-C36	<10.0	10.0	09/12/2024	ND					

Surrogate: 1-Chlorooctane 89.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/12/2024
 Reported: 09/17/2024
 Project Name: HORNSBY 35 FED COM CTB
 Project Number: (HORNSBY)
 Project Location: COTERRA- EDDY CO NM

Sampling Date: 09/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: H - 14 0-1' (H245520-38)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/13/2024	ND	2.05	103	2.00	6.64	
Toluene*	<0.050	0.050	09/13/2024	ND	2.02	101	2.00	8.25	
Ethylbenzene*	<0.050	0.050	09/13/2024	ND	2.06	103	2.00	9.26	
Total Xylenes*	<0.150	0.150	09/13/2024	ND	6.16	103	6.00	9.50	
Total BTX	<0.300	0.300	09/13/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	09/12/2024	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	09/12/2024	ND	184	91.8	200	1.39	
DRO >C10-C28*	<10.0	10.0	09/12/2024	ND	188	94.1	200	2.95	
EXT DRO >C28-C36	<10.0	10.0	09/12/2024	ND					

Surrogate: 1-Chlorooctane 87.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/12/2024
 Reported: 09/17/2024
 Project Name: HORNSBY 35 FED COM CTB
 Project Number: (HORNSBY)
 Project Location: COTERRA- EDDY CO NM

Sampling Date: 09/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: H - 15 0-1' (H245520-39)

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	09/13/2024	ND	2.05	103	2.00	6.64		
Toluene*	<0.050	0.050	09/13/2024	ND	2.02	101	2.00	8.25		
Ethylbenzene*	<0.050	0.050	09/13/2024	ND	2.06	103	2.00	9.26		
Total Xylenes*	<0.150	0.150	09/13/2024	ND	6.16	103	6.00	9.50		
Total BTEX	<0.300	0.300	09/13/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.2 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	09/12/2024	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	09/12/2024	ND	184	91.8	200	1.39	
DRO >C10-C28*	<10.0	10.0	09/12/2024	ND	188	94.1	200	2.95	
EXT DRO >C28-C36	<10.0	10.0	09/12/2024	ND					

Surrogate: 1-Chlorooctane 76.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.0 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/12/2024
 Reported: 09/17/2024
 Project Name: HORNSBY 35 FED COM CTB
 Project Number: (HORNSBY)
 Project Location: COTERRA- EDDY CO NM

Sampling Date: 09/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: H - 16 0-1' (H245520-40)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/13/2024	ND	2.05	103	2.00	6.64		
Toluene*	<0.050	0.050	09/13/2024	ND	2.02	101	2.00	8.25		
Ethylbenzene*	<0.050	0.050	09/13/2024	ND	2.06	103	2.00	9.26		
Total Xylenes*	<0.150	0.150	09/13/2024	ND	6.16	103	6.00	9.50		
Total BTEX	<0.300	0.300	09/13/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	09/12/2024	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	09/12/2024	ND	184	91.8	200	1.39	
DRO >C10-C28*	<10.0	10.0	09/12/2024	ND	188	94.1	200	2.95	
EXT DRO >C28-C36	<10.0	10.0	09/12/2024	ND					

Surrogate: 1-Chlorooctane 78.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/12/2024
 Reported: 09/17/2024
 Project Name: HORNSBY 35 FED COM CTB
 Project Number: (HORNSBY)
 Project Location: COTERRA- EDDY CO NM

Sampling Date: 09/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: H - 17 0-1' (H245520-41)

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	09/13/2024	ND	2.05	103	2.00	6.64		
Toluene*	<0.050	0.050	09/13/2024	ND	2.02	101	2.00	8.25		
Ethylbenzene*	<0.050	0.050	09/13/2024	ND	2.06	103	2.00	9.26		
Total Xylenes*	<0.150	0.150	09/13/2024	ND	6.16	103	6.00	9.50		
Total BTEx	<0.300	0.300	09/13/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/12/2024	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	09/13/2024	ND	184	91.8	200	1.39	
DRO >C10-C28*	<10.0	10.0	09/13/2024	ND	188	94.1	200	2.95	
EXT DRO >C28-C36	<10.0	10.0	09/13/2024	ND					

Surrogate: 1-Chlorooctane 85.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/12/2024
 Reported: 09/17/2024
 Project Name: HORNSBY 35 FED COM CTB
 Project Number: (HORNSBY)
 Project Location: COTERRA- EDDY CO NM

Sampling Date: 09/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: H - 18 0-1' (H245520-42)

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	09/13/2024	ND	2.05	103	2.00	6.64		
Toluene*	<0.050	0.050	09/13/2024	ND	2.02	101	2.00	8.25		
Ethylbenzene*	<0.050	0.050	09/13/2024	ND	2.06	103	2.00	9.26		
Total Xylenes*	<0.150	0.150	09/13/2024	ND	6.16	103	6.00	9.50		
Total BTEx	<0.300	0.300	09/13/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.0 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	09/12/2024	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	09/13/2024	ND	184	91.8	200	1.39	
DRO >C10-C28*	<10.0	10.0	09/13/2024	ND	188	94.1	200	2.95	
EXT DRO >C28-C36	<10.0	10.0	09/13/2024	ND					

Surrogate: 1-Chlorooctane 84.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

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A handwritten signature in black ink, appearing to read "C. D. Keene".

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: H&R Enterprises		101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476	
Project Manager: Michael Collier		P.O. #:	
Address:		Company: Coterra Energy	
City:	State:	Attn: Laci Luig	
Phone #:	Fax #:	Address:	
Project #:		City:	
Project Name: Hornsby 35 Fed Com CTB (Hornsby)		State:	
Project Location: Eddy County, NM		Zip:	
Sampler Name: M. Collier		Phone #:	
FOR LAB USE ONLY		Fax #:	
Lab I.D.	PRESERV.		SAMPLING
MATRIX			
GROUNDWATER			
WASTEWATER			
SOIL			
OIL			
SLUDGE			
OTHER			
ACID/BASE:			
ICE / COOL			
OTHER			
DATE			
TIME			
BTX			
TPH			
Chlorides			

Relinquished By: <i>[Signature]</i>	Received By: <i>[Signature]</i>	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Date: 4/12/24	Date: 4/12/24	All Results are emailed. Please provide Email address:	
Time: 11:40	Time:	REMARKS: pg 1 of 5	

Delivered By: (Circle One)	Observed Temp. °C	Sample Condition	CHECKED BY: (Initials)	Thermometer ID: #1140	Standard	Bacteria (only) Sample Condition
Sampler - UPS - Bus - Other:	Corrected Temp. °C	Cool <input checked="" type="checkbox"/> Warm <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/>	<i>[Signature]</i>	Correction Factor: -0.3°C	Observed Temp. °C	Yes <input type="checkbox"/> No <input type="checkbox"/>

FORM-006 R 3.2 10/07/21

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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: H&R Enterprises		101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476	
Project Manager: Michael Collier		P.O. #:	
Address:		Company: Coterra Energy	
City: State: Zip:		Attn: Laci Luig	
Phone #: Fax #:		Address:	
Project #: Project Owner: Coterra Energy		City: State: Zip:	
Project Name: Hornsby 35 Fed Com CTB (Hornsby)		Phone #:	
Project Location: Eddy County, NM		Fax #:	
Sampler Name: M. Collier		Lab I.D.	
FORM LAB USE ONLY		BILL TO	
ANALYSIS REQUEST			
Matrix: (G)RAB OR (C)OMP. # CONTAINERS			
GROUNDWATER WASTEWATER SOIL OIL SLUDGE			
OTHER: ACID/BASE: ICE / COOL OTHER:			
DATE TIME			
BTEX TPH Chlorides			
BH-3 3' BH-3 4' BH-4 0-1' BH-4 2' BH-4 3' BH-4 4' BH-5 0-1' BH-5 2' BH-5 3' BH-5 4'			
Relinquished By: [Signature]		Received By: [Signature]	
Date: 4/12/24		Date: 4/12/24	
Time: 1:40		Time: 1:40	
Relinquished By: [Signature]		Received By: [Signature]	
Date: [Blank]		Date: [Blank]	
Time: [Blank]		Time: [Blank]	
Delivered By: (Circle One) Sample - UPS - Bus - Other:		Observed Temp. °C Corrected Temp. °C	
37.6 8.0		37.6 8.0	
Sample Condition Cool Intact		Sample Condition Cool Intact	
Checked By: [Signature]		Checked By: [Signature]	
Thermometer ID #140		Thermometer ID #140	
Correction Factor -0.5°C		Correction Factor -0.5°C	
Turnaround Time: Standard		Turnaround Time: Standard	
Cool Intact Observed Temp. °C		Cool Intact Observed Temp. °C	
Yes No		Yes No	
Corrected Temp. °C		Corrected Temp. °C	
FORM-006 R.3.2 10/07/21		† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com	



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: H&R Enterprises		BILL TO		ANALYSIS REQUEST	
Project Manager: Michael Collier		P.O. #:			
Address:		Company: Coterra Energy			
City:		Attn: Laci Luig			
State:		Address:			
Phone #:		City:			
Fax #:		State:			
Project #:		Zip:			
Project Name: Hornsby 35 Fed Com CTB (Hornsby)		Phone #:			
Project Location: Eddy County, NM		Fax #:			
Sampler Name: M. Collier		SAMPLING			
Lab I.D.		DATE			
1145520		3-1-24			
21 BH-6 0-1'		X		BTEX	
22 BH-6 2'		X		TPH	
23 BH-6 3'		X		Chlorides	
24 BH-6 4'		X			
25 H-1 0-1'		X			
26 H-2		X			
27 H-3		X			
28 H-4		X			
29 H-5		X			
30 H-6		X			
Retinquished By: <i>M. Collier</i>		Date: 3-1-24			
Received By: <i>Michael Collier</i>		Time: 11:40			
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Observed Temp. °C: 20			
Corrected Temp. °C: 20		Sample Condition: Cool / Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
CHECKED BY: (Initials) <i>SC</i>		Thermometer ID: #140			
Correction Factor: 0.0°C		Observed Temp. °C: 20			
FORM-006 R 3.2 10/07/21		REMARKS: pg 3 of 5			



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

December 27, 2024

MICHAEL COLLIER

H & R ENTERPRISES

1010 GAMBLIN ROAD

HOBBS, NM 88240

RE: HORNSBY 35 FED COM CTB

Enclosed are the results of analyses for samples received by the laboratory on 12/20/24 15:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 12/20/2024
 Reported: 12/27/2024
 Project Name: HORNSBY 35 FED COM CTB
 Project Number: (HORNSBY)
 Project Location: COTERRA- EDDY CO NM

Sampling Date: 12/20/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: S - 1 2' (H247739-01)

BTX 8021B			mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/23/2024	ND	2.11	105	2.00	4.54		
Toluene*	<0.050	0.050	12/23/2024	ND	2.04	102	2.00	0.660		
Ethylbenzene*	<0.050	0.050	12/23/2024	ND	2.13	106	2.00	1.02		
Total Xylenes*	<0.150	0.150	12/23/2024	ND	6.43	107	6.00	2.05		
Total BTX	<0.300	0.300	12/23/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	12/23/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/23/2024	ND	219	109	200	1.58	
DRO >C10-C28*	<10.0	10.0	12/23/2024	ND	220	110	200	3.67	
EXT DRO >C28-C36	<10.0	10.0	12/23/2024	ND					

Surrogate: 1-Chlorooctane 86.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 12/20/2024
 Reported: 12/27/2024
 Project Name: HORNSBY 35 FED COM CTB
 Project Number: (HORNSBY)
 Project Location: COTERRA- EDDY CO NM

Sampling Date: 12/20/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: S - 2 2' (H247739-02)

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	12/23/2024	ND	2.08	104	2.00	2.69		
Toluene*	<0.050	0.050	12/23/2024	ND	2.17	108	2.00	2.58		
Ethylbenzene*	<0.050	0.050	12/23/2024	ND	2.10	105	2.00	2.71		
Total Xylenes*	<0.150	0.150	12/23/2024	ND	6.15	103	6.00	2.38		
Total BTEX	<0.300	0.300	12/23/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	12/23/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/23/2024	ND	219	109	200	1.58	
DRO >C10-C28*	<10.0	10.0	12/23/2024	ND	220	110	200	3.67	
EXT DRO >C28-C36	<10.0	10.0	12/23/2024	ND					

Surrogate: 1-Chlorooctane 91.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 12/20/2024
 Reported: 12/27/2024
 Project Name: HORNSBY 35 FED COM CTB
 Project Number: (HORNSBY)
 Project Location: COTERRA- EDDY CO NM

Sampling Date: 12/20/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: S - 3 2' (H247739-03)

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	12/23/2024	ND	2.08	104	2.00	2.69	
Toluene*	<0.050	0.050	12/23/2024	ND	2.17	108	2.00	2.58	
Ethylbenzene*	<0.050	0.050	12/23/2024	ND	2.10	105	2.00	2.71	
Total Xylenes*	<0.150	0.150	12/23/2024	ND	6.15	103	6.00	2.38	
Total BTEx	<0.300	0.300	12/23/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	12/23/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/23/2024	ND	219	109	200	1.58	
DRO >C10-C28*	<10.0	10.0	12/23/2024	ND	220	110	200	3.67	
EXT DRO >C28-C36	<10.0	10.0	12/23/2024	ND					

Surrogate: 1-Chlorooctane 92.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 12/20/2024
 Reported: 12/27/2024
 Project Name: HORNSBY 35 FED COM CTB
 Project Number: (HORNSBY)
 Project Location: COTERRA- EDDY CO NM

Sampling Date: 12/20/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: S - 4 2' (H247739-04)

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	12/23/2024	ND	2.08	104	2.00	2.69		
Toluene*	<0.050	0.050	12/23/2024	ND	2.17	108	2.00	2.58		
Ethylbenzene*	<0.050	0.050	12/23/2024	ND	2.10	105	2.00	2.71		
Total Xylenes*	<0.150	0.150	12/23/2024	ND	6.15	103	6.00	2.38		
Total BTEX	<0.300	0.300	12/23/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	12/23/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/23/2024	ND	219	109	200	1.58	
DRO >C10-C28*	<10.0	10.0	12/23/2024	ND	220	110	200	3.67	
EXT DRO >C28-C36	<10.0	10.0	12/23/2024	ND					

Surrogate: 1-Chlorooctane 92.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 12/20/2024
 Reported: 12/27/2024
 Project Name: HORNSBY 35 FED COM CTB
 Project Number: (HORNSBY)
 Project Location: COTERRA- EDDY CO NM

Sampling Date: 12/20/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: S - 5 2' (H247739-05)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/23/2024	ND	2.08	104	2.00	2.69		
Toluene*	<0.050	0.050	12/23/2024	ND	2.17	108	2.00	2.58		
Ethylbenzene*	<0.050	0.050	12/23/2024	ND	2.10	105	2.00	2.71		
Total Xylenes*	<0.150	0.150	12/23/2024	ND	6.15	103	6.00	2.38		
Total BTX	<0.300	0.300	12/23/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.6 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	12/23/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/23/2024	ND	219	109	200	1.58	
DRO >C10-C28*	<10.0	10.0	12/23/2024	ND	220	110	200	3.67	
EXT DRO >C28-C36	<10.0	10.0	12/23/2024	ND					

Surrogate: 1-Chlorooctane 90.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 12/20/2024
 Reported: 12/27/2024
 Project Name: HORNSBY 35 FED COM CTB
 Project Number: (HORNSBY)
 Project Location: COTERRA- EDDY CO NM

Sampling Date: 12/20/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: S - 6 2' (H247739-06)

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	12/23/2024	ND	2.08	104	2.00	2.69	
Toluene*	<0.050	0.050	12/23/2024	ND	2.17	108	2.00	2.58	
Ethylbenzene*	<0.050	0.050	12/23/2024	ND	2.10	105	2.00	2.71	
Total Xylenes*	<0.150	0.150	12/23/2024	ND	6.15	103	6.00	2.38	
Total BTEx	<0.300	0.300	12/23/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.0 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	12/23/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/23/2024	ND	219	109	200	1.58	
DRO >C10-C28*	<10.0	10.0	12/23/2024	ND	220	110	200	3.67	
EXT DRO >C28-C36	<10.0	10.0	12/23/2024	ND					

Surrogate: 1-Chlorooctane 88.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 12/20/2024
 Reported: 12/27/2024
 Project Name: HORNSBY 35 FED COM CTB
 Project Number: (HORNSBY)
 Project Location: COTERRA- EDDY CO NM

Sampling Date: 12/20/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: S - 7 2' (H247739-07)

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	12/23/2024	ND	2.08	104	2.00	2.69		
Toluene*	<0.050	0.050	12/23/2024	ND	2.17	108	2.00	2.58		
Ethylbenzene*	<0.050	0.050	12/23/2024	ND	2.10	105	2.00	2.71		
Total Xylenes*	<0.150	0.150	12/23/2024	ND	6.15	103	6.00	2.38		
Total BTEX	<0.300	0.300	12/23/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.1 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	12/23/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/23/2024	ND	219	109	200	1.58	
DRO >C10-C28*	<10.0	10.0	12/23/2024	ND	220	110	200	3.67	
EXT DRO >C28-C36	<10.0	10.0	12/23/2024	ND					

Surrogate: 1-Chlorooctane 86.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 12/20/2024
 Reported: 12/27/2024
 Project Name: HORNSBY 35 FED COM CTB
 Project Number: (HORNSBY)
 Project Location: COTERRA- EDDY CO NM

Sampling Date: 12/20/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: S - 8 2' (H247739-08)

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	12/23/2024	ND	2.08	104	2.00	2.69		
Toluene*	<0.050	0.050	12/23/2024	ND	2.17	108	2.00	2.58		
Ethylbenzene*	<0.050	0.050	12/23/2024	ND	2.10	105	2.00	2.71		
Total Xylenes*	<0.150	0.150	12/23/2024	ND	6.15	103	6.00	2.38		
Total BTEX	<0.300	0.300	12/23/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	12/23/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/23/2024	ND	219	109	200	1.58	
DRO >C10-C28*	<10.0	10.0	12/23/2024	ND	220	110	200	3.67	
EXT DRO >C28-C36	<10.0	10.0	12/23/2024	ND					

Surrogate: 1-Chlorooctane 86.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 12/20/2024
 Reported: 12/27/2024
 Project Name: HORNSBY 35 FED COM CTB
 Project Number: (HORNSBY)
 Project Location: COTERRA- EDDY CO NM

Sampling Date: 12/20/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: S - 9 2' (H247739-09)

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	12/23/2024	ND	2.08	104	2.00	2.69		
Toluene*	<0.050	0.050	12/23/2024	ND	2.17	108	2.00	2.58		
Ethylbenzene*	<0.050	0.050	12/23/2024	ND	2.10	105	2.00	2.71		
Total Xylenes*	<0.150	0.150	12/23/2024	ND	6.15	103	6.00	2.38		
Total BTEX	<0.300	0.300	12/23/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	12/23/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/23/2024	ND	219	109	200	1.58	
DRO >C10-C28*	<10.0	10.0	12/23/2024	ND	220	110	200	3.67	
EXT DRO >C28-C36	<10.0	10.0	12/23/2024	ND					

Surrogate: 1-Chlorooctane 87.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 12/20/2024
 Reported: 12/27/2024
 Project Name: HORNSBY 35 FED COM CTB
 Project Number: (HORNSBY)
 Project Location: COTERRA- EDDY CO NM

Sampling Date: 12/20/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: S - 10 2' (H247739-10)

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	12/23/2024	ND	2.08	104	2.00	2.69		
Toluene*	<0.050	0.050	12/23/2024	ND	2.17	108	2.00	2.58		
Ethylbenzene*	<0.050	0.050	12/23/2024	ND	2.10	105	2.00	2.71		
Total Xylenes*	<0.150	0.150	12/23/2024	ND	6.15	103	6.00	2.38		
Total BTEX	<0.300	0.300	12/23/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.3 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	12/23/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/23/2024	ND	219	109	200	1.58	
DRO >C10-C28*	<10.0	10.0	12/23/2024	ND	220	110	200	3.67	
EXT DRO >C28-C36	<10.0	10.0	12/23/2024	ND					

Surrogate: 1-Chlorooctane 84.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 12/20/2024
 Reported: 12/27/2024
 Project Name: HORNSBY 35 FED COM CTB
 Project Number: (HORNSBY)
 Project Location: COTERRA- EDDY CO NM

Sampling Date: 12/20/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: S - 11 2' (H247739-11)

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	12/23/2024	ND	2.08	104	2.00	2.69		
Toluene*	<0.050	0.050	12/23/2024	ND	2.17	108	2.00	2.58		
Ethylbenzene*	<0.050	0.050	12/23/2024	ND	2.10	105	2.00	2.71		
Total Xylenes*	<0.150	0.150	12/23/2024	ND	6.15	103	6.00	2.38		
Total BTEX	<0.300	0.300	12/23/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.3 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	12/23/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/23/2024	ND	219	109	200	1.58	
DRO >C10-C28*	<10.0	10.0	12/23/2024	ND	220	110	200	3.67	
EXT DRO >C28-C36	<10.0	10.0	12/23/2024	ND					

Surrogate: 1-Chlorooctane 89.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 12/20/2024
 Reported: 12/27/2024
 Project Name: HORNSBY 35 FED COM CTB
 Project Number: (HORNSBY)
 Project Location: COTERRA- EDDY CO NM

Sampling Date: 12/20/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: S - 12 2' (H247739-12)

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	12/23/2024	ND	2.08	104	2.00	2.69		
Toluene*	<0.050	0.050	12/23/2024	ND	2.17	108	2.00	2.58		
Ethylbenzene*	<0.050	0.050	12/23/2024	ND	2.10	105	2.00	2.71		
Total Xylenes*	<0.150	0.150	12/23/2024	ND	6.15	103	6.00	2.38		
Total BTEx	<0.300	0.300	12/23/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	12/23/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/23/2024	ND	196	98.2	200	4.69	
DRO >C10-C28*	<10.0	10.0	12/23/2024	ND	189	94.7	200	1.10	
EXT DRO >C28-C36	<10.0	10.0	12/23/2024	ND					

Surrogate: 1-Chlorooctane 70.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 12/20/2024
 Reported: 12/27/2024
 Project Name: HORNSBY 35 FED COM CTB
 Project Number: (HORNSBY)
 Project Location: COTERRA- EDDY CO NM

Sampling Date: 12/20/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: S - 13 2' (H247739-13)

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	12/23/2024	ND	2.08	104	2.00	2.69	
Toluene*	<0.050	0.050	12/23/2024	ND	2.17	108	2.00	2.58	
Ethylbenzene*	<0.050	0.050	12/23/2024	ND	2.10	105	2.00	2.71	
Total Xylenes*	<0.150	0.150	12/23/2024	ND	6.15	103	6.00	2.38	
Total BTEX	<0.300	0.300	12/23/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.1 % 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	12/23/2024	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	12/23/2024	ND	196	98.2	200	4.69	
DRO >C10-C28*	<10.0	10.0	12/23/2024	ND	189	94.7	200	1.10	
EXT DRO >C28-C36	<10.0	10.0	12/23/2024	ND					

Surrogate: 1-Chlorooctane 77.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 12/20/2024
 Reported: 12/27/2024
 Project Name: HORNSBY 35 FED COM CTB
 Project Number: (HORNSBY)
 Project Location: COTERRA- EDDY CO NM

Sampling Date: 12/20/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: S - 14 2' (H247739-14)

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	12/23/2024	ND	2.08	104	2.00	2.69		
Toluene*	<0.050	0.050	12/23/2024	ND	2.17	108	2.00	2.58		
Ethylbenzene*	<0.050	0.050	12/23/2024	ND	2.10	105	2.00	2.71		
Total Xylenes*	<0.150	0.150	12/23/2024	ND	6.15	103	6.00	2.38		
Total BTEX	<0.300	0.300	12/23/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 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	12/23/2024	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	12/23/2024	ND	196	98.2	200	4.69	
DRO >C10-C28*	<10.0	10.0	12/23/2024	ND	189	94.7	200	1.10	
EXT DRO >C28-C36	<10.0	10.0	12/23/2024	ND					

Surrogate: 1-Chlorooctane 72.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 12/20/2024
 Reported: 12/27/2024
 Project Name: HORNSBY 35 FED COM CTB
 Project Number: (HORNSBY)
 Project Location: COTERRA- EDDY CO NM

Sampling Date: 12/20/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: S - 15 2' (H247739-15)

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	12/23/2024	ND	2.08	104	2.00	2.69	
Toluene*	<0.050	0.050	12/23/2024	ND	2.17	108	2.00	2.58	
Ethylbenzene*	<0.050	0.050	12/23/2024	ND	2.10	105	2.00	2.71	
Total Xylenes*	<0.150	0.150	12/23/2024	ND	6.15	103	6.00	2.38	
Total BTEX	<0.300	0.300	12/23/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.8 % 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	12/23/2024	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	12/23/2024	ND	196	98.2	200	4.69	
DRO >C10-C28*	<10.0	10.0	12/23/2024	ND	189	94.7	200	1.10	
EXT DRO >C28-C36	<10.0	10.0	12/23/2024	ND					

Surrogate: 1-Chlorooctane 74.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 12/20/2024
 Reported: 12/27/2024
 Project Name: HORNSBY 35 FED COM CTB
 Project Number: (HORNSBY)
 Project Location: COTERRA- EDDY CO NM

Sampling Date: 12/20/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: S - 16 2' (H247739-16)

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	12/23/2024	ND	2.08	104	2.00	2.69		
Toluene*	<0.050	0.050	12/23/2024	ND	2.17	108	2.00	2.58		
Ethylbenzene*	<0.050	0.050	12/23/2024	ND	2.10	105	2.00	2.71		
Total Xylenes*	<0.150	0.150	12/23/2024	ND	6.15	103	6.00	2.38		
Total BTEX	<0.300	0.300	12/23/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.7 % 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	12/23/2024	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	12/23/2024	ND	196	98.2	200	4.69	
DRO >C10-C28*	<10.0	10.0	12/23/2024	ND	189	94.7	200	1.10	
EXT DRO >C28-C36	<10.0	10.0	12/23/2024	ND					

Surrogate: 1-Chlorooctane 70.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 71.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 12/20/2024
 Reported: 12/27/2024
 Project Name: HORNSBY 35 FED COM CTB
 Project Number: (HORNSBY)
 Project Location: COTERRA- EDDY CO NM

Sampling Date: 12/20/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: S - 17 3' (H247739-17)

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	12/23/2024	ND	2.08	104	2.00	2.69	
Toluene*	<0.050	0.050	12/23/2024	ND	2.17	108	2.00	2.58	
Ethylbenzene*	<0.050	0.050	12/23/2024	ND	2.10	105	2.00	2.71	
Total Xylenes*	<0.150	0.150	12/23/2024	ND	6.15	103	6.00	2.38	
Total BTEX	<0.300	0.300	12/23/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.2 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	12/23/2024	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	12/23/2024	ND	196	98.2	200	4.69	
DRO >C10-C28*	<10.0	10.0	12/23/2024	ND	189	94.7	200	1.10	
EXT DRO >C28-C36	<10.0	10.0	12/23/2024	ND					

Surrogate: 1-Chlorooctane 84.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 12/20/2024
 Reported: 12/27/2024
 Project Name: HORNSBY 35 FED COM CTB
 Project Number: (HORNSBY)
 Project Location: COTERRA- EDDY CO NM

Sampling Date: 12/20/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: S - 18 3' (H247739-18)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/23/2024	ND	2.08	104	2.00	2.69	
Toluene*	<0.050	0.050	12/23/2024	ND	2.17	108	2.00	2.58	
Ethylbenzene*	<0.050	0.050	12/23/2024	ND	2.10	105	2.00	2.71	
Total Xylenes*	<0.150	0.150	12/23/2024	ND	6.15	103	6.00	2.38	
Total BTX	<0.300	0.300	12/23/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.5 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	12/23/2024	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	12/23/2024	ND	196	98.2	200	4.69	
DRO >C10-C28*	<10.0	10.0	12/23/2024	ND	189	94.7	200	1.10	
EXT DRO >C28-C36	<10.0	10.0	12/23/2024	ND					

Surrogate: 1-Chlorooctane 71.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 12/20/2024
 Reported: 12/27/2024
 Project Name: HORNSBY 35 FED COM CTB
 Project Number: (HORNSBY)
 Project Location: COTERRA- EDDY CO NM

Sampling Date: 12/20/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: S - 19 4' (H247739-19)

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	12/23/2024	ND	2.08	104	2.00	2.69	
Toluene*	<0.050	0.050	12/23/2024	ND	2.17	108	2.00	2.58	
Ethylbenzene*	<0.050	0.050	12/23/2024	ND	2.10	105	2.00	2.71	
Total Xylenes*	<0.150	0.150	12/23/2024	ND	6.15	103	6.00	2.38	
Total BTEX	<0.300	0.300	12/23/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.7 % 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	12/23/2024	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	12/23/2024	ND	196	98.2	200	4.69	
DRO >C10-C28*	<10.0	10.0	12/23/2024	ND	189	94.7	200	1.10	
EXT DRO >C28-C36	<10.0	10.0	12/23/2024	ND					

Surrogate: 1-Chlorooctane 73.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 12/20/2024
 Reported: 12/27/2024
 Project Name: HORNSBY 35 FED COM CTB
 Project Number: (HORNSBY)
 Project Location: COTERRA- EDDY CO NM

Sampling Date: 12/20/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: S - 20 4' (H247739-20)

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	12/23/2024	ND	2.08	104	2.00	2.69	
Toluene*	<0.050	0.050	12/23/2024	ND	2.17	108	2.00	2.58	
Ethylbenzene*	<0.050	0.050	12/23/2024	ND	2.10	105	2.00	2.71	
Total Xylenes*	<0.150	0.150	12/23/2024	ND	6.15	103	6.00	2.38	
Total BTEX	<0.300	0.300	12/23/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	12/23/2024	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	12/23/2024	ND	196	98.2	200	4.69	
DRO >C10-C28*	<10.0	10.0	12/23/2024	ND	189	94.7	200	1.10	
EXT DRO >C28-C36	<10.0	10.0	12/23/2024	ND					

Surrogate: 1-Chlorooctane 74.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 12/20/2024
 Reported: 12/27/2024
 Project Name: HORNSBY 35 FED COM CTB
 Project Number: (HORNSBY)
 Project Location: COTERRA- EDDY CO NM

Sampling Date: 12/20/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW - 1 2' (H247739-21)

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	12/23/2024	ND	2.08	104	2.00	2.69	
Toluene*	<0.050	0.050	12/23/2024	ND	2.17	108	2.00	2.58	
Ethylbenzene*	<0.050	0.050	12/23/2024	ND	2.10	105	2.00	2.71	
Total Xylenes*	<0.150	0.150	12/23/2024	ND	6.15	103	6.00	2.38	
Total BTEX	<0.300	0.300	12/23/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.9 % 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	224	16.0	12/23/2024	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	12/23/2024	ND	196	98.2	200	4.69	
DRO >C10-C28*	<10.0	10.0	12/23/2024	ND	189	94.7	200	1.10	
EXT DRO >C28-C36	<10.0	10.0	12/23/2024	ND					

Surrogate: 1-Chlorooctane 78.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 12/20/2024
 Reported: 12/27/2024
 Project Name: HORNSBY 35 FED COM CTB
 Project Number: (HORNSBY)
 Project Location: COTERRA- EDDY CO NM

Sampling Date: 12/20/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW - 2 2' (H247739-22)

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	12/24/2024	ND	2.03	101	2.00	6.73		
Toluene*	<0.050	0.050	12/24/2024	ND	2.04	102	2.00	6.75		
Ethylbenzene*	<0.050	0.050	12/24/2024	ND	2.05	102	2.00	6.45		
Total Xylenes*	<0.150	0.150	12/24/2024	ND	6.16	103	6.00	6.65		
Total BTEX	<0.300	0.300	12/24/2024	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	176	16.0	12/23/2024	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	12/23/2024	ND	196	98.2	200	4.69	
DRO >C10-C28*	<10.0	10.0	12/23/2024	ND	189	94.7	200	1.10	
EXT DRO >C28-C36	<10.0	10.0	12/23/2024	ND					

Surrogate: 1-Chlorooctane 80.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 12/20/2024
 Reported: 12/27/2024
 Project Name: HORNSBY 35 FED COM CTB
 Project Number: (HORNSBY)
 Project Location: COTERRA- EDDY CO NM

Sampling Date: 12/20/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW - 3 2' (H247739-23)

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	12/24/2024	ND	2.03	101	2.00	6.73		
Toluene*	<0.050	0.050	12/24/2024	ND	2.04	102	2.00	6.75		
Ethylbenzene*	<0.050	0.050	12/24/2024	ND	2.05	102	2.00	6.45		
Total Xylenes*	<0.150	0.150	12/24/2024	ND	6.16	103	6.00	6.65		
Total BTEX	<0.300	0.300	12/24/2024	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	12/23/2024	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	12/23/2024	ND	196	98.2	200	4.69	
DRO >C10-C28*	<10.0	10.0	12/23/2024	ND	189	94.7	200	1.10	
EXT DRO >C28-C36	<10.0	10.0	12/23/2024	ND					

Surrogate: 1-Chlorooctane 78.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 12/20/2024
 Reported: 12/27/2024
 Project Name: HORNSBY 35 FED COM CTB
 Project Number: (HORNSBY)
 Project Location: COTERRA- EDDY CO NM

Sampling Date: 12/20/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW - 4 2' (H247739-24)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/24/2024	ND	2.03	101	2.00	6.73		
Toluene*	<0.050	0.050	12/24/2024	ND	2.04	102	2.00	6.75		
Ethylbenzene*	<0.050	0.050	12/24/2024	ND	2.05	102	2.00	6.45		
Total Xylenes*	<0.150	0.150	12/24/2024	ND	6.16	103	6.00	6.65		
Total BTX	<0.300	0.300	12/24/2024	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	192	16.0	12/23/2024	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	12/23/2024	ND	196	98.2	200	4.69	
DRO >C10-C28*	<10.0	10.0	12/23/2024	ND	189	94.7	200	1.10	
EXT DRO >C28-C36	<10.0	10.0	12/23/2024	ND					

Surrogate: 1-Chlorooctane 72.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 12/20/2024
 Reported: 12/27/2024
 Project Name: HORNSBY 35 FED COM CTB
 Project Number: (HORNSBY)
 Project Location: COTERRA- EDDY CO NM

Sampling Date: 12/20/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW - 5 2' (H247739-25)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/24/2024	ND	2.03	101	2.00	6.73		
Toluene*	<0.050	0.050	12/24/2024	ND	2.04	102	2.00	6.75		
Ethylbenzene*	<0.050	0.050	12/24/2024	ND	2.05	102	2.00	6.45		
Total Xylenes*	<0.150	0.150	12/24/2024	ND	6.16	103	6.00	6.65		
Total BTX	<0.300	0.300	12/24/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	12/23/2024	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	12/23/2024	ND	196	98.2	200	4.69	
DRO >C10-C28*	<10.0	10.0	12/23/2024	ND	189	94.7	200	1.10	
EXT DRO >C28-C36	<10.0	10.0	12/23/2024	ND					

Surrogate: 1-Chlorooctane 77.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 12/20/2024
 Reported: 12/27/2024
 Project Name: HORNSBY 35 FED COM CTB
 Project Number: (HORNSBY)
 Project Location: COTERRA- EDDY CO NM

Sampling Date: 12/20/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW - 6 2' (H247739-26)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/24/2024	ND	2.03	101	2.00	6.73		
Toluene*	<0.050	0.050	12/24/2024	ND	2.04	102	2.00	6.75		
Ethylbenzene*	<0.050	0.050	12/24/2024	ND	2.05	102	2.00	6.45		
Total Xylenes*	<0.150	0.150	12/24/2024	ND	6.16	103	6.00	6.65		
Total BTX	<0.300	0.300	12/24/2024	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	12/23/2024	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	12/23/2024	ND	196	98.2	200	4.69	
DRO >C10-C28*	<10.0	10.0	12/23/2024	ND	189	94.7	200	1.10	
EXT DRO >C28-C36	<10.0	10.0	12/23/2024	ND					

Surrogate: 1-Chlorooctane 73.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 12/20/2024
 Reported: 12/27/2024
 Project Name: HORNSBY 35 FED COM CTB
 Project Number: (HORNSBY)
 Project Location: COTERRA- EDDY CO NM

Sampling Date: 12/20/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW - 7 2'-3' (H247739-27)

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	12/24/2024	ND	2.03	101	2.00	6.73		
Toluene*	<0.050	0.050	12/24/2024	ND	2.04	102	2.00	6.75		
Ethylbenzene*	<0.050	0.050	12/24/2024	ND	2.05	102	2.00	6.45		
Total Xylenes*	<0.150	0.150	12/24/2024	ND	6.16	103	6.00	6.65		
Total BTEX	<0.300	0.300	12/24/2024	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	192	16.0	12/23/2024	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	12/23/2024	ND	196	98.2	200	4.69	
DRO >C10-C28*	<10.0	10.0	12/23/2024	ND	189	94.7	200	1.10	
EXT DRO >C28-C36	<10.0	10.0	12/23/2024	ND					

Surrogate: 1-Chlorooctane 75.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 12/20/2024
 Reported: 12/27/2024
 Project Name: HORNSBY 35 FED COM CTB
 Project Number: (HORNSBY)
 Project Location: COTERRA- EDDY CO NM

Sampling Date: 12/20/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW - 8 3' (H247739-28)

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	12/24/2024	ND	2.03	101	2.00	6.73		
Toluene*	<0.050	0.050	12/24/2024	ND	2.04	102	2.00	6.75		
Ethylbenzene*	<0.050	0.050	12/24/2024	ND	2.05	102	2.00	6.45		
Total Xylenes*	<0.150	0.150	12/24/2024	ND	6.16	103	6.00	6.65		
Total BTEX	<0.300	0.300	12/24/2024	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	12/23/2024	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	12/23/2024	ND	196	98.2	200	4.69	
DRO >C10-C28*	<10.0	10.0	12/23/2024	ND	189	94.7	200	1.10	
EXT DRO >C28-C36	<10.0	10.0	12/23/2024	ND					

Surrogate: 1-Chlorooctane 74.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 12/20/2024
 Reported: 12/27/2024
 Project Name: HORNSBY 35 FED COM CTB
 Project Number: (HORNSBY)
 Project Location: COTERRA- EDDY CO NM

Sampling Date: 12/20/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW - 9 3' (H247739-29)

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	12/24/2024	ND	2.03	101	2.00	6.73		
Toluene*	<0.050	0.050	12/24/2024	ND	2.04	102	2.00	6.75		
Ethylbenzene*	<0.050	0.050	12/24/2024	ND	2.05	102	2.00	6.45		
Total Xylenes*	<0.150	0.150	12/24/2024	ND	6.16	103	6.00	6.65		
Total BTEX	<0.300	0.300	12/24/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 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	12/23/2024	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	12/23/2024	ND	196	98.2	200	4.69	
DRO >C10-C28*	<10.0	10.0	12/23/2024	ND	189	94.7	200	1.10	
EXT DRO >C28-C36	<10.0	10.0	12/23/2024	ND					

Surrogate: 1-Chlorooctane 79.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 12/20/2024
 Reported: 12/27/2024
 Project Name: HORNSBY 35 FED COM CTB
 Project Number: (HORNSBY)
 Project Location: COTERRA- EDDY CO NM

Sampling Date: 12/20/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW - 10 3' (H247739-30)

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	12/24/2024	ND	2.03	101	2.00	6.73		
Toluene*	<0.050	0.050	12/24/2024	ND	2.04	102	2.00	6.75		
Ethylbenzene*	<0.050	0.050	12/24/2024	ND	2.05	102	2.00	6.45		
Total Xylenes*	<0.150	0.150	12/24/2024	ND	6.16	103	6.00	6.65		
Total BTEx	<0.300	0.300	12/24/2024	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	224	16.0	12/23/2024	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	12/23/2024	ND	196	98.2	200	4.69	
DRO >C10-C28*	<10.0	10.0	12/23/2024	ND	189	94.7	200	1.10	
EXT DRO >C28-C36	<10.0	10.0	12/23/2024	ND					

Surrogate: 1-Chlorooctane 75.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 12/20/2024
 Reported: 12/27/2024
 Project Name: HORNSBY 35 FED COM CTB
 Project Number: (HORNSBY)
 Project Location: COTERRA- EDDY CO NM

Sampling Date: 12/20/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW - 11 3' (H247739-31)

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	12/24/2024	ND	2.03	101	2.00	6.73		
Toluene*	<0.050	0.050	12/24/2024	ND	2.04	102	2.00	6.75		
Ethylbenzene*	<0.050	0.050	12/24/2024	ND	2.05	102	2.00	6.45		
Total Xylenes*	<0.150	0.150	12/24/2024	ND	6.16	103	6.00	6.65		
Total BTEX	<0.300	0.300	12/24/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	12/23/2024	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	12/24/2024	ND	196	98.2	200	4.69	
DRO >C10-C28*	<10.0	10.0	12/24/2024	ND	189	94.7	200	1.10	
EXT DRO >C28-C36	<10.0	10.0	12/24/2024	ND					

Surrogate: 1-Chlorooctane 77.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 12/20/2024
 Reported: 12/27/2024
 Project Name: HORNSBY 35 FED COM CTB
 Project Number: (HORNSBY)
 Project Location: COTERRA- EDDY CO NM

Sampling Date: 12/20/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW - 12 3'-4' (H247739-32)

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	12/24/2024	ND	2.03	101	2.00	6.73		
Toluene*	<0.050	0.050	12/24/2024	ND	2.04	102	2.00	6.75		
Ethylbenzene*	<0.050	0.050	12/24/2024	ND	2.05	102	2.00	6.45		
Total Xylenes*	<0.150	0.150	12/24/2024	ND	6.16	103	6.00	6.65		
Total BTEx	<0.300	0.300	12/24/2024	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	208	16.0	12/23/2024	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	12/24/2024	ND	182	90.9	200	0.240	
DRO >C10-C28*	<10.0	10.0	12/24/2024	ND	186	92.9	200	0.953	
EXT DRO >C28-C36	<10.0	10.0	12/24/2024	ND					

Surrogate: 1-Chlorooctane 80.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 12/20/2024
 Reported: 12/27/2024
 Project Name: HORNSBY 35 FED COM CTB
 Project Number: (HORNSBY)
 Project Location: COTERRA- EDDY CO NM

Sampling Date: 12/20/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW - 13 4' (H247739-33)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/24/2024	ND	2.03	101	2.00	6.73		
Toluene*	<0.050	0.050	12/24/2024	ND	2.04	102	2.00	6.75		
Ethylbenzene*	<0.050	0.050	12/24/2024	ND	2.05	102	2.00	6.45		
Total Xylenes*	<0.150	0.150	12/24/2024	ND	6.16	103	6.00	6.65		
Total BTX	<0.300	0.300	12/24/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	12/23/2024	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	12/24/2024	ND	182	90.9	200	0.240	
DRO >C10-C28*	<10.0	10.0	12/24/2024	ND	186	92.9	200	0.953	
EXT DRO >C28-C36	<10.0	10.0	12/24/2024	ND					

Surrogate: 1-Chlorooctane 75.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 12/20/2024
 Reported: 12/27/2024
 Project Name: HORNSBY 35 FED COM CTB
 Project Number: (HORNSBY)
 Project Location: COTERRA- EDDY CO NM

Sampling Date: 12/20/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW - 14 4' (H247739-34)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/24/2024	ND	2.03	101	2.00	6.73	
Toluene*	<0.050	0.050	12/24/2024	ND	2.04	102	2.00	6.75	
Ethylbenzene*	<0.050	0.050	12/24/2024	ND	2.05	102	2.00	6.45	
Total Xylenes*	<0.150	0.150	12/24/2024	ND	6.16	103	6.00	6.65	
Total BTX	<0.300	0.300	12/24/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	12/23/2024	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	12/24/2024	ND	182	90.9	200	0.240	
DRO >C10-C28*	<10.0	10.0	12/24/2024	ND	186	92.9	200	0.953	
EXT DRO >C28-C36	<10.0	10.0	12/24/2024	ND					

Surrogate: 1-Chlorooctane 80.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 12/20/2024
 Reported: 12/27/2024
 Project Name: HORNSBY 35 FED COM CTB
 Project Number: (HORNSBY)
 Project Location: COTERRA- EDDY CO NM

Sampling Date: 12/20/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW - 15 4' (H247739-35)

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	12/24/2024	ND	2.03	101	2.00	6.73		
Toluene*	<0.050	0.050	12/24/2024	ND	2.04	102	2.00	6.75		
Ethylbenzene*	<0.050	0.050	12/24/2024	ND	2.05	102	2.00	6.45		
Total Xylenes*	<0.150	0.150	12/24/2024	ND	6.16	103	6.00	6.65		
Total BTEx	<0.300	0.300	12/24/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	12/23/2024	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	12/24/2024	ND	182	90.9	200	0.240	
DRO >C10-C28*	<10.0	10.0	12/24/2024	ND	186	92.9	200	0.953	
EXT DRO >C28-C36	<10.0	10.0	12/24/2024	ND					

Surrogate: 1-Chlorooctane 82.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 12/20/2024
 Reported: 12/27/2024
 Project Name: HORNSBY 35 FED COM CTB
 Project Number: (HORNSBY)
 Project Location: COTERRA- EDDY CO NM

Sampling Date: 12/20/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW - 16 4' (H247739-36)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/24/2024	ND	2.03	101	2.00	6.73		
Toluene*	<0.050	0.050	12/24/2024	ND	2.04	102	2.00	6.75		
Ethylbenzene*	<0.050	0.050	12/24/2024	ND	2.05	102	2.00	6.45		
Total Xylenes*	<0.150	0.150	12/24/2024	ND	6.16	103	6.00	6.65		
Total BTX	<0.300	0.300	12/24/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	12/23/2024	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	12/24/2024	ND	182	90.9	200	0.240	
DRO >C10-C28*	<10.0	10.0	12/24/2024	ND	186	92.9	200	0.953	
EXT DRO >C28-C36	<10.0	10.0	12/24/2024	ND					

Surrogate: 1-Chlorooctane 86.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.5 % 49.1-148

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Analytical Results For:

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

Received: 12/20/2024
 Reported: 12/27/2024
 Project Name: HORNSBY 35 FED COM CTB
 Project Number: (HORNSBY)
 Project Location: COTERRA- EDDY CO NM

Sampling Date: 12/20/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW - 17 4' (H247739-37)

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	12/24/2024	ND	2.03	101	2.00	6.73		
Toluene*	<0.050	0.050	12/24/2024	ND	2.04	102	2.00	6.75		
Ethylbenzene*	<0.050	0.050	12/24/2024	ND	2.05	102	2.00	6.45		
Total Xylenes*	<0.150	0.150	12/24/2024	ND	6.16	103	6.00	6.65		
Total BTEx	<0.300	0.300	12/24/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	12/23/2024	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	12/24/2024	ND	182	90.9	200	0.240	
DRO >C10-C28*	<10.0	10.0	12/24/2024	ND	186	92.9	200	0.953	
EXT DRO >C28-C36	<10.0	10.0	12/24/2024	ND					

Surrogate: 1-Chlorooctane 81.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.3 % 49.1-148

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Notes and Definitions

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

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: H&R Enterprises Project Manager: Michael Collier Address: City: State: Zip: Phone #: Fax #: Project #: Project Owner: CUMAREX Project Name: HOBBS 35 FEDERAL CTB (FDRS) Project Location: EDDY CEMETERY, NM Sampler Name: M. COLLIER <small>FOR LAB USE ONLY</small>				BILL TO P.O. #: Company: COTERRA Attn: LACI LUIR Address: City: State: Zip: Phone #: Fax #:				ANALYSIS REQUEST			
Lab I.D. HB4739		Sample I.D.		(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:		ACID/BASE: ICE / COOL OTHER:		DATE TIME		TPH BTEX CHLORIDES	
1	S-1	2'	C	1	X			12-20-24	X	X	X
2	S-2										
3	S-3										
4	S-4										
5	S-5										
6	S-6										
7	S-7										
8	S-8										
9	S-9										
10	S-10										

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Relinquished By: <i>M. Collier</i> Date: 12-20-24 Time: 1:50 Received By: <i>Shodriguey</i> Date: 12-20-24 Time:		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #: All Results are emailed. Please provide Email address:	
REMARKS: <i>Pl 1 of 4</i> <i>72 HR RUSH</i>		Turnaround Time: <i>Standard</i> Thermometer ID: <i>#140-0.00</i> Correction Factor: <i>0.5°C</i> Bacteria (only): <input checked="" type="checkbox"/> <i>RUSH</i> Cool, Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No Observed Temp. °C: Corrected Temp. °C:	

Delivered By: (Circle One) ☐ UPS ☐ Bus ☐ Other: ☐ Observed Temp. °C: *2.0* ☐ Corrected Temp. °C: *2.0* ☐ Sample Condition: ☒ Cool ☐ Intact ☐ Yes ☐ No ☐ Checked By: *SC* (initials)



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO			ANALYSIS REQUEST		
Company Name: H&R Enterprises Project Manager: Michael Collier Address: City: State: Zip: Phone #: Fax #: Project Owner: Project Location:			P.O. #: Company: Attn: Address: City: State: Zip: Phone #: Fax #:		
Sampler Name: FOR LAB USE ONLY	Lab I.D.		Sample I.D.		
	#B47739		(G) RAB OR (C) OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE : ICE / COOL OTHER :	MATRIX PRESERV	SAMPLING DATE TIME
	11 S-11 2'	C L	X		12-20-24 X TPH
	12 S-12				X BTEX
	13 S-13				X CHLORIDES
	14 S-14				
	15 S-15				
	16 S-16				
	17 S-17 3'				
	18 S-18 3'				
	19 S-19 4'				
	20 S-20 4'				

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Relinquished By: M J Cole	Date: 6-20-24 Time: 1550	Received By: Stockingney	Verbal Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Phone #: _____
Reinquinshed By:	Date: _____ Time: _____	Received By:	All Results are emailed. Please provide Email address: _____

Delivered By: (Circle One) Sampler - UPS Bus - Other:	Observed Temp., °C : 20.0 Corrected Temp., °C : 20.0	Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>	CHECKED BY: (Initials)	Turnaround Time: #140-DIV Thermometer ID: #443 Corrosion Factor: 0.5°C	Standard Rush <input checked="" type="checkbox"/> Bacteria (only Sample Condition Cool Intact) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>	Observed Temp., °C	Corrected Temp., °C



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: H&R Enterprises				BILL TO				ANALYSIS REQUEST			
Project Manager: Michael Collier				P.O. #:							
Address:				Company:							
City:				Attn:							
State:				Address:							
Zip:				City:							
Phone #:				State:							
Fax #:				Zip:							
Project #:				Project Owner:							
Project Name:				Phone #:							
Project Location:				Fax #:							
Sample Name:				PRESERV:				SAMPLING			
FOR LAB USE ONLY											
Lab I.D.				Sample I.D.							
21 SW-1 2'				C1				TPH			
22 SW-2 1'				X				BTX			
23 SW-3 1'				X				CHLORIDES			
24 SW-4 2'				X							
25 SW-5 2'				X							
26 SW-6 2'				X							
27 SW-7 2-3'				X							
28 SW-8 3'				X							
29 SW-9 1'				X							
30 SW-10 1'				X							
21 SW-1 2'				C1				TPH			
22 SW-2 1'				X				BTX			
23 SW-3 1'				X				CHLORIDES			
24 SW-4 2'				X							
25 SW-5 2'				X							
26 SW-6 2'				X							
27 SW-7 2-3'				X							
28 SW-8 3'				X							
29 SW-9 1'				X							
30 SW-10 1'				X							

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Relinquished By: <u>Michael Collier</u>	Date: <u>12-20-24</u>	Received By: <u>Spokane</u>	Time: <u>1550</u>
Relinquished By:	Date:	Received By:	Time:

Delivered By: (Circle One) Observed Temp. °C 2.0 Corrected Temp. °C 2.0

Sample Condition: Cool Intact Yes No

Checked By: SK (Initials)

Turnaround Time: 140-160 Standard Rush

Thermometer ID: 443 Correction Factor 0.5°C

Bacteria (only) Sample Condition: Cool Intact Yes No

Observed Temp. °C: 72.1 HR RUSH

Corrected Temp. °C: 72.1

Remarks: PG 3 of 4

Verbal Result: ☐ Yes ☐ No ☐ Add'l Phone #:

All Results are emailed. Please provide Email address:

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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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[illegible]

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

QUESTIONS

Action 451354

QUESTIONS

Operator: Coterra Energy Operating Co. 6001 Deauville Blvd Midland, TX 79706	OGRID: 215099
	Action Number: 451354
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2417870294
Incident Name	NAPP2417870294 HORNSBY 35 FEDERAL CTB @ 0
Incident Type	Produced Water Release
Incident Status	Deferral Request Received
Incident Facility	[fAPP2201338838] Hornsby 35 Fed-2H, 3H, 4H-7H, 8H, 10H

Location of Release Source	
Please answer all the questions in this group.	
Site Name	Hornsby 35 Federal CTB
Date Release Discovered	06/25/2024
Surface Owner	Federal

Incident Details	
Please answer all the questions in this group.	
Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Equipment Failure Pipeline (Any) Produced Water Released: 110 BBL Recovered: 10 BBL Lost: 100 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	A 4" surface poly line leaving the facility over pressurized due to an improper kill setting on the water transfer pump, causing a hole to form in the poly line. This resulted in a release of 110 barrels produced water onto the well pad, behind the lined containment and then flowed down onto another well pad. Impacted soils will be scheduled for remediation in the coming weeks.

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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
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Santa Fe, NM 87505

QUESTIONS, Page 2

Action 451354

QUESTIONS (continued)

Operator: Coterra Energy Operating Co. 6001 Deauville Blvd Midland, TX 79706	OGRID: 215099
	Action Number: 451354
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response

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

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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.

I hereby agree and sign off to the above statement	Name: Ashton Thielke Title: EHS Specialist Email: Ashton.Thielke@coterra.com Date: 04/13/2025
--	--

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Phone: (505) 476-3441

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Energy, Minerals and Natural Resources
Oil Conservation Division
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Santa Fe, NM 87505

QUESTIONS, Page 3

Action 451354

QUESTIONS (continued)

Operator: Coterra Energy Operating Co. 6001 Deauville Blvd Midland, TX 79706	OGRID: 215099
	Action Number: 451354
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Site Characterization	
<i>Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 51 and 75 (ft.)
What method was used to determine the depth to ground water	Direct Measurement
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Zero feet, overlying, or within area
Categorize the risk of this well / site being in a karst geology	High
A 100-year floodplain	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	224
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	0
GRO+DRO (EPA SW-846 Method 8015M)	0
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
On what estimated date will the remediation commence	12/16/2024
On what date will (or did) the final sampling or liner inspection occur	12/20/2024
On what date will (or was) the remediation complete(d)	12/20/2024
What is the estimated surface area (in square feet) that will be reclaimed	0
What is the estimated volume (in cubic yards) that will be reclaimed	0
What is the estimated surface area (in square feet) that will be remediated	3850
What is the estimated volume (in cubic yards) that will be remediated	340
<i>These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.</i>	
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

QUESTIONS, Page 4

Action 451354

QUESTIONS (continued)

Operator: Coterra Energy Operating Co. 6001 Deauville Blvd Midland, TX 79706	OGRID: 215099
	Action Number: 451354
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Remediation Plan (continued)	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	LEA LAND LANDFILL [FEEM0112342028]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
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.	
I hereby agree and sign off to the above statement	Name: Ashton Thielke Title: EHS Specialist Email: Ashton.Thielke@coterra.com Date: 04/13/2025
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 5

Action 451354

QUESTIONS (continued)

Operator: Coterra Energy Operating Co. 6001 Deauville Blvd Midland, TX 79706	OGRID: 215099
	Action Number: 451354
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Deferral Requests Only	
<i>Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.</i>	
Requesting a deferral of the remediation closure due date with the approval of this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Is the remaining contamination in areas immediately under or around production equipment where remediation could cause a major facility deconstruction	Yes
Please list or describe the production equipment and how (re)moving the equipment would cause major facility deconstruction	Spill occurred on the north side of the tank battery containment (outside of containment) and traveled both west and south (directly under the containment). Everything that was outside of the containment area was remediated and we are deferring everything that may be impacted under the containment area until P/A activities. Per NMOCDD request, a Groundwater bore was drilled to determine depth to groundwater and it was determined to be static at 55'. Calculation below is based off of worst case scenario of digging the entire battery area to a depth of 3.0'. Realistically it impacted small areas under the tank battery and ~200-300 yards of material would be contaminated. Want to make it clear that the liner was never impacted and the spill did not occur inside of the containment but occurred outside of the containment and travel under it.
What is the remaining surface area (in square feet) that will still need to be remediated if a deferral is granted	8000
What is the remaining volume (in cubic yards) that will still need to be remediated if a deferral is granted	890
<i>Per Paragraph (2) of Subsection C of 19.15.29.12 NMAC if contamination is located in areas immediately under or around production equipment such as production tanks, wellheads and pipelines where remediation could cause a major facility deconstruction, the remediation, restoration and reclamation may be deferred with division written approval until the equipment is removed during other operations, or when the well or facility is plugged or abandoned, whichever comes first.</i>	
Enter the facility ID (f#) on which this deferral should be granted	Hornsby 35 Fed-2H, 3H, 4H-7H, 8H, 10H [fAPP2201338838]
Enter the well API (30-) on which this deferral should be granted	Not answered.
Contamination does not cause an imminent risk to human health, the environment, or groundwater	True
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
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.	
I hereby agree and sign off to the above statement	Name: Ashton Thielke Title: EHS Specialist Email: Ashton.Thielke@coterra.com Date: 04/13/2025

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QUESTIONS, Page 6

Action 451354

QUESTIONS (continued)

Operator: Coterra Energy Operating Co. 6001 Deauville Blvd Midland, TX 79706	OGRID: 215099
	Action Number: 451354
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	413100
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	12/20/2024
What was the (estimated) number of samples that were to be gathered	45
What was the sampling surface area in square feet	5000

Remediation Closure Request

Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.

Requesting a remediation closure approval with this submission	No
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CONDITIONS

Action 451354

CONDITIONS

Operator: Coterra Energy Operating Co. 6001 Deauville Blvd Midland, TX 79706	OGRID: 215099
	Action Number: 451354
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	Cimarex's deferral requests final remediation for (Incident Number NAPP2417870294) until final reclamation of the well pad or major construction, whichever comes first. HR Enterprises and Cimarex do not believe deferment will result in imminent risk to human health, the environment, or groundwater. The impacted soil is the shaded area on "Deferral Area Map" that is limited to the soil underneath the active oil line containment at BH-1 as well as some contaminants leeching into the soil underneath the active central tank battery containment, where remediation would require a major facility deconstruction. At this time, OCD approves this request. The Deferral Request and C-141 will be accepted for record and placed in the incident file. The release will remain open in OCD database files and reflect an open environmental issue.	4/14/2025