



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

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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).

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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

Yes	No	Within 300 feet of any continuously flowing watercourse or any other significant watercourse
Yes	No	Within 200 feet of any lakebed, sinkhole, or a playa lake
Yes	No	Within 300 feet from an occupied permanent residence, school, hospital, institution, or church
Yes	No	Within 500 feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes
Yes	No	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
Yes	No	Within the area overlying a subsurface mine
Yes	No	Within an unstable area
Yes	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**				
<u><</u> 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.

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	NMAC	ria 19.15.29	50 mg/kg	10 mg/kg		100 mg/kg	i i i i i i i i	100 mg/kg	600 mg/kg
	Q	0-1'	ND	ND	ND	ND	ND	0	128
	3	2"	ND	ND	ND	ND	ND	0	464
		3"	ND	ND	ND	16.9	51.2	68.1	480
BH-1 8/7/2023	9	4"	ND	ND	ND	10.8	23.7	34.5	480
	1 1	5'	ND	ND	ND	ND	ND	0	48
		6"	ND	ND	ND	ND	ND	0	416
	1 0	T	ND	ND	ND	ND	ND	0	400
	8/7/2023	8	ND	ND	ND	ND	ND	0	192
		9"	ND	ND	ND	ND	ND	0	144
	1 8	10'	ND	ND	ND	ND	ND	0	176
		11'	ND	ND	ND	ND	ND	0	208
		12'	ND	ND	ND	ND	ND	0	176
	I E	13'	ND	ND	ND	ND	ND	0	192
	I E	14'	ND	ND	ND	ND	ND	0	192
	. II.	15'	ND	ND	ND	ND	ND	0	176

Table 1: Initial Soil Samples Analysis

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

APPENDIX I

SITE MAPS

KARST MAP

TOPOGRAPHIC MAP

LOCATOR MAP

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



Received by OCD: 2/12/2024 9:26:35 AM Federal 13 Com #002

Cimarex Energy Co. of Colorado Incident# nGEG0420547165 Eddy County, NM Karst Map

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Google Earth









GROUNDWATER DATA

SOIL SURVEY

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

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New Mexico Office of the State Engineer Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been	(R=POD l replaced, O=orphan													
replaced & no longer serves a water right	C=the file	is		(0	quart	ers are	e 1=NW	/ 2=NE 3	3=SW 4=SE					
file.)	closed)			(0	quart	ers are	smalle	est to larg	gest) (N	AD83 UTM in m	neters)	(In f	eet)	
		POD		~		_								
POD Number	Code	Sub- basin	County		Q (16 4		Tws	Rng	X	Y	DistanceDe	othWellDept		/ater dumn
C 03654 POD1	cout	CUB	ED	-		1 24		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	2 26	25S	26E	569598	3552352*	2672	35		
<u>C 03655 POD3</u>		CUB	ED	1	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		С	ED	2	2	2 27	25S	26E	568577	3552567	3083	57	14	43
<u>C 03261 POD1</u>		CUB	ED	3	2	1 20	25S	27E	574007	3554006*	3362	351		
<u>C 01013</u>		С	ED		4	4 25	25S	26E	571505	3551456*	3403	245		
<u>C 01368</u>		С	ED		1	1 22	25S	26E	567261	3554059*	3544	143	118	25
<u>C 01089</u>		С	ED	3	4	1 03	25S	26E	567505	3558398*	4855	96	45	51
										Avera	ge Depth to Wat	er:	44 fee	et
											Minimum De	pth:	0 fee	et
											Maximum Dep	pth:	118 fee	t
Record Count: 10														
Basin/County Search	<u>:</u>													
County: Eddy														
UTMNAD83 Radius	<u>Search (in</u>	meters)) <u>:</u>											
Easting (X): 57073	33		North	ing	(Y):	3554	4771			Radius: 5000				
*UTM location was derived	from PLSS	5 - see He	lp											

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





INITIAL C-141

FINAL C-141

NMOCD Communication

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

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 Page 17 of 132

Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

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Incident ID	nGEG0420547165
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	OGRID
Contact Name	Contact Telephone
Contact email	Incident # (assigned by OCD)
Contact mailing address	

Location of Release Source

Latitude	
Latitude	

(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Site Type
Date Release Discovered	API# (if applicable)

Unit Letter	Section	Township	Range	County

Surface Owner: State Federal Tribal Private (Name: _

Nature and Volume of Release

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

Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?	Yes No
Condensate	Volume Released (bbls)	Volume Recovered (bbls)
Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
Cause of Release		

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Incident ID	nGEG0420547165
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the responsible party consider this a major release?
🗌 Yes 🗌 No	
If YES, was immediate ne	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?

Initial Response

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

The source of the release has been stopped.

The impacted area has been secured to protect human health and the environment.

Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.

All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

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

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

Printed Name:	Title:
Signature:	Date:
email:	Telephone:
OCD Only	
Received by:	Date:
Received by:	Date:

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

Oil Conservation Division

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Incident ID	nGEG0420547165
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Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	(ft bgs)
Did this release impact groundwater or surface water?	🗌 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?	🗌 Yes 🗌 No
Are the lateral extents of the release within a 100-year floodplain?	🗌 Yes 🗌 No
Did the release impact areas not 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 1/2-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.

Received by OCD: 2/12/2	2024 9:26:35 AM State of New Mexico			Page 20 of 13
			Incident ID	nGEG0420547165
Page 4	Oil Conservation Division	Oil Conservation Division		
			Facility ID	
			Application ID	
regulations all operators a public health or the enviro failed to adequately inves addition, OCD acceptance and/or regulations. Printed Name: Signature:	nformation given above is true and complete to the lare required to report and/or file certain release notifionment. The acceptance of a C-141 report by the O tigate and remediate contamination that pose a three of a C-141 report does not relieve the operator of the operator	fications and perform of CD does not relieve th at to groundwater, surf responsibility for comp Title: Date:	corrective actions for rel ne operator of liability sh face water, human health pliance with any other fo	eases which may endanger ould their operations have a or the environment. In deral, state, or local laws
OCD Only				
Received by:		Date:		

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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 19.15.29.11 NMAC Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection) Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling) Description of remediation activities I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete. Printed Name: _____ Title: _____ Signature: Date: Telephone: email: **OCD Only** Received by: Date: Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by:	Date:
Printed Name:	Title:

Ashton Thielke

From:	Ashton Thielke
Sent:	Tuesday, July 11, 2023 9:26 AM
То:	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!

COTERRA

Ashton Thielke | PBU - Environmental Consultant T: 432.813.8988 | M: 281.753.5659 | <u>Ashton.Thielke@coterra.com</u> | <u>www.coterra.com</u> 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 | <u>Brittany.Hall@emnrd.nm.gov</u> http://www.emnrd.nm.gov/ocd/ From: Ashton Thielke <<u>Ashton.Thielke@coterra.com</u>>
Sent: Friday, July 7, 2023 11:47 AM
To: Hall, Brittany, EMNRD <<u>Brittany.Hall@emnrd.nm.gov</u>>
Cc: Laci Luig <<u>Laci.Luig@coterra.com</u>>
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 | <u>ashton.thielke@coterra.com</u> | <u>www.coterra.com</u> 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 <<u>Brittany.Hall@emnrd.nm.gov</u>>
Sent: Friday, July 7, 2023 12:44:17 PM
To: Ashton Thielke <<u>Ashton.Thielke@coterra.com</u>>
Cc: Laci Luig <<u>Laci.Luig@coterra.com</u>>
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 | <u>Brittany.Hall@emnrd.nm.gov</u> http://www.emnrd.nm.gov/ocd/ From: Ashton Thielke <<u>Ashton.Thielke@coterra.com</u>>
Sent: Monday, June 26, 2023 2:42 PM
To: Hall, Brittany, EMNRD <<u>Brittany.Hall@emnrd.nm.gov</u>>
Cc: Laci Luig <<u>Laci.Luig@coterra.com</u>>
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

T: 432.813.8988 | M: 281.753.5659 | <u>Ashton.Thielke@coterra.com</u> | <u>www.coterra.com</u> 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.

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Received by OCD: 2/12/2024 9:26:35 AM NMOCD Requested Sampling Map

Cimarex Energy Federal 13 Com #002 32.1269608, -104.2404272

nJMVV1224849818 (10.11.2010): Release inside the tank battery containment Collect 5 5-point composite samples at the areas of S-1 through S-5 (0-0.5'). If all clean, write closure report.

nGEG0420547165 (07.23.2004):

Diesel Tank Spill Drill from (0-15') and collect samples in 1' intervals at BH-1 to confirm that previous remediation effors addressed this historic spill. Collect surface horizontal samples and include them in work plan/closure report.

nAB1719137479 (06 28.2017):

20 bbl Produced Water Spill on Pad. Drill from (0-5') and collect samples in 1 intervals at (BH-2 through BH-9) to confirm that previous remediation effors addressed this historic spill. Collect surface horizontal samples and include them in work plan/closure report. Federal 13 Com #002 (10.11.2010)

BH-1

BH-6

BH-7

S-4

Ha

BH-2

BH-5 •

BH-8

H-3 •

\$-5

S-1

S-2 0

S-3

BH-3

BH-4

•

BH-9



Federal 13 Com #002 (07.23.2004)

FEDERAL 13 COM #002 (06.28.2017)

AN AL



PHOTOGRAPHIC DOCUMENTATION

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

PHOTOGRAPHIC DOCUMENTATION

SITE ASSESSMENT PHOTOGRAPHS



BH-1

.



LABORATORY REPORTS

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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 www.tceq.texas.gov/field/ga/lab_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)

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. Keine

Celey D. Keene Lab Director/Quality Manager



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 0-1' (H234243-01)

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, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	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

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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 2' (H234243-02)

BTEX 8021B	mg/kg		Analyze	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	101 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	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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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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 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	% 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	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*	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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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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 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	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*	10.8	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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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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		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	102	% 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	48.0	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	77.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	83.2	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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 6' (H234243-06)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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
Chloride	416	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	75.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	83.8	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager


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 7' (H234243-07)

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	101	% 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	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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*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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 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, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	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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*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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 9' (H234243-09)

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, SM4500Cl-B	mg/	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	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						

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*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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 10' (H234243-10)

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, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	08/10/2023	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	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	70.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	78.5	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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 11' (H234243-11)

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	98.2	% 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	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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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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 12' (H234243-12)

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	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	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, Lab Director/Quality Manager



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 13' (H234243-13)

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, SM4500Cl-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	77.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	83.5	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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 14' (H234243-14)

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	76.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	81.8	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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 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	% 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	74.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	81.6	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

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

		DITT 10	¢	A	ANALYSIS REQUEST
Project Manager: Michael Collier		P.O. #:			
Address:		Company: Cimarex Energy	nergy	_	
City:	State: Zip:	Attn: Laci Luig		_	
Phone #:	Fax #:	Address:		_	
Project #:	Project Owner: Cimarex Energy	gy City:		_	
Project Name: Federal 13 Com #002 (Fed 13 2004)	2 (Fed 13 2004)			-	
Project Location: Eddy County, NM		Phone #:		_	
Sampler Name: Roy Bell		Fax #:		_	
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Reinquished By:	Time: 3:35 NOw	Pianona	Verbai Result: ☐ Yes ☐ No	s 🛛 No Please provide Em	Add"I Phone #: mail address:
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Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Sample Condition CHECKED BY: Cool Internation (Initials)	Turnaround Time: Standard	Bactaria (only) Sample Condition Observed Temp. "C	Sangle Condition
	1.50		Correction Factor -0.5c # 140	140	I No I No Conversed Team Vi
FORM-006 R 3.2 10/07/21			-		

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476 Company Name: H&R Enterprises

BILL TO

ANALYSIS REQUEST

FORM-006 R 3.2 10/07/21

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 | Phone #: | City: | Address:
 | Project Manager | Company Name | |
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 | : Michael Collier | H&R Enterprises | 101 East M
(575) 393 |
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 | PRESERV. | Fax #: | Phone #: | State: Zip: | City:
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† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

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FORM-006 R 3.2 10/07/21





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

Yes	No	Within 300 feet of any continuously flowing watercourse or any other significant watercourse
Yes	No	Within 200 feet of any lakebed, sinkhole, or a playa lake
Yes	No	Within 300 feet from an occupied permanent residence, school, hospital, institution, or church
Yes	No	Within 500 feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes
Yes	No	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
Yes	No	Within the area overlying a subsurface mine
Yes	No	Within an unstable area
Yes	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:

	Tat	ole I	
	Closure Criteria for Soil	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**
<u><</u> 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.

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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	le 1 Closure Crit NMAC		50 mg/kg	10 mg/kg		100 mg/kg	0, 0	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
		6'	ND	ND	ND	ND	ND	0	416
	8/7/2023	7'	ND	ND	ND	ND	ND	0	400
BH-1		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

Table 1: Initial Soil Samples Analysis Results

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

APPENDIX I

SITE MAPS

KARST MAP

TOPOGRAPHIC MAP

LOCATOR MAP

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Received by OCD: 2/12/2024 9:26:35 AM

Federal 13 Com #002

Cimarex Energy Co. of Colorado Incident# nGEG0420547165 Eddy County, NM Site Assessment Map

Legend

BG_1

• BG-3-

BH-1

BG-4 •

BG-2

Horizontal Sample Point

80 f

Vertical Bore Hole Sample Point

Page 56 of 132

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Received by OCD: 2/12/2024 9:26:35 AM Federal 13 Com #002

Cimarex Energy Co. of Colorado Incident# nGEG0420547165 Eddy County, NM Karst Map

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Google Earth







GROUNDWATER DATA

SOIL SURVEY

FEMA FLOOD ZONE

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New Mexico Office of the State Engineer Water Column/Average Depth to Water

A CLW##### in the POD suffix indicates the POD has been	(R=POD replaced, O=orpha													
replaced & no longer serves a water right	C=the file	e is		(qı	ıarte	ers are	1=NW	2=NE :	3=SW 4=SE)				
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		POD												_
POD Number	Code	Sub-	County	Q (Twe	Rng	х	Y	DistanceDep	thWallDan		/ater
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<u>C 03569 POD1</u>		CUB	ED	2	1 1	14	25S	26E	568862	3555746	2110	30	0	30
<u>C 02220</u>		CUB	ED	3	12	26	25S	26E	569598	3552352*	2672	35		
<u>C 03655 POD3</u>		CUB	ED	1	44	22	25S	26E	568458	3553019	2871			
<u>C 02221</u>		CUB	ED	4	32	25	25S	26E	571412	3551961*	2890	35		
C 04329 POD1		С	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>		С	ED		4	25	25S	26E	571505	3551456*	3403	245		
<u>C 01368</u>		С	ED		1 1	22	25S	26E	567261	3554059*	3544	143	118	25
<u>C 01089</u>		С	ED	3	4 1	03	25S	26E	567505	3558398*	4855	96	45	51
										Averag	ge Depth to Wate	er:	44 fee	et
											Minimum Dep	oth:	0 fee	et
											Maximum Dep	oth:	118 fee	et
Record Count: 10														
Basin/County Searc	<u>:h:</u>													
County: Eddy														
<u>UTMNAD83 Radiu</u>	<u>s Search (ir</u>	<u>n meters)</u> :	<u>.</u>											
Easting (X): 570	733		North	ning (Y):	3554	771			Radius: 5000				
*UTM location was derive	d from PLS	S - see Hel	n											

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



Received by OCD: 2/12/2024 9:26:35 AM National Flood Hazard Layer FIRMette



Legend

Page 65 of 132





NMOCD CORRESPONDENCE

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

From:	Ashton Thielke
To:	Walker, Crystal, EMNRD
Cc:	Laci Luig; <u>Michael Collier</u>
Subject:	RE: [EXTERNAL] RE: Federal 13 Com #002 - Application 313377 - nGEG0420547165
Date:	Tuesday, March 5, 2024 7:26:55 AM
Subject:	RE: [EXTERNAL] RE: Federal 13 Com #002 - Application 313377 - nGEG0420547165

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 | <u>Ashton.Thielke@coterra.com</u> | <u>www.coterra.com</u> 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>>; mcollier@h-r-enterprises.com
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 | <u>Ashton.Thielke@coterra.com</u> | <u>www.coterra.com</u> 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 | <u>Ashton.Thielke@coterra.com</u> | <u>www.coterra.com</u> 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: Wednesday, February 14, 2024 2:20 PM

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

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

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 <u>https://www.emnrd.nm.gov/ocd/ocd-announcements-and-notifications/</u> or <u>https://www.emnrd.nm.gov/ocd/ocd-forms/</u>.

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

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

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

District III

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

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

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

Page 7Jeof 132

QUESTIONS

Action 313362

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)

QUESTIONS

QUESTIONS

Prerequisites	
Incident ID (n#)	nGEG0420547165
Incident Name	NGEG0420547165 2004 MINOR A SPL @ 30-015-33344
Incident Type	Release Other
Incident Status	Closure Not Approved
Incident Well	[30-015-33344] FEDERAL 13 COM #002

Location of Release Source

Site Name	Unavailable.
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	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.

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, -104.2404272

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

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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

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	d Condition	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

CONDITIONS

Action 313362
District I 1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720 District II

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

District III

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

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

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

Page 73eof 132 QUESTIONS

Action 320105

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)

QUESTIONS

QUESTIONS

Prerequisites					
Incident ID (n#)	nGEG0420547165				
Incident Name	NGEG0420547165 FEDERAL 13 COM #002 @ 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

Site Name	FEDERAL 13 COM #002
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.

Please provide any information necessary for observers to contact samplers	Michael Collier - H&R - 575-909-0326 Horizontal sampling after teams meeting with OCD to request additional samples.
Please provide any information necessary for navigation to sampling site	See Site Coordinates.

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

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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

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

Crea By		Condition Date
llu	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

CONDITIONS

Action 320105



PHOTOGRAPHIC DOCUMENTATION

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

SITE ASSESSMENT PHOTOGRAPHS



BH-1



BG-1

PHOTOGRAPHIC DOCUMENTATION



BG-2



BG-3

PHOTOGRAPHIC DOCUMENTATION



BG-4

FINAL PHOTOGRAPHS



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.



LABORATORY REPORTS

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



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 www.tceq.texas.gov/field/ga/lab_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)

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. Keine

Celey D. Keene Lab Director/Quality Manager



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 0-1' (H234243-01)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
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, SM4500Cl-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	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	60.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	57.9	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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 2' (H234243-02)

BTEX 8021B	mg/kg		Analyze	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	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	464	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	86.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	83.3	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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 3' (H234243-03)

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	104	% 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	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*	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, Lab Director/Quality Manager



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 4' (H234243-04)

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	98.1	% 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	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, Lab Director/Quality Manager



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						
Chloride, 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	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	77.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	83.2	% 49.1-14	8						

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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 6' (H234243-06)

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	97.6	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	Analyzed 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	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	75.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	83.8	% 49.1-14	8						

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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 7' (H234243-07)

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	101	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	Analyzed 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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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 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 9	% 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	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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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 9' (H234243-09)

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, SM4500Cl-B	mg,	/kg	Analyze	Analyzed 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						

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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 10' (H234243-10)

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, SM4500Cl-B	mg,	/kg	Analyze	Analyzed 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	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	70.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	78.5	% 49.1-14	8						

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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 11' (H234243-11)

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	98.2	% 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	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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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 12' (H234243-12)

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	101	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	Analyzed 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	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	73.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	79.6	% 49.1-14	8						

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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 13' (H234243-13)

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, SM4500Cl-B	mg,	/kg	Analyze	Analyzed 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	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	77.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	83.5	% 49.1-14	8						

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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 14' (H234243-14)

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, SM4500Cl-B	mg,	/kg	Analyze	Analyzed 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	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	76.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	81.8	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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 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	% 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	74.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	81.6	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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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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 whatscever 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 whose 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 whose site to the services interruptors, loss of profits incurred by client, its subsidiaries, afflictes or successor arising out of or related to the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

			F	T			FORM-006 R 3.2 10/07/21	
Yee Yee Connected Temp. 'C	Ves Yes	Correction Factor -0.5c # 140	Thermometer ID Correction Factor	3	0 No	1.00		
	e Condition	Standard Z Bacturia (only) Sample Condition Cool Induct Observed Temp. 'C	Turnaround Time: 1	CHECKED BY: (Initials)	Sample Condition	Corrected Temp. °C	Sampler - UPS - Bus - Other:	Samp
						Time:		
		of 2	REMARKS: PG 1 of 2		Recéived By:	Date: Recé	Kelinguished By:	Kell
	address:	All Results are emailed. Please provide Email	All Results are e	lena	Mour l'int	Time: 13:35	MG/CM.	
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Produce NPLIC Labelsy bell Chargens, Carlows having and a ware statistic memory for any conservation of the additional and and any differ the any other source of any differ the any differ the any differ on any di	E be deemod welved unless r	ligence and any other cause whatsoever shall	aims including those for neg	try the clubs for the analyses. All ca clard, its subsidiaries, above stated reasons or otherwise.	contract or tort, sheat be livingd to the amount pair cost, loss of use, or issue of profits incurred by whether such claim is based upon any of the a	salwe "medy far any claim aniong urbester baded in o , including without limitation, business interruptio Fservices hereunder by Cardinal, regardless of v	Product INDE: Caladity bell Calavity, Caladity in hali and starts ensistent manip for any source under to conduct or to a share sitted to the source part by the caladity on a source part of the caladity of the above caladity on a source part by the caladity of the above caladity teascourd or calavity on a source part by the caladity of the above caladity teascourd or calavity on a source part by the caladity of the above caladity teascourd or calavity on a source part by the caladity of the above caladity teascourd or calavity on a source part by the caladity of the above caladity teascourd or calavity on a source part of the above caladity on a source part of the above caladity teascourd or calavity on a source part of the above caladity teascourd or calavity on a source part of the above caladity of the above caladity teascourd or calavity on a source part of the above caladity teascourd or calavity of the above calavity of the above caladity teascourd or calavity of the above caladity teascourd or calavity of the above calavity of the above calavity of the above calavit	anitat a
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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

	(575) 393-2326 FAX (575) 393-2476	75) 393-24	76																															
Company Name: H&R Enterprises	H&R Enterprises							- 1	_		- 1		8	BILL TO		1				A	ANALYSIS REQUEST	SIS	2	2	ES	-								
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Project #:	Proj	Project Owner: Cimarex Energy	Cim	arex	m	VB			+	City:		1				-					_					_					_		_	
Project Name: Fed	Project Name: Federal 13 Com #002 (Fed 13 2004)								-	State:	8			Zip:		-	_							_		_	_		_		_			_
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s - Other:	(E Contraction	out of or related to the performance	mages. Cardina's Nacility and clear's as or incidental or consequental damage			BH-1 15'	DI1-1 14	BH-1 13'	RH-1 12.	BH-1 11'	DIT 4 441			Roy Bell	Project Location: Eddy County, NM	Project Name: Federal 13 Com #002 (: Michael Collier	Company Name: H&R Enterprises	101 East I (575) 39
Observed Temp. °C Corrected Temp. °C	Date: Time:	1 5 8 35 Time: 3 35	of services hereunder by Cardinal, re-	PLEAGE NOTE: Liability and Damagen. Cardina's Holliny and allows meeting throwy four wavely showed in content or tool, taking a linear to be annual yeak by the calend to be annual yeak by the calend to be analyzes. All calend event shall Cardinal be liable for incidential or corresponding without imitation, business teamsproots, loss of use, or base of profits incurred by ourse, the subdomest.													(Fed 13 2004)	Project Ov	Fax #:	State:				101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476
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† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

10 00

FORM-006 R 3.2 10/07/21



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Michael Collier H & R Enterprises 5120 W Kansas St Hobbs, New Mexico 88242 Generated 2/26/2024 2:50:58 PM

JOB DESCRIPTION

FEDERAL 13 COM 2 (FED13) Eddy

JOB NUMBER

890-6202-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

See page two for job notes and contact information.



Page 101 of 132

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

AMER

Generated 2/26/2024 2:50:58 PM

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

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

2

Laboratory Job ID: 890-6202-1 SDG: Eddy

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QC Sample Results	11
QC Association Summary	15
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Certification Summary	19
Method Summary	20
Sample Summary	21
Chain of Custody	22
	23

	Definitions/Glossary		
Client: H & R Er Project/Site: FE	interprises EDERAL 13 COM 2 (FED13)	Job ID: 890-6202-1 SDG: Eddy	2
Qualifiers			
			3
GC VOA Qualifier	Qualifier Description		
S1-	Surrogate recovery exceeds control limits, low biased.		
S1-	Surrogate recovery exceeds control limits, high biased.		Ę
U	Indicates the analyte was analyzed for but not detected.		
GC Semi VOA			
Qualifier	Qualifier Description		
S1+	Surrogate recovery exceeds control limits, high biased.		
U	Indicates the analyte was analyzed for but not detected.		
HPLC/IC			9
HPLC/IC Qualifier	Qualifier Description		0
U	Indicates the analyte was analyzed for but not detected.		9
Glossary			
Abbreviation	These commonly used abbreviations may or may not be present in this report.		
<u>¤</u>	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		
DER	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		
DLC	Decision Level Concentration (Radiochemistry)		
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)		
MDL	Method Detection Limit		
ML	Minimum Level (Dioxin)		
MPN	Most Probable Number		
MQL	Method Quantitation Limit		

Not Calculated

Presumptive

Quality Control

Negative / Absent Positive / Present

Practical Quantitation Limit

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)

Too Numerous To Count

Toxicity Equivalent Quotient (Dioxin)

Reporting Limit or Requested Limit (Radiochemistry)

Relative Percent Difference, a measure of the relative difference between two points

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

NC

ND NEG

POS PQL

PRES

QC

RER

RPD TEF

TEQ

TNTC

RL

Case Narrative

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

Job ID: 890-6202-1

Eurofins Carlsbad

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 method.
- 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.

HPLC/IC

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

Eurofins Carlsbad

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

Sample Depth: 0 - 1'

Lab Sample ID: 890-6202-1 Matrix: Solid

5

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: TAL SOP Total BTEX - To	otal BTEX Calo	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/23/24 11:09	1
Method: SW846 8015 NM - Diese	I Range Organ	ics (DRO) (G	C)						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/20/24 16:49	1
Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)						
Analyte	• •	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/19/24 15:17	02/20/24 16:49	1
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		02/19/24 15:17	02/20/24 16:49	1
C10-C28)					5. 5				
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/19/24 15:17	02/20/24 16:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	127		70 - 130				02/19/24 15:17	02/20/24 16:49	1
p-Terphenyl	112		70 - 130				02/19/24 15:17	02/20/24 16:49	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	ohy - Soluble)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	339		25.0		mg/Kg			02/21/24 02:14	5
lient Sample ID: BG - 2							Lab Sar	nple ID: 890-	6202-2
ate Collected: 02/15/24 00:00								Matri	x: Solid
ate Received: 02/16/24 08:56									
ample Depth: 0 - 1'									
Method: SW846 8021B - Volatile	Organic Comp	ounds (GC)							
Analyte		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

4-Bromofluorobenzene (Surr)	135	S1+	70 - 130		02/22/24 15:27	02/23/24 11:35	1
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
Xylenes, Total	<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
m-Xylene & p-Xylene	<0.00402	U	0.00402	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
Toluene	<0.00201	U	0.00201	mg/Kg	02/22/24 15:27	02/23/24 11:35	1
Delizerie	<0.00201	0	0.00201	mg/rxg	02/22/24 15.27	02/23/24 11.33	1

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Client: H & R Enterprises Project/Site: FEDERAL 13 COM 2 (FED13)

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

Client Sample Results

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

Matrix: Solid

5

Lab Sample ID: 890-6202-2

Lab Sample ID: 890-6202-3

Matrix: Solid

Client Sample ID: BG - 2

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

Sample Depth: 0 - 1'

thad SM046 9024D Valatila Organia Compoundo (CC) (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 - T	otal BTEX Calo	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			02/23/24 11:35	1
Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
								00/00/01 17 10	
	<49.7		49.7		mg/Kg			02/20/24 17:13	1
Method: SW846 8015B NM - Dies	sel Range Orga			MDL		D	Prepared	02/20/24 17:13 Analyzed	1 Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	sel Range Orga	nics (DRO) Qualifier	(GC)	MDL		<u>D</u>	Prepared 02/19/24 15:17		1 Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	sel Range Orga Result	Qualifier	(GC)	MDL	Unit	<u>D</u>	·	Analyzed	1
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	sel Range Orga Result <49.7	nics (DRO) Qualifier U	(GC) <u>RL</u> 49.7	MDL	Unit mg/Kg	<u> </u>	02/19/24 15:17	Analyzed 02/20/24 17:13	Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	sel Range Orga Result <49.7 <49.7	nics (DRO) Qualifier U U	(GC) <u>RL</u> 49.7 49.7	MDL	Unit mg/Kg mg/Kg	<u>D</u>	02/19/24 15:17 02/19/24 15:17	Analyzed 02/20/24 17:13 02/20/24 17:13	1 Dil Fac 1 1 Dil Fac
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	sel Range Orga Result <49.7 <49.7 <49.7	nics (DRO) Qualifier U U	(GC) <u>RL</u> 49.7 49.7 49.7	MDL	Unit mg/Kg mg/Kg	<u> </u>	02/19/24 15:17 02/19/24 15:17 02/19/24 15:17	Analyzed 02/20/24 17:13 02/20/24 17:13 02/20/24 17:13	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

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

Client Sample ID: BG - 3

Date Collected: 02/15/24 00:00 Date Received: 02/16/24 08:56 Sample Depth: 0 - 1'

Method: SW846 8021B - Volatile Organic Compounds (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 02/22/24 15:27 02/23/24 12:02 mg/Kg 1 Ethylbenzene <0.00202 U 0.00202 mg/Kg 02/22/24 15:27 02/23/24 12:02 1 02/23/24 12:02 m-Xylene & p-Xylene <0.00404 U 0.00404 02/22/24 15:27 mg/Kg 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 %Recovery Qualifier Limits Surrogate Prepared Analvzed Dil Fac 70 - 130 02/23/24 12:02 4-Bromofluorobenzene (Surr) 131 S1+ 02/22/24 15:27 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 02/23/24 12:02 mg/Kg 1 Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

method. Swoto ou is him - Dieser 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

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

Project/Site: FEDERAL 13 COM 2 (FED13)

Job ID: 890-6202-1

Client Sample ID: BG - 3

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

Sample Depth: 0 - 1'

Client: H & R Enterprises

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/19/24 15:17	02/20/24 17:38	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/19/24 15:17	02/20/24 17:38	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/19/24 15:17	02/20/24 17:38	
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 Chromatography - Soluble

Ana		sult Qualifier		MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chl	oride	76.4	5.02		mg/Kg			02/21/24 02:41	1

Client Sample ID: BG - 4

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
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 - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399		0.00399	mg/Kg			02/23/24 17:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			02/20/24 18:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.1	U	50.1		mg/Kg		02/19/24 15:17	02/20/24 18:02	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.1	U	50.1		mg/Kg		02/19/24 15:17	02/20/24 18:02	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		02/19/24 15:17	02/20/24 18:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	136	S1+	70 - 130				02/19/24 15:17	02/20/24 18:02	1
o-Terphenyl	116		70 - 130				02/19/24 15:17	02/20/24 18:02	1

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SDG: Eddy

Lab Sample ID: 890-6202-4

Matrix: Solid

2/26/2024

Lab Sample ID: 890-6202-3 Matrix: Solid

5
		Client	Sample R	esults	5					1			
Client: H & R Enterprises Project/Site: FEDERAL 13 COM 2 (FE	D13)							Job ID: 890 SD)-6202-1 G: Eddy	2			
Client Sample ID: BG - 4 Date Collected: 02/15/24 00:00						Lab Sample ID: 890-6202- Matrix: Soli							
Date Received: 02/16/24 08:56 Sample Depth: 0 - 1'										4			
Method: EPA 300.0 - Anions, Ion Ch Analyte		<mark>hy - Soluble</mark> Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	5			
Chloride	58.2		4.97		mg/Kg			02/21/24 02:48	1				
										8			
										9			
										13			

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Method: 8021B - Volatile Organic Compounds (GC) Matrix: Solid

Percent Surrogate Recovery (Acceptance Limits) BFB1 DFBZ1 Client Sample ID (70-130) (70-130) Lab Sample ID 890-6202-1 BG - 1 103 121 BG - 2 890-6202-2 135 S1+ 128 890-6202-3 BG - 3 131 S1+ 111 BG - 4 890-6202-4 100 112 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 103 89 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-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

_			
		1CO1	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

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Job ID: 890-6202-1
SDG: Eddy

SDG: Eddy 2 Prep Type: Total/NA 4

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QC Sample Results

Client: H & R Enterprises Project/Site: FEDERAL 13 COM 2 (FED13)

Method: 8021B - Volatile Organic Compounds (GC)

											Client Sa	mple ID: N	lethod	l Blank
Matrix: Solid												Prep Ty	pe: To	otal/NA
Analysis Batch: 73858														73289
-		ΜВ	МВ											
Analyte	Res	sult	Qualifier	RL		MDL	Unit		D	P	repared	Analyze	d	Dil Fac
Benzene	< 0.002	200	U	0.00200			mg/Kg		_	02/1	5/24 15:58	02/22/24 1	8:16	1
Toluene	<0.002	200	U	0.00200			mg/Kg			02/1	5/24 15:58	02/22/24 1	8:16	1
Ethylbenzene	<0.002	200	U	0.00200			mg/Kg			02/1	5/24 15:58	02/22/24 1	8:16	1
m-Xylene & p-Xylene	< 0.004	400	U	0.00400			mg/Kg			02/1	5/24 15:58	02/22/24 1	8:16	1
o-Xylene	< 0.002	200	U	0.00200			mg/Kg			02/1	5/24 15:58	02/22/24 1	8:16	1
Xylenes, Total	< 0.004	400	U	0.00400			mg/Kg			02/1	5/24 15:58	02/22/24 1	8:16	1
		ΜВ	MB											
Surrogate	%Recov	-	Qualifier	Limits							repared	Analyze		Dil Fac
4-Bromofluorobenzene (Surr)				70 - 130							5/24 15:58	02/22/24 1		1
1,4-Difluorobenzene (Surr)		132	S1+	70 - 130						02/1	5/24 15:58	02/22/24 1	8:16	1
											Client Sa	mple ID: N	lethod	l Blank
Matrix: Solid												Prep Ty		
Analysis Batch: 73858														73881
Analysis Daten. 19090		мв	МВ									пер	Daten.	. 7 500 1
Analyte			Qualifier	RL		MDL	Unit		D	P	repared	Analyze	d	Dil Fac
Benzene	< 0.002	200	U	0.00200			mg/Kg		_		2/24 15:27	02/23/24 0		1
Toluene	< 0.002	200	U	0.00200			mg/Kg			02/2	2/24 15:27	02/23/24 0	8:04	1
Ethylbenzene	< 0.002	200	U	0.00200			mg/Kg			02/2	2/24 15:27	02/23/24 0	8:04	1
m-Xylene & p-Xylene	< 0.004			0.00400			mg/Kg			02/2	2/24 15:27	02/23/24 0	8:04	
o-Xylene	< 0.002			0.00200			mg/Kg				2/24 15:27	02/23/24 0		1
Xylenes, Total	< 0.004			0.00400			mg/Kg				2/24 15:27	02/23/24 0		1
· · · · · · · · · · · · · · · · · · ·			-											
		MВ	МВ											
Surrogate	%Recov		Qualifier	Limits							repared	Analyze		Dil Fac
4-Bromofluorobenzene (Surr)		70		70 - 130							2/24 15:27	02/23/24 0		1
1,4-Difluorobenzene (Surr)		113		70 - 130						02/2	2/24 15:27	02/23/24 0	8:04	1
									С	lient	Sample	D: Lab Co	ntrol S	Sample
Matrix: Solid									Ŭ		oumpio	Prep Ty		
Analysis Batch: 73858														: 73881
Analysis Baten. 10000				Spike	LCS	LCS						%Rec	Duton.	
Analyte				Added	Result			Unit		D	%Rec	Limits		
Benzene				0.100	0.09462	Qua		mg/Kg			95	70 - 130		
Toluene				0.100	0.09802			mg/Kg			98	70 - 130 70 - 130		
Ethylbenzene				0.100	0.09802			mg/Kg			98 84	70 - 130 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												
	ecovery	Qual	lifier	Limits										
4-Bromofluorobenzene (Surr)	108			70 - 130										
1,4-Difluorobenzene (Surr)	117			70 - 130										
										~			•	
Lab Sample ID: LCSD 880-73881/2-4	4							Cli	ent	Sam	ple ID: La	ab Control		
Matrix: Solid												Prep Ty		
Analysis Batch: 73858							_						Batch:	73881
				Spike	LCSD							%Rec		RPD
Analyte				Added	Result	Qua	lifier	Unit		D	%Rec	Limits	RPD	Limit
Ponzono				0 400	0 00000			malka			00	(1) 120		

7

Job ID: 890-6202-1 SDG: Eddy

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4

Benzene

0.09832

mg/Kg

98

70 - 130

0.100

35

QC Sample Results

Job ID: 890-6202-1 SDG: Eddy

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

Lab Sample ID: LCSD 880-73881/2	- A							CI	ient	Sam	ipie ID: L	ab Contro		
Matrix: Solid													ype: To	
Analysis Batch: 73858							_						Batch:	
A wash da				Spike		LCSE		11			0/ D	%Rec		RPD
Analyte				Added		Quali	tier	Unit		<u>D</u>	%Rec	Limits		Limit
Foluene				0.100	0.1095			mg/Kg			110	70 - 130	11	35
thylbenzene				0.100	0.1098			mg/Kg			110	70 - 130	27	35
n-Xylene & p-Xylene				0.200	0.2145			mg/Kg			107	70 - 130	14	35
-Xylene				0.100	0.09264			mg/Kg			93	70 - 130	5	35
	LCSD	LCS	D											
Surrogate 9	&Recovery	Qua	lifier	Limits										
-Bromofluorobenzene (Surr)	136	S1+		70 - 130										
,4-Difluorobenzene (Surr)	123			70 - 130										
.ab Sample ID: MB 880-73912/5-A											Client Sa	ample ID: I	Method	Blank
Matrix: Solid												Prep T	ype: To	tal/NA
analysis Batch: 73907												Prep	Batch:	73912
		ΜВ	MB											
nalyte	R	esult	Qualifier		RL	MDL	Unit		D	P	repared	Analyz	ed	Dil Fac
enzene	<0.0	0200	U	0.00	200		mg/Kg		_	02/2	3/24 08:11	02/23/24	14:01	1
oluene	<0.0	0200	U	0.00	200		mg/Kg			02/2	3/24 08:11	02/23/24	14:01	1
thylbenzene	<0.0	0200	U	0.00	200		mg/Kg			02/2	3/24 08:11	02/23/24	14:01	1
n-Xylene & p-Xylene	<0.0	0400	U	0.00	400		mg/Kg			02/2	3/24 08:11	02/23/24	14:01	1
Xylene	<0.0	0200	U	0.00	200		mg/Kg			02/2	3/24 08:11	02/23/24	14:01	1
ylenes, Total	<0.0	0400	U	0.00	400		mg/Kg			02/2	3/24 08:11	02/23/24	14:01	1
			МВ									_		
urrogate	%Reco		Qualifier								repared	Analyz		Dil Fac
Bromofluorobenzene (Surr)		75		70 - 13							3/24 08:11	02/23/24		1
4-Difluorobenzene (Surr)		102		70 - 13	30					02/2	3/24 08:11	02/23/24	14:01	1
ab Sample ID: LCS 880-73912/1-	A								С	lient	Sample	ID: Lab Co		-
Aatrix: Solid													ype: To	
Analysis Batch: 73907				0	1.00	1.00							Batch:	73912
				Spike		LCS	~			_	a . 5	%Rec		
nalyte				Added		Quali	TIER	Unit		<u>D</u>		Limits		
enzene				0.100	0.1177			mg/Kg			118	70 - 130		
bluene				0.100	0.09419			mg/Kg			94 01	70 - 130		
hylbenzene				0.100	0.09140			mg/Kg			91	70 - 130		
n-Xylene & p-Xylene				0.200	0.1816			mg/Kg			91	70 - 130		
-Xylene				0.100	0.09206			mg/Kg			92	70 - 130		
urrogate %	LCS %Recovery	LCS Qua		Limits										
Bromofluorobenzene (Surr)	89			70 - 130										
4-Difluorobenzene (Surr)	108			70 - 130										
ab Sample ID: LCSD 880-73912/2	2-A							CI	ient	Sam	ple ID: L	.ab Contro	I Sampl	e Dup
latrix: Solid											•		ype: To	
nalysis Batch: 73907													Batch:	
				Spike	LCSD	LCSE)					%Rec		RPD
nalyte				Added		Quali		Unit		D	%Rec	Limits	RPD	Limit
enzene				0.100	0.1059			mg/Kg			106	70 - 130	11	35

3

0

35

35

Toluene

Ethylbenzene

0.09157

0.09162

mg/Kg

mg/Kg

92

92

70 - 130

70 - 130

0.100

0.100

QC Sample Results

Client: H & R Enterprises Project/Site: FEDERAL 13 COM 2 (FED13) Page 113 of 132

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

Lab Sample ID: LCSD 880-73 Matrix: Solid Analysis Batch: 73907				Clie	nt Sarr	iple ID: I		I Sampl ype: To Batch:	tal/NA		
			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								

Lab Sample ID: MB 880-73547/1- Matrix: Solid Analysis Batch: 73598	A	МВ					Client Sa	mple ID: Metho Prep Type: ٦ Prep Batch	otal/NA
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
Oll 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

Analysis Batch: 73598							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)								

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	122		70 - 130
o-Terphenyl	129		70 - 130

Lab Sample ID: LCSD 880-73547/3-A Matrix: Solid Analysis Batch: 73598

	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)									

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Client Sample ID: Lab Control Sample Dup

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 73547

Project/Site: FEDERAL 13 COM 2 (FED13)

Client: H & R Enterprises

Job ID: 890-6202-1 SDG: Eddy

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

Lab Sample ID: LCSD 880-73	547/3-A							CI	ient Sa	ample ID:	Lab Contr	ol Samp	le Dup
Matrix: Solid											Prep	Type: To	otal/NA
Analysis Batch: 73598											Pre	p Batch:	73547
	LCSD L	CSD											
Surrogate	%Recovery Q	ualifier	Limits										
1-Chlorooctane	110		70 - 130	-									
o-Terphenyl	108		70 - 130										
lethod: 300.0 - Anions, Io	on Chromatog	graphy											
Lab Sample ID: MB 880-7360	8/1-A									Client	Sample ID:	Method	Blan
Matrix: Solid											Prep	o Type: S	olubl
Analysis Batch: 73693													
	M	IB MB											
Analyte	Resu	ult Qualifier		RL		MDL	Unit		D	Prepared	Analy	/zed	Dil Fa
Chloride	<5.0	00 U		5.00			mg/Kg	1			02/20/24	4 23:53	
Lab Sample ID: LCS 880-7360	08/2-A								Clie	nt Sampl	e ID: Lab C	Control S	ample
Matrix: Solid											Prep	o Type: S	olubl
Analysis Batch: 73693													
			Spike		LCS	LCS					%Rec		
Analyte			Added		Result	Qual	ifier	Unit	0	D %Rec	Limits		
Chloride			250		251.7			mg/Kg		101	90 - 110		
Lab Sample ID: LCSD 880-73	608/3-A							CI	ient Sa	ample ID:	Lab Contr	ol Samp	le Du
Matrix: Solid											Prep	o Type: S	olubl
Analysis Batch: 73693													
			Spike		LCSD	LCSI	D				%Rec		RP
									_				
Analyte			Added		Result	Qual	ifier	Unit		D %Rec	Limits	RPD	Lim

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

ep 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	
nalysis Batch: 73858					
Lab Sample ID	Client Sample ID	Ргер Туре	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
rep 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	
nalysis 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
rep 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	
nalysis Batch: 73969					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6202-1	BG - 1	Total/NA	Solid	Total BTEX	- <u>- ·</u>
890-6202-2	BG - 2	Total/NA	Solid	Total BTEX	
890-6202-3	BG - 3	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 73547

Lab Sample ID	Client Sample ID	Ргер Туре	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	

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QC Association Summary

Client: H & R Enterprises Project/Site: FEDERAL 13 COM 2 (FED13)

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

090-0202-2	BG-2	TOLAI/INA	50110	OU IOD INIVI	/ 354/	
890-6202-3	BG - 3	Total/NA	Solid	8015B NM	73547	8
890-6202-4	BG - 4	Total/NA	Solid	8015B NM	73547	
MB 880-73547/1-A	Method Blank	Total/NA	Solid	8015B NM	73547	9
LCS 880-73547/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	73547	
		T , 10.10	Calid	8015B NM	73547	
LCSD 880-73547/3-A nalysis Batch: 73762	Lab Control Sample Dup	Total/NA	Solid	60 TSB INIVI	100-1	
		Iotal/NA	Solid	6013B NIM	100-1	
nalysis Batch: 73762 Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch	
nalysis Batch: 73762 Lab Sample ID						
	Client Sample ID	Ргер Туре	Matrix	Method		
nalysis Batch: 73762 Lab Sample ID 890-6202-1	Client Sample ID BG - 1	Prep Type Total/NA	Matrix Solid	Method 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

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Job ID: 890-6202-1 SDG: Eddy Project/Site: FEDERAL 13 COM 2 (FED13)

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Job ID: 890-6202-1 SDG: Eddy

Lab Sample ID: 890-6202-1 Matrix: Solid

Lab Sample ID: 890-6202-2

Matrix: Solid

Matrix: Solid

Client Sample ID: BG - 1 Date Collected: 02/15/24 00:00 Date Received: 02/16/24 08:56

Client: H & R Enterprises

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 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 11:09	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			73969	02/23/24 11:09	AJ	EET MID
Total/NA	Analysis	8015 NM		1			73762	02/20/24 16:49	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 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 16:49	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	73608	02/20/24 08:04	SA	EET MID
Soluble	Analysis	300.0		5			73693	02/21/24 02:14	СН	EET MID

Client Sample ID: BG - 2

Date Collected: 02/15/24 00:00

Date Received: 02/16/24 08:56

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 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 11:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			73969	02/23/24 11:35	AJ	EET MID
Total/NA	Analysis	8015 NM		1			73762	02/20/24 17:13	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 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 17:13	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	73608	02/20/24 08:04	SA	EET MID
Soluble	Analysis	300.0		1			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

	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	ткс	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

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

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Lab Sample ID: 890-6202-4

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Lab Sample ID: 890-6202-3

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

Matrix: Solid

Project/Site: FEDERAL 13 COM 2 (FED13)

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Job ID: 890-6202-1 SDG: Eddy

Lab Sample ID: 890-6202-4 Matrix: Solid

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

Client Sample ID: BG - 4

Client: H & R Enterprises

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	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	СН	EET MID

Laboratory References:

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

Eurofins Carlsbad

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

	Acc	creditation/Cerf	tification Summary			
ent: H & R Enterprises oject/Site: FEDERAL 13	; COM 2 (FED13)				Job ID: 890-6202-1 SDG: Eddy	Ī
boratory: Eurofins ess otherwise noted, all analyt			itation/certification below.			
uthority	Progra	am	Identification Number	Expiration Date		
xas	NELAP	,	T104704400-23-26	06-30-24		
		t the laboratory is not certif	fied by the governing authority. This lis	st may include analytes		
0,	oes not offer certification.	B Activity	A == 1.4=			
Analysis Method 8015 NM	Prep Method	Matrix Solid	Analyte Total TPH			
Total BTEX		Solid	Total BTEX			

Eurofins Carlsbad

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
3015B 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
SW846 =	Environmental Protection Agency "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third E = TestAmerica Laboratories, Standard Operating Procedure	dition, November 1986 And Its Updates.	
Laboratory R	eferences:		
EET MID :	= Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-544)	

Laboratory References:

Eurofins Carlsbad

Job ID: 890-6202-1 SDG: Eddy

Client: H & R Enterprises Project/Site: FEDERAL 13 COM 2 (FED13)

ab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth	
90-6202-1	BG - 1	Solid	02/15/24 00:00	02/16/24 08:56	0 - 1'	
90-6202-2	BG - 2	Solid	02/15/24 00:00	02/16/24 08:56	0 - 1'	
90-6202-3	BG - 3	Solid	02/15/24 00:00	02/16/24 08:56	0 - 1'	
90-6202-4	BG - 4	Solid	02/15/24 00:00	02/16/24 08:56	0 - 1'	
						1

	2	0 856	211	June	G	Fiftell
e) Received by: (Signature) Date/Time	Relinquished by: (Signature)	Date/Time	e .	Received-by: (Signature	gnature)	Relinquished by: (Signature)
idard terms and conditions tances beyond the control rced unless previously negotiated.	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofina Xinnon, Its affiliates and subcontractors. It essigns standard terms and conditions of service: Eurofins Xenco. Will be Table only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such tosses are due to circumstances beyond the control 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	Eurofins X area, in affiliate and xpenses incurred by the client If I to Eurofins Xenco, but not anab	der from client company to onsibility for any losses or e 5 for each sample submitted	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofina Xianco, he affiliates and subcontractors. It assigns star of service: Eurofins Xenco. Will be lable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circums 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 enfo	nt and relinquishment of samp I lable only for the cost of samp harge of \$85.00 will be applied	lotice: Signature of this docume #service: Eurofins Xenco will be f Eurofins Xenco. A minimum ci
Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr TI Sn U V Zn 10 Ni Se Ag TI U Hg: 1631/245.1/7470/7471	d Ca Cr Co Cu Fe Pb Mg Mn Mo N Cr Co Cu Pb Mn Mo Ni Se Ag TI U	A 13PPM Texas 11 Al Sb As Ba Be B Cd TCLP/SPLP6010 : 8RCRA Sb As Ba Be Cd C	13PPM Texas 11 AI LP/SPLP 6010 : 8RCR/	8RCR	200.8 / 6020: d Metal(s) to be ana	Total 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed
						86-4
						BG-3
						BG·Z
		IXXX	0-1 6	2/15/24	501.)	BG-1
Sample Comments		#of 6 Th Ct	Depth Grab/ #	Date Time Sampled Sampled	ation Matrix	Sample Identification
NaOH+Ascorbic Acid: SAPC		76	3.2	Corrected Temperature:	(Total Containers:
Zn Acetate+NaOH: Zn			34	Temperature Reading:	Yes No N/A	Sample Custody Seals:
203: NaSO 3		<	10.2	Correction Factor:	Yes No NA	Cooler Custody Seals:
890-6202 Chain of Custody O 4: NABIS	890-620	es	INMACI	leter	Yes blain.	Samples Received Intact:
HP .		ters	Voc No	Va No Wat los	Tomp Displa	CANADI E DECEIDT
:H ₂ NaOH:Na			TAT starts the day received by the lab, if received by 4:30pm	TAT starts th the lab, if re	K. Be 11	Sampler's Name: /
0				Due Date:	Eddy	
None: NO DI Water: H ₂ O		Pres. Code	SP	Routine		ber:
ST Preservative Codes	ANALYSIS REQUEST		Turn Around	2 (Fed B) Tur	Feder 3 (com	Project Name:
Deliverables: EDD ADaPT Other:				Email:		Phone:
.evel III PST/UST			City, State ZIP:			City, State ZIP:
State of Project:			Address:			Address:
Program: UST/PST PRP Brownfields RRC Superfund	0	Leci Chi	Company Name:	Sasido	HAR ENTER	
Work Order Comments	rex Energy	Cimare	Bill to: (if different)		1. Collier	Project Manager:
www.xenco.com Page of	NM (575) 988-3199	Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199	Hobbs, N			
Work Order No:	o, TX (210) 509-3334 TX (806) 794-1296	Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296	Midland, Ti EL Paso, T	Xenco	Xenco	
	TX (214) 902-0300	Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300	Houston	Toting		🔅 eurofins

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

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Job Number: 890-6202-1 SDG Number: Eddy

List Source: Eurofins Carlsbad

Login Sample Receipt Checklist

Client: H & R Enterprises

Login Number: 6202 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	

Job Number: 890-6202-1

List Source: Eurofins Midland

List Creation: 02/19/24 08:27 AM

SDG Number: Eddy

Login Sample Receipt Checklist

Client: H & R Enterprises

Login Number: 6202 List Number: 2 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	N/A	

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").

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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

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

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				

Nature and Volume of Release

detrimental to fresh water

Is this release of a volume that is or may with reasonable probability be

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.

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 2

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

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
minuai	Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.	
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.
	ation 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 valuation in the follow-up C-141 submission.
to report and/or file certain release notifications and perform corrective actions for releat the OCD does not relieve the operator of liability should their operations have failed to a	knowledge and understand that pursuant to OCD rules and regulations all operators are required ases 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
I hereby agree and sign off to the above statement	Name: Laci Luig Title: ES&H Specialist Email: DL_PermianEnvironmental@coterra.com Date: 02/12/2024

District I

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 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 and the following surface areas:		
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)	
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)	
An occupied permanent residence, school, hospital, institution, or church	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

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 CI 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 (EPA SW-846 Method 8021B or 8260B) Benzene 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

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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 4

Action 313377

Phone:(505) 476-3470 Fax:(505) 476-3462	
QUESTI	ONS (continued)
Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd, Ste 300N Midland, TX 79706	OGRID: 162683 Action Number: 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	e 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	e / 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 et which includes the anticipated timelines for beginning and completing the remediation.	fforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC,
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 a	knowledge and understand that pursuant to OCD rules and regulations all operators are required ases 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
I hereby agree and sign off to the above statement	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 significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required

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QUESTIONS (continued)		
Operator: CIMAREX ENERGY CO. OF COLORADO	OGRID: 162683	
6001 Deauville Blvd, Ste 300N Midland, TX 79706	Action Number: 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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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 r	emediation 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.
	closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of
to report and/or file certain release notifications and perform corrective actions for relea- the OCD does not relieve the operator of liability should their operations have failed to water, human health or the environment. In addition, OCD acceptance of a C-141 report	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 ially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed ing notification to the OCD when reclamation and re-vegetation are complete.
	Name: Laci Luig Title: ES&H Specialist

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 (continued)		
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6001 Deauville Blvd, Ste 300N Midland, TX 79706	Action Number: 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 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)

CONDITIONS

Created By	Condition	Condition Date	
crystal.walker	None	3/22/2024	