

MCollier@H-R Enterprises.com 575-909-0326

## **Site Assessment and Closure Report**

Federal 13 Com #002 Incident# nGEG0420547165 Eddy County, New Mexico

## **Prepared For:**

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

## **Prepared By:**

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

August 18, 2023

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

Subject: **Site Assessment and Closure Report** 

> Federal 13 Com #002 Eddy County, NM

Dear Mr. Bratcher,

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

## **Site Information**

The Federal 13 Com #002 is located approximately 18.1 miles South of Carlsbad, New Mexico. The legal location for this release is Unit Letter K, Section 13, Township 25 South and Range 26 East in Eddy County, New Mexico. More specifically the latitude and longitude for the release are 32.1269608 North and -104.2504272 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 Reeves-Gypsum land complex, 0 to 3 percent slopes. The referenced soil data is attached in Appendix II. Drainage courses in this area are typically dry. The project site is located in a high Karst potential area (Karst Map, Appendix I).

## **Groundwater and Site Characterization**

The New Mexico Office of the State Engineer web site indicates that the nearest reported depth to groundwater is 44-feet below ground surface (BGS). See Appendix II for the referenced groundwater data.

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

## **Approximate Depth to Groundwater** 44 Feet/BGS No Yes Within 300 feet of any continuously flowing watercourse or any other significant watercourse ⊠No Within 200 feet of any lakebed, sinkhole, or a playa lake Yes No Within 300 feet from an occupied permanent residence, school, Yes hospital, institution, or church ⊠No Yes 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 ⊠No Yes Within 1000 feet of any freshwater well or spring Yes ⊠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 Yes $\bowtie$ No Within 300 feet of a wetland Yes $\bowtie$ No Within the area overlying a subsurface mine ⊠Yes No Within an unstable area Yes $\boxtimes$ No Within a 100-year floodplain

As this is an assessment in a high karst as well as being in an area with a depth to groundwater of less than 50-feet BGS, the closure criteria for this site is 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/I 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 July 23, 2004, it was discovered that a hose on a diesel fuel tank had ruptured and released approximately 19 barrels (bbls) of diesel fuel into its containment and onto the well pad.

## Site Assessment and Reclamation Activities

H&R mobilized personnel to begin site assessment, sampling, and reclamation activities of the location. Grab samples were obtained by way of air rotary drill, transported to Cardinal Laboratory for analysis, and the results of that analysis are presented in the following data table. Initial site assessment sampling locations are illustrated on Site Assessment Map, Appendix I. Photographs of the location are attached in Appendix IV. Complete laboratory reports can be found in Appendix V.

Table 1: Initial Soil Samples Analysis

Sample ID	Sample Date	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg
NMOCD Tab	Ne 1 Closure Criter NMAC	ria 19.15.29	50 mg/kg	10 mg/kg		100 mg/kg		100 mg/kg	600 mg/kg
	2 3	0-1'	ND	ND	ND	ND	ND	0	128
	1 8	2"	ND	ND	ND	ND	ND	0	464
		3"	ND	ND	ND	16.9	51.2	68.1	480
	1 8	4"	ND	ND	ND	10.8	23.7	34.5	480
	1 %	5"	ND	ND	ND	ND	ND	0	48
		6"	ND	ND	ND	ND	ND	0	416
	1 1	7	ND	ND	ND	ND	ND	0	400
BH-1	8/7/2023	8"	ND	ND	ND	ND	ND	0	192
	3	9"	ND	ND	ND	ND	ND	0	144
	1 8	10'	ND	ND	ND	ND	ND	0	176
	1 1	11'	ND	ND	ND	ND	ND	0	208
	1 8	12'	ND	ND	ND	ND	ND	0	176
	1 3	13'	ND	ND	ND	ND	ND	0	192
		14'	ND	ND	ND	ND	ND	0	192
	L .	15'	ND	ND	ND	ND	ND	0	176

ND = Analyte Not Detected BH = Borehole Sample

Based on the results of our site assessment, we believe the impact was removed during previous remediation and reclamation activities and no further action is needed.

## Closure

Based on the site assessment activities and sampling results completed for this project, on behalf of Cimarex Energy Co. of Colorado we request that no further actions be required, and that closure of this incident be granted.

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

Respectfully submitted,

H&R Enterprises, LLC

Michael Collier

Michael Collier Environmental Project Manager

## Attachments:

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

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# **APPENDIX I**

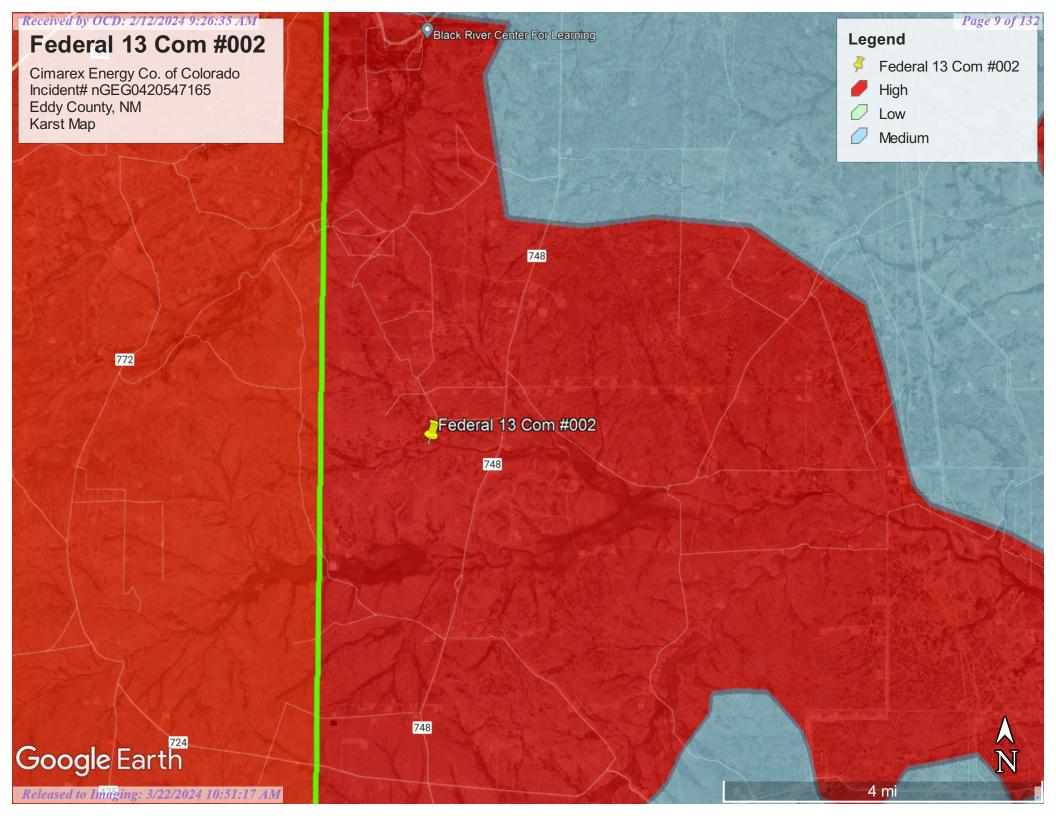
**SITE MAPS** 

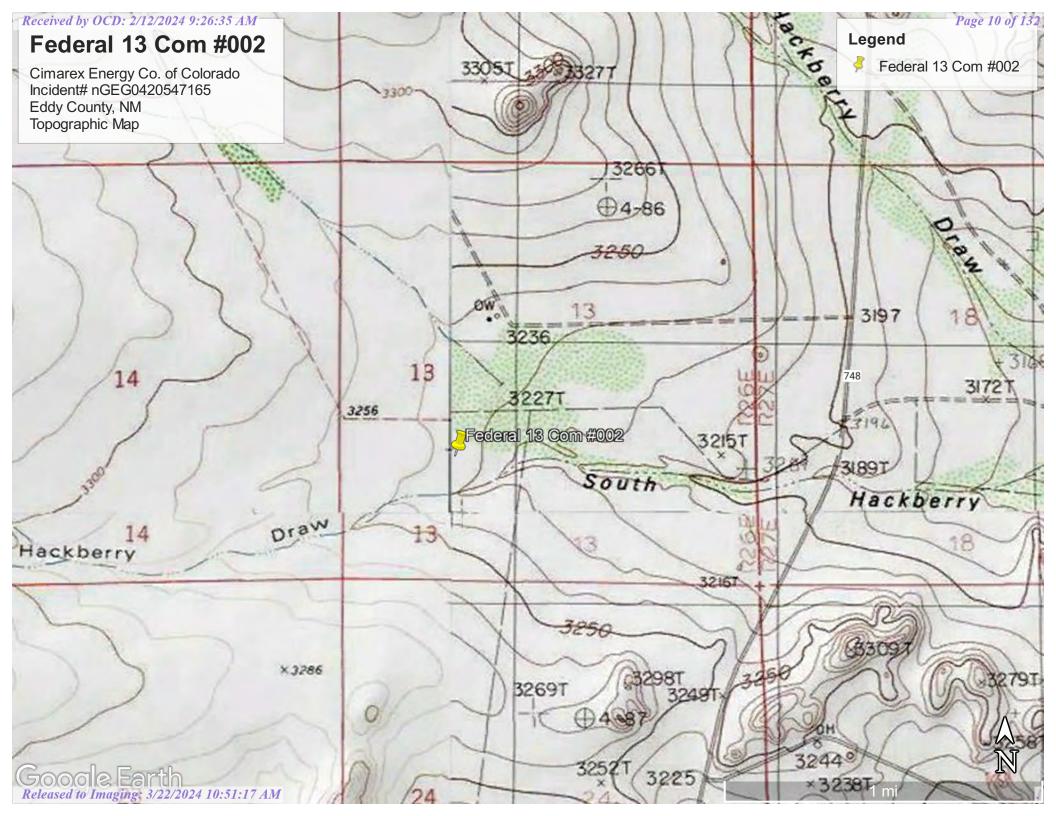
**KARST MAP** 

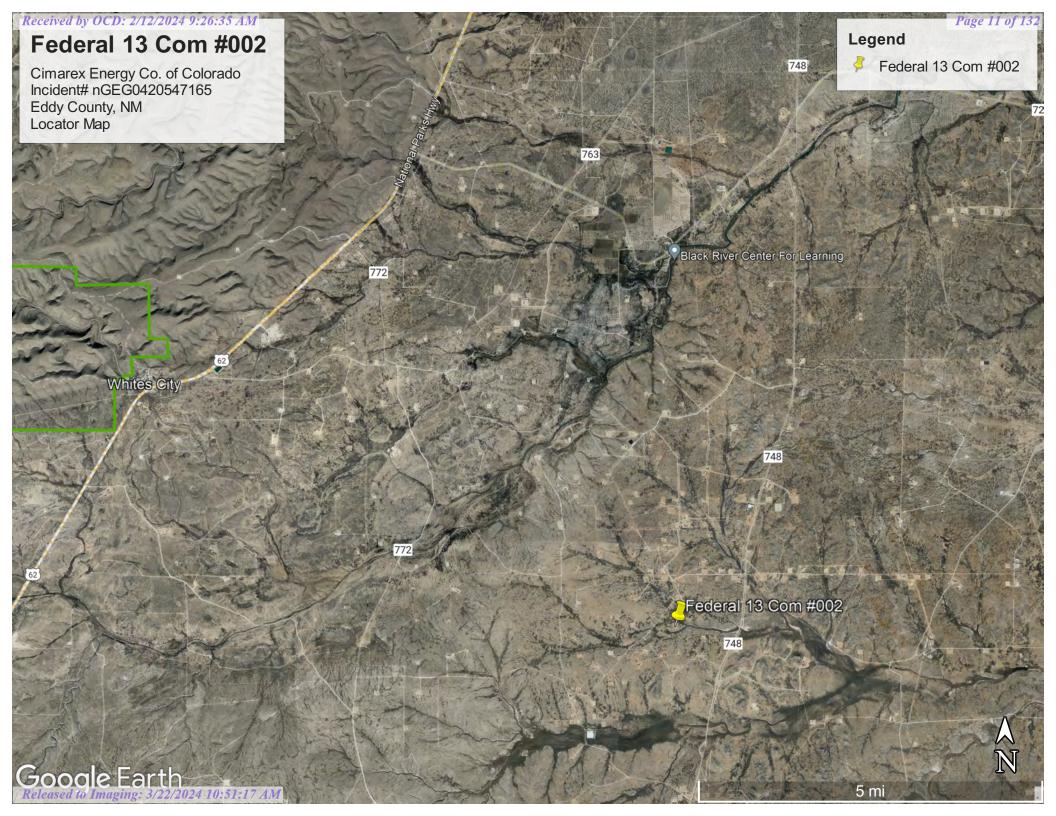
**TOPOGRAPHIC MAP** 

**LOCATOR MAP** 









# **APPENDIX II**

## **GROUNDWATER DATA**

**SOIL SURVEY** 



## New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

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

(R=POD has been replaced, O=orphaned,

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

C=the file is closed)

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

	POI Sub		QQ	Q							W	<sup>7</sup> ater
POD Number	Code basi	n County	64 16	4 Sec	Tws	Rng	X	Y	DistanceDe	pthWellDep	othWater Co	lumn
C 03654 POD1	CUI	ED ED	2 3	1 24	25S	26E	570654	3553773	1001			
C 03569 POD1	CUI	B ED	2 1	1 14	25S	26E	568862	3555746	2110	30	0	30
<u>C 02220</u>	CUI	B ED	3 1	2 26	25S	26E	569598	3552352*	2672	35		
C 03655 POD3	CUI	B ED	1 4	4 22	25S	26E	568458	3553019	2871			
<u>C 02221</u>	CUE	ED ED	4 3	2 25	25S	26E	571412	3551961*	2890	35		
C 04329 POD1	C	ED	2 2	2 27	25S	26E	568577	3552567	3083	57	14	43
C 03261 POD1	CUI	B ED	3 2	1 20	25S	27E	574007	3554006*	3362	351		
<u>C 01013</u>	C	ED		4 25	25S	26E	571505	3551456*	3403	245		
<u>C 01368</u>	C	ED	1	1 22	25S	26E	567261	3554059*	3544	143	118	25
<u>C 01089</u>	C	ED	3 4	1 03	25S	26E	567505	3558398*	4855	96	45	51

Average Depth to Water:

44 feet

Minimum Depth:

0 feet

Maximum Depth:

118 feet

Record Count: 10

**Basin/County Search:** 

County: Eddy

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

**Easting (X):** 570733 **Northing (Y):** 3554771 **Radius:** 5000

\*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.

8/18/23 12:12 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER

## **Eddy Area, New Mexico**

## RG—Reeves-Gypsum land complex, 0 to 3 percent slopes

## **Map Unit Setting**

National map unit symbol: 1w5f Elevation: 1,250 to 5,000 feet

Mean annual precipitation: 10 to 25 inches Mean annual air temperature: 57 to 70 degrees F

Frost-free period: 190 to 235 days

Farmland classification: Not prime farmland

## **Map Unit Composition**

Reeves and similar soils: 55 percent

Gypsum land: 30 percent Minor components: 15 percent

Estimates are based on observations, descriptions, and transects of

the mapunit.

## **Description of Reeves**

## Setting

Landform: Ridges, plains, hills

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

footslope, toeslope

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

nose slope, crest Down-slope shape: Convex Across-slope shape: Linear

Parent material: Residuum weathered from gypsum

## Typical profile

H1 - 0 to 8 inches: loam H2 - 8 to 32 inches: clay loam

H3 - 32 to 60 inches: gypsiferous material

#### **Properties and qualities**

Slope: 0 to 1 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained

Runoff class: High

Capacity of the most limiting layer to transmit water (Ksat): Very low

to moderately low (0.00 to 0.06 in/hr) Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 25 percent

Gypsum, maximum content: 80 percent

Maximum salinity: Very slightly saline to moderately saline (2.0 to

8.0 mmhos/cm)

Sodium adsorption ratio, maximum: 4.0

Available water supply, 0 to 60 inches: Low (about 4.3 inches)

## Interpretive groups

Land capability classification (irrigated): 3s Land capability classification (nonirrigated): 7s

Hydrologic Soil Group: B

Ecological site: R070BC007NM - Loamy

Hydric soil rating: No

## **Description of Gypsum Land**

## Setting

Landform: Ridges, plains, hills

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

footslope, toeslope

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

nose slope, crest Down-slope shape: Convex Across-slope shape: Linear

Parent material: Residuum weathered from gypsum

## Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 8s

Hydric soil rating: No

## **Minor Components**

#### Largo

Percent of map unit: 5 percent

Ecological site: R070BC007NM - Loamy

Hydric soil rating: No

## Reagan

Percent of map unit: 5 percent

Ecological site: R070BC007NM - Loamy

Hydric soil rating: No

#### Cottonwood

Percent of map unit: 5 percent

Ecological site: R070BC033NM - Salty Bottomland

Hydric soil rating: No

## **Data Source Information**

Soil Survey Area: Eddy Area, New Mexico Survey Area Data: Version 18, Sep 8, 2022

# **APPENDIX III**

**INITIAL C-141** 

**FINAL C-141** 

**NMOCD Communication** 

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	nGEG0420547165
District RP	
Facility ID	
Application ID	

## **Release Notification**

## **Responsible Party**

Responsible Party OGRID							
Contact Nam	e			Contact Te	elephone		
Contact email Incident				Incident #	(assigned by OCD	)	
Contact mail	ing address						
			Location	of Release So	ource		
Latitude			(NAD 83 in dec	Longitude _ cimal degrees to 5 decim	nal places)		
Site Name				Site Type			
Date Release	Discovered			API# (if app	licable)		
Unit Letter	Section	Township Range Cou			unty		
Crude Oil	Material	Federal Tr	Nature and	l Volume of I		e volumes provided below)	
Produced		Volume Released			Volume Reco	,	
	water	Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?			Yes No		
Condensa	te	Volume Release	d (bbls)		Volume Reco	overed (bbls)	
Natural Gas Volume Released (Mcf)				Volume Recovered (Mcf)			
Other (des	Other (describe) Volume/Weight Released (provide units)			Volume/Wei	ght Recovered (provide units)		
Cause of Rela	ease						

Received by OCD: 2/12/2024 9:26:35 AM Form C-141 State of New Mexico Page 2 Oil Conservation Division

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Incident ID	nGEG0420547165
District RP	
Facility ID	
Application ID	

Was this a major	If YES, for what reason(s) does the responsible party consider this a major release?
release as defined by 19.15.29.7(A) NMAC?	
☐ Yes ☐ No	
If YES, was immediate no	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?
	Initial Response
The responsible p	party must undertake the following actions immediately unless they could create a safety hazard that would result in injury
☐ The source of the rele	ease has been stopped.
l	s been secured to protect human health and the environment.
Released materials ha	we been contained via the use of berms or dikes, absorbent pads, or other containment devices.
All free liquids and re	ecoverable materials have been removed and managed appropriately.
If all the actions described	d above have not been undertaken, explain why:
has begun, please attach a	AC the responsible party may commence remediation immediately after discovery of a release. If remediation a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred at area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
regulations all operators are public health or the environm failed to adequately investigations.	rmation given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and required to report and/or file certain release notifications and perform corrective actions for releases which may endanger nent. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have atte and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In f a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws
Printed Name:	Title:
Signature:	Date:
email:	Telephone:
OCD Only	
-	Deter
Received by:	Date:

tate of New Mexico

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Incident ID	nGEG0420547165
District RP	
Facility ID	
Application ID	

## Site Assessment/Characterization

 $This information \ must \ be \ provided \ to \ the \ appropriate \ district \ of fice \ no \ later \ than \ 90 \ days \ after \ the \ release \ discovery \ date.$ 

What is the shallowest depth to groundwater beneath the area affected by the release?	(ft bgs)			
Did this release impact groundwater or surface water?	☐ Yes ☐ No			
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☐ No			
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☐ No			
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☐ No			
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☐ No			
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☐ No			
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☐ No			
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☐ No			
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☐ No			
Are the lateral extents of the release overlying an unstable area such as karst geology?				
Are the lateral extents of the release within a 100-year floodplain?				
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	☐ Yes ☐ No			
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.				
Characterization Report Checklist: Each of the following items must be included in the report.				
Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.  Field data  Data table of soil contaminant concentration data  Depth to water determination  Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release  Boring or excavation logs  Photographs including date and GIS information  Topographic/Aerial maps  Laboratory data including chain of custody				

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

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Incident ID	nGEG0420547165
District RP	
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the regulations all operators are required to report and/or file certain release no public health or the environment. The acceptance of a C-141 report by the failed to adequately investigate and remediate contamination that pose a threaddition, OCD acceptance of a C-141 report does not relieve the operator of and/or regulations.	tifications and perform corrective actions for releases which may endanger OCD does not relieve the operator of liability should their operations have reat to groundwater, surface water, human health or the environment. In
Printed Name:	
Signature:	Date:
email:	Telephone:
OCD Only	
Received by:	Date:

Received by OCD: 2/12/2024 9:26:35 AM Form C-141 State of New Mexico Page 6 Oil Conservation Division

Incident ID nGEG0420547165
District RP
Facility ID
Application ID

## Closure

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

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

☐ A scaled site and sampling diagram as described in 19.15.29.1	1 NMAC
Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	of the liner integrity if applicable (Note: appropriate OCD District office
☐ Laboratory analyses of final sampling (Note: appropriate ODC	C District office must be notified 2 days prior to final sampling)
☐ Description of remediation activities	
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of	nediate contamination that pose a threat to groundwater, surface water, a C-141 report does not relieve the operator of responsibility for tions. The responsible party acknowledges they must substantially neditions that existed prior to the release or their final land use in CD when reclamation and re-vegetation are complete.
Signature:	Date:
email:	Telephone:
OCD Only	
Received by:	Date:
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible or regulations.
Closure Approved by:	Date:
Printed Name:	Title:

## **Ashton Thielke**

From: Ashton Thielke

**Sent:** Tuesday, July 11, 2023 9:26 AM

To: Hall, Brittany, EMNRD

Cc: Laci Luig

**Subject:** RE: [EXTERNAL] Federal 13 Com #002 - nGEG0420547165, nJMW1224849818, &

nAB1719137473

**Attachments:** FEDERAL 13 COM #002 - Proposed Sampling Map (07.11.2023).jpg

Good morning yall,

After discussing with Brittany over the phone, attached is a new amended sampling map to better understand the area of the 2017 release (in yellow on the map) and confirm that no contamination remains onsite.

Sampling will be conducted in the next few weeks.

Thanks!



Ashton Thielke | PBU - Environmental Consultant

T: 432.813.8988 | M: 281.753.5659 | Ashton.Thielke@coterra.com | www.coterra.com Coterra Energy Inc. | 6000 Deauville Blvd., Suite 300N | Midland, TX 79706

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

From: Hall, Brittany, EMNRD <Brittany.Hall@emnrd.nm.gov>

Sent: Friday, July 7, 2023 12:51 PM

To: Ashton Thielke <Ashton.Thielke@coterra.com>

Cc: Laci Luig < Laci.Luig@coterra.com>

Subject: RE: [EXTERNAL] Federal 13 Com #002 - nGEG0420547165, nJMW1224849818, & nAB1719137473

Yeah that should work. I will block the time on my calendar.

Have a good weekend!

Brittany Hall • Environmental Specialist Environmental Bureau Projects Group EMNRD - Oil Conservation Division 1000 Rio Brazos Road | Aztec, NM 87110 505.517.5333 | Brittany.Hall@emnrd.nm.gov http://www.emnrd.nm.gov/ocd/

From: Ashton Thielke <Ashton.Thielke@coterra.com>

**Sent:** Friday, July 7, 2023 11:47 AM

To: Hall, Brittany, EMNRD < <a href="mailto:Brittany.Hall@emnrd.nm.gov">Brittany.Hall@emnrd.nm.gov</a>>

Cc: Laci Luig < Laci.Luig@coterra.com >

Subject: Re: [EXTERNAL] Federal 13 Com #002 - nGEG0420547165, nJMW1224849818, & nAB1719137473

Unfortunately, I am on the road today but can do a call Monday or anytime next week to discuss! Adding boreholes is no problem at all! Does 10 am (mst) work for Monday?



Ashton Thielke | PBU - Environmental Consultant

T: 432.813.5347 | M: 281.753.5659 | ashton.thielke@coterra.com | www.coterra.com

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

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

From: Hall, Brittany, EMNRD < Brittany. Hall@emnrd.nm.gov >

Sent: Friday, July 7, 2023 12:44:17 PM

To: Ashton Thielke < Ashton. Thielke@coterra.com>

Cc: Laci Luig < Laci.Luig@coterra.com >

Subject: RE: [EXTERNAL] Federal 13 Com #002 - nGEG0420547165, nJMW1224849818, & nAB1719137473

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.

Sorry Ashton, I didn't forget about this just haven't had the time to look at it until now.

We will need to add a few more bore holes to this in order to get a better characterization of this site.

Do you have some time to talk this afternoon? Some time after 1 but before 3 New Mexico time?

Thanks,

**Brittany Hall** • Environmental Specialist Environmental Bureau Projects Group EMNRD - Oil Conservation Division 1000 Rio Brazos Road | Aztec, NM 87110 505.517.5333 | Brittany.Hall@emnrd.nm.gov http://www.emnrd.nm.gov/ocd/

From: Ashton Thielke < Ashton. Thielke@coterra.com >

Sent: Monday, June 26, 2023 2:42 PM

To: Hall, Brittany, EMNRD < Brittany. Hall@emnrd.nm.gov>

Cc: Laci Luig < Laci.Luig@coterra.com >

Subject: [EXTERNAL] Federal 13 Com #002 - nGEG0420547165, nJMW1224849818, & nAB1719137473

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

Good afternoon Brittany,

Can you review the email below and give me a call to discuss steps needed to close out all of these incidents. Based off of my research, here are my findings below in chronological order:

Attached is the closure report written to the BLM that encompasses the area affected by multiple incidents noted below. (nGEG0420547165 & nAB1719137473)

## nGEG0420547165 - 7.23.2004 - Open

19 bbl Diesel spill. \*Under notes section OCD website states, "Operator handled – No Compliance Written"\*
Based off of aerial imagery, area mentioned above was located within the sample points (WES21-03 & WES21-07). \*See attached BLM Closure Report, page 6\*

Both areas were excavated to a depth of 3.0' with no detection of Hydrocarbons.

## nJMW1224849818 - 10.11.2010 - Open

33 bbl Produced Water Spill Inside the lined earthen containment.

30 bbl recovered. Lost 3 bbl in the dirt.

#### nAB1621441144 - 7.25.2016 - Closed

40 bbl Oil spill inside the lined earthen containment.

30 bbl recovered. Lost 10 bbl to the dirt that was subsequently picked up. This site has been closed.

#### nAB1719137473 - 6.28.2017 - Open

20 bbl Produced Water Flowline release on pad.

0 bbl recovered.

## 2.7.2019 - Well Plug and Abandoned

#### 4.5.2020 - BLM NOV

Need to reclaim pad due to chlorides leaching to the surface in various locations.

#### 10.5.2021 - Reclamation begins

Horizontally and vertically delineated and excavated entire site to depths ranging from 3.0'-11.0' in accordance with the approved BLM reclamation workplan using the strictest NMOCD closure criteria.

\*See attached BLM Closure Report as well as BLM approval of Closure Report\*

## Where I begin (the fun stuff):

1)

**nAB1621441144** – **7.25.2016** – **Closed.** This was a spill inside the plastic lined earthen containment that was closed out. Since this spill took place after and at the same exact spot as "**nJMW1224849818** – **10.11.2010** – **Open**", Cimarex requests this incident be considered closed as any impacted material left from the original spill response in 2010 was removed in 2016 as well as removed in 2021 (during reclamation).

2)

## nAB1719137473 - 6.28.2017 - Open & nGEG0420547165 - 7.23.2004 - Open

The above mentioned spills occurred on the pad and were both removed during excavation and reclamation operations. The pad was excavated between depths of 3.0'-11.0' and samples at those depths were below the strictest NMOCD closure criteria.

Please review the attached approved BLM Closure Report and see if you concur. My goal is to close out the 2 open incidents related to our reclamation efforts.

Due to current site conditions (revegetation and berms/barbed wire for no access to site) and work performed during reclamation, Coterra has reason to believe that any environmental impact remains onsite.

Give me a call once you have reviewed all attached documents.

Thanks!!!

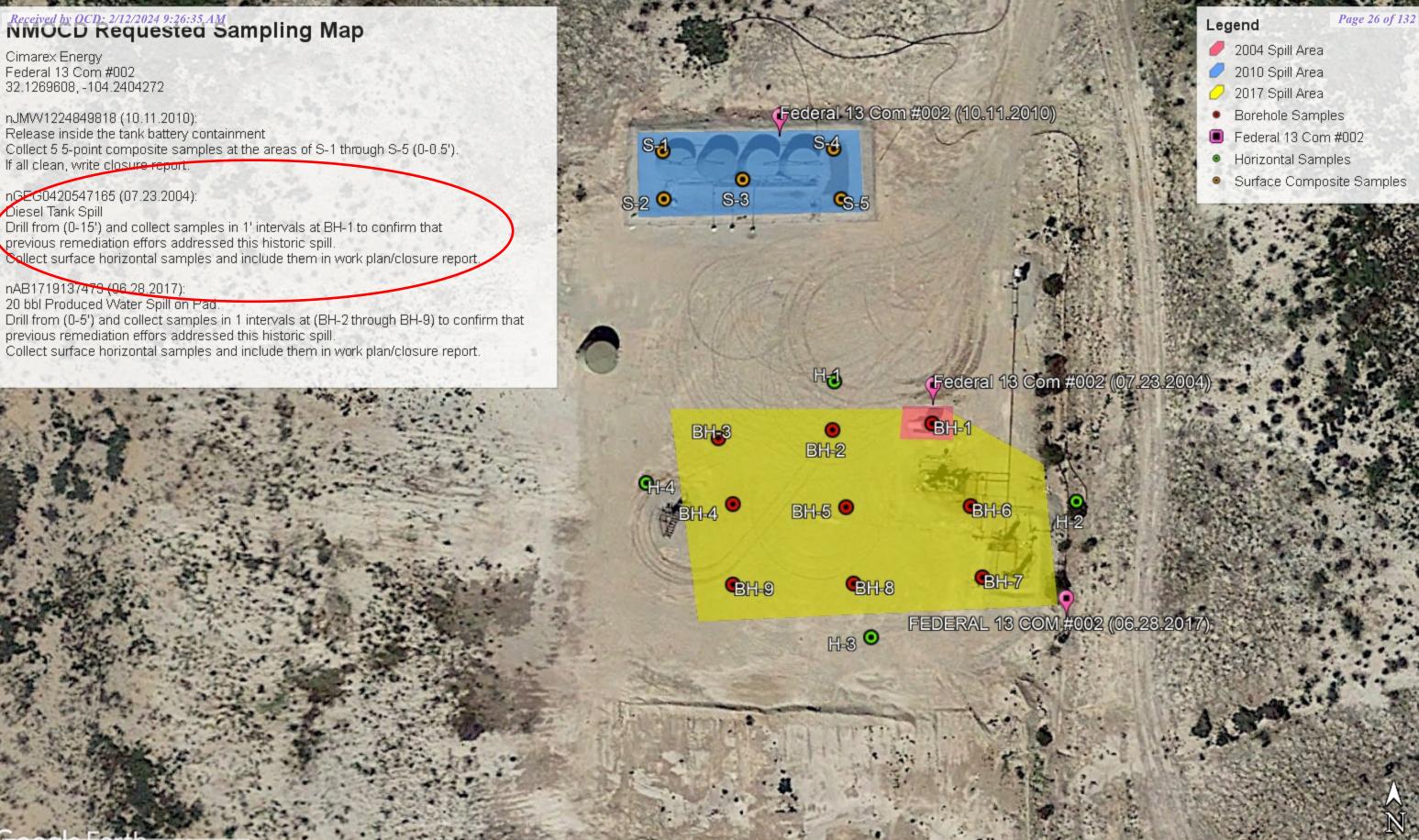


Ashton Thielke | PBU - Environmental Consultant
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Coterra Energy Inc. is the result of the merger of Cimarex Energy Co. and Cabot Oil & Gas Corporation on October 1, 2021.

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# **APPENDIX IV**

# PHOTOGRAPHIC DOCUMENTATION

## PHOTOGRAPHIC DOCUMENTATION

## **SITE ASSESSMENT PHOTOGRAPHS**



BH-1

# **APPENDIX V**

# LABORATORY REPORTS



August 14, 2023

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

RE: FEDERAL 13 COM #002 (FED 13 2004)

Enclosed are the results of analyses for samples received by the laboratory on 08/08/23 13:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

Cardinal Laboratories is accreditated 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)

Celey D. Keine

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



## Analytical Results For:

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

Received: 08/08/2023 Sampling Date: 08/07/2023

Reported: 08/14/2023 Sampling Type: Soil

Project Name: FEDERAL 13 COM #002 (FED 13 2004) Sampling Condition: Cool & Intact
Project Number: NOT GIVEN Sample Received By: Shari Cisneros

Analyzed By MC

Project Location: CIMAREX - EDDY COUNTY, NM

## Sample ID: BH - 1 0-1' (H234243-01)

DTEV 0021D

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/11/2023	ND	2.02	101	2.00	3.53	
Toluene*	<0.050	0.050	08/11/2023	ND	1.96	97.8	2.00	1.68	
Ethylbenzene*	<0.050	0.050	08/11/2023	ND	1.96	98.1	2.00	4.18	
Total Xylenes*	<0.150	0.150	08/11/2023	ND	5.87	97.8	6.00	4.60	
Total BTEX	<0.300	0.300	08/11/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	08/10/2023	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/10/2023	ND	168	83.8	200	2.04	
DRO >C10-C28*	<10.0	10.0	08/10/2023	ND	154	76.8	200	0.382	
EXT DRO >C28-C36	<10.0	10.0	08/10/2023	ND					
Surrogate: 1-Chlorooctane	60.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	57.9	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene



## Analytical Results For:

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

Received: 08/08/2023 Reported:

08/14/2023 Sampling Type:

Analyzed By: MS

Project Name: FEDERAL 13 COM #002 (FED 13 2004) Project Number: NOT GIVEN

Project Location: CIMAREX - EDDY COUNTY, NM Sampling Date: 08/07/2023 Soil

Sampling Condition:

Sample Received By:

Cool & Intact Shari Cisneros

mg/kg

Sample ID: BH - 1 2' (H234243-02)

BTEX 8021B

	9/	9	7	7: : : :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/11/2023	ND	2.02	101	2.00	3.53	
Toluene*	<0.050	0.050	08/11/2023	ND	1.96	97.8	2.00	1.68	
Ethylbenzene*	<0.050	0.050	08/11/2023	ND	1.96	98.1	2.00	4.18	
Total Xylenes*	<0.150	0.150	08/11/2023	ND	5.87	97.8	6.00	4.60	
Total BTEX	<0.300	0.300	08/11/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	08/10/2023	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/10/2023	ND	168	83.8	200	2.04	
DRO >C10-C28*	<10.0	10.0	08/10/2023	ND	154	76.8	200	0.382	
EXT DRO >C28-C36	<10.0	10.0	08/10/2023	ND					
Surrogate: 1-Chlorooctane	86.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	83.3	% 49.1-14	8						

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Celey D. Keene



## Analytical Results For:

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

Received: 08/08/2023

08/14/2023 Project Name: FEDERAL 13 COM #002 (FED 13 2004)

Project Number: NOT GIVEN

Project Location: CIMAREX - EDDY COUNTY, NM Sampling Date: 08/07/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Shari Cisneros

## Sample ID: BH - 1 3' (H234243-03)

Reported:

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS % Recovery	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/11/2023	ND	2.02	101	2.00	3.53	
Toluene*	<0.050	0.050	08/11/2023	ND	1.96	97.8	2.00	1.68	
Ethylbenzene*	<0.050	0.050	08/11/2023	ND	1.96	98.1	2.00	4.18	
Total Xylenes*	<0.150	0.150	08/11/2023	ND	5.87	97.8	6.00	4.60	
Total BTEX	<0.300	0.300	08/11/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	08/10/2023	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/10/2023	ND	168	83.8	200	2.04	
DRO >C10-C28*	16.9	10.0	08/10/2023	ND	154	76.8	200	0.382	
EXT DRO >C28-C36	51.2	10.0	08/10/2023	ND					
Surrogate: 1-Chlorooctane	69.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	66.7	% 49.1-14	18						

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Celey D. Keine



## Analytical Results For:

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

Received: 08/08/2023 Reported:

08/14/2023

Project Name: FEDERAL 13 COM #002 (FED 13 2004)

Project Number: NOT GIVEN

Project Location: CIMAREX - EDDY COUNTY, NM Sampling Date: 08/07/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Shari Cisneros

## Sample ID: BH - 1 4' (H234243-04)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/11/2023	ND	2.02	101	2.00	3.53	
Toluene*	<0.050	0.050	08/11/2023	ND	1.96	97.8	2.00	1.68	
Ethylbenzene*	<0.050	0.050	08/11/2023	ND	1.96	98.1	2.00	4.18	
Total Xylenes*	<0.150	0.150	08/11/2023	ND	5.87	97.8	6.00	4.60	
Total BTEX	<0.300	0.300	08/11/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.1	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	08/10/2023	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/10/2023	ND	168	83.8	200	2.04	
DRO >C10-C28*	10.8	10.0	08/10/2023	ND	154	76.8	200	0.382	
EXT DRO >C28-C36	23.7	10.0	08/10/2023	ND					
Surrogate: 1-Chlorooctane	72.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	70.5	% 49.1-14	8						

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Celey D. Keene



08/07/2023

## Analytical Results For:

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

Received: 08/08/2023 Sampling Date:

Reported: 08/14/2023 Sampling Type: Soil

Project Name: FEDERAL 13 COM #002 (FED 13 2004) Sampling Condition: Cool & Intact
Project Number: NOT GIVEN Sample Received By: Shari Cisneros

Project Location: CIMAREX - EDDY COUNTY, NM

## Sample ID: BH - 1 5' (H234243-05)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/11/2023	ND	2.02	101	2.00	3.53	
Toluene*	<0.050	0.050	08/11/2023	ND	1.96	97.8	2.00	1.68	
Ethylbenzene*	<0.050	0.050	08/11/2023	ND	1.96	98.1	2.00	4.18	
Total Xylenes*	<0.150	0.150	08/11/2023	ND	5.87	97.8	6.00	4.60	
Total BTEX	<0.300	0.300	08/11/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/10/2023	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/10/2023	ND	172	85.8	200	2.09	
DRO >C10-C28*	<10.0	10.0	08/10/2023	ND	182	90.8	200	3.98	
EXT DRO >C28-C36	<10.0	10.0	08/10/2023	ND					
Surrogate: 1-Chlorooctane	77.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	83.2	% 49.1-14	8						

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Celey D. Keene



Sample Received By:

08/07/2023

Shari Cisneros

## Analytical Results For:

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

Received: 08/08/2023 Sampling Date:

Reported: 08/14/2023 Sampling Type: Soil
Project Name: FEDERAL 13 COM #002 (FED 13 2004) Sampling Condition: Cool & Intact

Project Number: NOT GIVEN

Project Location: CIMAREX - EDDY COUNTY, NM

mg/kg

Sample ID: BH - 1 6' (H234243-06)

BTEX 8021B

DRO >C10-C28\*

EXT DRO >C28-C36

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/11/2023	ND	2.02	101	2.00	3.53	
Toluene*	<0.050	0.050	08/11/2023	ND	1.96	97.8	2.00	1.68	
Ethylbenzene*	<0.050	0.050	08/11/2023	ND	1.96	98.1	2.00	4.18	
Total Xylenes*	<0.150	0.150	08/11/2023	ND	5.87	97.8	6.00	4.60	
Total BTEX	<0.300	0.300	08/11/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.6	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Analyte Chloride	Result	Reporting Limit 16.0	Analyzed 08/10/2023	Method Blank	BS 432	% Recovery	True Value QC 400	RPD 3.77	Qualifier
,		16.0	08/10/2023			,	•		Qualifier
Chloride	416	16.0	08/10/2023	ND		,	•		Qualifier  Qualifier

ND

ND

182

90.8

200

3.98

08/10/2023

08/10/2023

Analyzed By: MS

Surrogate: 1-Chlorooctane 75.1 % 48.2-134
Surrogate: 1-Chlorooctadecane 83.8 % 49.1-148

<10.0

<10.0

10.0

10.0

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Celey & Keine



# Analytical Results For:

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

Received: 08/08/2023 Sampling Date: 08/07/2023

Reported: 08/14/2023 Sampling Type: Soil

Project Name: FEDERAL 13 COM #002 (FED 13 2004) Sampling Condition: Cool & Intact
Project Number: NOT GIVEN Sample Received By: Shari Cisneros

Analyzed By: MC

Project Location: CIMAREX - EDDY COUNTY, NM

ma/ka

# Sample ID: BH - 1 7' (H234243-07)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/11/2023	ND	2.02	101	2.00	3.53	
Toluene*	<0.050	0.050	08/11/2023	ND	1.96	97.8	2.00	1.68	
Ethylbenzene*	<0.050	0.050	08/11/2023	ND	1.96	98.1	2.00	4.18	
Total Xylenes*	<0.150	0.150	08/11/2023	ND	5.87	97.8	6.00	4.60	
Total BTEX	<0.300	0.300	08/11/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	08/10/2023	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/10/2023	ND	172	85.8	200	2.09	
DRO >C10-C28*	<10.0	10.0	08/10/2023	ND	182	90.8	200	3.98	
EXT DRO >C28-C36	<10.0	10.0	08/10/2023	ND					
Surrogate: 1-Chlorooctane	78.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	86.3	% 49.1-14	8						

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Celey D. Keene



Cool & Intact

# Analytical Results For:

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

Received: 08/08/2023 Reported:

Sampling Date: 08/07/2023 08/14/2023 Sampling Type: Soil

Project Name: FEDERAL 13 COM #002 (FED 13 2004)

Sampling Condition: Project Number: NOT GIVEN Sample Received By: Shari Cisneros

Project Location: CIMAREX - EDDY COUNTY, NM

# Sample ID: BH - 1 8' (H234243-08)

BTEX 8021B	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/11/2023	ND	2.02	101	2.00	3.53	
Toluene*	<0.050	0.050	08/11/2023	ND	1.96	97.8	2.00	1.68	
Ethylbenzene*	<0.050	0.050	08/11/2023	ND	1.96	98.1	2.00	4.18	
Total Xylenes*	<0.150	0.150	08/11/2023	ND	5.87	97.8	6.00	4.60	
Total BTEX	<0.300	0.300	08/11/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	08/10/2023	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/10/2023	ND	172	85.8	200	2.09	
DRO >C10-C28*	<10.0	10.0	08/10/2023	ND	182	90.8	200	3.98	
EXT DRO >C28-C36	<10.0	10.0	08/10/2023	ND					
Surrogate: 1-Chlorooctane	74.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	82.9	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene



# Analytical Results For:

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

Received: 08/08/2023 Sampling Date: 08/07/2023

Reported: 08/14/2023 Sampling Type: Soil

Project Name: FEDERAL 13 COM #002 (FED 13 2004) Sampling Condition: Cool & Intact
Project Number: NOT GIVEN Sample Received By: Shari Cisneros

Analyzed By: MS

Project Location: CIMAREX - EDDY COUNTY, NM

mg/kg

# Sample ID: BH - 1 9' (H234243-09)

BTEX 8021B

DILX GOZID	ıııg,	, kg	Alldiyzo	u by. 1-15					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/11/2023	ND	2.02	101	2.00	3.53	
Toluene*	<0.050	0.050	08/11/2023	ND	1.96	97.8	2.00	1.68	
Ethylbenzene*	<0.050	0.050	08/11/2023	ND	1.96	98.1	2.00	4.18	
Total Xylenes*	<0.150	0.150	08/11/2023	ND	5.87	97.8	6.00	4.60	
Total BTEX	<0.300	0.300	08/11/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	08/10/2023	ND	432	108	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/10/2023	ND	172	85.8	200	2.09	
DRO >C10-C28*	<10.0	10.0	08/10/2023	ND	182	90.8	200	3.98	
EXT DRO >C28-C36	<10.0	10.0	08/10/2023	ND					
Surrogate: 1-Chlorooctane	73.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	81.2	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene



Sample Received By:

08/07/2023

Cool & Intact

Shari Cisneros

# Analytical Results For:

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

Received: 08/08/2023 Sampling Date:

Reported: 08/14/2023 Sampling Type: Soil

Project Name: FEDERAL 13 COM #002 (FED 13 2004) Sampling Condition:

Project Location: CIMAREX - EDDY COUNTY, NM

NOT GIVEN

78.5 %

49.1-148

Sample ID: BH - 1 10' (H234243-10)

Project Number:

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/11/2023	ND	2.02	101	2.00	3.53	
Toluene*	<0.050	0.050	08/11/2023	ND	1.96	97.8	2.00	1.68	
Ethylbenzene*	<0.050	0.050	08/11/2023	ND	1.96	98.1	2.00	4.18	
Total Xylenes*	<0.150	0.150	08/11/2023	ND	5.87	97.8	6.00	4.60	
Total BTEX	<0.300	0.300	08/11/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	08/10/2023	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/10/2023	ND	172	85.8	200	2.09	
DRO >C10-C28*	<10.0	10.0	08/10/2023	ND	182	90.8	200	3.98	
EXT DRO >C28-C36	<10.0	10.0	08/10/2023	ND					
Surrogate: 1-Chlorooctane	70.6	% 48.2-13	4						

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Celey & Keene

Surrogate: 1-Chlorooctadecane



08/07/2023

Cool & Intact

Soil

# Analytical Results For:

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

Received: 08/08/2023 Reported: 08/14/2023

08/08/2023 Sampling Date: 08/14/2023 Sampling Type:

Analyzed By: MS

Sampling Condition:

Project Name: FEDERAL 13 COM #002 (FED 13 2004)

Project Number: NOT GIVEN Sample Received By: Shari Cisneros

Project Location: CIMAREX - EDDY COUNTY, NM

mg/kg

# Sample ID: BH - 1 11' (H234243-11)

BTEX 8021B

	9/	9	7	7					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/11/2023	ND	2.02	101	2.00	3.53	
Toluene*	<0.050	0.050	08/11/2023	ND	1.96	97.8	2.00	1.68	
Ethylbenzene*	<0.050	0.050	08/11/2023	ND	1.96	98.1	2.00	4.18	
Total Xylenes*	<0.150	0.150	08/11/2023	ND	5.87	97.8	6.00	4.60	
Total BTEX	<0.300	0.300	08/11/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.2	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	08/10/2023	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/10/2023	ND	172	85.8	200	2.09	
DRO >C10-C28*	<10.0	10.0	08/10/2023	ND	182	90.8	200	3.98	
EXT DRO >C28-C36	<10.0	10.0	08/10/2023	ND					
Surrogate: 1-Chlorooctane	76.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	82.6	% 49.1-14	8						

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Celey D. Keene



08/07/2023

Shari Cisneros

Sampling Date:

Sample Received By:

# Analytical Results For:

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

Received: 08/08/2023

mg/kg

Reported: 08/14/2023 Sampling Type: Soil
Project Name: FEDERAL 13 COM #002 (FED 13 2004) Sampling Condition: Cool & Intact

Project Name: FEDERAL 13 COM #002 (FED 13 2004)
Project Number: NOT GIVEN

Project Location: CIMAREX - EDDY COUNTY, NM

Sample ID: BH - 1 12' (H234243-12)

BTEX 8021B

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/11/2023	ND	2.02	101	2.00	3.53	
Toluene*	<0.050	0.050	08/11/2023	ND	1.96	97.8	2.00	1.68	
Ethylbenzene*	<0.050	0.050	08/11/2023	ND	1.96	98.1	2.00	4.18	
Total Xylenes*	<0.150	0.150	08/11/2023	ND	5.87	97.8	6.00	4.60	
Total BTEX	<0.300	0.300	08/11/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	08/10/2023	ND	432	108	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/10/2023	ND	172	85.8	200	2.09	
DRO >C10-C28*	<10.0	10.0	08/10/2023	ND	182	90.8	200	3.98	
EXT DRO >C28-C36	<10.0	10.0	08/10/2023	ND					

Analyzed By: MS

Surrogate: 1-Chlorooctane 73.7 % 48.2-134
Surrogate: 1-Chlorooctadecane 79.6 % 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: 08/08/2023 Sampling Date: 08/07/2023

Reported: 08/14/2023 Sampling Type: Soil

Project Name: FEDERAL 13 COM #002 (FED 13 2004) Sampling Condition: Cool & Intact
Project Number: NOT GIVEN Sample Received By: Shari Cisneros

Analyzed By: MS

Project Location: CIMAREX - EDDY COUNTY, NM

mg/kg

# Sample ID: BH - 1 13' (H234243-13)

BTEX 8021B

	9/	9	7	7: : : :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/11/2023	ND	2.02	101	2.00	3.53	
Toluene*	<0.050	0.050	08/11/2023	ND	1.96	97.8	2.00	1.68	
Ethylbenzene*	<0.050	0.050	08/11/2023	ND	1.96	98.1	2.00	4.18	
Total Xylenes*	<0.150	0.150	08/11/2023	ND	5.87	97.8	6.00	4.60	
Total BTEX	<0.300	0.300	08/11/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	08/10/2023	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/10/2023	ND	172	85.8	200	2.09	
DRO >C10-C28*	<10.0	10.0	08/10/2023	ND	182	90.8	200	3.98	
EXT DRO >C28-C36	<10.0	10.0	08/10/2023	ND					
Surrogate: 1-Chlorooctane	77.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	83.5	% 49.1-14	8						

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# Analytical Results For:

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

Received: 08/08/2023 Reported: 08/14/2023

08/14/2023 Sampling Type:

Applyzod By: MC

Project Name: FEDERAL 13 COM #002 (FED 13 2004)
Project Number: NOT GIVEN

ma/ka

Project Location: CIMAREX - EDDY COUNTY, NM

Sampling Date: 08/07/2023
Sampling Type: Soil

Sampling Condition:

Sample Received By:

Cool & Intact Shari Cisneros

Sample ID: BH - 1 14' (H234243-14)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/11/2023	ND	2.02	101	2.00	3.53	
Toluene*	<0.050	0.050	08/11/2023	ND	1.96	97.8	2.00	1.68	
Ethylbenzene*	<0.050	0.050	08/11/2023	ND	1.96	98.1	2.00	4.18	
Total Xylenes*	<0.150	0.150	08/11/2023	ND	5.87	97.8	6.00	4.60	
Total BTEX	<0.300	0.300	08/11/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	08/10/2023	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/10/2023	ND	172	85.8	200	2.09	
DRO >C10-C28*	<10.0	10.0	08/10/2023	ND	182	90.8	200	3.98	
EXT DRO >C28-C36	<10.0	10.0	08/10/2023	ND					
Surrogate: 1-Chlorooctane	76.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	81.8	% 49.1-14	8						

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Sample Received By:

08/07/2023

Shari Cisneros

# Analytical Results For:

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

Received: 08/08/2023 Sampling Date:

Reported: 08/14/2023 Sampling Type: Soil Project Name: FEDERAL 13 COM #002 (FED 13 2004) Sampling Condition: Cool & Intact

Project Number: NOT GIVEN

Project Location: CIMAREX - EDDY COUNTY, NM

Sample ID: BH - 1 15' (H234243-15)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/11/2023	ND	2.02	101	2.00	3.53	
Toluene*	<0.050	0.050	08/11/2023	ND	1.96	97.8	2.00	1.68	
Ethylbenzene*	<0.050	0.050	08/11/2023	ND	1.96	98.1	2.00	4.18	
Total Xylenes*	<0.150	0.150	08/11/2023	ND	5.87	97.8	6.00	4.60	
Total BTEX	<0.300	0.300	08/11/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	08/10/2023	ND	432	108	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/10/2023	ND	172	85.8	200	2.09	
DRO >C10-C28*	<10.0	10.0	08/10/2023	ND	182	90.8	200	3.98	
EXT DRO >C28-C36	<10.0	10.0	08/10/2023	ND					
Surrogate: 1-Chlorooctane	74.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	81.6	% 49.1-14	8						

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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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# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Project Manager: Michael Collier  Address:  City:  State:  Zip:  Attn: Laci Luig
ess: State: Zip:
State: Zip:
Fax #: Address:
Project #: Project Owner: Climarex Energy City:
Dr.
Phone #:
Sampler Name: Roy Bell Fax #:
MATRIX DDESERV
ASE: OOL
(G)RA # COI
1' G 1 X X 8/7/23
3 BH-1 3"
W BH-1 4'
S BH-1 S'
6 BH-1 6'
) BH-1 7'
S BH-1 8'
G BH-1 9'
L
A review or to usually an outside in compared cares entained manifel any share what was also a location or us, what he island in the second pict of the delice the entained by the clear of the compared cares entained manifeld and what what is and of the collection or us what he island in the second pict of the state of the collection or use of the collection or use of the collection of th
Relinquished By:    Date: 18   0.3   Received By:   Verbal Result:   Yes   No
3.00
Received By:  Received By:  Remarks: PG 1 of 2
Sampler - UPS - Bus - Other: Corrected Temp. "C Copy Initiacy (Initials) Rep. Condition CHECKED BY: Transcount Temp. C Copy Initiacy (Initials) Rep. Cool Indication Checked Temp. C Cool Initials (Initials) Rep. Cool Initials
Thermome

Page 18 of 19

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# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

company Name	Company Name: H&R Enterprises	orises				BIL	BILL TO				A	ANALY	ALYSIS REQUEST	EQUE	ST				
roject Manage	Project Manager: Michael Collier				P.O.#:						-	-	+	+	+	-	+	-	
Address:					Compa	ıny: Cima	Company: Cimarex Energy	V			_	_	_	_	_	_	_	_	_
City:		State: 2	Zip:		Attn: L	Attn: Laci Luig					_	_	_	_	_		_	_	_
Phone #:		Fax#:			Address:	S:					_	_	_	_	_			_	_
Project #:		Project Owner: Cimarex Energy	Cimarex E	nergy	City:						_	_	_	_	_		_	_	
roject Name: F	Project Name: Federal 13 Com #002 (Fed 13 2004)	(Fed 13 2004)			State:	2	Zip:						_	_					
roject Location	Project Location: Eddy County, NM				Phone #:						_	_	_	_	_				
Sampler Name: Roy Bell	Rov Bell				Env #						_	_	_	_				_	
ampier Name:	Roy Bell				Fax #:						_	_	_	_	_				
Lab I.D.			Г	MATRIX	PRES	PRESERV.	SAMPLING	ING		_	_	_			_				
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3	BH-1 13'								-	+	+	+	+	+	†	+	+	+	+
H	BH-1 14'									+	7	+	+	+	1	+	+	+	+
S	BH-1 15'								+	+	+	+	+	+	+	+	$^{\dagger}$	+	+
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							Ш		1	1	+	+	+	+					
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Relinquished By:		Date   8   33   Re   7   7   7   7   7   7   7   7   7	Received By:	0	me.	5	ЫZ	Verbal Result: ☐ Yes ☐ No ☐ Add'1 Ph. All Results are emailed. Please provide Email address:	☐ Yes	Please	orovide E	Add mail add	Add'I Phone #: address:	*					
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Page 19 of 19



MCollier@H-R Enterprises.com 575-909-0326

# **Site Assessment and Closure Report**

Federal 13 Com #002 Incident# nGEG0420547165 Eddy County, New Mexico

# **Prepared For:**

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

# **Prepared By:**

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

March 20, 2024

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

Subject: **Site Assessment and Closure Report** 

> Federal 13 Com #002 Eddy County, NM

Dear Mr. Bratcher,

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

# **Site Information**

The Federal 13 Com #002 is located approximately 18.1 miles South of Hobbs, New Mexico. The legal location for this release is Unit Letter K, Section 13, Township 25 South and Range 26 East in Eddy County, New Mexico. More specifically the latitude and longitude for the release are 32.1269608 North and -104.2504272 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 Reeves-Gypsum land complex, 0 to 3 percent slopes. The referenced soil data is attached in Appendix II. Drainage courses in this area are typically dry. The project site is located in a high Karst potential area (Karst Map, Appendix I).

# **Groundwater and Site Characterization**

The New Mexico Office of the State Engineer web site indicates that the nearest reported depth to groundwater is 44-feet below ground surface (BGS). See Appendix II for the referenced groundwater data.

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

# **Approximate Depth to Groundwater** 44 Feet/BGS ⊠No Yes Within 300 feet of any continuously flowing watercourse or any other significant watercourse No Yes Within 200 feet of any lakebed, sinkhole, or a playa lake ⊠No Yes Within 300 feet from an occupied permanent residence, school, hospital, institution, or church ⊠No Within 500 feet of a spring or a private, domestic fresh water well Yes used by less than five households for domestic or stock watering purposes ⊠No Yes Within 1000 feet of any freshwater well or spring Yes ⊠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 Yes No Within 300 feet of a wetland No Yes Within the area overlying a subsurface mine Yes No Within an unstable area Yes $\boxtimes$ No Within a 100-year floodplain

As this is an assessment in a high karst as well as being in an area with a depth to groundwater of less than 50-feet BGS, the closure criteria for this site is as follows:

	Tak	ole I	
	Closure Criteria for Soils	s Impacted by a Release	
Minimum depth below any point within the horizontal boundary of the release to ground water less than 10,000 mg/I 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 July 23, 2004, it was discovered that a hose on a diesel fuel tank had ruptured and released approximately 19 barrels (bbls) of diesel fuel into its containment and onto the well pad.

# **Site Assessment and Reclamation Activities**

H&R mobilized personnel to begin site assessment, sampling, and reclamation activities of the location. Grab samples were obtained by way of air rotary drill, transported to Cardinal Laboratory for analysis and the results of that analysis are presented in the following data table. Initial site assessment sampling locations are illustrated on Site Assessment Map, Appendix I. Photographs of the location are attached in Appendix IV. Complete laboratory reports can be found in Appendix V.

Table 1: Initial Soil Samples Analysis Results

Table 1. Initial 3011 Samples 7 that yells Nesdates										
Sample ID	Sample Date	Depth	BTEX	Benzene	GRO	DRO	MRO	Total TPH	Cl	
Sample 15	Sample Date	(BGS)	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	
NMOCD Tabl	NMOCD Table 1 Closure Criteria 19.15.29 NMAC		50 mg/kg	10 mg/kg		100 mg/kg		100 mg/kg	600 mg/kg	
		0-1'	ND	ND	ND	ND	ND	0	128	
		2'	ND	ND	ND	ND	ND	0	464	
		3'	ND	ND	ND	16.9	51.2	68.1	480	
		4'	ND	ND	ND	10.8	23.7	34.5	480	
		5'	ND	ND	ND	ND	ND	0	48	
BH-1	8/7/2023	6'	ND	ND	ND	ND	ND	0	416	
		7'	ND	ND	ND	ND	ND	0	400	
		8'	ND	ND	ND	ND	ND	0	192	
		9'	ND	ND	ND	ND	ND	0	144	
		10'	ND	ND	ND	ND	ND	0	176	
		11'	ND	ND	ND	ND	ND	0	208	
		12'	ND	ND	ND	ND	ND	0	176	
		13'	ND	ND	ND	ND	ND	0	192	
		14'	ND	ND	ND	ND	ND	0	192	
		15'	ND	ND	ND	ND	ND	0	176	
BG-1	2/15/2024	0-1'	ND	ND	ND	ND	ND	0	339	
BG-2	2/15/2024	0-1'	ND	ND	ND	ND	ND	0	60.2	
BG-3	2/15/2024	0-1'	ND	ND	ND	ND	ND	0	76.4	
BG-4	2/15/2024	0-1'	ND	ND	ND	ND	ND	0	58.2	
		ND = Analy	te Not Detecte	ed BH = Bore H	ole BG = Backe	round Horizon	tal Sample			

Based on the results of our site assessment, we believe the impact was removed during previous remediation and reclamation activities.

# **Reclamation Activities**

- This site was re-ripped and contoured to match the surrounding area due to a previous historical release being remediated.
- This site was re-ripped and contoured to match the surrounding area due to a previous historical release being remediated.
- This site will be inspected bi-annually for proper vegetation growth and any noxious/invasive plant growth. Reseeding will take place as necessary as well as any noxious/invasive plant growth removed, and proper steps taken to prevent any future growth.

# Closure

Based on the site assessment activities and sampling results completed for this project, on behalf of Cimarex Energy Co. of Colorado we request that no further actions be required, and that closure of this incident be granted.

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

Respectfully submitted,

**H&R** Enterprises, LLC

Michael Collier

Michael Collier Environmental Project Manager

# Attachments:

Appendix I Site Maps
Appendix II Soil Survey, Groundwater Data
Appendix III NMOCD Correspondence
Appendix IV Photographic Documentation

Appendix V Laboratory Reports

6

# **APPENDIX I**

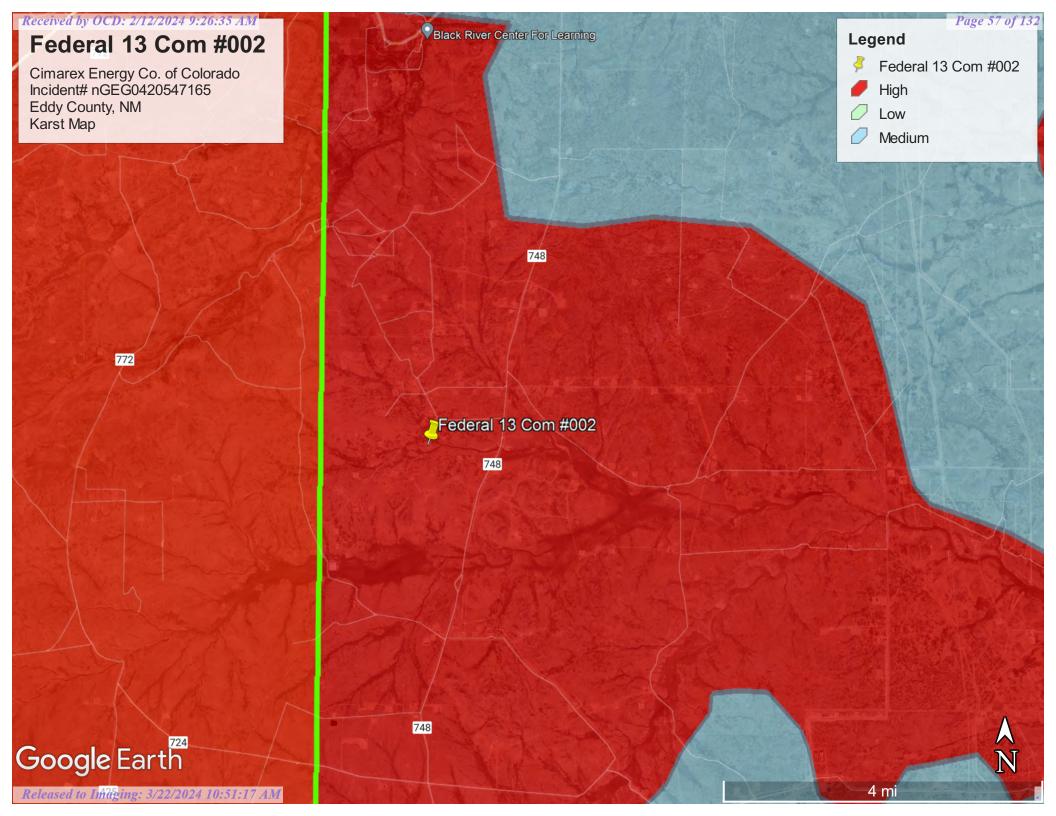
**SITE MAPS** 

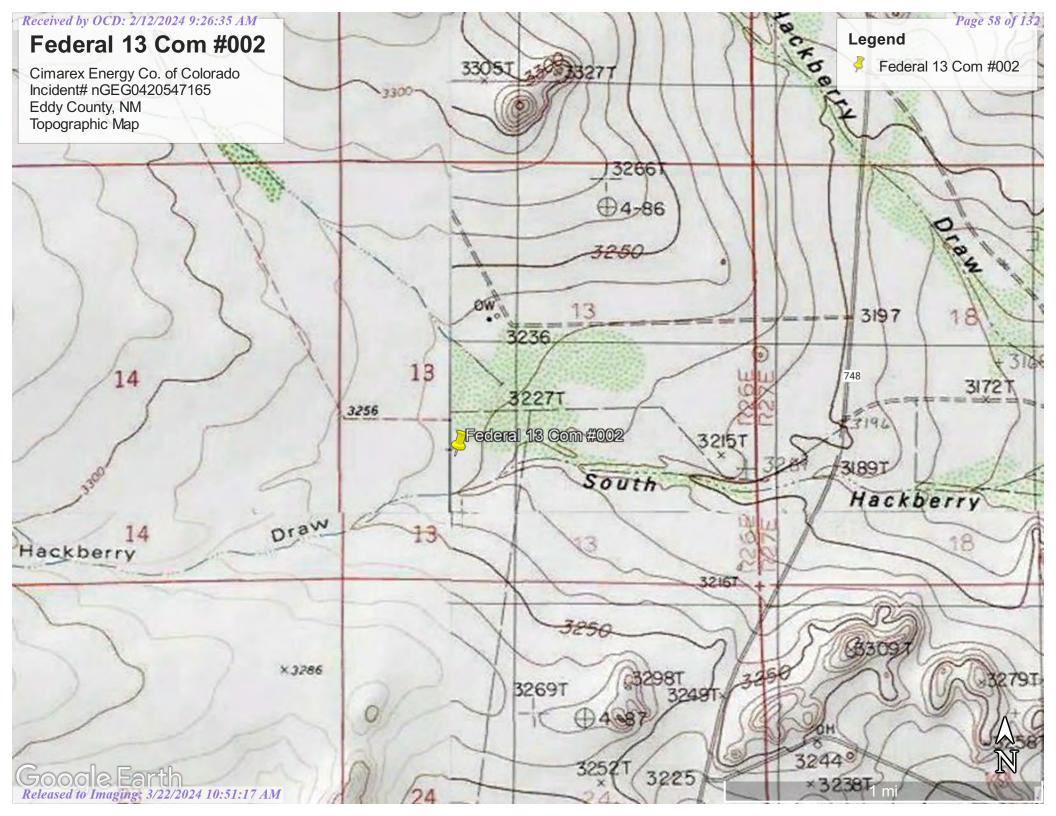
**KARST MAP** 

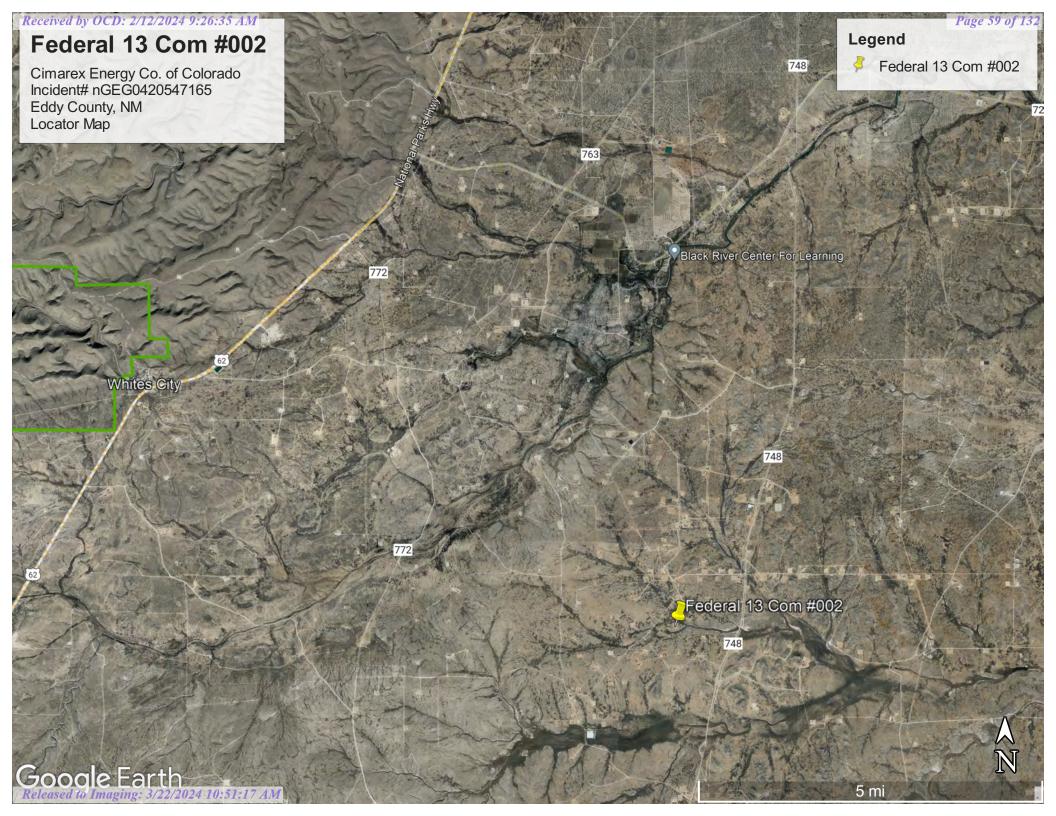
**TOPOGRAPHIC MAP** 

**LOCATOR MAP** 









# **APPENDIX II**

# **GROUNDWATER DATA**

**SOIL SURVEY** 

**FEMA FLOOD ZONE** 



# New Mexico Office of the State Engineer

# Water Column/Average Depth to Water

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

(R=POD has been replaced, O=orphaned,

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

C=the file is closed)

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

		POD Sub-		Q	Q (	2							,	Vater
POD Number	Code	basin	County	64	16	4 Se	c Tws	Rng	X	Y	DistanceDe	epthWellDep	thWater C	olumn
C 03654 POD1		CUB	ED	2	3	1 24	25S	26E	570654	3553773	1001			
C 03569 POD1		CUB	ED	2	1	1 14	25S	26E	568862	3555746	2110	30	0	30
<u>C 02220</u>		CUB	ED	3	1 :	2 26	25S	26E	569598	3552352*	2672	35		
C 03655 POD3		CUB	ED	1	4 4	4 22	25S	26E	568458	3553019	2871			
<u>C 02221</u>		CUB	ED	4	3	2 25	25S	26E	571412	3551961*	2890	35		
C 04329 POD1		C	ED	2	2	2 27	25S	26E	568577	3552567	3083	57	14	43
C 03261 POD1		CUB	ED	3	2	1 20	25S	27E	574007	3554006*	3362	351		
<u>C 01013</u>		C	ED		4	4 25	25S	26E	571505	3551456*	3403	245		
<u>C 01368</u>		C	ED		1	1 22	25S	26E	567261	3554059*	3544	143	118	25
<u>C 01089</u>		C	ED	3	4	1 03	25S	26E	567505	3558398*	4855	96	45	51

Average Depth to Water:

44 feet

Minimum Depth:

0 feet

Maximum Depth:

118 feet

Record Count: 10

**Basin/County Search:** 

County: Eddy

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

Easting (X): 570733 Northing (Y): 3554771 Radius: 5000

\*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.

8/18/23 12:12 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER

# **Eddy Area, New Mexico**

# RG—Reeves-Gypsum land complex, 0 to 3 percent slopes

# **Map Unit Setting**

National map unit symbol: 1w5f Elevation: 1,250 to 5,000 feet

Mean annual precipitation: 10 to 25 inches Mean annual air temperature: 57 to 70 degrees F

Frost-free period: 190 to 235 days

Farmland classification: Not prime farmland

# **Map Unit Composition**

Reeves and similar soils: 55 percent

Gypsum land: 30 percent Minor components: 15 percent

Estimates are based on observations, descriptions, and transects of

the mapunit.

# **Description of Reeves**

# Setting

Landform: Ridges, plains, hills

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

footslope, toeslope

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

nose slope, crest Down-slope shape: Convex Across-slope shape: Linear

Parent material: Residuum weathered from gypsum

# Typical profile

H1 - 0 to 8 inches: loam H2 - 8 to 32 inches: clay loam

H3 - 32 to 60 inches: gypsiferous material

### **Properties and qualities**

Slope: 0 to 1 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained

Runoff class: High

Capacity of the most limiting layer to transmit water (Ksat): Very low

to moderately low (0.00 to 0.06 in/hr) Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 25 percent

Gypsum, maximum content: 80 percent

Maximum salinity: Very slightly saline to moderately saline (2.0 to

8.0 mmhos/cm)

Sodium adsorption ratio, maximum: 4.0

Available water supply, 0 to 60 inches: Low (about 4.3 inches)

# Interpretive groups

Land capability classification (irrigated): 3s Land capability classification (nonirrigated): 7s

Hydrologic Soil Group: B

Ecological site: R070BC007NM - Loamy

Hydric soil rating: No

# **Description of Gypsum Land**

# Setting

Landform: Ridges, plains, hills

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

footslope, toeslope

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

nose slope, crest Down-slope shape: Convex Across-slope shape: Linear

Parent material: Residuum weathered from gypsum

# Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 8s

Hydric soil rating: No

# **Minor Components**

### Largo

Percent of map unit: 5 percent

Ecological site: R070BC007NM - Loamy

Hydric soil rating: No

# Reagan

Percent of map unit: 5 percent

Ecological site: R070BC007NM - Loamy

Hydric soil rating: No

## Cottonwood

Percent of map unit: 5 percent

Ecological site: R070BC033NM - Salty Bottomland

Hydric soil rating: No

# **Data Source Information**

Soil Survey Area: Eddy Area, New Mexico Survey Area Data: Version 18, Sep 8, 2022

# National Flood Hazard Layer FIRMette





SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT Without Base Flood Elevation (BFE)

With BFE or Depth Zone AE, AO, AH, VE, AR SPECIAL FLOOD HAZARD AREAS Regulatory Floodway 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** 

OTHER AREAS OF FLOOD HAZARD

OTHER AREAS

Area with Reduced Flood Risk due to Levee. See Notes. Zone X Area with Flood Risk due to Levee Zone D

Chance Flood Hazard Zone X

NO SCREEN Area of Minimal Flood Hazard Zone X Effective LOMRs

Area of Undetermined Flood Hazard Zone D

- - - Channel, Culvert, or Storm Sewer **GENERAL** 

STRUCTURES | LILLIL Levee, Dike, or Floodwall

20.2 Cross Sections with 1% Annual Chance 17.5 Water Surface Elevation **Coastal Transect** 

Base Flood Elevation Line (BFE) Limit of Study Jurisdiction Boundary --- Coastal Transect Baseline

OTHER **Profile Baseline FEATURES** Hydrographic Feature

Digital Data Available

No Digital Data Available

Unmapped

MAP PANELS

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 3/20/2024 at 5:09 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.



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# **APPENDIX III**

# NMOCD CORRESPONDENCE

From: Ashton Thielke
To: Walker, Crystal, EMNRD
Cc: Laci Luig; Michael Collier

Subject: RE: [EXTERNAL] RE: Federal 13 Com #002 - Application 313377 - nGEG0420547165

**Date:** Tuesday, March 5, 2024 7:26:55 AM

# Good morning,

I just submitted a sampling notification for the day we discussed previously on our teams meeting, since we had crews in the area already.

Horizontal samples have been received (clean) but the lab is very slow.

Additionally, since we are currently addressing the 2017 release (nAB1719137473), we are re-reclaiming and reseeding the entire pad.

This work is being documented and will be added to the incident in question here, as well as the 2017 report.

That way we can submit these all as incident closure and reclamation closure. We will follow up in a few years with a site inspection to confirm that revegetation is adequate and submit a final report for yalls documentation.

Hope that helps.

### Thanks!



Ashton Thielke | PBU - Environmental Consultant
T: 432.813.8988 | M: 281.753.5659 | Ashton.Thielke@coterra.com | www.coterra.com
Coterra Energy Inc. | 6001 Deauville Blvd., Suite 300N | Midland, TX 79706

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

**From:** Walker, Crystal, EMNRD < Crystal. Walker@emnrd.nm.gov>

Sent: Tuesday, March 5, 2024 8:16 AM

To: Ashton Thielke <Ashton.Thielke@coterra.com>

**Cc:** Laci Luig <Laci.Luig@coterra.com>; mcollier@h-r-enterprises.com

Subject: RE: [EXTERNAL] RE: Federal 13 Com #002 - Application 313377 - nGEG0420547165

Good morning Ashton,

I will accept the horizontal sampling without the proper sample notification this one time. Please send the report ASAP as this is nearing 30 days of having the report.

Thank you, Crystal **From:** Ashton Thielke < <u>Ashton.Thielke@coterra.com</u>>

**Sent:** Monday, March 4, 2024 3:37 PM

**To:** Walker, Crystal, EMNRD < <u>Crystal.Walker@emnrd.nm.gov</u>>

**Cc:** Laci Luig <<u>Laci.Luig@coterra.com</u>>; <u>mcollier@h-r-enterprises.com</u>

Subject: RE: [EXTERNAL] RE: Federal 13 Com #002 - Application 313377 - nGEG0420547165

# Howdy Crystal,

So I just went through tons of tons of my emails and I totally spaced submitting a sampling notification for this right after our phone call ended to cover the sampling of the 2004 spill incident (nGEG0420547165). But those horizontal samples were collected that afternoon as discussed on our phone call and im still waiting for our environmental consultant to get back with us with an amended sample map/lab table that shows this.

As also discussed, they are currently onsite wrapping up the 2017 spill incident (nAB1719137473), in which there was a proper sample notification placed. That closure report is expected in the following weeks.

Once we have an updated closure report with horizontal samples for the 2004 spill incident, I will forward to you ASAP.

# Thanks!



Ashton Thielke | PBU - Environmental Consultant
T: 432.813.8988 | M: 281.753.5659 | Ashton.Thielke@coterra.com | www.coterra.com
Coterra Energy Inc. | 6001 Deauville Blvd., Suite 300N | Midland, TX 79706

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

**From:** Walker, Crystal, EMNRD < <u>Crystal.Walker@emnrd.nm.gov</u>>

Sent: Monday, March 4, 2024 3:21 PM

**To:** Ashton Thielke < <u>Ashton.Thielke@coterra.com</u>>

Subject: RE: [EXTERNAL] RE: Federal 13 Com #002 - Application 313377 - nGEG0420547165

Good afternoon Ashton,

Can you let me know if the extra samples have been taken and a sampling notification submitted?

Needing to get this closed out.

Thanks, Crystal

**From:** Ashton Thielke <<u>Ashton.Thielke@coterra.com</u>>

Sent: Thursday, February 15, 2024 6:26 AM

**To:** Walker, Crystal, EMNRD < <u>Crystal.Walker@emnrd.nm.gov</u>>

Subject: [EXTERNAL] RE: Federal 13 Com #002 - Application 313377 - nGEG0420547165

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

Good morning,

Are you free for a call to discuss this site?

There was some contamination associated with the 2017 Incident that will be addressed in the next few weeks, but as of horizontal delineation of this spill incident, there wasn't anything to delineate since that area had been previously remediated and reclaimed and no contamination was found to be associated with the diesel spill we were investigating.

Let me know when you are free and we can discuss further.

Thanks!



Ashton Thielke | PBU - Environmental Consultant
T: 432.813.8988 | M: 281.753.5659 | Ashton.Thielke@coterra.com | www.coterra.com
Coterra Energy Inc. | 6001 Deauville Blvd., Suite 300N | Midland, TX 79706

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

From: Walker, Crystal, EMNRD < <a href="mailto:Crystal.Walker@emnrd.nm.gov">Crystal.Walker@emnrd.nm.gov</a>>

**Sent:** Wednesday, February 14, 2024 2:20 PM **To:** Ashton Thielke <a href="mailto:Ashton.Thielke@coterra.com">Ashton.Thielke@coterra.com</a>

Cc: Walker, Crystal, EMNRD < Crystal. Walker@emnrd.nm.gov>

**Subject:** [EXTERNAL] Federal 13 Com #002 - Application 313377 - nGEG0420547165

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

Good afternoon Mr. Thielke,

I have received the Remediation Closure Request C-141 for Application 313377 for incident nGEG0420547165 regarding the Federal 13 Com #002. The NMOCD Requested Sampling Map included in the closure request application for this incident requests surface horizontal samples to be collected and included in the closure report. I only see the BH-1 sample results.

Can you please provide a revised closure report with the horizontal samples and results as soon as possible so the submitted report does not have to be rejected?

Thank you,
Crystal Walker
Environmental Specialist
EMNRD - Oil Conservation Division
1000 Rio Brazos Road | Aztec, NM 87110
505.584.2334 | crystal.walker@emnrd.nm.gov
http://www.emnrd.nm.gov/ocd/

Please be advised that the new Digital *C*-141 is live as of December 1, 2023. Please review the new Digital *C*-141 submission Dec 1, 2023 Guidance document posted on the EMRND Website prior to submitting any *C*-141s. The guidance documents can be found at <a href="https://www.emnrd.nm.gov/ocd/ocd-announcements-and-notifications/">https://www.emnrd.nm.gov/ocd/ocd-forms/</a>. or <a href="https://www.emnrd.nm.gov/ocd/ocd-forms/">https://www.emnrd.nm.gov/ocd/ocd-forms/</a>.

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1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

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District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS

Action 313362

Q	UESTIONS					
Operator: CIMAREX ENERGY CO. OF COLORADO		OGRID: 162683				
6001 Deauville Blvd, Ste 300N Midland, TX 79706		Action Number: 313362				
		Action Type: [NOTIFY] Notification Of Sampling (C-141N)				
QUESTIONS						
Prerequisites						
Incident ID (n#)	nGEG0420547165					
Incident Name	NGEG0420547165 200	NGEG0420547165 2004 MINOR A SPL @ 30-015-33344				
Incident Type	Release Other	Release Other				
Incident Status	Closure Not Approved	ı				
Incident Well	[30-015-33344] FEDER	[30-015-33344] FEDERAL 13 COM #002				
Location of Release Source						
	1					
Site Name	Unavailable.					
Date Release Discovered	07/23/2004					
Surface Owner	Federal					
Compliant Front Consent Information						
Sampling Event General Information  Please answer all the questions in this group.						
What is the sampling surface area in square feet	350					
What is the estimated number of samples that will be gathered	1					
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	08/07/2023					
Time sampling will commence	10:00 AM					
Warning: Notification can not be less than two business days prior to conducting final sampling	ng.					
Please provide any information necessary for observers to contact samplers	Michael Collier - H&R	Enterprises - 575-909-0326				
Please provide any information necessary for navigation to sampling site	32.1269608, -104.240	4272				

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II 811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 313362

# **CONDITIONS**

Operator:	OGRID:
CIMAREX ENERGY CO. OF COLORADO	162683
6001 Deauville Blvd, Ste 300N	Action Number:
Midland, TX 79706	313362
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

### CONDITIONS

Create By		Condition Date
lluig	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.	2/12/2024

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS

Action 320105

### QUESTIONS

Operator: CIMAREX ENERGY CO. OF COLORADO		OGRID: 162683
6001 Deauville Blvd, Ste 300N		Action Number:
Midland, TX 79706		320105
		Action Type:  [NOTIFY] Notification Of Sampling (C-141N)
QUESTIONS		
Prerequisites		
Incident ID (n#)	nGEG0420547165	
Incident Name	NGEG0420547165 FE	DERAL 13 COM #002 @ 30-015-33344
Incident Type	Release Other	
Incident Status	Remediation Closure	Report Received
Incident Well	[30-015-33344] FEDER	RAL 13 COM #002
Location of Release Source	1	
Site Name	FEDERAL 13 COM #00	02
Date Release Discovered	07/23/2004	
Surface Owner	Federal	
Sampling Event General Information		
Please answer all the questions in this group.  What is the sampling surface area in square feet		
	200	
What is the estimated number of samples that will be gathered	4	
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	02/07/2024	
Time sampling will commence	12:00 PM	
Warning: Notification can not be less than two business days prior to conducting final sampling	ng.	
Please provide any information necessary for observers to contact samplers	Michael Collier - H&R request additional sar	- 575-909-0326 Horizontal sampling after teams meeting with OCD to mples.

See Site Coordinates.

Please provide any information necessary for navigation to sampling site

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II 811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 320105

### **CONDITIONS**

Operator:	OGRID:
CIMAREX ENERGY CO. OF COLORADO	162683
6001 Deauville Blvd, Ste 300N	Action Number:
Midland, TX 79706	320105
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

### CONDITIONS

Created	Condition	Condition
Ву		Date
lluig	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.	3/5/2024

# **APPENDIX IV**

### **SITE ASSESSMENT PHOTOGRAPHS**



BH-1



BG-1



BG-2



BG-3



FINAL PHOTOGRAPHS











# **APPENDIX V**

# LABORATORY REPORTS



August 14, 2023

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

RE: FEDERAL 13 COM #002 (FED 13 2004)

Enclosed are the results of analyses for samples received by the laboratory on 08/08/23 13:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

Cardinal Laboratories is accreditated 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)

Celey D. Keine

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



### Analytical Results For:

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

Received: 08/08/2023 Sampling Date: 08/07/2023

Reported: 08/14/2023 Sampling Type: Soil

Project Name: FEDERAL 13 COM #002 (FED 13 2004) Sampling Condition: Cool & Intact
Project Number: NOT GIVEN Sample Received By: Shari Cisneros

Applymed By MC

Project Location: CIMAREX - EDDY COUNTY, NM

### Sample ID: BH - 1 0-1' (H234243-01)

DTEV 0021D

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/11/2023	ND	2.02	101	2.00	3.53	
Toluene*	<0.050	0.050	08/11/2023	ND	1.96	97.8	2.00	1.68	
Ethylbenzene*	<0.050	0.050	08/11/2023	ND	1.96	98.1	2.00	4.18	
Total Xylenes*	<0.150	0.150	08/11/2023	ND	5.87	97.8	6.00	4.60	
Total BTEX	<0.300	0.300	08/11/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	08/10/2023	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/10/2023	ND	168	83.8	200	2.04	
DRO >C10-C28*	<10.0	10.0	08/10/2023	ND	154	76.8	200	0.382	
EXT DRO >C28-C36	<10.0	10.0	08/10/2023	ND					
Surrogate: 1-Chlorooctane	60.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	57.9	% 49.1-14	8						

### Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene



### Analytical Results For:

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

Received: 08/08/2023 Reported: 08/14/2023

08/14/2023 FEDERAL 13 COM #002 (FED 13 2004)

Project Name: FEDERAL 13
Project Number: NOT GIVEN

Project Location: CIMAREX - EDDY COUNTY, NM

ma/ka

Sampling Date: 08/07/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shari Cisneros

### Sample ID: BH - 1 2' (H234243-02)

RTFY 8021R

BIEX 8021B	mg,	/кд	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/11/2023	ND	2.02	101	2.00	3.53	
Toluene*	<0.050	0.050	08/11/2023	ND	1.96	97.8	2.00	1.68	
Ethylbenzene*	<0.050	0.050	08/11/2023	ND	1.96	98.1	2.00	4.18	
Total Xylenes*	<0.150	0.150	08/11/2023	ND	5.87	97.8	6.00	4.60	
Total BTEX	<0.300	0.300	08/11/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500Cl-B mg/kg		/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	08/10/2023	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/10/2023	ND	168	83.8	200	2.04	
DRO >C10-C28*	<10.0	10.0	08/10/2023	ND	154	76.8	200	0.382	
EXT DRO >C28-C36	<10.0	10.0	08/10/2023	ND					
Surrogate: 1-Chlorooctane	86.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	83.3	% 49.1-14	8						

Analyzed By: MC

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Celey D. Keene



### Analytical Results For:

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

Received: 08/08/2023 Reported:

08/14/2023 FEDERAL 13 COM #002 (FED 13 2004)

Project Name: Project Number: NOT GIVEN

Project Location: CIMAREX - EDDY COUNTY, NM Sampling Date: 08/07/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Shari Cisneros

### Sample ID: BH - 1 3' (H234243-03)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/11/2023	ND	2.02	101	2.00	3.53	
Toluene*	<0.050	0.050	08/11/2023	ND	1.96	97.8	2.00	1.68	
Ethylbenzene*	<0.050	0.050	08/11/2023	ND	1.96	98.1	2.00	4.18	
Total Xylenes*	<0.150	0.150	08/11/2023	ND	5.87	97.8	6.00	4.60	
Total BTEX	<0.300	0.300	08/11/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	08/10/2023	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/10/2023	ND	168	83.8	200	2.04	
DRO >C10-C28*	16.9	10.0	08/10/2023	ND	154	76.8	200	0.382	
EXT DRO >C28-C36	51.2	10.0	08/10/2023	ND					
Surrogate: 1-Chlorooctane	69.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	66.7	% 49.1-14	8						

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Celey D. Keene



### Analytical Results For:

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

Received: 08/08/2023

Reported: 08/14/2023

Project Name: FEDERAL 13 COM #002 (FED 13 2004)

ma/ka

Project Number: NOT GIVEN

Project Location: CIMAREX - EDDY COUNTY, NM

Sampling Date: 08/07/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shari Cisneros

### Sample ID: BH - 1 4' (H234243-04)

RTFY 8021R

B1EX 8021B	mg	/ kg	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/11/2023	ND	2.02	101	2.00	3.53	
Toluene*	<0.050	0.050	08/11/2023	ND	1.96	97.8	2.00	1.68	
Ethylbenzene*	<0.050	0.050	08/11/2023	ND	1.96	98.1	2.00	4.18	
Total Xylenes*	<0.150	0.150	08/11/2023	ND	5.87	97.8	6.00	4.60	
Total BTEX	<0.300	0.300	08/11/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.1	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	08/10/2023	ND	432	108	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/10/2023	ND	168	83.8	200	2.04	
DRO >C10-C28*	10.8	10.0	08/10/2023	ND	154	76.8	200	0.382	
EXT DRO >C28-C36	23.7	10.0	08/10/2023	ND					
Surrogate: 1-Chlorooctane	72.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	70.5	% 49.1-14	8						

Analyzed By: MC

### Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene



### Analytical Results For:

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

Received: 08/08/2023 Sampling Date: 08/07/2023

Reported: 08/14/2023 Sampling Type: Soil

Project Name: FEDERAL 13 COM #002 (FED 13 2004) Sampling Condition: Cool & Intact
Project Number: NOT GIVEN Sample Received By: Shari Cisneros

Project Location: CIMAREX - EDDY COUNTY, NM

### Sample ID: BH - 1 5' (H234243-05)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/11/2023	ND	2.02	101	2.00	3.53	
Toluene*	<0.050	0.050	08/11/2023	ND	1.96	97.8	2.00	1.68	
Ethylbenzene*	<0.050	0.050	08/11/2023	ND	1.96	98.1	2.00	4.18	
Total Xylenes*	<0.150	0.150	08/11/2023	ND	5.87	97.8	6.00	4.60	
Total BTEX	<0.300	0.300	08/11/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
hloride, SM4500Cl-B mg/kg		Analyze	d By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/10/2023	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/10/2023	ND	172	85.8	200	2.09	
DRO >C10-C28*	<10.0	10.0	08/10/2023	ND	182	90.8	200	3.98	
EXT DRO >C28-C36	<10.0	10.0	08/10/2023	ND					
Surrogate: 1-Chlorooctane	77.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	83.2	% 49.1-14	8						

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Celey D. Keene



Sample Received By:

08/07/2023

Shari Cisneros

### Analytical Results For:

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

Received: 08/08/2023 Sampling Date:

Reported: 08/14/2023 Sampling Type: Soil
Project Name: FEDERAL 13 COM #002 (FED 13 2004) Sampling Condition: Cool & Intact

Project Number: NOT GIVEN

Project Location: CIMAREX - EDDY COUNTY, NM

mg/kg

Sample ID: BH - 1 6' (H234243-06)

BTEX 8021B

DRO >C10-C28\*

EXT DRO >C28-C36

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/11/2023	ND	2.02	101	2.00	3.53	
Toluene*	<0.050	0.050	08/11/2023	ND	1.96	97.8	2.00	1.68	
Ethylbenzene*	<0.050	0.050	08/11/2023	ND	1.96	98.1	2.00	4.18	
Total Xylenes*	<0.150	0.150	08/11/2023	ND	5.87	97.8	6.00	4.60	
Total BTEX	<0.300	0.300	08/11/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.6	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	08/10/2023	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

ND

ND

182

90.8

200

3.98

08/10/2023

08/10/2023

Analyzed By: MS

Surrogate: 1-Chlorooctane 75.1 % 48.2-134
Surrogate: 1-Chlorooctadecane 83.8 % 49.1-148

<10.0

<10.0

10.0

10.0

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Celey D. Kune



### Analytical Results For:

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

Received: 08/08/2023 Reported: 08/14/2023

 08/08/2023
 Sampling Date:
 08/07/2023

 08/14/2023
 Sampling Type:
 Soil

Project Name: FEDERAL 13 COM #002 (FED 13 2004)

ma/ka

Sampling Condition: Cool & Intact
Sample Received By: Shari Cisneros

Project Number: NOT GIVEN

Project Location: CIMAREX - EDDY COUNTY, NM

### Sample ID: BH - 1 7' (H234243-07)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/11/2023	ND	2.02	101	2.00	3.53	
Toluene*	<0.050	0.050	08/11/2023	ND	1.96	97.8	2.00	1.68	
Ethylbenzene*	<0.050	0.050	08/11/2023	ND	1.96	98.1	2.00	4.18	
Total Xylenes*	<0.150	0.150	08/11/2023	ND	5.87	97.8	6.00	4.60	
Total BTEX	<0.300	0.300	08/11/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500Cl-B mg/kg		/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	08/10/2023	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/10/2023	ND	172	85.8	200	2.09	
DRO >C10-C28*	<10.0	10.0	08/10/2023	ND	182	90.8	200	3.98	
EXT DRO >C28-C36	<10.0	10.0	08/10/2023	ND					
Surrogate: 1-Chlorooctane	78.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	86.3	% 49.1-14	8						

Analyzed By: MC

### Cardinal Laboratories \*=Accredited Analyte

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Celey & Keene



### Analytical Results For:

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

Received: 08/08/2023 Reported: 08/14/2023

Sampling Date: 08/07/2023 Sampling Type: Soil

Project Name: FEDERAL 13 COM #002 (FED 13 2004)

mg/kg

Sampling Condition: Cool & Intact Project Number: NOT GIVEN Sample Received By: Shari Cisneros

Analyzed By: MS

Project Location: CIMAREX - EDDY COUNTY, NM

### Sample ID: BH - 1 8' (H234243-08)

BTEX 8021B

DILX GOZID	mg/	ng .	Andryzo	u by. 1-15					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/11/2023	ND	2.02	101	2.00	3.53	
Toluene*	<0.050	0.050	08/11/2023	ND	1.96	97.8	2.00	1.68	
Ethylbenzene*	<0.050	0.050	08/11/2023	ND	1.96	98.1	2.00	4.18	
Total Xylenes*	<0.150	0.150	08/11/2023	ND	5.87	97.8	6.00	4.60	
Total BTEX	<0.300	0.300	08/11/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	08/10/2023	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/10/2023	ND	172	85.8	200	2.09	
DRO >C10-C28*	<10.0	10.0	08/10/2023	ND	182	90.8	200	3.98	
EXT DRO >C28-C36	<10.0	10.0	08/10/2023	ND					
Surrogate: 1-Chlorooctane	74.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	82.9	% 49.1-14	8						

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Celey D. Keene



### Analytical Results For:

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

Received: 08/08/2023 Reported: 08/14/2023

FEDERAL 13 COM #002 (FED 13 2004)

Project Number: NOT GIVEN

Project Location: CIMAREX - EDDY COUNTY, NM

ma/ka

Sampling Date: 08/07/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shari Cisneros

### Sample ID: BH - 1 9' (H234243-09)

Project Name:

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/11/2023	ND	2.02	101	2.00	3.53	
Toluene*	<0.050	0.050	08/11/2023	ND	1.96	97.8	2.00	1.68	
Ethylbenzene*	<0.050	0.050	08/11/2023	ND	1.96	98.1	2.00	4.18	
Total Xylenes*	<0.150	0.150	08/11/2023	ND	5.87	97.8	6.00	4.60	
Total BTEX	<0.300	0.300	08/11/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
nloride, SM4500Cl-B mg/kg		Analyze	d By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	08/10/2023	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/10/2023	ND	172	85.8	200	2.09	
DRO >C10-C28*	<10.0	10.0	08/10/2023	ND	182	90.8	200	3.98	
EXT DRO >C28-C36	<10.0	10.0	08/10/2023	ND					
Surrogate: 1-Chlorooctane	73.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	81.2	% 49.1-14	8						

Analyzed By: MC

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene



### Analytical Results For:

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

Received: 08/08/2023 Sampling Date: 08/07/2023

Reported: 08/14/2023 Sampling Type: Soil

Project Name: FEDERAL 13 COM #002 (FED 13 2004) Sampling Condition: Cool & Intact
Project Number: NOT GIVEN Sample Received By: Shari Cisneros

Analyzed By: MS

Project Location: CIMAREX - EDDY COUNTY, NM

mg/kg

### Sample ID: BH - 1 10' (H234243-10)

BTEX 8021B

DILX GOZID	ıııg,	, kg	Andryzo	u by. 1-15					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/11/2023	ND	2.02	101	2.00	3.53	
Toluene*	<0.050	0.050	08/11/2023	ND	1.96	97.8	2.00	1.68	
Ethylbenzene*	<0.050	0.050	08/11/2023	ND	1.96	98.1	2.00	4.18	
Total Xylenes*	<0.150	0.150	08/11/2023	ND	5.87	97.8	6.00	4.60	
Total BTEX	<0.300	0.300	08/11/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	08/10/2023	ND	432	108	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/10/2023	ND	172	85.8	200	2.09	
DRO >C10-C28*	<10.0	10.0	08/10/2023	ND	182	90.8	200	3.98	
EXT DRO >C28-C36	<10.0	10.0	08/10/2023	ND					
Surrogate: 1-Chlorooctane	70.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	78.5	% 49.1-14	8						

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Celey D. Keene



### Analytical Results For:

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

Received: 08/08/2023 Sampling Date: 08/07/2023

Reported: 08/14/2023 Sampling Type: Soil

Project Name: FEDERAL 13 COM #002 (FED 13 2004) Sampling Condition: Cool & Intact
Project Number: NOT GIVEN Sample Received By: Shari Cisneros

Analyzed By: MS

Project Location: CIMAREX - EDDY COUNTY, NM

mg/kg

### Sample ID: BH - 1 11' (H234243-11)

BTEX 8021B

DILX GOZID	ıııg,	, kg	Alldiyzo	a by. 1-15					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/11/2023	ND	2.02	101	2.00	3.53	
Toluene*	<0.050	0.050	08/11/2023	ND	1.96	97.8	2.00	1.68	
Ethylbenzene*	<0.050	0.050	08/11/2023	ND	1.96	98.1	2.00	4.18	
Total Xylenes*	<0.150	0.150	08/11/2023	ND	5.87	97.8	6.00	4.60	
Total BTEX	<0.300	0.300	08/11/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.2	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	08/10/2023	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/10/2023	ND	172	85.8	200	2.09	
DRO >C10-C28*	<10.0	10.0	08/10/2023	ND	182	90.8	200	3.98	
EXT DRO >C28-C36	<10.0	10.0	08/10/2023	ND					
Surrogate: 1-Chlorooctane	76.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	82.6	% 49.1-14	8						

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Celey D. Keene



### Analytical Results For:

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

Received: 08/08/2023 Sampling Date: 08/07/2023

Reported: 08/14/2023 Sampling Type: Soil

Project Name: FEDERAL 13 COM #002 (FED 13 2004) Sampling Condition: Cool & Intact
Project Number: NOT GIVEN Sample Received By: Shari Cisneros

Applyzod By: MC

Project Location: CIMAREX - EDDY COUNTY, NM

### Sample ID: BH - 1 12' (H234243-12)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/11/2023	ND	2.02	101	2.00	3.53	
Toluene*	<0.050	0.050	08/11/2023	ND	1.96	97.8	2.00	1.68	
Ethylbenzene*	<0.050	0.050	08/11/2023	ND	1.96	98.1	2.00	4.18	
Total Xylenes*	<0.150	0.150	08/11/2023	ND	5.87	97.8	6.00	4.60	
Total BTEX	<0.300	0.300	08/11/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	08/10/2023	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/10/2023	ND	172	85.8	200	2.09	
DRO >C10-C28*	<10.0	10.0	08/10/2023	ND	182	90.8	200	3.98	
EXT DRO >C28-C36	<10.0	10.0	08/10/2023	ND					
Surrogate: 1-Chlorooctane	73.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	79.6	% 49.1-14	8						

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

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

Received: 08/08/2023 Sampling Date: 08/07/2023

Reported: 08/14/2023 Sampling Type: Soil

Project Name: FEDERAL 13 COM #002 (FED 13 2004) Sampling Condition: Cool & Intact
Project Number: NOT GIVEN Sample Received By: Shari Cisneros

Analyzed By: MS

Project Location: CIMAREX - EDDY COUNTY, NM

mg/kg

### Sample ID: BH - 1 13' (H234243-13)

BTEX 8021B

	9/	9	7	7: : : :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/11/2023	ND	2.02	101	2.00	3.53	
Toluene*	<0.050	0.050	08/11/2023	ND	1.96	97.8	2.00	1.68	
Ethylbenzene*	<0.050	0.050	08/11/2023	ND	1.96	98.1	2.00	4.18	
Total Xylenes*	<0.150	0.150	08/11/2023	ND	5.87	97.8	6.00	4.60	
Total BTEX	<0.300	0.300	08/11/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	08/10/2023	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/10/2023	ND	172	85.8	200	2.09	
DRO >C10-C28*	<10.0	10.0	08/10/2023	ND	182	90.8	200	3.98	
EXT DRO >C28-C36	<10.0	10.0	08/10/2023	ND					
Surrogate: 1-Chlorooctane	77.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	83.5	% 49.1-14	8						

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### Analytical Results For:

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

Received: 08/08/2023 Sampling Date: 08/07/2023

Reported: 08/14/2023 Sampling Type: Soil

Project Name: FEDERAL 13 COM #002 (FED 13 2004) Sampling Condition: Cool & Intact
Project Number: NOT GIVEN Sample Received By: Shari Cisneros

Analyzed By: MS

Project Location: CIMAREX - EDDY COUNTY, NM

mg/kg

### Sample ID: BH - 1 14' (H234243-14)

BTEX 8021B

	<u> </u>								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/11/2023	ND	2.02	101	2.00	3.53	
Toluene*	<0.050	0.050	08/11/2023	ND	1.96	97.8	2.00	1.68	
Ethylbenzene*	<0.050	0.050	08/11/2023	ND	1.96	98.1	2.00	4.18	
Total Xylenes*	<0.150	0.150	08/11/2023	ND	5.87	97.8	6.00	4.60	
Total BTEX	<0.300	0.300	08/11/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	08/10/2023	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/10/2023	ND	172	85.8	200	2.09	
DRO >C10-C28*	<10.0	10.0	08/10/2023	ND	182	90.8	200	3.98	
EXT DRO >C28-C36	<10.0	10.0	08/10/2023	ND					
Surrogate: 1-Chlorooctane	76.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	81.8	% 49.1-14	8						

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### Analytical Results For:

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

Received: 08/08/2023

Reported: 08/14/2023

Project Name: FEDERAL 13 COM #002 (FED 13 2004)

ma/ka

Project Number: NOT GIVEN

Project Location: CIMAREX - EDDY COUNTY, NM

Sampling Date: 08/07/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shari Cisneros

### Sample ID: BH - 1 15' (H234243-15)

RTFY 8021R

B1EX 8021B	mg/	кg	Anaiyze	а ву: мѕ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/11/2023	ND	2.02	101	2.00	3.53	
Toluene*	<0.050	0.050	08/11/2023	ND	1.96	97.8	2.00	1.68	
Ethylbenzene*	<0.050	0.050	08/11/2023	ND	1.96	98.1	2.00	4.18	
Total Xylenes*	<0.150	0.150	08/11/2023	ND	5.87	97.8	6.00	4.60	
Total BTEX	<0.300	0.300	08/11/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	08/10/2023	ND	432	108	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/10/2023	ND	172	85.8	200	2.09	
DRO >C10-C28*	<10.0	10.0	08/10/2023	ND	182	90.8	200	3.98	
EXT DRO >C28-C36	<10.0	10.0	08/10/2023	ND					
Surrogate: 1-Chlorooctane	74.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	81.6	% 49.1-14	8						

Analyzed By: MC

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



### **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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Celeg D. Keene



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Compared Manager, Michael Collier	Company Name: H&R Enterprises	erprises		BILL TO			ANALYSIS REQUEST	
State: Zip: Anni Anni Anni Anni Anni Anni Anni Ann	roject Manager: Michael	Collier		0.0.#:	-			
State: Zip: Address:    Project Owner: Cimarax Energy   City:   State: Zip:   State: Z	Address:			Company: Cimarex En	ergy	_		
Com #002 (Fed 13 2004)  State: Zp:  Sharp: Address: Zp:  Sharp: Zp:  Sharp: Zp:  Sharp: Address: Zp:  Sharp: Address: Zp:  Sharp: Zp:  Sharp: Address:	City:			Attn: Laci Luig				
DOM: POOR (Fed 13 2004)  Project Owner, Cimares Energy  State: 2 pr.  State: 2 pr.  Propose 8:  Propos	Phone #:	Fax#:		ddress:				
Committed 13 2004)  State: Zip:  Phone 8: Phone	Project #:	Project Owner: Cim		ity:				
Phone 8:    Fax 8:	roject Name: Federal 13 (	(Fed 13 200						
Fig. 2. SAMPLING    A CONTAINERS   SAMPLING	roject Location: Eddy Co	unty, NM		*				_
Figure 25.    Part   Pa	smale, Hamas Davidall			HOHO IT.		_	_	_
MATRIX  PRESERV.  SAMPLING  M. C.	mpler Name: Roy Bell		-	ax#:			_	
P1	THE CHILD SET BY			SERV	DING		_	
DATE TIME BY:    Contract   Contr	b I.D.		MATRIX	+	PLING			
DATE   TIME   BTE			WATER			es		
P.1.1  G. I. X.	234248		GROUND WASTEW SOIL DIL SLUDGE	CE / COO				
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Date:   Recélved By:   REMARKS: PG 1 of 2	" Il M	3.55	May 10	May				
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Thermometer ID #\(13 \) \ /\(\frac{1}{10}\) \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	ered By: (Circle One)	Observed Temp. "C Corrected Temp. "C	Sample Condition	CHECKED BY: (Initials)	ound Time:	O A	by Samp	
		1.50	No   1	3	Thermometer ID #113 Correction Factor -0.5(C	#140	Corrected Temp.	

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



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name:	Company Name: H&R Enterprises	orises						BI	BILL TO					ANALY	ALYSIS REQUEST	EQUE	TS				
Project Manager: Michael Collier	: Michael Collier						P.O. #:								-	4	+	+	-	_	
Address:							Compa	ny: Cin	Company: Cimarex Energy	9У	_				_	_	_	_	_	_	
City:		State:	Zip:				Attn: Laci Luig	ici Luig			_			_	_	_	_	_	_	_	
Phone #:		Fax#:					Address:	S:							_	_	_		_	_	
Project #:		Project	Project Owner: Cimarex Energy	marex E	nergy		City:				_				_	_	_	_	_		
roject Name: Fe	Project Name: Federal 13 Com #002 (Fed 13 2004)	2 (Fed 13 2004)					State:		Zip:						_		_				
roject Location:	Project Location: Eddy County, NM	_					Phone #:	75							_	_	_		_	_	
Sampler Name: Roy Bell	loy Bell						Fax #:								_	_	_		_	_	
FOR LABUSE ONLY				П	MATRIX	RIX	PRESERV.	ERV.	SAMPLING	LING					_	_	_		_	_	
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13	BH-1 13'					1	1				-	-	+	+	+	+	+	+	+	+	1
14	BH-1 14'						1					-	+	1	+	+	+	+	+	+	1
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																		Corrected Temp. "C.			

**Environment Testing** 

## **ANALYTICAL REPORT**

### PREPARED FOR

Attn: Michael Collier H & R Enterprises 5120 W Kansas St Hobbs, New Mexico 88242

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### **JOB DESCRIPTION**

FEDERAL 13 COM 2 (FED13) Eddy

### **JOB NUMBER**

890-6202-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

## **Eurofins Carlsbad**

### **Job Notes**

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

### **Authorization**

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Authorized for release by Jessica Kramer, Project Manager <u>Jessica.Kramer@et.eurofinsus.com</u> (432)704-5440

Eurofins Carlsbad is a laboratory within Eurofins Environment Testing South Central, LLC, a company within Eurofins Environment Testing Group of Companies

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Client: H & R Enterprises Project/Site: FEDERAL 13 COM 2 (FED13) Laboratory Job ID: 890-6202-1 SDG: Eddy

# **Table of Contents**

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### **Definitions/Glossary**

Job ID: 890-6202-1 Client: H & R Enterprises Project/Site: FEDERAL 13 COM 2 (FED13)

SDG: Eddy

**Qualifiers** 

**GC VOA** 

Qualifier **Qualifier Description** S1-Surrogate recovery exceeds control limits, low biased. S1+ Surrogate recovery exceeds control limits, high biased. Indicates the analyte was analyzed for but not detected.

**GC Semi VOA** 

Qualifier **Qualifier Description** S1+ Surrogate recovery exceeds control limits, high biased. Indicates the analyte was analyzed for but not detected.

**HPLC/IC** 

Qualifier **Qualifier Description** Indicates the analyte was analyzed for but not detected.

**Glossary** 

Abbreviation These commonly used abbreviations may or may not be present in this report. Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery CFL Contains Free Liquid CFU Colony Forming Unit **CNF** Contains No Free Liquid

DFR Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor** 

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

Decision Level Concentration (Radiochemistry) DLC

**EDL** Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE) MCL

EPA recommended "Maximum Contaminant Level" MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry)

Method Detection Limit MDL Minimum Level (Dioxin) MPN Most Probable Number MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit

**PRES** Presumptive QC **Quality Control** 

RER Relative Error Ratio (Radiochemistry) RL

Reporting Limit or Requested Limit (Radiochemistry) RPD Relative Percent Difference, a measure of the relative difference between two points

Toxicity Equivalent Factor (Dioxin) TEF Toxicity Equivalent Quotient (Dioxin) TEQ

**TNTC** Too Numerous To Count

### **Case Narrative**

Client: H & R Enterprises Job ID: 890-6202-1 Project: FEDERAL 13 COM 2 (FED13)

**Eurofins Carlsbad** Job ID: 890-6202-1

### Job Narrative 890-6202-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

### Receipt

The samples were received on 2/16/2024 8:56 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.2°C.

### Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: BG - 1 (890-6202-1), BG - 2 (890-6202-2), BG - 3 (890-6202-3) and BG - 4 (890-6202-4).

### **GC VOA**

Method 8021B: Surrogate recovery for the following samples were outside control limits: BG - 2 (890-6202-2) and (LCSD 880-73881/2-A). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

### GC Semi VOA

Method 8015MOD\_NM: Surrogate recovery for the following sample was outside control limits: BG - 4 (890-6202-4). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client: H & R Enterprises

Project/Site: FEDERAL 13 COM 2 (FED13)

Job ID: 890-6202-1

SDG: Eddy

Client Sample ID: BG - 1

Date Collected: 02/15/24 00:00 Date Received: 02/16/24 08:56

Lab Sample ID: 890-6202-1

02/19/24 15:17

02/19/24 15:17

Prepared

D

02/20/24 16:49

02/20/24 16:49

Analyzed

02/21/24 02:14

Lab Sample ID: 890-6202-2

Dil Fac

**Matrix: Solid** 

Matrix: Solid

Sample Depth: 0 - 1'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/22/24 15:27	02/23/24 11:09	1
Toluene	< 0.00199	U	0.00199		mg/Kg		02/22/24 15:27	02/23/24 11:09	1
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		02/22/24 15:27	02/23/24 11:09	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/22/24 15:27	02/23/24 11:09	1
o-Xylene	< 0.00199	U	0.00199		mg/Kg		02/22/24 15:27	02/23/24 11:09	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/22/24 15:27	02/23/24 11:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130				02/22/24 15:27	02/23/24 11:09	1
1,4-Difluorobenzene (Surr)	121		70 - 130				02/22/24 15:27	02/23/24 11:09	1
_ Method: SW846 8015 NM - Diesel	Range Organ	ics (DRO) (0	GC)		mg/Kg				
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/20/24 16:49	
<del>-</del> -									'
Method: SW846 8015B NM - Dies									·
Method: SW846 8015B NM - Dies Analyte	Result	Qualifier	RL	MDL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
		Qualifier		MDL	Unit mg/Kg	<u>D</u>	Prepared 02/19/24 15:17	<b>Analyzed</b> 02/20/24 16:49	·
Analyte Gasoline Range Organics	Result	Qualifier U	RL	MDL		<u>D</u>			Dil Fac
Analyte  Gasoline Range Organics (GRO)-C6-C10  Diesel Range Organics (Over	<b>Result</b> <49.9	Qualifier U	RL 49.9	MDL	mg/Kg	<u>D</u>	02/19/24 15:17	02/20/24 16:49	Dil Fac

70 - 130

70 - 130

RL

25.0

MDL Unit

mg/Kg

127

112

339

Result Qualifier

Client Sample ID: BG - 2

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Date Collected: 02/15/24 00:00

Date Received: 02/16/24 08:56

Sample Depth: 0 - 1'

1-Chlorooctane

o-Terphenyl

Analyte

Chloride

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		02/22/24 15:27	02/23/24 11:35	1
Toluene	<0.00201	U	0.00201		mg/Kg		02/22/24 15:27	02/23/24 11:35	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		02/22/24 15:27	02/23/24 11:35	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		02/22/24 15:27	02/23/24 11:35	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		02/22/24 15:27	02/23/24 11:35	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		02/22/24 15:27	02/23/24 11:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	135	S1+	70 - 130				02/22/24 15:27	02/23/24 11:35	

Job ID: 890-6202-1

SDG: Eddy

Client Sample ID: BG - 2

Date Collected: 02/15/24 00:00 Date Received: 02/16/24 08:56

Sample Depth: 0 - 1'

Lab Sample ID: 890-6202-2

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1.4-Difluorobenzene (Surr)	128	70 - 130	02/22/24 15:27	02/23/24 11:35	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402 U	0.00402	ma/Ka			02/23/24 11:35	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7	ma/Ka			02/20/24 17:13	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Pocult	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Allalyte	- Nesuit	Qualifier		MIDE	OTHE		Frepareu	Allalyzeu	Dil Fac
Gasoline Range Organics	<49.7	U	49.7		mg/Kg		02/19/24 15:17	02/20/24 17:13	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.7	U	49.7		mg/Kg		02/19/24 15:17	02/20/24 17:13	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		02/19/24 15:17	02/20/24 17:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	108	70 - 130	02/19/24 15:1	02/20/24 17:13	1
o-Terphenyl	101	70 - 130	02/19/24 15:1	7 02/20/24 17:13	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	)	Prepared	Analyzed	Dil Fac
Chloride	60.2		5.04		mg/Kg			02/21/24 02:35	1

Lab Sample ID: 890-6202-3 Client Sample ID: BG - 3

Date Collected: 02/15/24 00:00 Date Received: 02/16/24 08:56

Sample Depth: 0 - 1'

Mothodi CIMOAC 0004D	Valatila Organia Campaunda //	

Welliou. Syvo40 602 IB - Voial	ne Organic Comp	iouilus (GC	)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		02/22/24 15:27	02/23/24 12:02	1
Toluene	<0.00202	U	0.00202		mg/Kg		02/22/24 15:27	02/23/24 12:02	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		02/22/24 15:27	02/23/24 12:02	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		02/22/24 15:27	02/23/24 12:02	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		02/22/24 15:27	02/23/24 12:02	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		02/22/24 15:27	02/23/24 12:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	131	S1+	70 - 130				02/22/24 15:27	02/23/24 12:02	1
1 4-Difluorobenzene (Surr)	111		70 - 130				02/22/24 15:27	02/23/24 12:02	1

4-Bromofluorobenzene (Surr)	131 S1+	70 - 130	02/22/24 15:27	02/23/24 12:02	1
1,4-Difluorobenzene (Surr)	111	70 - 130	02/22/24 15:27	02/23/24 12:02	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			02/23/24 12:02	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/20/24 17:38	1

**Eurofins Carlsbad** 

**Matrix: Solid** 

Client: H & R Enterprises

Project/Site: FEDERAL 13 COM 2 (FED13)

Job ID: 890-6202-1

SDG: Eddy

Lab Sample ID: 890-6202-3

Matrix: Solid

Client Sample ID: BG - 3

Date Collected: 02/15/24 00:00 Date Received: 02/16/24 08:56

Sample Depth: 0 - 1'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9		mg/Kg		02/19/24 15:17	02/20/24 17:38	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		02/19/24 15:17	02/20/24 17:38	1
C10-C28)									
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/19/24 15:17	02/20/24 17:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	129		70 - 130				02/19/24 15:17	02/20/24 17:38	1
o-Terphenyl -	114		70 - 130				02/19/24 15:17	02/20/24 17:38	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: BG - 4 Lab Sample ID: 890-6202-4 Date Collected: 02/15/24 00:00 Matrix: Solid

Date Received: 02/16/24 08:56

Sample Depth: 0 - 1'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/23/24 15:11	02/23/24 17:32	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/23/24 15:11	02/23/24 17:32	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/23/24 15:11	02/23/24 17:32	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		02/23/24 15:11	02/23/24 17:32	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/23/24 15:11	02/23/24 17:32	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/23/24 15:11	02/23/24 17:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130				02/23/24 15:11	02/23/24 17:32	1
1,4-Difluorobenzene (Surr)	112		70 - 130				02/23/24 15:11	02/23/24 17:32	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
T L LDTEV	-0.0000								
Total BTEX	< 0.00399	U	0.00399		mg/Kg			02/23/24 17:32	1
• •					mg/Kg			02/23/24 17:32	1
: Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (	GC)						·
Method: SW846 8015 NM - Diese Analyte	el Range Organ Result	ics (DRO) (	GC)	MDL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
: Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (	GC)	MDL		<u>D</u>	Prepared		·
Method: SW846 8015 NM - Diese Analyte	Result <50.1	ics (DRO) ( Qualifier	GC) RL 50.1	MDL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH	el Range Organ Result <50.1 sel Range Organ	ics (DRO) ( Qualifier	GC) RL 50.1		Unit	<u>D</u>	Prepared Prepared	Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Dies	el Range Organ Result <50.1 sel Range Organ	Qualifier Unics (DRO) Qualifier	RL 50.1 (GC)		Unit mg/Kg			Analyzed 02/20/24 18:02	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Dies Analyte	el Range Organ Result <50.1 sel Range Orga Result	Qualifier Unics (DRO) Qualifier	GC)  RL  50.1		Unit mg/Kg		Prepared	Analyzed 02/20/24 18:02 Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH  Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	el Range Organ Result <50.1 sel Range Orga Result	ics (DRO) ( Qualifier U  nics (DRO) Qualifier U	GC)  RL  50.1		Unit mg/Kg		Prepared	Analyzed 02/20/24 18:02 Analyzed	Dil Fac Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH  Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	el Range Organ Result <50.1  sel Range Orga Result <50.1  <50.1	ics (DRO) ( Qualifier U  nics (DRO) Qualifier U	GC)  RL 50.1  (GC)  RL 50.1  50.1		Unit mg/Kg  Unit mg/Kg		Prepared 02/19/24 15:17 02/19/24 15:17	Analyzed 02/20/24 18:02  Analyzed 02/20/24 18:02 02/20/24 18:02	Dil Fac  Dil Fac  1
Method: SW846 8015 NM - Diese Analyte Total TPH  Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	el Range Organ Result <50.1 sel Range Orga Result <50.1	ics (DRO) ( Qualifier U  nics (DRO) Qualifier U	GC)  RL  50.1  (GC)  RL  50.1		Unit mg/Kg  Unit mg/Kg		Prepared 02/19/24 15:17	Analyzed 02/20/24 18:02  Analyzed 02/20/24 18:02	Dil Fac  Dil Fac  1
Method: SW846 8015 NM - Diese Analyte Total TPH  Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	el Range Organ Result <50.1  sel Range Orga Result <50.1 <50.1 <50.1  %Recovery	ics (DRO) ( Qualifier U  nics (DRO) Qualifier U  U	GC)  RL 50.1  (GC)  RL 50.1  50.1		Unit mg/Kg  Unit mg/Kg mg/Kg		Prepared 02/19/24 15:17 02/19/24 15:17	Analyzed 02/20/24 18:02  Analyzed 02/20/24 18:02 02/20/24 18:02	Dil Fac  Dil Fac  1  1  1
Method: SW846 8015 NM - Diese Analyte Total TPH  Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	el Range Organ Result <50.1  sel Range Orga Result <50.1  <50.1  <50.1	ics (DRO) ( Qualifier U  nics (DRO) Qualifier U  U	GC) RL 50.1  (GC) RL 50.1  50.1		Unit mg/Kg  Unit mg/Kg mg/Kg		Prepared 02/19/24 15:17 02/19/24 15:17	Analyzed 02/20/24 18:02  Analyzed 02/20/24 18:02 02/20/24 18:02 02/20/24 18:02	Dil Fac  Dil Fac  1

# **Client Sample Results**

Client: H & R Enterprises Project/Site: FEDERAL 13 COM 2 (FED13) Job ID: 890-6202-1

SDG: Eddy

Client Sample ID: BG - 4

Lab Sample ID: 890-6202-4

Date Collected: 02/15/24 00:00 Date Received: 02/16/24 08:56 Matrix: Solid

Sample Depth: 0 - 1'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble								
	Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	58.2	4.97	mg/Kg			02/21/24 02:48	1

# **Surrogate Summary**

Client: H & R Enterprises

Job ID: 890-6202-1

Project/Site: FEDERAL 13 COM 2 (FED13)

SDG: Eddy

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-6202-1	BG - 1	103	121	
890-6202-2	BG - 2	135 S1+	128	
890-6202-3	BG - 3	131 S1+	111	
890-6202-4	BG - 4	100	112	
LCS 880-73881/1-A	Lab Control Sample	108	117	
LCS 880-73912/1-A	Lab Control Sample	89	108	
LCSD 880-73881/2-A	Lab Control Sample Dup	136 S1+	123	
LCSD 880-73912/2-A	Lab Control Sample Dup	89	103	
MB 880-73289/5-A	Method Blank	62 S1-	132 S1+	
MB 880-73881/5-A	Method Blank	70	113	
MB 880-73912/5-A	Method Blank	75	102	
Surrogate Legend				
BFB = 4-Bromofluorobe	nzene (Surr)			

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid Prep Type: Total/NA

		1001	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-6202-1	BG - 1	127	112
890-6202-2	BG - 2	108	101
890-6202-3	BG - 3	129	114
890-6202-4	BG - 4	136 S1+	116
LCS 880-73547/2-A	Lab Control Sample	122	129
LCSD 880-73547/3-A	Lab Control Sample Dup	110	108
MB 880-73547/1-A	Method Blank	130	117

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

## QC Sample Results

Job ID: 890-6202-1 Client: H & R Enterprises Project/Site: FEDERAL 13 COM 2 (FED13) SDG: Eddy

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-73289/5-A

**Matrix: Solid** 

Analysis Batch: 73858

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 73289

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00200	U	0.00200		mg/Kg		02/15/24 15:58	02/22/24 18:16	
Toluene	<0.00200	U	0.00200		mg/Kg		02/15/24 15:58	02/22/24 18:16	
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/15/24 15:58	02/22/24 18:16	
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/15/24 15:58	02/22/24 18:16	
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/15/24 15:58	02/22/24 18:16	
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/15/24 15:58	02/22/24 18:16	

MB MB

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	62	S1-	70 - 130
1,4-Difluorobenzene (Surr)	132	S1+	70 - 130

Prepared Dil Fac Analyzed 02/15/24 15:58 02/22/24 18:16 02/15/24 15:58 02/22/24 18:16

Lab Sample ID: MB 880-73881/5-A Client Sample ID: Method Blank **Matrix: Solid** Prep Type: Total/NA

**Analysis Batch: 73858** MR MR

Prep Batch: 73881

Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac Benzene <0.00200 U 0.00200 mg/Kg 02/22/24 15:27 02/23/24 08:04 Toluene <0.00200 U 0.00200 mg/Kg 02/22/24 15:27 02/23/24 08:04 Ethylbenzene <0.00200 U 0.00200 mg/Kg 02/22/24 15:27 02/23/24 08:04 m-Xylene & p-Xylene <0.00400 U 0.00400 mg/Kg 02/22/24 15:27 02/23/24 08:04 o-Xylene <0.00200 U 0.00200 mg/Kg 02/22/24 15:27 02/23/24 08:04 Xylenes, Total <0.00400 U 0.00400 02/22/24 15:27 02/23/24 08:04 mg/Kg

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	l Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	70		70 - 130	02/22/24 15	:27 02/23/24 08:04	1
1,4-Difluorobenzene (Surr)	113		70 - 130	02/22/24 15	:27 02/23/24 08:04	1

Lab Sample ID: LCS 880-73881/1-A

**Matrix: Solid** 

**Analysis Batch: 73858** 

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 73881

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09462		mg/Kg		95	70 - 130	
Toluene	0.100	0.09802		mg/Kg		98	70 - 130	
Ethylbenzene	0.100	0.08353		mg/Kg		84	70 - 130	
m-Xylene & p-Xylene	0.200	0.1861		mg/Kg		93	70 - 130	
o-Xylene	0.100	0.08806		mg/Kg		88	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	108	70 - 130
1.4-Difluorobenzene (Surr)	117	70 - 130

Lab Sample ID: LCSD 880-73881/2-A

**Matrix: Solid** 

**Analysis Batch: 73858** 

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 73881

LCSD LCSD %Rec RPD Spike Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Benzene 0.100 0.09832 mg/Kg 98 70 - 130 35

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Client: H & R Enterprises

Project/Site: FEDERAL 13 COM 2 (FED13)

Job ID: 890-6202-1

SDG: Eddy

# Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-73881/2-A

Matrix: Solid

Analysis Batch: 73858

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 73881

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Toluene	0.100	0.1095		mg/Kg		110	70 - 130	11	35
Ethylbenzene	0.100	0.1098		mg/Kg		110	70 - 130	27	35
m-Xylene & p-Xylene	0.200	0.2145		mg/Kg		107	70 - 130	14	35
o-Xylene	0.100	0.09264		mg/Kg		93	70 - 130	5	35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits		
4-Bromofluorobenzene (Surr)	136	S1+	70 - 130		
1.4-Difluorobenzene (Surr)	123		70 - 130		

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 73912

Lab Sample ID: MB 880-73912/5-A

Matrix: Solid

Analysis Batch: 73907

	IVID	IVID							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/23/24 08:11	02/23/24 14:01	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/23/24 08:11	02/23/24 14:01	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/23/24 08:11	02/23/24 14:01	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/23/24 08:11	02/23/24 14:01	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/23/24 08:11	02/23/24 14:01	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/23/24 08:11	02/23/24 14:01	1

MB MB

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	75	70 - 130	02/23/24 08:11	02/23/24 14:01	1
1,4-Difluorobenzene (Surr)	102	70 - 130	02/23/24 08:11	02/23/24 14:01	1

Lab Sample ID: LCS 880-73912/1-A

**Matrix: Solid** 

Analysis Batch: 73907

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 73912

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1177		mg/Kg		118	70 - 130	
Toluene	0.100	0.09419		mg/Kg		94	70 - 130	
Ethylbenzene	0.100	0.09140		mg/Kg		91	70 - 130	
m-Xylene & p-Xylene	0.200	0.1816		mg/Kg		91	70 - 130	
o-Xylene	0.100	0.09206		mg/Kg		92	70 - 130	

LCS LCS

Surrogate	%Recovery Q	ualifier	Limits		
4-Bromofluorobenzene (Surr)	89		70 - 130		
1.4-Difluorobenzene (Surr)	108		70 <sub>-</sub> 130		

Lab Sample ID: LCSD 880-73912/2-A

**Matrix: Solid** 

Analysis Batch: 73907

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 73912

-	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1059		mg/Kg		106	70 - 130	11	35
Toluene	0.100	0.09157		mg/Kg		92	70 - 130	3	35
Ethylbenzene	0.100	0.09162		mg/Kg		92	70 - 130	0	35

Client: H & R Enterprises

Project/Site: FEDERAL 13 COM 2 (FED13)

Job ID: 890-6202-1

SDG: Eddy

# Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-73912/2-A **Matrix: Solid** 

**Analysis Batch: 73907** 

**Client Sample ID: Lab Control Sample Dup** 

Prep Type: Total/NA Prep Batch: 73912

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
m-Xylene & p-Xylene	0.200	0.1808		mg/Kg		90	70 - 130	0	35
o-Xylene	0.100	0.09140		mg/Kg		91	70 - 130	1	35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	89		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

# Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-73547/1-A

**Matrix: Solid** 

Analysis Batch: 73598

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 73547

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/19/24 15:17	02/20/24 08:02	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/19/24 15:17	02/20/24 08:02	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/19/24 15:17	02/20/24 08:02	1

мв мв

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	130		70 - 130	02/19/24 15:17	02/20/24 08:02	1
o-Terphenyl	117		70 - 130	02/19/24 15:17	02/20/24 08:02	1

Lab Sample ID: LCS 880-73547/2-A

**Matrix: Solid** 

Analysis Batch: 73598

Client	Sample	ID: I	Lab (	Control	Sampl	е
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**Prep Type: Total/NA** 

Prep Batch: 73547

	Spike	LCS	LCS				%Rec
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Gasoline Range Organics	1000	1030		mg/Kg		103	70 - 130
(GRO)-C6-C10							
Diesel Range Organics (Over	1000	1035		mg/Kg		104	70 - 130
C10 C28)							

C10-C28)

LCS LCS

Surrogate	%Recovery Qua	alifier Limits
1-Chlorooctane	122	70 - 130
o-Terphenyl	129	70 - 130

Client Sample ID: Lab Control Sample Dup

Matrix: Solid

**Analysis Batch: 73598** 

Lab Sample ID: LCSD 880-73547/3-A

Prep Type: Total/NA Prep Batch: 73547

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	955.9		mg/Kg		96	70 - 130	7	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	950.5		mg/Kg		95	70 - 130	9	20
C10-C28)									

# QC Sample Results

Job ID: 890-6202-1 Client: H & R Enterprises Project/Site: FEDERAL 13 COM 2 (FED13)

SDG: Eddy

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 880-73547/3-A **Matrix: Solid** 

Analysis Batch: 73598

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 73547

LCSD LCSD

Surrogate %Recovery Qualifier Limits 1-Chlorooctane 110 70 - 130 o-Terphenyl 108 70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-73608/1-A Client Sample ID: Method Blank **Prep Type: Soluble** 

**Matrix: Solid** 

**Analysis Batch: 73693** 

MB MB

Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac 5.00 Chloride <5.00 U 02/20/24 23:53 mg/Kg

Lab Sample ID: LCS 880-73608/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble** 

Analysis Batch: 73693

LCS LCS Spike %Rec Analyte Added Result Qualifier Unit D %Rec Limits Chloride 250 251.7 101 90 - 110 mg/Kg

Lab Sample ID: LCSD 880-73608/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble** 

Analysis Batch: 73693

Released to Imaging: 3/22/2024 10:51:17 AM

LCSD LCSD RPD Spike %Rec Analyte Added Result Qualifier %Rec Limits RPD Limit Unit Chloride 250 258.8 104 90 - 110 20 mg/Kg

# **QC Association Summary**

Client: H & R Enterprises

Project/Site: FEDERAL 13 COM 2 (FED13)

Job ID: 890-6202-1

SDG: Eddy

## **GC VOA**

## Prep Batch: 73289

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-73289/5-A	Method Blank	Total/NA	Solid	5035	

## **Analysis Batch: 73858**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6202-1	BG - 1	Total/NA	Solid	8021B	73881
890-6202-2	BG - 2	Total/NA	Solid	8021B	73881
890-6202-3	BG - 3	Total/NA	Solid	8021B	73881
MB 880-73289/5-A	Method Blank	Total/NA	Solid	8021B	73289
MB 880-73881/5-A	Method Blank	Total/NA	Solid	8021B	73881
LCS 880-73881/1-A	Lab Control Sample	Total/NA	Solid	8021B	73881
LCSD 880-73881/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	73881

#### Prep Batch: 73881

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6202-1	BG - 1	Total/NA	Solid	5035	_
890-6202-2	BG - 2	Total/NA	Solid	5035	
890-6202-3	BG - 3	Total/NA	Solid	5035	
MB 880-73881/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-73881/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-73881/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

## Analysis Batch: 73907

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6202-4	BG - 4	Total/NA	Solid	8021B	73912
MB 880-73912/5-A	Method Blank	Total/NA	Solid	8021B	73912
LCS 880-73912/1-A	Lab Control Sample	Total/NA	Solid	8021B	73912
LCSD 880-73912/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	73912

#### Prep Batch: 73912

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method Prep Batch
890-6202-4	BG - 4	Total/NA	Solid	5035
MB 880-73912/5-A	Method Blank	Total/NA	Solid	5035
LCS 880-73912/1-A	Lab Control Sample	Total/NA	Solid	5035
LCSD 880-73912/2-A	Lab Control Sample Dup	Total/NA	Solid	5035

## Analysis Batch: 73969

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6202-1	BG - 1	Total/NA	Solid	Total BTEX	
890-6202-2	BG - 2	Total/NA	Solid	Total BTEX	
890-6202-3	BG - 3	Total/NA	Solid	Total BTEX	
890-6202-4	BG - 4	Total/NA	Solid	Total BTEX	

## **GC Semi VOA**

## Prep Batch: 73547

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6202-1	BG - 1	Total/NA	Solid	8015NM Prep	
890-6202-2	BG - 2	Total/NA	Solid	8015NM Prep	
890-6202-3	BG - 3	Total/NA	Solid	8015NM Prep	
890-6202-4	BG - 4	Total/NA	Solid	8015NM Prep	
MB 880-73547/1-A	Method Blank	Total/NA	Solid	8015NM Prep	

# **QC Association Summary**

Client: H & R Enterprises

Project/Site: FEDERAL 13 COM 2 (FED13)

Job ID: 890-6202-1

SDG: Eddy

## **GC Semi VOA (Continued)**

## Prep Batch: 73547 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-73547/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-73547/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

#### Analysis Batch: 73598

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6202-1	BG - 1	Total/NA	Solid	8015B NM	73547
890-6202-2	BG - 2	Total/NA	Solid	8015B NM	73547
890-6202-3	BG - 3	Total/NA	Solid	8015B NM	73547
890-6202-4	BG - 4	Total/NA	Solid	8015B NM	73547
MB 880-73547/1-A	Method Blank	Total/NA	Solid	8015B NM	73547
LCS 880-73547/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	73547
LCSD 880-73547/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	73547

## Analysis Batch: 73762

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6202-1	BG - 1	Total/NA	Solid	8015 NM	
890-6202-2	BG - 2	Total/NA	Solid	8015 NM	
890-6202-3	BG - 3	Total/NA	Solid	8015 NM	
890-6202-4	BG - 4	Total/NA	Solid	8015 NM	

## HPLC/IC

## Leach Batch: 73608

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6202-1	BG - 1	Soluble	Solid	DI Leach	
890-6202-2	BG - 2	Soluble	Solid	DI Leach	
890-6202-3	BG - 3	Soluble	Solid	DI Leach	
890-6202-4	BG - 4	Soluble	Solid	DI Leach	
MB 880-73608/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-73608/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-73608/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

#### **Analysis Batch: 73693**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6202-1	BG - 1	Soluble	Solid	300.0	73608
890-6202-2	BG - 2	Soluble	Solid	300.0	73608
890-6202-3	BG - 3	Soluble	Solid	300.0	73608
890-6202-4	BG - 4	Soluble	Solid	300.0	73608
MB 880-73608/1-A	Method Blank	Soluble	Solid	300.0	73608
LCS 880-73608/2-A	Lab Control Sample	Soluble	Solid	300.0	73608
LCSD 880-73608/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	73608

Leach

Analysis

DI Leach

300.0

Job ID: 890-6202-1

SDG: Eddy

Client Sample ID: BG - 1

Date Collected: 02/15/24 00:00 Date Received: 02/16/24 08:56

Lab Sample ID: 890-6202-1

**Matrix: Solid** 

Batch Batch Dil Initial Final Batch Prepared Prep Type Method Run Factor Amount Amount Number or Analyzed Analyst Type Lab Prep Total/NA 5035 5 mL 73881 02/22/24 15:27 EL **EET MID** 5.02 g Total/NA Analysis 8021B 1 5 mL 5 mL 73858 02/23/24 11:09 MNR EET MID Total/NA Analysis Total BTEX 73969 02/23/24 11:09 ΑJ **EET MID** Total/NA Analysis 8015 NM 1 73762 02/20/24 16:49 SM **EET MID** 73547 TKC EET MID Total/NA 8015NM Prep 10.03 g 10 ml 02/19/24 15:17 Prep Total/NA Analysis 8015B NM 1 uL 1 uL 73598 02/20/24 16:49 SM **EET MID** 

5

5.01 g

73608

73693

50 ml

02/20/24 08:04

02/21/24 02:14

Lab Sample ID: 890-6202-2

SA

СН

Matrix: Solid

FFT MID

**EET MID** 

Date Collected: 02/15/24 00:00 Date Received: 02/16/24 08:56

Client Sample ID: BG - 2

Soluble

Soluble

Dil Final Batch Batch Initial Batch Prepared Prep Type Туре Method Factor Amount Amount Number or Analyzed Lab Run **Analyst** Total/NA Prep 5035 4.98 g 5 mL 73881 02/22/24 15:27 EL EET MID 8021B Total/NA Analysis 1 5 mL 5 mL 73858 02/23/24 11:35 MNR **EET MID** Total/NA Total BTEX 02/23/24 11:35 Analysis 73969 A.I **EET MID** 1 Total/NA Analysis 8015 NM 73762 02/20/24 17:13 SM **EET MID** Total/NA 8015NM Prep 10.07 g 10 mL 73547 02/19/24 15:17 TKC FFT MID Prep Total/NA Analysis 8015B NM 1 uL 1 uL 73598 02/20/24 17:13 SM **EET MID** Soluble 4.96 g 50 mL 73608 DI Leach 02/20/24 08:04 **EET MID** Leach SA Soluble Analysis 300.0 73693 02/21/24 02:35 СН **EET MID** 

Client Sample ID: BG - 3

Date Collected: 02/15/24 00:00 Date Received: 02/16/24 08:56

Lab Sample ID: 890-6202-3

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	73881	02/22/24 15:27	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73858	02/23/24 12:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			73969	02/23/24 12:02	AJ	EET MID
Total/NA	Analysis	8015 NM		1			73762	02/20/24 17:38	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	73547	02/19/24 15:17	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73598	02/20/24 17:38	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	73608	02/20/24 08:04	SA	EET MID
Soluble	Analysis	300.0		1			73693	02/21/24 02:41	CH	EET MID

Client Sample ID: BG - 4

Date Collected: 02/15/24 00:00

Date Received: 02/16/24 08:56

Lab Sample ID: 890-6202-4

Batch Batch Dil Initial Final Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab 02/23/24 15:11 5035 73912 Total/NA 5.01 g MNR EET MID Prep 5 mL Total/NA Analysis 8021B 1 5 mL 5 mL 73907 02/23/24 17:32 MNR **EET MID** Total/NA Total BTEX 73969 02/23/24 17:32 FFT MID Analysis 1 A.I

**Eurofins Carlsbad** 

**Matrix: Solid** 

## **Lab Chronicle**

Client: H & R Enterprises

Project/Site: FEDERAL 13 COM 2 (FED13)

Job ID: 890-6202-1

SDG: Eddy

Client Sample ID: BG - 4

Date Collected: 02/15/24 00:00 Date Received: 02/16/24 08:56

Lab Sample ID: 890-6202-4

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			73762	02/20/24 18:02	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	73547	02/19/24 15:17	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73598	02/20/24 18:02	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	73608	02/20/24 08:04	SA	EET MID
Soluble	Analysis	300.0		1			73693	02/21/24 02:48	CH	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

# **Accreditation/Certification Summary**

Client: H & R Enterprises Job ID: 890-6202-1 Project/Site: FEDERAL 13 COM 2 (FED13)

SDG: Eddy

## **Laboratory: Eurofins Midland**

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Progra	am	Identification Number	Expiration Date			
Texas	NELA	Р	T104704400-23-26	06-30-24			
,	are included in this report, bu	it the laboratory is not certif	fied by the governing authority. This lis	t may include analytes			
Analysis Method	Prep Method	Matrix	Analyte				
8015 NM		Solid	Total TPH				
Total BTEX		Solid	Total BTEX				

# **Method Summary**

Client: H & R Enterprises

Project/Site: FEDERAL 13 COM 2 (FED13)

Job ID: 890-6202-1

SDG: Eddy

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

#### **Protocol References:**

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

#### Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

**Eurofins Carlsbad** 

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13

# Sample Summary

Client: H & R Enterprises

Project/Site: FEDERAL 13 COM 2 (FED13)

Job ID: 890-6202-1

SDG: Eddy

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-6202-1	BG - 1	Solid	02/15/24 00:00	02/16/24 08:56	0 - 1'
890-6202-2	BG - 2	Solid	02/15/24 00:00	02/16/24 08:56	0 - 1'
890-6202-3	BG - 3	Solid	02/15/24 00:00	02/16/24 08:56	0 - 1'
890-6202-4	BG - 4	Solid	02/15/24 00:00	02/16/24 08:56	0 - 1'

3

4

R

9

4 4

12

16

12

of service. Eurofins Xenco will be liable only for the cost of samu of Eurofins Xenco. A minimum charge of \$85.00 will be applied  Retiniquished by: (Signature).	Total 200.7 / 6010 200.8 / 6020:  Circle Method(s) and Metal(s) to be analyzed Notice: Signature of this document and relinquishment of samples const		86,-4	1367-3	1367-1 501	Sample Identification Matrix		Cooler Custody Seals: Yes No N/A	lact:	SAMPLE RECEIPT Lamp Blank:	Sampler's Name:	000	Project Number:	Project Name: Fector 3 Com	Phone:	City, State ZIP:	. 6.1.1	Company Name: 1++ C Chte	Project Manager: M, CO), Ex	Aenco	S CUPOTINS Environ	
of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously nego  Refinquished by: (Signature)  Refinquished by: (Signature)	8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Nalyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U ples constitutes a valid purchase order from client company to Eurofina Xianoo, the affiliation and authonominators. We assigns standard terms and conditions				2/15/24 0-1 C3 1 X X X	Sampled Sampled Depth Comp Cont	3.2	X	INA		the lab, if received by 4:30pm	Due Date:	Routine Rush Pres.	2 (F2413) Turn Around	Email:	City, State ZIP:	Address:	CDEISE S	Bill to: (if different) CIMANEX	EL Paso, TX (915) 885-3443, Lubbock, TX (806) 794-1296 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199	Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300  Environment Testing Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334	Chain of Custody
losses are due to circumstances beyond the control  I. These terms will be enforced unless previously negotiated.  RElinquished by: (Signature)  Received by: (Signature)	Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO <sub>2</sub> Na Sr Tl Sn Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 cton. It easigns standard terms and conditions						Na	Zn	Control of Custody				No	ANALYSIS REQUEST	Deliverables: EDD ADaPT	evel III	State of Project:	Program: UST/PST PRP Brownfields	Energy Work Order Comments	www.xenco.com	902-0300 0) 509-3334 Work Order No:	
Date//Ime	Sn U V Zn 170 /7471					Sample Comments	NaOH+Ascorbic Acid: SAPC	Zn Acetate+NaOH: Zn	O 4: NABIS	4: HP	2	C HNO : HN		Preservative Codes	Other:	ST		elds ☐ RRC ☐ Superfund ☐	rents	Page of		

# **Login Sample Receipt Checklist**

Client: H & R Enterprises

Job N

Job Number: 890-6202-1

SDG Number: Eddy

Login Number: 6202 List Source: Eurofins Carlsbad

List Number: 1

Creator: Bruns, Shannon

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	N/A	Refer to Job Narrative for details.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

4

Eurofins Carlsbad

Page 23 of 24

# **Login Sample Receipt Checklist**

Client: H & R Enterprises

Job Number: 890-6202-1

SDG Number: Eddy

**List Source: Eurofins Midland** 

Login Number: 6202 List Number: 2 List Creation: 02/19/24 08:27 AM

Creator: Rodriguez, Leticia

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Released to Imaging: 3/22/2024 10:51:17 AM

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720

District II 811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS

Action 313377

#### **QUESTIONS**

Operator:	OGRID:
CIMAREX ENERGY CO. OF COLORADO	162683
6001 Deauville Blvd, Ste 300N	Action Number:
Midland, TX 79706	313377
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

#### QUESTIONS

Prerequisites	
Incident ID (n#)	nGEG0420547165
Incident Name	NGEG0420547165 FEDERAL 13 COM #002 (7.23.2004) @ 30-015-33344
Incident Type	Release Other
Incident Status	Remediation Closure Report Received
Incident Well	[30-015-33344] FEDERAL 13 COM #002

Location of Release Source							
Please answer all the questions in this group.							
Site Name	Federal 13 Com #002 (7.23.2004)						
Date Release Discovered	07/23/2004						
Surface Owner	Federal						

Incident Details	ncident Details						
Please answer all the questions in this group.							
Incident Type	Release Other						
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	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	Not answered.
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Cause: Equipment Failure   Other (Specify)   Diesel   Released: 19 BBL   Recovered: 0 BBL   Lost: 19 BBL.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720 District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170 District IV

**State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division** 1220 S. St Francis Dr. Santa Ea NIM 97505

QUESTIONS, Page 2

Action 313377

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462	i Fe, Nivi 6/505
QUESTI	IONS (continued)
Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd, Ste 300N Midland, TX 79706	OGRID:  162683  Action Number:
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	No
Reasons why this would be considered a submission for a notification of a major release	Unavailable.
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 s	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.
	I lation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of ted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of vvaluation in the follow-up C-141 submission.
to report and/or file certain release notifications and perform corrective actions for release the OCD does not relieve the operator of liability should their operations have failed to	knowledge and understand that pursuant to OCD rules and regulations all operators are required asses which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or
<u></u>	<u></u>

Name: Laci Luig Title: ES&H Specialist

Date: 02/12/2024

Email: DL\_PermianEnvironmental@coterra.com

I hereby agree and sign off to the above statement

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720 District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170 1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS, Page 3

Action 313377

#### **QUESTIONS** (continued)

Operator:	OGRID:
CIMAREX ENERGY CO. OF COLORADO	162683
6001 Deauville Blvd, Ste 300N	Action Number:
Midland, TX 79706	313377
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

#### QUESTIONS

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)	Between 26 and 50 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release ar	nd 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	Between 1 and 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 300 and 500 (ft.)
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 500 and 1000 (ft.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan	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	Yes	
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.		
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)	480	
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	68.1	
GRO+DRO (EPA SW-846 Method 8015M)	16.9	
BTEX (EPA SW-846 Method 8021B or 8260B)	0	
Benzene (EPA SW-846 Method 8021B or 8260B)	0	
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.		
On what estimated date will the remediation commence	08/07/2023	
On what date will (or did) the final sampling or liner inspection occur	08/07/2023	
On what date will (or was) the remediation complete(d)	08/07/2023	
What is the estimated surface area (in square feet) that will be reclaimed	400	
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	0	
What is the estimated volume (in cubic yards) that will be remediated	0	
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.		
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.

District I

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1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462 State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS, Page 4

Action 313377

#### **QUESTIONS** (continued)

Operator:	OGRID:
CIMAREX ENERGY CO. OF COLORADO	162683
6001 Deauville Blvd, Ste 300N	Action Number:
Midland, TX 79706	313377
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

#### QUESTIONS

Remediation Plan (continued)		
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.		
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:		
(Select all answers below that apply.)		
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)  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)	Yes	
Other Non-listed Remedial Process. Please specify	No remediation required, site was previously remediated and already reclaimed. Review email correspondence, this is 1 of 3 spill incidents onsite. Delineated vertically to confirm that site was previously remediated properly to fullest extents.	

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 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.

Name: Laci Luig
Title: ES&H Specialist
Email: DL\_PermianEnvironmental@coterra.com
Date: 02/12/2024

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

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

QUESTIONS, Page 5

Action 313377

**QUESTIONS** (continued)

Operator:	OGRID:
CIMAREX ENERGY CO. OF COLORADO	162683
6001 Deauville Blvd, Ste 300N	Action Number:
Midland, TX 79706	313377
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

#### QUESTIONS

Deferral Requests Only	
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.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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

QUESTIONS, Page 6

Action 313377

**QUESTIONS** (continued)

Operator:	OGRID:
CIMAREX ENERGY CO. OF COLORADO	162683
6001 Deauville Blvd, Ste 300N	Action Number:
Midland, TX 79706	313377
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

#### QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	320105
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	02/07/2024
What was the (estimated) number of samples that were to be gathered	4
What was the sampling surface area in square feet	200

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	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	0
What was the total volume (cubic yards) remediated	0
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	0
What was the total volume (in cubic yards) reclaimed	0
Summarize any additional remediation activities not included by answers (above)	No remediation required, site was previously remediated and already reclaimed. Review email correspondence, this is 1 of 3 spill incidents onsite. Delineated vertically to confirm that site was previously remediated properly to fullest extents.

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

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

I hereby agree and sign off to the above statement

I hereby agree and sign off to the above statement

Title: ES&H Specialist
Email: DL\_PermianEnvironmental@coterra.com
Date: 02/12/2024

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QUESTIONS, Page 7

Action 313377

**QUESTIONS** (continued)

Operator:	OGRID:
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Midland, TX 79706	313377
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

#### QUESTIONS

Reclamation Report			
Only answer the questions in this group if all reclamation steps have been completed.			
Requesting a reclamation approval with this submission	No		

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CONDITIONS

Action 313377

#### **CONDITIONS**

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#### CONDITIONS

Created	Ву	Condition	Condition Date
crystal	l.walker	None	3/22/2024