



MCollier@H-R_Enterprises.com 575-909-0326

Site Assessment and Closure Report

Gadwall 18 Federal Com #002H
Incident# nAB1518054044
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

January 4, 2024

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

Subject: **Site Assessment and Closure Report**
Gadwall 18 Federal Com #002H
Eddy County, NM

Dear Mr. Bratcher,

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

Site Information

The Gadwall 18 Federal Com #002H is located approximately 17 miles South of Carlsbad, New Mexico. The legal location for this release is Unit Letter C, Section 18, Township 25 South and Range 27 East in Eddy County, New Mexico. More specifically the latitude and longitude for the release are 32.136594 North and -104.230740 West. Site plans are presented in [Appendix I](#).

According to the soil survey provided by the United States Department of Agriculture Natural Resources Conservation Service, the soil in this area is made up of Reagan-Upton association, 0 to 9 percent slopes. The referenced soil data is attached in [Appendix II](#). Drainage courses in this area are typically dry. The project site is located in a high Karst potential area (Karst Map, [Appendix I](#)).

Groundwater and Site Characterization

The New Mexico Office of the State Engineer web site indicates that the nearest reported depth to groundwater is 14-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	14 Feet/BGS
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☐ 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 a site assessment in a high karst area, 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/l TDS	Constituent	Method*	Limit**
≤ 50 feet	Chloride **	EPA 300.0 or SM4500 CIB	600 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	100 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg

Incident Description

On June 25, 2015, it was discovered that a poly flowline coming off the backside of the tank battery had ruptured. This caused the release of 30 barrels (bbls) of produced water to be released onto the well pad as well as into the pasture. A total of 0 bbls of produced water was recovered.

Site Assessment Activities

H&R mobilized personnel to begin site assessment sampling activities of the historical release area. Grab samples were obtained by way of test trenching and hand auguring the release area. Samples collected were transported to Eurofins Laboratory for analysis and the results are presented in the following data table. Site assessment sampling locations are illustrated on Site Assessment Map, [Appendix I](#). Photographic documentation is attached in [Appendix IV](#). Complete laboratory reports can be found in [Appendix V](#).

Table 1: Site Assessment Soil Samples Analysis

Sample ID	Sample Date	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	CI mg/kg
NMOCD Table 1 Closure Criteria 19.15.29 NMAC			50 mg/kg	10 mg/kg	100 mg/kg			100 mg/kg	600 mg/kg
S-1	11/17/2023	0-1'	ND	ND	ND	ND	ND	0	65.5
	11/17/2023	2'	ND	ND	ND	ND	ND	0	54.3
	11/17/2023	3' R	ND	ND	ND	50.1	ND	50.1	55.3
S-2	11/17/2023	0-1'	ND	ND	ND	ND	ND	0	91.7
	11/17/2023	2' R	ND	ND	ND	ND	ND	0	74.5
S-3	11/17/2023	0-1'	ND	ND	ND	56.4	ND	56.4	62.2
	11/17/2023	2'	ND	ND	ND	ND	ND	0	70.9
	11/17/2023	3'R	ND	ND	ND	53	ND	53	69.6
S-4	11/17/2023	0-1'	ND	ND	ND	ND	ND	0	71.2
	11/17/2023	2'	ND	ND	ND	ND	ND	0	77.6
	11/17/2023	3'R	ND	ND	ND	ND	ND	0	73.3
S-5	11/17/2023	0-1'	ND	ND	ND	ND	ND	0	60
	11/17/2023	2'	ND	ND	ND	ND	ND	0	66
S-6	11/17/2023	0-1'	ND	ND	ND	ND	ND	0	66.8
	11/17/2023	2'	ND	ND	ND	ND	ND	0	77.9
	11/17/2023	3' R	ND	ND	ND	ND	ND	0	65
S-7	11/17/2023	0-1'	ND	ND	ND	83.9	ND	83.9	68
	11/17/2023	2'	ND	ND	ND	58.7	ND	58.7	62.6
	11/17/2023	3' R	ND	ND	ND	57	ND	57	67.8
TT-1	11/17/2023	0-1'	ND	ND	ND	50.7	ND	50.7	70.9
	11/17/2023	2'	ND	ND	ND	ND	ND	0	68.6
	11/17/2023	3'	ND	ND	ND	ND	ND	0	67.6
	11/17/2023	4'	ND	ND	ND	ND	ND	0	77
TT-2	11/17/2023	0-1'	ND	ND	ND	ND	ND	0	69.8
	11/17/2023	2'	ND	ND	ND	ND	ND	0	70.4
	11/17/2023	3' R	ND	ND	ND	ND	ND	0	73.8

ND= Analyte Not Detected S= Sample Point TT= Test Trench Sample Point

Based on our sampling results, we believe the site was previously remediated in 2015 and a closure report was not submitted to the NMOCD.

Closure

Based on the site assessment 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, FEMA Flood Zone
Appendix III Initial and Final C-141
Appendix IV Photographic Documentation
Appendix V Laboratory Reports

APPENDIX I

SITE MAPS

KARST MAP

TOPOGRAPHIC MAP

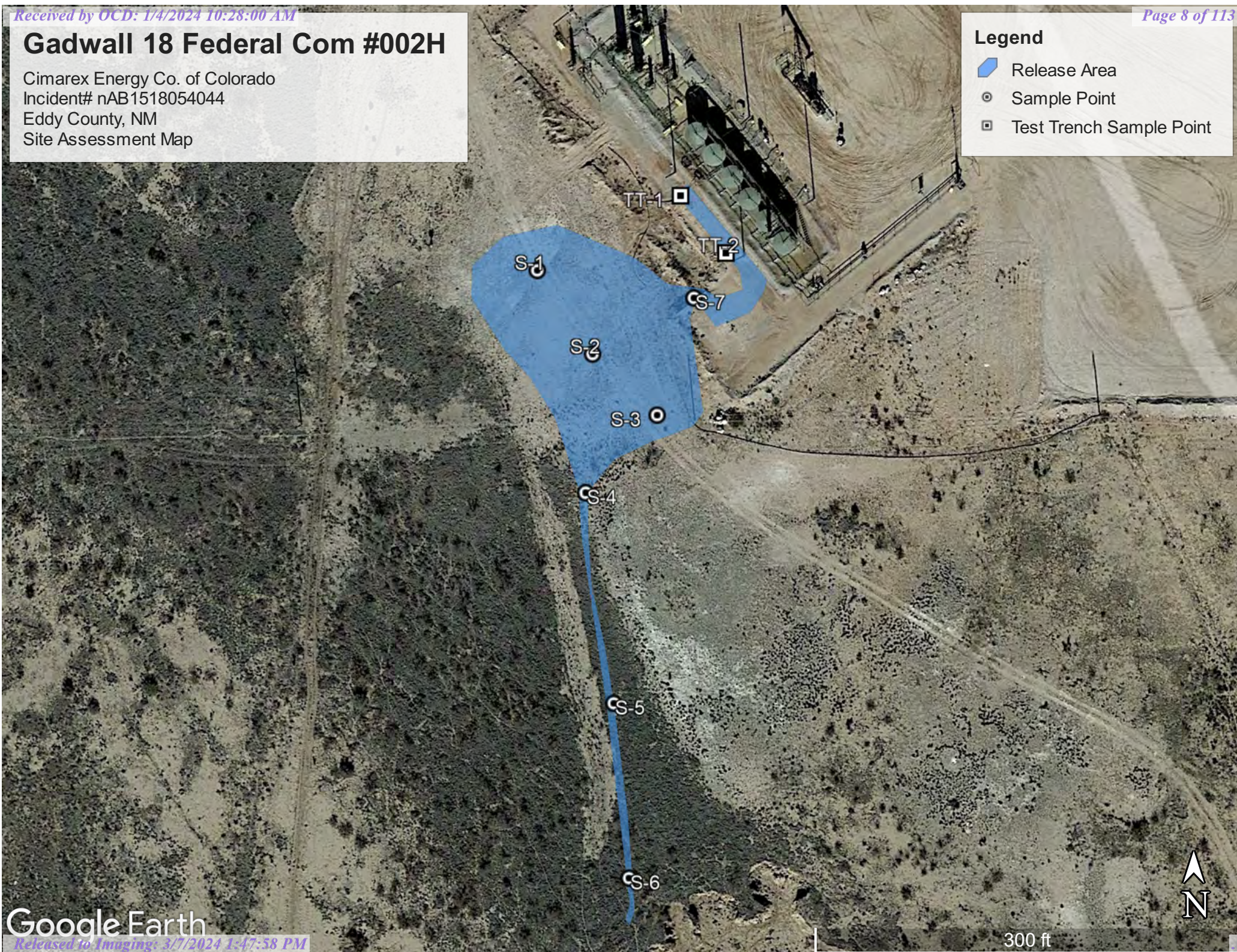
LOCATOR MAP

Gadwall 18 Federal Com #002H

Cimarex Energy Co. of Colorado
Incident# nAB1518054044
Eddy County, NM
Site Assessment Map

Legend

-  Release Area
-  Sample Point
-  Test Trench Sample Point

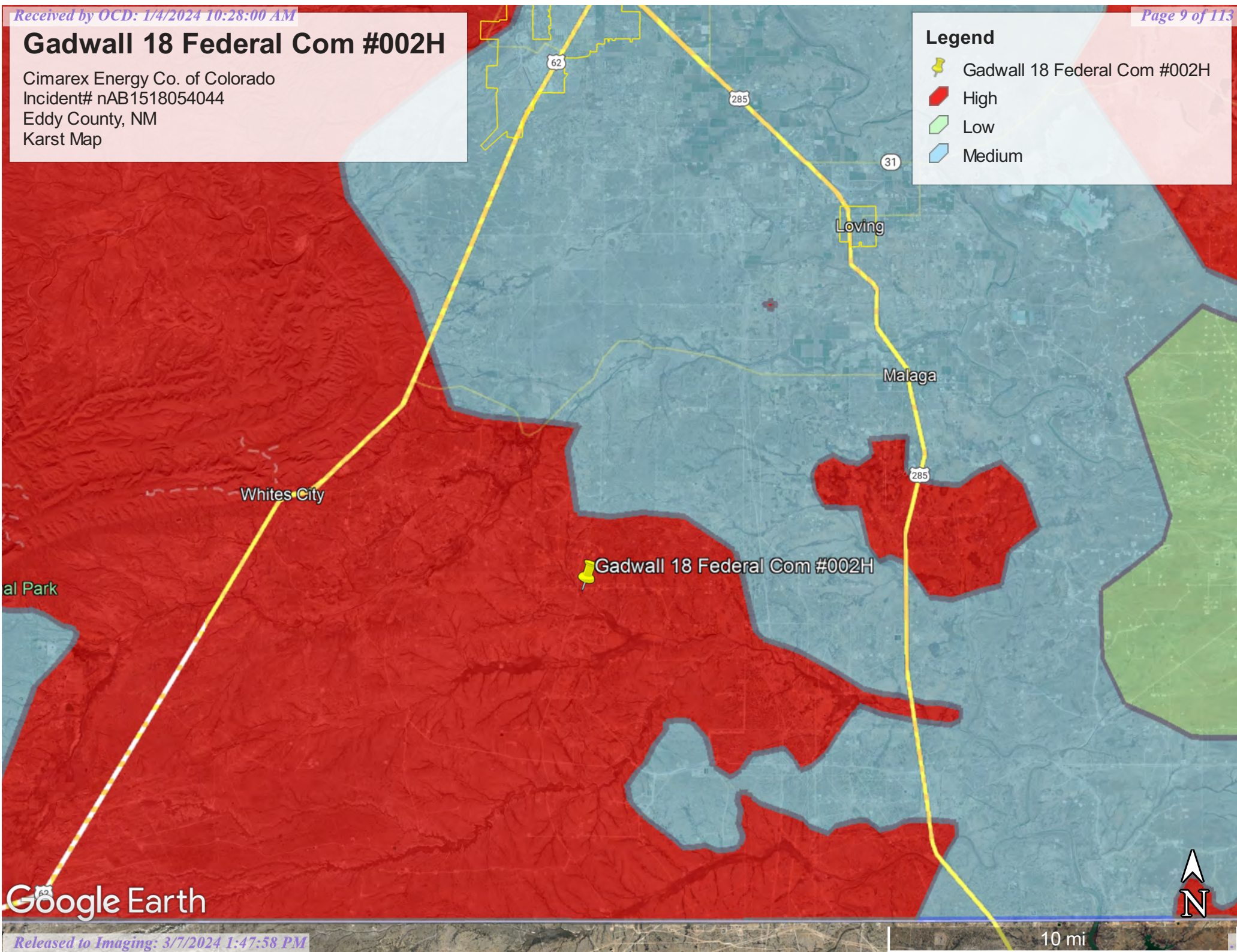


Gadwall 18 Federal Com #002H

Cimarex Energy Co. of Colorado
Incident# nAB1518054044
Eddy County, NM
Karst Map

Legend

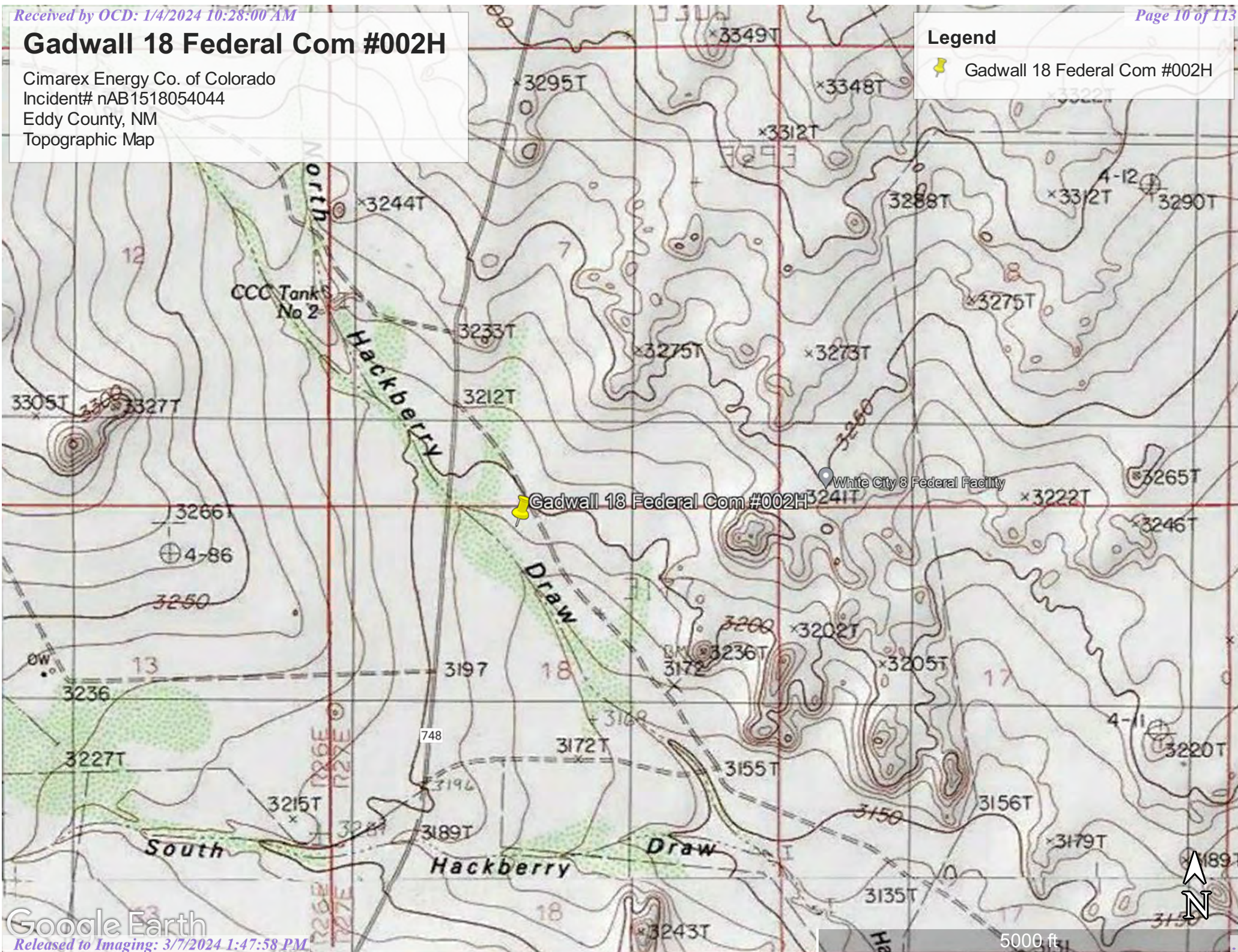
-  Gadwall 18 Federal Com #002H
-  High
-  Low
-  Medium



Google Earth

Cimarex Energy Co. of Colorado
Incident# nAB1518054044
Eddy County, NM
Topographic Map

 Gadwall 18 Federal Com #002H

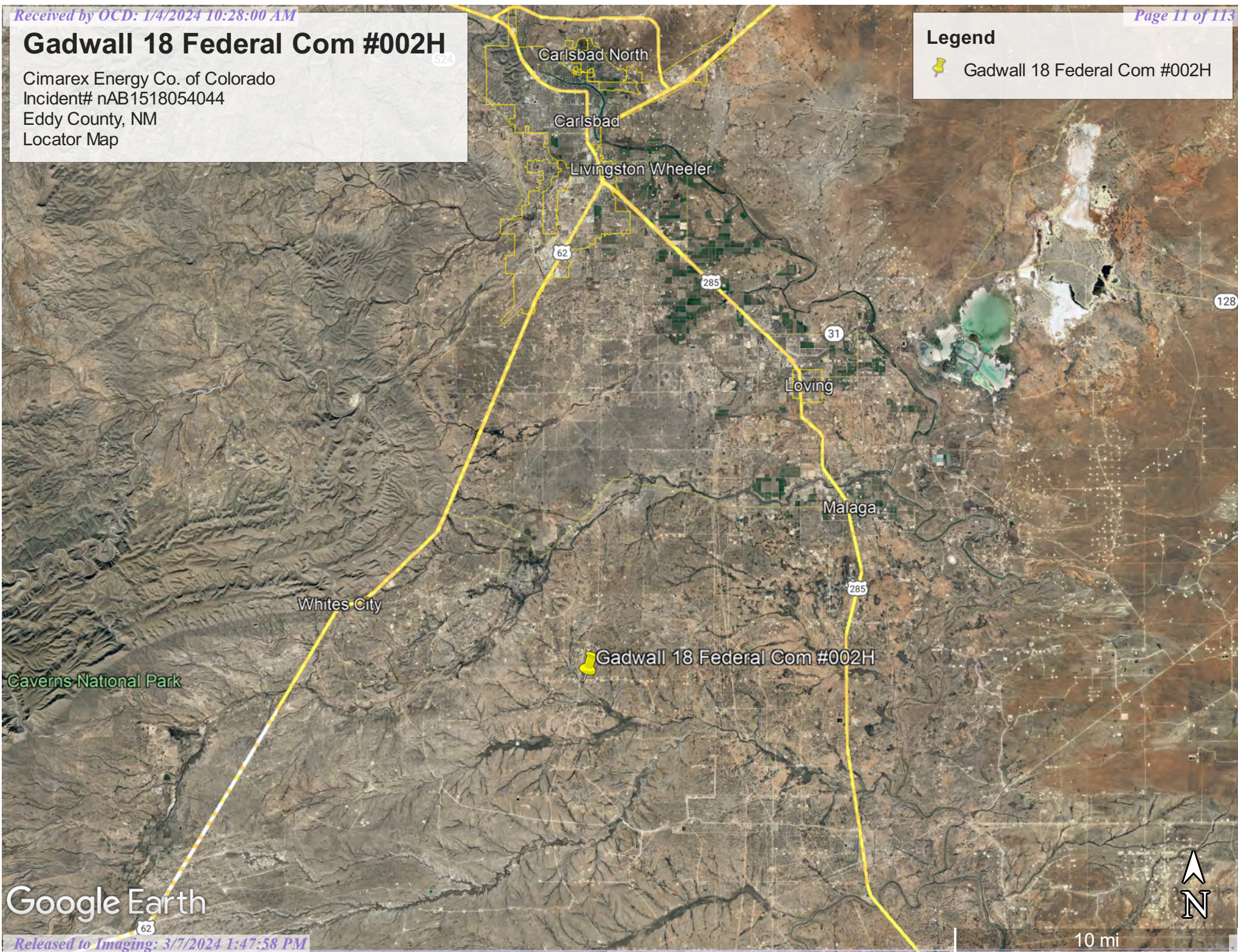


Gadwall 18 Federal Com #002H

Cimarex Energy Co. of Colorado
Incident# nAB1518054044
Eddy County, NM
Locator Map

Legend

 Gadwall 18 Federal Com #002H



Google Earth

APPENDIX II

GROUNDWATER DATA

SOIL SURVEY

FEMA FLOOD ZONE

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

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

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

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
C_03654 POD1		CUB	ED	2	3	1	24	25S	26E	570654	3553773	☐	2605		
C_03261 POD1		CUB	ED	3	2	1	20	25S	27E	574007	3554006*	☐	2608	351	
C_03569 POD1		CUB	ED	2	1	1	14	25S	26E	568862	3555746	☐	3331	30	0 30
C_02221		CUB	ED	4	3	2	25	25S	26E	571412	3551961*	☐	3993	35	
C_02220		CUB	ED	3	1	2	26	25S	26E	569598	3552352*	☐	4375	35	
C_01013		C	ED			4	25	25S	26E	571505	3551456*	☐	4474	245	
C_03655 POD3		CUB	ED	1	4	4	22	25S	26E	568458	3553019	☐	4700		
C_04329 POD1		C	ED	2	2	2	27	25S	26E	568577	3552567	☐	4900	57	14 43

Average Depth to Water: 7 feet

Minimum Depth: 0 feet

Maximum Depth: 14 feet

Record Count: 8

Basin/County Search:

County: Eddy

UTMNAD83 Radius Search (in meters):

Easting (X): 572190.21 Northing (Y): 3555877.56 Radius: 5000

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

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

Eddy Area, New Mexico

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

Map Unit Setting

National map unit symbol: 1w5d

Elevation: 1,100 to 5,400 feet

Mean annual precipitation: 6 to 14 inches

Mean annual air temperature: 60 to 64 degrees F

Frost-free period: 180 to 240 days

Farmland classification: Farmland of statewide importance

Map Unit Composition

Reagan and similar soils: 70 percent

Upton and similar soils: 25 percent

Minor components: 5 percent

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

Description of Reagan

Setting

Landform: Fan remnants, alluvial fans

Landform position (three-dimensional): Rise

Down-slope shape: Convex, linear

Across-slope shape: Linear

Parent material: Alluvium and/or eolian deposits

Typical profile

H1 - 0 to 8 inches: loam

H2 - 8 to 60 inches: loam

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained

Runoff class: Low

Capacity of the most limiting layer to transmit water

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

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum content: 40 percent

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

Sodium adsorption ratio, maximum: 1.0

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

Interpretive groups

Land capability classification (irrigated): 2e

Land capability classification (nonirrigated): 6e

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

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

Description of Upton

Setting

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

Typical profile

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

Properties and qualities

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

Interpretive groups

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

Minor Components

Atoka

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

Pima

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

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

Hydric soil rating: No

Data Source Information

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

National Flood Hazard Layer FIRMMette



104°14'8"W 32°8'28"N



0 250 500 1,000 1,500 2,000 Feet 1:6,000

Released to Imaging: 3/7/2024 1:47:58 PM

Basemap Imagery Source: USGS National Map 2023

Legend

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

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone D
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
		Area of Undetermined Flood Hazard Zone D
GENERAL STRUCTURES		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped



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

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 12/11/2023 at 11:50 AM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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

APPENDIX III

INITIAL C-141

FINAL C-141

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

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 8, 2011

Submit 1 Copy to appropriate District Office in
accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

NAB1518054044 **102683** **OPERATOR** ☒ Initial Report ☐ Final Report

Name of Company Cimarex Energy	Contact Christine Alderman
Address 600 N Marienfeld Ste 600 Midland TX	Telephone No. 432-853-7059
Facility Name Gadwall 18 Fed Com 2H	Facility Type production

Surface Owner Federal	Mineral Owner	API No. 30-015-39141
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LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
C	18	25S	27E	150	N	2310	W	Eddy

Latitude 32.13681 Longitude -104.23044

NATURE OF RELEASE

Type of Release produced water	Volume of Release 30 bbls	Volume Recovered 0
Source of Release poly flowline	Date and Hour of Occurrence 06/25/2015	Date and Hour of Discovery 06/25/2015 5:00pm
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Mike Bratcher/Randy Pair	
By Whom? Christine Alderman	Date and Hour 6/26/2015 11:00am	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

NM OIL CONSERVATION

ARTESIA DISTRICT

JUN 26 2015

Describe Cause of Problem and Remedial Action Taken.*

Poly flowline ruptured

RECEIVED

Describe Area Affected and Cleanup Action Taken.*

Release happened on back side of location pad an area approximately 60 yds X 15 yds, and ran 100 yds down cowpath. Diversified will assess and develop workplan.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.

Signature: <i>Christine Alderman</i>	OIL CONSERVATION DIVISION	
Printed Name: Christine Alderman	Approved by Environmental Specialist: <i>[Signature]</i>	
Title: ESH Supervisor	Approval Date: 6/29/15	Expiration Date: N/A
E-mail Address: calderman@cimarex.com	Conditions of Approval:	
Date: 6/26/2015 Phone: 432-853-7059	Remediation per O.C.D. Rules & Guidelines ☐ SUBMIT REMEDIATION PROPOSAL NO LATER THAN: 7/30/15	

* Attach Additional Sheets If Necessary

2RP-3076

***** LIQUID SPILLS - VOLUME CALCULATIONS *****

Location of spill: GADWALL 18 FEDERAL COM #002H Date of Spill: 6/25/2015

If the leak/spill is associated with production equipment, i.e. - wellhead, stuffing box,
flowline, tank battery, production vessel, transfer pump, or storage tank place an "X" here: ☐

Input Data:

If spill volumes from measurement, i.e. metering, tank volumes, etc. are known enter the volumes here: OIL: 0.0000 BBL WATER: 0.0000 BBL

If "known" spill volumes are given, input data for the following "Area Calculations" is optional. The above will override the calculated volumes.

Total Area Calculations						Standing Liquid Calculations								
Total Surface Area		width	length	wet soil depth	oil (%)	Standing Liquid Area		width	length	liquid depth	oil (%)			
	Rectangle Area #1	180 ft	X	45 ft	X	2 in	0%	Rectangle Area #1	0 ft	X	0 ft	X	0 in	0%
	Rectangle Area #2	300 ft	X	4 ft	X	2 in	0%	Rectangle Area #2	0 ft	X	0 ft	X	0 in	0%
	Rectangle Area #3	0 ft	X	0 ft	X	0 in	0%	Rectangle Area #3	0 ft	X	0 ft	X	0 in	0%
	Rectangle Area #4	0 ft	X	0 ft	X	0 in	0%	Rectangle Area #4	0 ft	X	0 ft	X	0 in	0%
	Rectangle Area #5	0 ft	X	0 ft	X	0 in	0%	Rectangle Area #5	0 ft	X	0 ft	X	0 in	0%
	Rectangle Area #6	0 ft	X	0 ft	X	0 in	0%	Rectangle Area #6	0 ft	X	0 ft	X	0 in	0%
	Rectangle Area #7	0 ft	X	0 ft	X	0 in	0%	Rectangle Area #7	0 ft	X	0 ft	X	0 in	0%
	Rectangle Area #8	0 ft	X	0 ft	X	0 in	0%	Rectangle Area #8	0 ft	X	0 ft	X	0 in	0%

Saturated Soil Volume Calculations:				Free Liquid Volume Calculations:			
Total Solid/Liquid Volume:	9,300 sq. ft.	H2O 1,188 cu. ft.	OIL cu. ft.	Total Free Liquid Volume:	sq. ft.	H2O .000 cu. ft.	OIL .000 cu. ft.
Estimated Volumes Spilled				Estimated Production Volumes Lost			
Liquid in Soil:	29.6 BBL	H2O	OIL	Estimated Production Spilled:	0.000000 BBL	H2O	OIL
Free Liquid:	0.0 BBL	0.0 BBL	0.0 BBL				
Totals:	29.608 BBL	0.000 BBL	0.000 BBL	Estimated Surface Damage			
Total Liquid Spill Liquid:	29.608 BBL	0.000 BBL	0.000 BBL	Surface Area:	9,300 sq. ft.		
				Surface Area:	.2135 acre		
Recovered Volumes				Estimated Weights, and Volumes			
Estimated oil recovered:	0.0 BBL	check - okay		Saturated Soil =	133,000 lbs	1,188 cu.ft.	44 cu.yds.
Estimated water recovered:	0.0 BBL	check - okay		Total Liquid =	30 BBL	1,243.55 gallon	10,346 lbs

Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	_____ (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 ½-mile of the lateral extents of the release
- ☐ Boring or excavation logs
- ☐ Photographs including date and GIS information
- ☐ Topographic/Aerial maps
- ☐ Laboratory data including chain of custody

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

State of New Mexico
Oil Conservation Division

Page 4

Incident ID	
District RP	
Facility ID	
Application ID	

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

Printed Name: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

Incident ID	
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: _____

email: _____ Telephone: _____

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: Hall, Brittany, EMNRD <Brittany.Hall@emnrd.nm.gov>
Sent: Friday, December 22, 2023 3:32 PM
To: Ashton Thielke
Cc: Laci Luig
Subject: RE: [EXTERNAL] nAB1518054044 - GADWALL 18 FEDERAL COM #002H - Variance Request (19.15.29.12.D.1.A-C)

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.

Ashton,

The variance request for nAB1518054044 - GADWALL 18 FEDERAL COM #002H is approved.

Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thank you,

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

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 EMNRD Website prior to submitting any C-141s. The guidance documents can be found at <https://www.emnrd.nm.gov/ocd/ocd-announcements-and-notifications/> or <https://www.emnrd.nm.gov/ocd/ocd-forms/>.

From: Ashton Thielke <Ashton.Thielke@coterra.com>
Sent: Thursday, December 21, 2023 9:07 AM
To: Hall, Brittany, EMNRD <Brittany.Hall@emnrd.nm.gov>
Cc: Laci Luig <Laci.Luig@coterra.com>
Subject: [EXTERNAL] nAB1518054044 - GADWALL 18 FEDERAL COM #002H - Variance Request (19.15.29.12.D.1.A-C)

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

Good morning Brittany,

Cimarex Energy Co. of Colorado is requesting a variance to NMAC 19.15.29.12.D.1.A-C for the above mentioned spill incident.

A desktop review was conducted to look for evidence of any remediation activities, but due to the age of this spill, no evidence was found internally. (invoices, photographs, facility notes, personal email files)

An environmental consultant was recently tasked with vertically and horizontally delineating the historical spill area to see if any impact may remain onsite from possible historical remediation efforts. The result of the site assessment was that all soil samples collected have concentrations below remediation and reclamation standards found on Table I of 19.15.29.12 NMAC. Details of the site assessment and findings will be found in the closure report.

Due to the age of the spill and possibility of this remediation taking place before the implementation of the new spill rule defined in 19.15.29.1-16, a variance is requested to NMAC 19.15.29.12.D.1.A-C.

- A. No 2 business day notification for final sampling - due to current rule implementation occurring after possible site remediation
- B. No composite or grab sample plan submitted – due to current rule implementation occurring after possible site remediation
- C. No 200 square foot composite sampling - due to current rule implementation occurring after possible site remediation

The variance is requested due to remediation taking place before the current rule was implemented and due to the condition of the site currently, contoured to natural grade with evidence of vegetation throughout the entire area.

This email and correspondence will be attached in the final closure report, which will be submitted following your response.

Please feel free to give me a call if you have any questions.

Thanks,



Ashton Thielke | PBU - Environmental Consultant

T: 432.813.8988 | M: 281.753.5659 | Ashton.Thielke@coterra.com | www.coterra.com

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

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

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APPENDIX IV

PHOTOGRAPHIC DOCUMENTATION

PHOTOGRAPHIC DOCUMENTATION

SAMPLE POINT PHOTOGRAPHS

TT-1



TT-2

PHOTOGRAPHIC DOCUMENTATION



S-1



S-2

PHOTOGRAPHIC DOCUMENTATION



S-3



S-4

PHOTOGRAPHIC DOCUMENTATION



S-5



S-6

PHOTOGRAPHIC DOCUMENTATION



S-7

HISTORICAL SPILL PATH



PHOTOGRAPHIC DOCUMENTATION



PHOTOGRAPHIC DOCUMENTATION

HISTORICAL SPILL PATH AERIAL PHOTOGRAPHS



APPENDIX V

LABORATORY REPORTS



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 11/29/2023 11:28:48 AM

JOB DESCRIPTION

GADWALL 18 FED COM #002H
Eddy County NM

JOB NUMBER

890-5662-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220



Eurofins Carlsbad

Job Notes

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

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

Authorization



Generated
11/29/2023 11:28:48 AM

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

Client: H & R Enterprises
Project/Site: GADWALL 18 FED COM #002H

Laboratory Job ID: 890-5662-1
SDG: Eddy County NM

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Definitions/Glossary

Client: H & R Enterprises
Project/Site: GADWALL 18 FED COM #002H

Job ID: 890-5662-1
SDG: Eddy County NM

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
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
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: H & R Enterprises
Project/Site: GADWALL 18 FED COM #002H

Job ID: 890-5662-1
SDG: Eddy County NM

Job ID: 890-5662-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-5662-1

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 11/17/2023 1:35 PM. 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 1.0°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: S - 1 0-1' (890-5662-1), S - 1 2' (890-5662-2), S - 1 3'R (890-5662-3), S - 2 0-1' (890-5662-4), S - 2 2'R (890-5662-5), S - 3 0-1' (890-5662-6), S - 3 2' (890-5662-7), S - 3 3'R (890-5662-8), S - 4 0-1' (890-5662-9), S - 4 2' (890-5662-10), S - 4 3'R (890-5662-11), S - 5 0-1' (890-5662-12), S - 5 2' (890-5662-13), S - 6 0-1' (890-5662-14), S - 6 2' (890-5662-15), S - 6 3'R (890-5662-16), S - 7 0-1' (890-5662-17), S - 7 2' (890-5662-18), S - 7 3'R (890-5662-19), TT - 1 0-1' (890-5662-20), TT - 1 2' (890-5662-21), TT - 1 3' (890-5662-22), TT - 1 4' (890-5662-23), TT - 2 0-1' (890-5662-24), TT - 2 2' (890-5662-25) and TT - 2 3'R (890-5662-26).

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: S - 1 3'R (890-5662-3), S - 3 0-1' (890-5662-6), S - 6 2' (890-5662-15), S - 7 2' (890-5662-18) and S - 7 3'R (890-5662-19). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-67739 and analytical batch 880-67691 was outside the upper control limits.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-67586 and analytical batch 880-67691 was outside the upper control limits.

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 samples were outside control limits: (CCV 880-67684/20), (CCV 880-67684/31) and (CCV 880-67684/5). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-67795 and analytical batch 880-67801 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: TT - 1 2' (890-5662-21), TT - 1 3' (890-5662-22), TT - 1 4' (890-5662-23), TT - 2 0-1' (890-5662-24), TT - 2 2' (890-5662-25), TT - 2 3'R (890-5662-26), (890-5662-A-21-D MS) and (890-5662-A-21-E MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The matrix spike duplicate (MSD) recoveries for preparation batch 880-67795 and analytical batch 880-67801 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within

Case Narrative

Client: H & R Enterprises
Project/Site: GADWALL 18 FED COM #002H

Job ID: 890-5662-1
SDG: Eddy County NM

Job ID: 890-5662-1 (Continued)

Laboratory: Eurofins Carlsbad (Continued)

acceptance limits.

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.

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Client Sample Results

Client: H & R Enterprises
Project/Site: GADWALL 18 FED COM #002H

Job ID: 890-5662-1
SDG: Eddy County NM

Client Sample ID: S - 1 0-1'

Lab Sample ID: 890-5662-1

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

Sample Depth: 0-1'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/22/23 14:02	11/23/23 13:14	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/22/23 14:02	11/23/23 13:14	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/22/23 14:02	11/23/23 13:14	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/22/23 14:02	11/23/23 13:14	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/22/23 14:02	11/23/23 13:14	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/22/23 14:02	11/23/23 13:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		70 - 130	11/22/23 14:02	11/23/23 13:14	1
1,4-Difluorobenzene (Surr)	87		70 - 130	11/22/23 14:02	11/23/23 13:14	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			11/23/23 13:14	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			11/27/23 10:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		11/27/23 09:35	11/27/23 10:51	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		11/27/23 09:35	11/27/23 10:51	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		11/27/23 09:35	11/27/23 10:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130	11/27/23 09:35	11/27/23 10:51	1
o-Terphenyl	101		70 - 130	11/27/23 09:35	11/27/23 10:51	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	65.5		5.03		mg/Kg			11/22/23 18:37	1

Client Sample ID: S - 1 2'

Lab Sample ID: 890-5662-2

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

Sample Depth: 2'

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		11/22/23 14:02	11/23/23 13:34	1
Toluene	<0.00202	U	0.00202		mg/Kg		11/22/23 14:02	11/23/23 13:34	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		11/22/23 14:02	11/23/23 13:34	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		11/22/23 14:02	11/23/23 13:34	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		11/22/23 14:02	11/23/23 13:34	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		11/22/23 14:02	11/23/23 13:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		70 - 130	11/22/23 14:02	11/23/23 13:34	1

Eurofins Carlsbad

Client Sample Results

Client: H & R Enterprises
Project/Site: GADWALL 18 FED COM #002H

Job ID: 890-5662-1
SDG: Eddy County NM

Client Sample ID: S - 1 2'

Lab Sample ID: 890-5662-2

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

Sample Depth: 2'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	82		70 - 130	11/22/23 14:02	11/23/23 13:34	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			11/23/23 13:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			11/27/23 11:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6		mg/Kg		11/27/23 09:35	11/27/23 11:56	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		11/27/23 09:35	11/27/23 11:56	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		11/27/23 09:35	11/27/23 11:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130				11/27/23 09:35	11/27/23 11:56	1
o-Terphenyl	107		70 - 130				11/27/23 09:35	11/27/23 11:56	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	54.3		5.03		mg/Kg			11/22/23 18:56	1

Client Sample ID: S - 1 3'R

Lab Sample ID: 890-5662-3

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

Sample Depth: 3'R

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		11/22/23 14:02	11/23/23 13:55	1
Toluene	<0.00202	U	0.00202		mg/Kg		11/22/23 14:02	11/23/23 13:55	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		11/22/23 14:02	11/23/23 13:55	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		11/22/23 14:02	11/23/23 13:55	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		11/22/23 14:02	11/23/23 13:55	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		11/22/23 14:02	11/23/23 13:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	11/22/23 14:02	11/23/23 13:55	1
1,4-Difluorobenzene (Surr)	56	S1-	70 - 130	11/22/23 14:02	11/23/23 13:55	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			11/23/23 13:55	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		49.8		mg/Kg			11/27/23 12:18	1

Eurofins Carlsbad

Client Sample Results

Client: H & R Enterprises
Project/Site: GADWALL 18 FED COM #002H

Job ID: 890-5662-1
SDG: Eddy County NM

Client Sample ID: S - 1 3'R

Lab Sample ID: 890-5662-3

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

Sample Depth: 3'R

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		11/27/23 09:35	11/27/23 12:18	1
Diesel Range Organics (Over C10-C28)	50.1		49.8		mg/Kg		11/27/23 09:35	11/27/23 12:18	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		11/27/23 09:35	11/27/23 12:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130				11/27/23 09:35	11/27/23 12:18	1
o-Terphenyl	102		70 - 130				11/27/23 09:35	11/27/23 12:18	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	55.3		5.02		mg/Kg			11/22/23 19:03	1

Client Sample ID: S - 2 0-1'

Lab Sample ID: 890-5662-4

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

Sample Depth: 0-1'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		11/22/23 14:02	11/23/23 14:15	1
Toluene	<0.00201	U	0.00201		mg/Kg		11/22/23 14:02	11/23/23 14:15	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/22/23 14:02	11/23/23 14:15	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		11/22/23 14:02	11/23/23 14:15	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		11/22/23 14:02	11/23/23 14:15	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		11/22/23 14:02	11/23/23 14:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130				11/22/23 14:02	11/23/23 14:15	1
1,4-Difluorobenzene (Surr)	72		70 - 130				11/22/23 14:02	11/23/23 14:15	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			11/23/23 14:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/27/23 12:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		11/27/23 09:35	11/27/23 12:40	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/27/23 09:35	11/27/23 12:40	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/27/23 09:35	11/27/23 12:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130				11/27/23 09:35	11/27/23 12:40	1
o-Terphenyl	104		70 - 130				11/27/23 09:35	11/27/23 12:40	1

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Client Sample Results

Client: H & R Enterprises
Project/Site: GADWALL 18 FED COM #002H

Job ID: 890-5662-1
SDG: Eddy County NM

Client Sample ID: S - 2 0-1'

Lab Sample ID: 890-5662-4

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

Sample Depth: 0-1'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	91.7		4.96		mg/Kg			11/22/23 07:38	1

Client Sample ID: S - 2 2'R

Lab Sample ID: 890-5662-5

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

Sample Depth: 2'R

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/22/23 14:02	11/23/23 14:36	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/22/23 14:02	11/23/23 14:36	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/22/23 14:02	11/23/23 14:36	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/22/23 14:02	11/23/23 14:36	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/22/23 14:02	11/23/23 14:36	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/22/23 14:02	11/23/23 14:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 130				11/22/23 14:02	11/23/23 14:36	1
1,4-Difluorobenzene (Surr)	78		70 - 130				11/22/23 14:02	11/23/23 14:36	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/23/23 14:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4		mg/Kg			11/27/23 13:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4		mg/Kg		11/27/23 09:35	11/27/23 13:02	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4		mg/Kg		11/27/23 09:35	11/27/23 13:02	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		11/27/23 09:35	11/27/23 13:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130				11/27/23 09:35	11/27/23 13:02	1
o-Terphenyl	101		70 - 130				11/27/23 09:35	11/27/23 13:02	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	74.5		5.03		mg/Kg			11/22/23 07:57	1

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Client Sample Results

Client: H & R Enterprises
Project/Site: GADWALL 18 FED COM #002H

Job ID: 890-5662-1
SDG: Eddy County NM

Client Sample ID: S - 3 0-1'

Lab Sample ID: 890-5662-6

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

Sample Depth: 0-1'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		11/22/23 14:02	11/23/23 14:56	1
Toluene	<0.00198	U	0.00198		mg/Kg		11/22/23 14:02	11/23/23 14:56	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		11/22/23 14:02	11/23/23 14:56	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		11/22/23 14:02	11/23/23 14:56	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		11/22/23 14:02	11/23/23 14:56	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		11/22/23 14:02	11/23/23 14:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	11/22/23 14:02	11/23/23 14:56	1
1,4-Difluorobenzene (Surr)	54	S1-	70 - 130	11/22/23 14:02	11/23/23 14:56	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			11/23/23 14:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	56.4		50.2		mg/Kg			11/27/23 13:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	50.2		mg/Kg		11/27/23 09:35	11/27/23 13:24	1
Diesel Range Organics (Over C10-C28)	56.4		50.2		mg/Kg		11/27/23 09:35	11/27/23 13:24	1
Oil Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		11/27/23 09:35	11/27/23 13:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130	11/27/23 09:35	11/27/23 13:24	1
o-Terphenyl	110		70 - 130	11/27/23 09:35	11/27/23 13:24	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	62.2		4.99		mg/Kg			11/22/23 08:04	1

Client Sample ID: S - 3 2'

Lab Sample ID: 890-5662-7

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

Sample Depth: 2'

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		11/22/23 14:02	11/23/23 15:17	1
Toluene	<0.00202	U	0.00202		mg/Kg		11/22/23 14:02	11/23/23 15:17	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		11/22/23 14:02	11/23/23 15:17	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		11/22/23 14:02	11/23/23 15:17	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		11/22/23 14:02	11/23/23 15:17	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		11/22/23 14:02	11/23/23 15:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 130	11/22/23 14:02	11/23/23 15:17	1

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Client Sample Results

Client: H & R Enterprises
Project/Site: GADWALL 18 FED COM #002H

Job ID: 890-5662-1
SDG: Eddy County NM

Client Sample ID: S - 3 2'

Lab Sample ID: 890-5662-7

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

Sample Depth: 2'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	80		70 - 130	11/22/23 14:02	11/23/23 15:17	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			11/23/23 15:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.2	U	50.2		mg/Kg			11/27/23 13:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	50.2		mg/Kg		11/27/23 09:35	11/27/23 13:46	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2		mg/Kg		11/27/23 09:35	11/27/23 13:46	1
Oil Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		11/27/23 09:35	11/27/23 13:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130				11/27/23 09:35	11/27/23 13:46	1
o-Terphenyl	99		70 - 130				11/27/23 09:35	11/27/23 13:46	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	70.9		5.03		mg/Kg			11/22/23 08:11	1

Client Sample ID: S - 3 3'R

Lab Sample ID: 890-5662-8

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

Sample Depth: 3'R

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		11/22/23 14:02	11/23/23 15:37	1
Toluene	<0.00201	U	0.00201		mg/Kg		11/22/23 14:02	11/23/23 15:37	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/22/23 14:02	11/23/23 15:37	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		11/22/23 14:02	11/23/23 15:37	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		11/22/23 14:02	11/23/23 15:37	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		11/22/23 14:02	11/23/23 15:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	11/22/23 14:02	11/23/23 15:37	1
1,4-Difluorobenzene (Surr)	78		70 - 130	11/22/23 14:02	11/23/23 15:37	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			11/23/23 15:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	53.0		49.7		mg/Kg			11/27/23 14:08	1

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Client Sample Results

Client: H & R Enterprises
Project/Site: GADWALL 18 FED COM #002H

Job ID: 890-5662-1
SDG: Eddy County NM

Client Sample ID: S - 3 3'R

Lab Sample ID: 890-5662-8

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

Sample Depth: 3'R

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		11/27/23 09:35	11/27/23 14:08	1
Diesel Range Organics (Over C10-C28)	53.0		49.7		mg/Kg		11/27/23 09:35	11/27/23 14:08	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		11/27/23 09:35	11/27/23 14:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130				11/27/23 09:35	11/27/23 14:08	1
o-Terphenyl	111		70 - 130				11/27/23 09:35	11/27/23 14:08	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	69.6		4.99		mg/Kg			11/22/23 08:17	1

Client Sample ID: S - 4 0-1'

Lab Sample ID: 890-5662-9

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

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		11/22/23 14:02	11/23/23 15:58	1
Toluene	<0.00202	U	0.00202		mg/Kg		11/22/23 14:02	11/23/23 15:58	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		11/22/23 14:02	11/23/23 15:58	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		11/22/23 14:02	11/23/23 15:58	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		11/22/23 14:02	11/23/23 15:58	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		11/22/23 14:02	11/23/23 15:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130				11/22/23 14:02	11/23/23 15:58	1
1,4-Difluorobenzene (Surr)	83		70 - 130				11/22/23 14:02	11/23/23 15:58	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			11/23/23 15:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			11/27/23 14:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6		mg/Kg		11/27/23 09:35	11/27/23 14:30	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		11/27/23 09:35	11/27/23 14:30	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		11/27/23 09:35	11/27/23 14:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130				11/27/23 09:35	11/27/23 14:30	1
o-Terphenyl	102		70 - 130				11/27/23 09:35	11/27/23 14:30	1

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Client Sample Results

Client: H & R Enterprises
Project/Site: GADWALL 18 FED COM #002H

Job ID: 890-5662-1
SDG: Eddy County NM

Client Sample ID: S - 4 0-1'

Lab Sample ID: 890-5662-9

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

Sample Depth: 0-1'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	71.2		5.01		mg/Kg			11/22/23 08:37	1

Client Sample ID: S - 4 2'

Lab Sample ID: 890-5662-10

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

Sample Depth: 2'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		11/22/23 14:02	11/23/23 16:18	1
Toluene	<0.00198	U	0.00198		mg/Kg		11/22/23 14:02	11/23/23 16:18	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		11/22/23 14:02	11/23/23 16:18	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		11/22/23 14:02	11/23/23 16:18	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		11/22/23 14:02	11/23/23 16:18	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		11/22/23 14:02	11/23/23 16:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	79		70 - 130				11/22/23 14:02	11/23/23 16:18	1
1,4-Difluorobenzene (Surr)	82		70 - 130				11/22/23 14:02	11/23/23 16:18	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			11/23/23 16:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			11/27/23 14:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		11/27/23 09:35	11/27/23 14:52	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		11/27/23 09:35	11/27/23 14:52	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		11/27/23 09:35	11/27/23 14:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130				11/27/23 09:35	11/27/23 14:52	1
o-Terphenyl	105		70 - 130				11/27/23 09:35	11/27/23 14:52	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	77.6		5.00		mg/Kg			11/22/23 08:43	1

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Client Sample Results

Client: H & R Enterprises
Project/Site: GADWALL 18 FED COM #002H

Job ID: 890-5662-1
SDG: Eddy County NM

Client Sample ID: S - 4 3'R

Lab Sample ID: 890-5662-11

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

Sample Depth: 3'R

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/22/23 14:02	11/23/23 17:41	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/22/23 14:02	11/23/23 17:41	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/22/23 14:02	11/23/23 17:41	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/22/23 14:02	11/23/23 17:41	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/22/23 14:02	11/23/23 17:41	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/22/23 14:02	11/23/23 17:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130	11/22/23 14:02	11/23/23 17:41	1
1,4-Difluorobenzene (Surr)	73		70 - 130	11/22/23 14:02	11/23/23 17:41	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/23/23 17:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			11/27/23 15:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6		mg/Kg		11/27/23 09:35	11/27/23 15:35	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		11/27/23 09:35	11/27/23 15:35	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		11/27/23 09:35	11/27/23 15:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130	11/27/23 09:35	11/27/23 15:35	1
o-Terphenyl	97		70 - 130	11/27/23 09:35	11/27/23 15:35	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	73.3		5.04		mg/Kg			11/22/23 08:50	1

Client Sample ID: S - 5 0-1'

Lab Sample ID: 890-5662-12

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

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		11/22/23 14:02	11/23/23 18:01	1
Toluene	<0.00202	U	0.00202		mg/Kg		11/22/23 14:02	11/23/23 18:01	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		11/22/23 14:02	11/23/23 18:01	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		11/22/23 14:02	11/23/23 18:01	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		11/22/23 14:02	11/23/23 18:01	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		11/22/23 14:02	11/23/23 18:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		70 - 130	11/22/23 14:02	11/23/23 18:01	1

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Client Sample Results

Client: H & R Enterprises
Project/Site: GADWALL 18 FED COM #002H

Job ID: 890-5662-1
SDG: Eddy County NM

Client Sample ID: S - 5 0-1'

Lab Sample ID: 890-5662-12

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

Sample Depth: 0-1'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	85		70 - 130	11/22/23 14:02	11/23/23 18:01	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			11/23/23 18:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			11/27/23 15:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/27/23 09:35	11/27/23 15:58	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/27/23 09:35	11/27/23 15:58	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/27/23 09:35	11/27/23 15:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130				11/27/23 09:35	11/27/23 15:58	1
o-Terphenyl	99		70 - 130				11/27/23 09:35	11/27/23 15:58	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	60.0		4.96		mg/Kg			11/22/23 08:57	1

Client Sample ID: S - 5 2'

Lab Sample ID: 890-5662-13

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

Sample Depth: 2'R

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		11/22/23 14:02	11/23/23 18:22	1
Toluene	<0.00202	U	0.00202		mg/Kg		11/22/23 14:02	11/23/23 18:22	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		11/22/23 14:02	11/23/23 18:22	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		11/22/23 14:02	11/23/23 18:22	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		11/22/23 14:02	11/23/23 18:22	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		11/22/23 14:02	11/23/23 18:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130	11/22/23 14:02	11/23/23 18:22	1
1,4-Difluorobenzene (Surr)	82		70 - 130	11/22/23 14:02	11/23/23 18:22	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			11/23/23 18:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.2	U	50.2		mg/Kg			11/27/23 16:19	1

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Client Sample Results

Client: H & R Enterprises
Project/Site: GADWALL 18 FED COM #002H

Job ID: 890-5662-1
SDG: Eddy County NM

Client Sample ID: S - 5 2'

Lab Sample ID: 890-5662-13

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

Sample Depth: 2'R

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	50.2		mg/Kg		11/27/23 09:35	11/27/23 16:19	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2		mg/Kg		11/27/23 09:35	11/27/23 16:19	1
Oil Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		11/27/23 09:35	11/27/23 16:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130				11/27/23 09:35	11/27/23 16:19	1
o-Terphenyl	103		70 - 130				11/27/23 09:35	11/27/23 16:19	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	66.0		5.03		mg/Kg			11/22/23 09:03	1

Client Sample ID: S - 6 0-1'

Lab Sample ID: 890-5662-14

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

Sample Depth: 0-1'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/22/23 14:02	11/23/23 18:42	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/22/23 14:02	11/23/23 18:42	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/22/23 14:02	11/23/23 18:42	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/22/23 14:02	11/23/23 18:42	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/22/23 14:02	11/23/23 18:42	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/22/23 14:02	11/23/23 18:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130				11/22/23 14:02	11/23/23 18:42	1
1,4-Difluorobenzene (Surr)	83		70 - 130				11/22/23 14:02	11/23/23 18:42	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/23/23 18:42	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			11/27/23 16:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		11/27/23 09:35	11/27/23 16:42	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		11/27/23 09:35	11/27/23 16:42	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		11/27/23 09:35	11/27/23 16:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130				11/27/23 09:35	11/27/23 16:42	1
o-Terphenyl	103		70 - 130				11/27/23 09:35	11/27/23 16:42	1

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Client Sample Results

Client: H & R Enterprises
Project/Site: GADWALL 18 FED COM #002H

Job ID: 890-5662-1
SDG: Eddy County NM

Client Sample ID: S - 6 0-1'

Lab Sample ID: 890-5662-14

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

Sample Depth: 0-1'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	66.8		4.97		mg/Kg			11/22/23 09:10	1

Client Sample ID: S - 6 2'

Lab Sample ID: 890-5662-15

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

Sample Depth: 2'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		11/22/23 14:02	11/23/23 19:03	1
Toluene	<0.00198	U	0.00198		mg/Kg		11/22/23 14:02	11/23/23 19:03	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		11/22/23 14:02	11/23/23 19:03	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		11/22/23 14:02	11/23/23 19:03	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		11/22/23 14:02	11/23/23 19:03	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		11/22/23 14:02	11/23/23 19:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130				11/22/23 14:02	11/23/23 19:03	1
1,4-Difluorobenzene (Surr)	57	S1-	70 - 130				11/22/23 14:02	11/23/23 19:03	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			11/23/23 19:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5		mg/Kg			11/27/23 17:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5		mg/Kg		11/27/23 09:35	11/27/23 17:04	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		11/27/23 09:35	11/27/23 17:04	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		11/27/23 09:35	11/27/23 17:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130				11/27/23 09:35	11/27/23 17:04	1
o-Terphenyl	109		70 - 130				11/27/23 09:35	11/27/23 17:04	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	77.9		5.05		mg/Kg			11/22/23 09:29	1

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Client Sample Results

Client: H & R Enterprises
Project/Site: GADWALL 18 FED COM #002H

Job ID: 890-5662-1
SDG: Eddy County NM

Client Sample ID: S - 6 3'R

Lab Sample ID: 890-5662-16

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

Sample Depth: 3'R

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		11/22/23 14:02	11/23/23 19:23	1
Toluene	<0.00201	U	0.00201		mg/Kg		11/22/23 14:02	11/23/23 19:23	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/22/23 14:02	11/23/23 19:23	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		11/22/23 14:02	11/23/23 19:23	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		11/22/23 14:02	11/23/23 19:23	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		11/22/23 14:02	11/23/23 19:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 130	11/22/23 14:02	11/23/23 19:23	1
1,4-Difluorobenzene (Surr)	83		70 - 130	11/22/23 14:02	11/23/23 19:23	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			11/23/23 19:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			11/27/23 17:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/27/23 09:35	11/27/23 17:28	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/27/23 09:35	11/27/23 17:28	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/27/23 09:35	11/27/23 17:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130	11/27/23 09:35	11/27/23 17:28	1
o-Terphenyl	105		70 - 130	11/27/23 09:35	11/27/23 17:28	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	65.0		5.04		mg/Kg			11/22/23 09:36	1

Client Sample ID: S - 7 0-1'

Lab Sample ID: 890-5662-17

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

Sample Depth: 0-1'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/22/23 14:02	11/23/23 19:43	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/22/23 14:02	11/23/23 19:43	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/22/23 14:02	11/23/23 19:43	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		11/22/23 14:02	11/23/23 19:43	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/22/23 14:02	11/23/23 19:43	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		11/22/23 14:02	11/23/23 19:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 130	11/22/23 14:02	11/23/23 19:43	1

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Client Sample Results

Client: H & R Enterprises
Project/Site: GADWALL 18 FED COM #002H

Job ID: 890-5662-1
SDG: Eddy County NM

Client Sample ID: S - 7 0-1'

Lab Sample ID: 890-5662-17

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

Sample Depth: 0-1'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	82		70 - 130	11/22/23 14:02	11/23/23 19:43	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			11/23/23 19:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	83.9		49.9		mg/Kg			11/27/23 17:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		11/27/23 09:35	11/27/23 17:51	1
Diesel Range Organics (Over C10-C28)	83.9		49.9		mg/Kg		11/27/23 09:35	11/27/23 17:51	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/27/23 09:35	11/27/23 17:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130				11/27/23 09:35	11/27/23 17:51	1
o-Terphenyl	106		70 - 130				11/27/23 09:35	11/27/23 17:51	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	68.0		5.00		mg/Kg			11/22/23 09:56	1

Client Sample ID: S - 7 2'

Lab Sample ID: 890-5662-18

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

Sample Depth: 2'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/22/23 14:02	11/23/23 20:04	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/22/23 14:02	11/23/23 20:04	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/22/23 14:02	11/23/23 20:04	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		11/22/23 14:02	11/23/23 20:04	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/22/23 14:02	11/23/23 20:04	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/22/23 14:02	11/23/23 20:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	159	S1+	70 - 130	11/22/23 14:02	11/23/23 20:04	1
1,4-Difluorobenzene (Surr)	111		70 - 130	11/22/23 14:02	11/23/23 20:04	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			11/23/23 20:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	58.7		49.6		mg/Kg			11/27/23 18:12	1

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Client Sample Results

Client: H & R Enterprises
Project/Site: GADWALL 18 FED COM #002H

Job ID: 890-5662-1
SDG: Eddy County NM

Client Sample ID: S - 7 2'

Lab Sample ID: 890-5662-18

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

Sample Depth: 2'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6		mg/Kg		11/27/23 09:35	11/27/23 18:12	1
Diesel Range Organics (Over C10-C28)	58.7		49.6		mg/Kg		11/27/23 09:35	11/27/23 18:12	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		11/27/23 09:35	11/27/23 18:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130				11/27/23 09:35	11/27/23 18:12	1
o-Terphenyl	110		70 - 130				11/27/23 09:35	11/27/23 18:12	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	62.6		5.03		mg/Kg			11/22/23 10:02	1

Client Sample ID: S - 7 3'R

Lab Sample ID: 890-5662-19

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

Sample Depth: 3'R

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		11/22/23 14:02	11/23/23 20:24	1
Toluene	<0.00198	U	0.00198		mg/Kg		11/22/23 14:02	11/23/23 20:24	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		11/22/23 14:02	11/23/23 20:24	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		11/22/23 14:02	11/23/23 20:24	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		11/22/23 14:02	11/23/23 20:24	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		11/22/23 14:02	11/23/23 20:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 130				11/22/23 14:02	11/23/23 20:24	1
1,4-Difluorobenzene (Surr)	58	S1-	70 - 130				11/22/23 14:02	11/23/23 20:24	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			11/23/23 20:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	57.0		49.5		mg/Kg			11/27/23 18:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.5	U	49.5		mg/Kg		11/27/23 09:35	11/27/23 18:33	1
Diesel Range Organics (Over C10-C28)	57.0		49.5		mg/Kg		11/27/23 09:35	11/27/23 18:33	1
Oil Range Organics (Over C28-C36)	<49.5	U	49.5		mg/Kg		11/27/23 09:35	11/27/23 18:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130				11/27/23 09:35	11/27/23 18:33	1
o-Terphenyl	116		70 - 130				11/27/23 09:35	11/27/23 18:33	1

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Client Sample Results

Client: H & R Enterprises
Project/Site: GADWALL 18 FED COM #002H

Job ID: 890-5662-1
SDG: Eddy County NM

Client Sample ID: S - 7 3'R

Lab Sample ID: 890-5662-19

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

Sample Depth: 3'R

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	67.8		4.99		mg/Kg			11/22/23 10:09	1

Client Sample ID: TT - 1 0-1'

Lab Sample ID: 890-5662-20

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

Sample Depth: 0-1'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		11/22/23 14:02	11/23/23 20:45	1
Toluene	<0.00201	U	0.00201		mg/Kg		11/22/23 14:02	11/23/23 20:45	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/22/23 14:02	11/23/23 20:45	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		11/22/23 14:02	11/23/23 20:45	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		11/22/23 14:02	11/23/23 20:45	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		11/22/23 14:02	11/23/23 20:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130				11/22/23 14:02	11/23/23 20:45	1
1,4-Difluorobenzene (Surr)	77		70 - 130				11/22/23 14:02	11/23/23 20:45	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			11/23/23 20:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	50.7		49.8		mg/Kg			11/27/23 18:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		11/27/23 09:35	11/27/23 18:54	1
Diesel Range Organics (Over C10-C28)	50.7		49.8		mg/Kg		11/27/23 09:35	11/27/23 18:54	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		11/27/23 09:35	11/27/23 18:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130				11/27/23 09:35	11/27/23 18:54	1
o-Terphenyl	106		70 - 130				11/27/23 09:35	11/27/23 18:54	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	70.9		4.95		mg/Kg			11/22/23 10:15	1

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Client Sample Results

Client: H & R Enterprises
Project/Site: GADWALL 18 FED COM #002H

Job ID: 890-5662-1
SDG: Eddy County NM

Client Sample ID: TT - 1 2'

Lab Sample ID: 890-5662-21

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

Sample Depth: 2'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/27/23 10:51	11/28/23 06:13	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/27/23 10:51	11/28/23 06:13	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/27/23 10:51	11/28/23 06:13	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/27/23 10:51	11/28/23 06:13	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/27/23 10:51	11/28/23 06:13	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/27/23 10:51	11/28/23 06:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130	11/27/23 10:51	11/28/23 06:13	1
1,4-Difluorobenzene (Surr)	113		70 - 130	11/27/23 10:51	11/28/23 06:13	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/28/23 06:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/28/23 10:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		11/27/23 17:59	11/28/23 10:39	1
Diesel Range Organics (Over C10-C28)	<49.9	U F1	49.9		mg/Kg		11/27/23 17:59	11/28/23 10:39	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/27/23 17:59	11/28/23 10:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	136	S1+	70 - 130	11/27/23 17:59	11/28/23 10:39	1
o-Terphenyl	124		70 - 130	11/27/23 17:59	11/28/23 10:39	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	68.6		5.03		mg/Kg			11/22/23 10:22	1

Client Sample ID: TT - 1 3'

Lab Sample ID: 890-5662-22

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

Sample Depth: 3'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/27/23 10:51	11/28/23 06:33	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/27/23 10:51	11/28/23 06:33	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/27/23 10:51	11/28/23 06:33	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		11/27/23 10:51	11/28/23 06:33	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/27/23 10:51	11/28/23 06:33	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/27/23 10:51	11/28/23 06:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	11/27/23 10:51	11/28/23 06:33	1

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Client Sample Results

Client: H & R Enterprises
Project/Site: GADWALL 18 FED COM #002H

Job ID: 890-5662-1
SDG: Eddy County NM

Client Sample ID: TT - 1 3'

Lab Sample ID: 890-5662-22

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

Sample Depth: 3'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	114		70 - 130	11/27/23 10:51	11/28/23 06:33	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			11/28/23 06:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3		mg/Kg			11/28/23 11:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	50.3		mg/Kg		11/27/23 17:59	11/28/23 11:45	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3		mg/Kg		11/27/23 17:59	11/28/23 11:45	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		11/27/23 17:59	11/28/23 11:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	146	S1+	70 - 130				11/27/23 17:59	11/28/23 11:45	1
o-Terphenyl	133	S1+	70 - 130				11/27/23 17:59	11/28/23 11:45	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	67.6		5.04		mg/Kg			11/22/23 10:28	1

Client Sample ID: TT - 1 4'

Lab Sample ID: 890-5662-23

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

Sample Depth: 4'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		11/27/23 10:51	11/28/23 06:54	1
Toluene	<0.00201	U	0.00201		mg/Kg		11/27/23 10:51	11/28/23 06:54	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/27/23 10:51	11/28/23 06:54	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		11/27/23 10:51	11/28/23 06:54	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		11/27/23 10:51	11/28/23 06:54	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		11/27/23 10:51	11/28/23 06:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	11/27/23 10:51	11/28/23 06:54	1
1,4-Difluorobenzene (Surr)	108		70 - 130	11/27/23 10:51	11/28/23 06:54	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			11/28/23 06:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5		mg/Kg			11/28/23 12:08	1

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Client Sample Results

Client: H & R Enterprises
Project/Site: GADWALL 18 FED COM #002H

Job ID: 890-5662-1
SDG: Eddy County NM

Client Sample ID: TT - 1 4'

Lab Sample ID: 890-5662-23

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

Sample Depth: 4'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5		mg/Kg		11/27/23 17:59	11/28/23 12:08	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		11/27/23 17:59	11/28/23 12:08	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		11/27/23 17:59	11/28/23 12:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	145	S1+	70 - 130				11/27/23 17:59	11/28/23 12:08	1
o-Terphenyl	130		70 - 130				11/27/23 17:59	11/28/23 12:08	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	77.0		5.03		mg/Kg			11/22/23 10:35	1

Client Sample ID: TT - 2 0-1'

Lab Sample ID: 890-5662-24

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

Sample Depth: 0-1'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		11/27/23 10:51	11/28/23 07:14	1
Toluene	<0.00201	U	0.00201		mg/Kg		11/27/23 10:51	11/28/23 07:14	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/27/23 10:51	11/28/23 07:14	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		11/27/23 10:51	11/28/23 07:14	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		11/27/23 10:51	11/28/23 07:14	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		11/27/23 10:51	11/28/23 07:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130				11/27/23 10:51	11/28/23 07:14	1
1,4-Difluorobenzene (Surr)	110		70 - 130				11/27/23 10:51	11/28/23 07:14	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			11/28/23 07:14	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			11/28/23 12:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		11/27/23 17:59	11/28/23 12:30	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		11/27/23 17:59	11/28/23 12:30	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		11/27/23 17:59	11/28/23 12:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	143	S1+	70 - 130				11/27/23 17:59	11/28/23 12:30	1
o-Terphenyl	130		70 - 130				11/27/23 17:59	11/28/23 12:30	1

Eurofins Carlsbad

Client Sample Results

Client: H & R Enterprises
Project/Site: GADWALL 18 FED COM #002H

Job ID: 890-5662-1
SDG: Eddy County NM

Client Sample ID: TT - 2 0-1'

Lab Sample ID: 890-5662-24

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

Sample Depth: 0-1'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	69.8		5.02		mg/Kg			11/23/23 08:57	1

Client Sample ID: TT - 2 2'

Lab Sample ID: 890-5662-25

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

Sample Depth: 2'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/27/23 10:51	11/28/23 07:35	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/27/23 10:51	11/28/23 07:35	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/27/23 10:51	11/28/23 07:35	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/27/23 10:51	11/28/23 07:35	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/27/23 10:51	11/28/23 07:35	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/27/23 10:51	11/28/23 07:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130				11/27/23 10:51	11/28/23 07:35	1
1,4-Difluorobenzene (Surr)	108		70 - 130				11/27/23 10:51	11/28/23 07:35	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/28/23 07:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4		mg/Kg			11/28/23 12:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4		mg/Kg		11/27/23 17:59	11/28/23 12:52	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4		mg/Kg		11/27/23 17:59	11/28/23 12:52	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		11/27/23 17:59	11/28/23 12:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	137	S1+	70 - 130				11/27/23 17:59	11/28/23 12:52	1
o-Terphenyl	124		70 - 130				11/27/23 17:59	11/28/23 12:52	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	70.4		4.99		mg/Kg			11/23/23 09:17	1

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Client Sample Results

Client: H & R Enterprises
Project/Site: GADWALL 18 FED COM #002H

Job ID: 890-5662-1
SDG: Eddy County NM

Client Sample ID: TT - 2 3'R

Lab Sample ID: 890-5662-26

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

Sample Depth: 3'R

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/27/23 10:51	11/28/23 07:55	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/27/23 10:51	11/28/23 07:55	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/27/23 10:51	11/28/23 07:55	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		11/27/23 10:51	11/28/23 07:55	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/27/23 10:51	11/28/23 07:55	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/27/23 10:51	11/28/23 07:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	11/27/23 10:51	11/28/23 07:55	1
1,4-Difluorobenzene (Surr)	112		70 - 130	11/27/23 10:51	11/28/23 07:55	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			11/28/23 07:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			11/28/23 13:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		11/27/23 17:59	11/28/23 13:14	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		11/27/23 17:59	11/28/23 13:14	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		11/27/23 17:59	11/28/23 13:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	142	S1+	70 - 130	11/27/23 17:59	11/28/23 13:14	1
o-Terphenyl	128		70 - 130	11/27/23 17:59	11/28/23 13:14	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	73.8		5.00		mg/Kg			11/23/23 09:23	1

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Surrogate Summary

Client: H & R Enterprises
Project/Site: GADWALL 18 FED COM #002H

Job ID: 890-5662-1
SDG: Eddy County NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		BFB1 (70-130)	DFBZ1 (70-130)
890-5662-1	S - 1 0-1'	81	87
890-5662-1 MS	S - 1 0-1'	124	109
890-5662-1 MSD	S - 1 0-1'	127	106
890-5662-2	S - 1 2'	81	82
890-5662-3	S - 1 3'R	101	56 S1-
890-5662-4	S - 2 0-1'	102	72
890-5662-5	S - 2 2'R	84	78
890-5662-6	S - 3 0-1'	102	54 S1-
890-5662-7	S - 3 2'	85	80
890-5662-8	S - 3 3'R	103	78
890-5662-9	S - 4 0-1'	90	83
890-5662-10	S - 4 2'	79	82
890-5662-11	S - 4 3'R	94	73
890-5662-12	S - 5 0-1'	83	85
890-5662-13	S - 5 2'	86	82
890-5662-14	S - 6 0-1'	87	83
890-5662-15	S - 6 2'	106	57 S1-
890-5662-16	S - 6 3'R	85	83
890-5662-17	S - 7 0-1'	85	82
890-5662-18	S - 7 2'	159 S1+	111
890-5662-19	S - 7 3'R	85	58 S1-
890-5662-20	TT - 1 0-1'	88	77
890-5662-21	TT - 1 2'	90	113
890-5662-22	TT - 1 3'	99	114
890-5662-23	TT - 1 4'	103	108
890-5662-24	TT - 2 0-1'	101	110
890-5662-25	TT - 2 2'	105	108
890-5662-26	TT - 2 3'R	108	112
LCS 880-67647/1-A	Lab Control Sample	107	104
LCS 880-67739/1-A	Lab Control Sample	95	101
LCSD 880-67647/2-A	Lab Control Sample Dup	116	97
LCSD 880-67739/2-A	Lab Control Sample Dup	93	104
MB 880-67330/5-A	Method Blank	70	87
MB 880-67586/5-A	Method Blank	98	144 S1+
MB 880-67647/5-A	Method Blank	75	85
MB 880-67739/5-A	Method Blank	107	152 S1+

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		1CO1 (70-130)	OTPH1 (70-130)
890-5662-1	S - 1 0-1'	97	101
890-5662-1 MS	S - 1 0-1'	109	100
890-5662-1 MSD	S - 1 0-1'	106	98

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Surrogate Summary

Client: H & R Enterprises

Job ID: 890-5662-1

Project/Site: GADWALL 18 FED COM #002H

SDG: Eddy County NM

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-5662-2	S - 1 2'	102	107
890-5662-3	S - 1 3'R	98	102
890-5662-4	S - 2 0-1'	99	104
890-5662-5	S - 2 2'R	97	101
890-5662-6	S - 3 0-1'	104	110
890-5662-7	S - 3 2'	93	99
890-5662-8	S - 3 3'R	104	111
890-5662-9	S - 4 0-1'	96	102
890-5662-10	S - 4 2'	99	105
890-5662-11	S - 4 3'R	93	97
890-5662-12	S - 5 0-1'	94	99
890-5662-13	S - 5 2'	97	103
890-5662-14	S - 6 0-1'	97	103
890-5662-15	S - 6 2'	104	109
890-5662-16	S - 6 3'R	98	105
890-5662-17	S - 7 0-1'	100	106
890-5662-18	S - 7 2'	105	110
890-5662-19	S - 7 3'R	111	116
890-5662-20	TT - 1 0-1'	100	106
890-5662-21	TT - 1 2'	136 S1+	124
890-5662-21 MS	TT - 1 2'	140 S1+	113
890-5662-21 MSD	TT - 1 2'	163 S1+	130
890-5662-22	TT - 1 3'	146 S1+	133 S1+
890-5662-23	TT - 1 4'	145 S1+	130
890-5662-24	TT - 2 0-1'	143 S1+	130
890-5662-25	TT - 2 2'	137 S1+	124
890-5662-26	TT - 2 3'R	142 S1+	128
LCS 880-67701/2-A	Lab Control Sample	100	110
LCS 880-67795/2-A	Lab Control Sample	84	86
LCSD 880-67701/3-A	Lab Control Sample Dup	91	100
LCSD 880-67795/3-A	Lab Control Sample Dup	94	102
MB 880-67701/1-A	Method Blank	101	110
MB 880-67795/1-A	Method Blank	172 S1+	163 S1+

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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QC Sample Results

Client: H & R Enterprises
Project/Site: GADWALL 18 FED COM #002H

Job ID: 890-5662-1
SDG: Eddy County NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-67330/5-A

Matrix: Solid

Analysis Batch: 67637

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 67330

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/17/23 15:41	11/23/23 02:15	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/17/23 15:41	11/23/23 02:15	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/17/23 15:41	11/23/23 02:15	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/17/23 15:41	11/23/23 02:15	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/17/23 15:41	11/23/23 02:15	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/17/23 15:41	11/23/23 02:15	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	70		70 - 130	11/17/23 15:41	11/23/23 02:15	1
1,4-Difluorobenzene (Surr)	87		70 - 130	11/17/23 15:41	11/23/23 02:15	1

Lab Sample ID: MB 880-67586/5-A

Matrix: Solid

Analysis Batch: 67691

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 67586

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/22/23 17:00	11/27/23 11:54	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/22/23 17:00	11/27/23 11:54	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/22/23 17:00	11/27/23 11:54	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/22/23 17:00	11/27/23 11:54	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/22/23 17:00	11/27/23 11:54	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/22/23 17:00	11/27/23 11:54	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	11/22/23 17:00	11/27/23 11:54	1
1,4-Difluorobenzene (Surr)	144	S1+	70 - 130	11/22/23 17:00	11/27/23 11:54	1

Lab Sample ID: MB 880-67647/5-A

Matrix: Solid

Analysis Batch: 67637

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 67647

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/22/23 14:02	11/23/23 12:52	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/22/23 14:02	11/23/23 12:52	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/22/23 14:02	11/23/23 12:52	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/22/23 14:02	11/23/23 12:52	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/22/23 14:02	11/23/23 12:52	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/22/23 14:02	11/23/23 12:52	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	75		70 - 130	11/22/23 14:02	11/23/23 12:52	1
1,4-Difluorobenzene (Surr)	85		70 - 130	11/22/23 14:02	11/23/23 12:52	1

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QC Sample Results

Client: H & R Enterprises
Project/Site: GADWALL 18 FED COM #002H

Job ID: 890-5662-1
SDG: Eddy County NM

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

Lab Sample ID: LCS 880-67647/1-A

Matrix: Solid

Analysis Batch: 67637

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 67647

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08825		mg/Kg		88	70 - 130
Toluene	0.100	0.08105		mg/Kg		81	70 - 130
Ethylbenzene	0.100	0.08802		mg/Kg		88	70 - 130
m-Xylene & p-Xylene	0.200	0.1826		mg/Kg		91	70 - 130
o-Xylene	0.100	0.08873		mg/Kg		89	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: LCSD 880-67647/2-A

Matrix: Solid

Analysis Batch: 67637

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 67647

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.08794		mg/Kg		88	70 - 130	0	35
Toluene	0.100	0.08186		mg/Kg		82	70 - 130	1	35
Ethylbenzene	0.100	0.09482		mg/Kg		95	70 - 130	7	35
m-Xylene & p-Xylene	0.200	0.1982		mg/Kg		99	70 - 130	8	35
o-Xylene	0.100	0.09609		mg/Kg		96	70 - 130	8	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	116		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: 890-5662-1 MS

Matrix: Solid

Analysis Batch: 67637

Client Sample ID: S - 1 0-1'

Prep Type: Total/NA

Prep Batch: 67647

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.0990	0.08620		mg/Kg		87	70 - 130
Toluene	<0.00200	U	0.0990	0.08046		mg/Kg		81	70 - 130
Ethylbenzene	<0.00200	U	0.0990	0.09142		mg/Kg		92	70 - 130
m-Xylene & p-Xylene	<0.00400	U	0.198	0.1877		mg/Kg		95	70 - 130
o-Xylene	<0.00200	U	0.0990	0.08952		mg/Kg		90	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	124		70 - 130
1,4-Difluorobenzene (Surr)	109		70 - 130

Lab Sample ID: 890-5662-1 MSD

Matrix: Solid

Analysis Batch: 67637

Client Sample ID: S - 1 0-1'

Prep Type: Total/NA

Prep Batch: 67647

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.101	0.07547		mg/Kg		75	70 - 130	13	35
Toluene	<0.00200	U	0.101	0.07148		mg/Kg		71	70 - 130	12	35
Ethylbenzene	<0.00200	U	0.101	0.08429		mg/Kg		84	70 - 130	8	35

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QC Sample Results

Client: H & R Enterprises
Project/Site: GADWALL 18 FED COM #002H

Job ID: 890-5662-1
SDG: Eddy County NM

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

Lab Sample ID: 890-5662-1 MSD

Matrix: Solid

Analysis Batch: 67637

Client Sample ID: S - 1 0-1'

Prep Type: Total/NA

Prep Batch: 67647

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
m-Xylene & p-Xylene	<0.00400	U	0.202	0.1711		mg/Kg		85	70 - 130	9	35
o-Xylene	<0.00200	U	0.101	0.08172		mg/Kg		81	70 - 130	9	35
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	127		70 - 130								
1,4-Difluorobenzene (Surr)	106		70 - 130								

Lab Sample ID: MB 880-67739/5-A

Matrix: Solid

Analysis Batch: 67691

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 67739

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/27/23 10:51	11/27/23 23:29	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/27/23 10:51	11/27/23 23:29	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/27/23 10:51	11/27/23 23:29	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/27/23 10:51	11/27/23 23:29	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/27/23 10:51	11/27/23 23:29	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/27/23 10:51	11/27/23 23:29	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130				11/27/23 10:51	11/27/23 23:29	1
1,4-Difluorobenzene (Surr)	152	S1+	70 - 130				11/27/23 10:51	11/27/23 23:29	1

Lab Sample ID: LCS 880-67739/1-A

Matrix: Solid

Analysis Batch: 67691

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 67739

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.07740		mg/Kg		77	70 - 130
Toluene	0.100	0.08015		mg/Kg		80	70 - 130
Ethylbenzene	0.100	0.07775		mg/Kg		78	70 - 130
m-Xylene & p-Xylene	0.200	0.1674		mg/Kg		84	70 - 130
o-Xylene	0.100	0.08023		mg/Kg		80	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	95		70 - 130				
1,4-Difluorobenzene (Surr)	101		70 - 130				

Lab Sample ID: LCSD 880-67739/2-A

Matrix: Solid

Analysis Batch: 67691

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 67739

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.07679		mg/Kg		77	70 - 130	1	35
Toluene	0.100	0.07762		mg/Kg		78	70 - 130	3	35
Ethylbenzene	0.100	0.07251		mg/Kg		73	70 - 130	7	35
m-Xylene & p-Xylene	0.200	0.1635		mg/Kg		82	70 - 130	2	35
o-Xylene	0.100	0.07638		mg/Kg		76	70 - 130	5	35

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QC Sample Results

Client: H & R Enterprises
Project/Site: GADWALL 18 FED COM #002H

Job ID: 890-5662-1
SDG: Eddy County NM

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

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	93		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

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

Lab Sample ID: MB 880-67701/1-A

Matrix: Solid

Analysis Batch: 67684

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 67701

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/27/23 08:00	11/27/23 08:18	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/27/23 08:00	11/27/23 08:18	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/27/23 08:00	11/27/23 08:18	1
Surrogate	MB		Limits				Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier							
1-Chlorooctane	101		70 - 130				11/27/23 08:00	11/27/23 08:18	1
o-Terphenyl	110		70 - 130				11/27/23 08:00	11/27/23 08:18	1

Lab Sample ID: LCS 880-67701/2-A

Matrix: Solid

Analysis Batch: 67684

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 67701

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	829.3		mg/Kg		83	70 - 130
Diesel Range Organics (Over C10-C28)	1000	855.5		mg/Kg		86	70 - 130
Surrogate	LCS		Limits				
	%Recovery	Qualifier					
1-Chlorooctane	100		70 - 130				
o-Terphenyl	110		70 - 130				

Lab Sample ID: LCSD 880-67701/3-A

Matrix: Solid

Analysis Batch: 67684

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 67701

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	1000	857.2		mg/Kg		86	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	1000	862.4		mg/Kg		86	70 - 130	1	20
Surrogate	LCSD		Limits						
	%Recovery	Qualifier							
1-Chlorooctane	91		70 - 130						
o-Terphenyl	100		70 - 130						

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QC Sample Results

Client: H & R Enterprises
Project/Site: GADWALL 18 FED COM #002H

Job ID: 890-5662-1
SDG: Eddy County NM

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

Lab Sample ID: 890-5662-1 MS
Matrix: Solid
Analysis Batch: 67684

Client Sample ID: S - 1 0-1'
Prep Type: Total/NA
Prep Batch: 67701

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	1010	879.8		mg/Kg		85	70 - 130
Diesel Range Organics (Over C10-C28)	<50.1	U	1010	1006		mg/Kg		95	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane	109		70 - 130						
o-Terphenyl	100		70 - 130						

Lab Sample ID: 890-5662-1 MSD
Matrix: Solid
Analysis Batch: 67684

Client Sample ID: S - 1 0-1'
Prep Type: Total/NA
Prep Batch: 67701

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	1010	859.2		mg/Kg		83	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<50.1	U	1010	994.1		mg/Kg		94	70 - 130	1	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	106		70 - 130								
o-Terphenyl	98		70 - 130								

Lab Sample ID: MB 880-67795/1-A
Matrix: Solid
Analysis Batch: 67801

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 67795

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/27/23 17:59	11/28/23 08:05	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/27/23 17:59	11/28/23 08:05	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/27/23 17:59	11/28/23 08:05	1
Surrogate	MB	MB	Limits				Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier							
1-Chlorooctane	172	S1+	70 - 130				11/27/23 17:59	11/28/23 08:05	1
o-Terphenyl	163	S1+	70 - 130				11/27/23 17:59	11/28/23 08:05	1

Lab Sample ID: LCS 880-67795/2-A
Matrix: Solid
Analysis Batch: 67801

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 67795

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1062		mg/Kg		106	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1037		mg/Kg		104	70 - 130

QC Sample Results

Client: H & R Enterprises
Project/Site: GADWALL 18 FED COM #002H

Job ID: 890-5662-1
SDG: Eddy County NM

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

Lab Sample ID: LCS 880-67795/2-A

Matrix: Solid

Analysis Batch: 67801

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 67795

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	84		70 - 130
o-Terphenyl	86		70 - 130

Lab Sample ID: LCSD 880-67795/3-A

Matrix: Solid

Analysis Batch: 67801

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 67795

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1038		mg/Kg		104	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	1000	1006		mg/Kg		101	70 - 130	3	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	94		70 - 130
o-Terphenyl	102		70 - 130

Lab Sample ID: 890-5662-21 MS

Matrix: Solid

Analysis Batch: 67801

Client Sample ID: TT - 1 2'

Prep Type: Total/NA

Prep Batch: 67795

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	991	906.3		mg/Kg		89	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U F1	991	1265		mg/Kg		125	70 - 130		

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	140	S1+	70 - 130
o-Terphenyl	113		70 - 130

Lab Sample ID: 890-5662-21 MSD

Matrix: Solid

Analysis Batch: 67801

Client Sample ID: TT - 1 2'

Prep Type: Total/NA

Prep Batch: 67795

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	991	1088		mg/Kg		107	70 - 130	18	20
Diesel Range Organics (Over C10-C28)	<49.9	U F1	991	1478	F1	mg/Kg		147	70 - 130	16	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	163	S1+	70 - 130
o-Terphenyl	130		70 - 130

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QC Sample Results

Client: H & R Enterprises
Project/Site: GADWALL 18 FED COM #002H

Job ID: 890-5662-1
SDG: Eddy County NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-67442/1-A

Matrix: Solid

Analysis Batch: 67628

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			11/22/23 07:18	1

Lab Sample ID: LCS 880-67442/2-A

Matrix: Solid

Analysis Batch: 67628

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	255.8		mg/Kg		102	90 - 110

Lab Sample ID: LCSD 880-67442/3-A

Matrix: Solid

Analysis Batch: 67628

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	258.4		mg/Kg		103	90 - 110	1	20

Lab Sample ID: 890-5662-4 MS

Matrix: Solid

Analysis Batch: 67628

Client Sample ID: S - 2 0-1'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	91.7		248	339.3		mg/Kg		100	90 - 110

Lab Sample ID: 890-5662-4 MSD

Matrix: Solid

Analysis Batch: 67628

Client Sample ID: S - 2 0-1'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	91.7		248	339.7		mg/Kg		100	90 - 110	0	20

Lab Sample ID: 890-5662-14 MS

Matrix: Solid

Analysis Batch: 67628

Client Sample ID: S - 6 0-1'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	66.8		249	324.1		mg/Kg		104	90 - 110

Lab Sample ID: 890-5662-14 MSD

Matrix: Solid

Analysis Batch: 67628

Client Sample ID: S - 6 0-1'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	66.8		249	321.6		mg/Kg		103	90 - 110	1	20

Lab Sample ID: MB 880-67651/1-A

Matrix: Solid

Analysis Batch: 67652

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			11/22/23 18:17	1

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QC Sample Results

Client: H & R Enterprises
Project/Site: GADWALL 18 FED COM #002H

Job ID: 890-5662-1
SDG: Eddy County NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCS 880-67651/2-A

Matrix: Solid

Analysis Batch: 67652

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	252.5		mg/Kg		101	90 - 110

Lab Sample ID: LCSD 880-67651/3-A

Matrix: Solid

Analysis Batch: 67652

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	252.7		mg/Kg		101	90 - 110	0	20

Lab Sample ID: 890-5662-1 MS

Matrix: Solid

Analysis Batch: 67652

Client Sample ID: S - 1 0-1'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	65.5		252	313.4		mg/Kg		99	90 - 110

Lab Sample ID: 890-5662-1 MSD

Matrix: Solid

Analysis Batch: 67652

Client Sample ID: S - 1 0-1'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	65.5		252	316.1		mg/Kg		100	90 - 110	1	20

Lab Sample ID: MB 880-67543/1-A

Matrix: Solid

Analysis Batch: 67661

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			11/23/23 07:05	1

Lab Sample ID: LCS 880-67543/2-A

Matrix: Solid

Analysis Batch: 67661

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	257.9		mg/Kg		103	90 - 110

Lab Sample ID: LCSD 880-67543/3-A

Matrix: Solid

Analysis Batch: 67661

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	260.2		mg/Kg		104	90 - 110	1	20

Lab Sample ID: 890-5662-24 MS

Matrix: Solid

Analysis Batch: 67661

Client Sample ID: TT - 2 0-1'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	69.8		251	327.1		mg/Kg		102	90 - 110

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QC Sample Results

Client: H & R Enterprises
Project/Site: GADWALL 18 FED COM #002H

Job ID: 890-5662-1
SDG: Eddy County NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 890-5662-24 MSD							Client Sample ID: TT - 2 0-1'					
Matrix: Solid							Prep Type: Soluble					
Analysis Batch: 67661												
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit	
Chloride	69.8		251	326.7		mg/Kg		102	90 - 110	0	20	

QC Association Summary

Client: H & R Enterprises
Project/Site: GADWALL 18 FED COM #002H

Job ID: 890-5662-1
SDG: Eddy County NM

GC VOA

Prep Batch: 67330

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-67330/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 67586

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-67586/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 67637

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5662-1	S - 1 0-1'	Total/NA	Solid	8021B	67647
890-5662-2	S - 1 2'	Total/NA	Solid	8021B	67647
890-5662-3	S - 1 3'R	Total/NA	Solid	8021B	67647
890-5662-4	S - 2 0-1'	Total/NA	Solid	8021B	67647
890-5662-5	S - 2 2'R	Total/NA	Solid	8021B	67647
890-5662-6	S - 3 0-1'	Total/NA	Solid	8021B	67647
890-5662-7	S - 3 2'	Total/NA	Solid	8021B	67647
890-5662-8	S - 3 3'R	Total/NA	Solid	8021B	67647
890-5662-9	S - 4 0-1'	Total/NA	Solid	8021B	67647
890-5662-10	S - 4 2'	Total/NA	Solid	8021B	67647
890-5662-11	S - 4 3'R	Total/NA	Solid	8021B	67647
890-5662-12	S - 5 0-1'	Total/NA	Solid	8021B	67647
890-5662-13	S - 5 2'	Total/NA	Solid	8021B	67647
890-5662-14	S - 6 0-1'	Total/NA	Solid	8021B	67647
890-5662-15	S - 6 2'	Total/NA	Solid	8021B	67647
890-5662-16	S - 6 3'R	Total/NA	Solid	8021B	67647
890-5662-17	S - 7 0-1'	Total/NA	Solid	8021B	67647
890-5662-18	S - 7 2'	Total/NA	Solid	8021B	67647
890-5662-19	S - 7 3'R	Total/NA	Solid	8021B	67647
890-5662-20	TT - 1 0-1'	Total/NA	Solid	8021B	67647
MB 880-67330/5-A	Method Blank	Total/NA	Solid	8021B	67330
MB 880-67647/5-A	Method Blank	Total/NA	Solid	8021B	67647
LCS 880-67647/1-A	Lab Control Sample	Total/NA	Solid	8021B	67647
LCSD 880-67647/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	67647
890-5662-1 MS	S - 1 0-1'	Total/NA	Solid	8021B	67647
890-5662-1 MSD	S - 1 0-1'	Total/NA	Solid	8021B	67647

Prep Batch: 67647

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5662-1	S - 1 0-1'	Total/NA	Solid	5035	
890-5662-2	S - 1 2'	Total/NA	Solid	5035	
890-5662-3	S - 1 3'R	Total/NA	Solid	5035	
890-5662-4	S - 2 0-1'	Total/NA	Solid	5035	
890-5662-5	S - 2 2'R	Total/NA	Solid	5035	
890-5662-6	S - 3 0-1'	Total/NA	Solid	5035	
890-5662-7	S - 3 2'	Total/NA	Solid	5035	
890-5662-8	S - 3 3'R	Total/NA	Solid	5035	
890-5662-9	S - 4 0-1'	Total/NA	Solid	5035	
890-5662-10	S - 4 2'	Total/NA	Solid	5035	
890-5662-11	S - 4 3'R	Total/NA	Solid	5035	
890-5662-12	S - 5 0-1'	Total/NA	Solid	5035	
890-5662-13	S - 5 2'	Total/NA	Solid	5035	
890-5662-14	S - 6 0-1'	Total/NA	Solid	5035	

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QC Association Summary

Client: H & R Enterprises
Project/Site: GADWALL 18 FED COM #002H

Job ID: 890-5662-1
SDG: Eddy County NM

GC VOA (Continued)

Prep Batch: 67647 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5662-15	S - 6 2'	Total/NA	Solid	5035	
890-5662-16	S - 6 3'R	Total/NA	Solid	5035	
890-5662-17	S - 7 0-1'	Total/NA	Solid	5035	
890-5662-18	S - 7 2'	Total/NA	Solid	5035	
890-5662-19	S - 7 3'R	Total/NA	Solid	5035	
890-5662-20	TT - 1 0-1'	Total/NA	Solid	5035	
MB 880-67647/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-67647/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-67647/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-5662-1 MS	S - 1 0-1'	Total/NA	Solid	5035	
890-5662-1 MSD	S - 1 0-1'	Total/NA	Solid	5035	

Analysis Batch: 67691

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5662-21	TT - 1 2'	Total/NA	Solid	8021B	67739
890-5662-22	TT - 1 3'	Total/NA	Solid	8021B	67739
890-5662-23	TT - 1 4'	Total/NA	Solid	8021B	67739
890-5662-24	TT - 2 0-1'	Total/NA	Solid	8021B	67739
890-5662-25	TT - 2 2'	Total/NA	Solid	8021B	67739
890-5662-26	TT - 2 3'R	Total/NA	Solid	8021B	67739
MB 880-67586/5-A	Method Blank	Total/NA	Solid	8021B	67586
MB 880-67739/5-A	Method Blank	Total/NA	Solid	8021B	67739
LCS 880-67739/1-A	Lab Control Sample	Total/NA	Solid	8021B	67739
LCSD 880-67739/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	67739

Prep Batch: 67739

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5662-21	TT - 1 2'	Total/NA	Solid	5035	
890-5662-22	TT - 1 3'	Total/NA	Solid	5035	
890-5662-23	TT - 1 4'	Total/NA	Solid	5035	
890-5662-24	TT - 2 0-1'	Total/NA	Solid	5035	
890-5662-25	TT - 2 2'	Total/NA	Solid	5035	
890-5662-26	TT - 2 3'R	Total/NA	Solid	5035	
MB 880-67739/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-67739/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-67739/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 67774

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5662-1	S - 1 0-1'	Total/NA	Solid	Total BTEX	
890-5662-2	S - 1 2'	Total/NA	Solid	Total BTEX	
890-5662-3	S - 1 3'R	Total/NA	Solid	Total BTEX	
890-5662-4	S - 2 0-1'	Total/NA	Solid	Total BTEX	
890-5662-5	S - 2 2'R	Total/NA	Solid	Total BTEX	
890-5662-6	S - 3 0-1'	Total/NA	Solid	Total BTEX	
890-5662-7	S - 3 2'	Total/NA	Solid	Total BTEX	
890-5662-8	S - 3 3'R	Total/NA	Solid	Total BTEX	
890-5662-9	S - 4 0-1'	Total/NA	Solid	Total BTEX	
890-5662-10	S - 4 2'	Total/NA	Solid	Total BTEX	
890-5662-11	S - 4 3'R	Total/NA	Solid	Total BTEX	
890-5662-12	S - 5 0-1'	Total/NA	Solid	Total BTEX	

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QC Association Summary

Client: H & R Enterprises
Project/Site: GADWALL 18 FED COM #002H

Job ID: 890-5662-1
SDG: Eddy County NM

GC VOA (Continued)

Analysis Batch: 67774 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5662-13	S - 5 2'	Total/NA	Solid	Total BTEX	
890-5662-14	S - 6 0-1'	Total/NA	Solid	Total BTEX	
890-5662-15	S - 6 2'	Total/NA	Solid	Total BTEX	
890-5662-16	S - 6 3'R	Total/NA	Solid	Total BTEX	
890-5662-17	S - 7 0-1'	Total/NA	Solid	Total BTEX	
890-5662-18	S - 7 2'	Total/NA	Solid	Total BTEX	
890-5662-19	S - 7 3'R	Total/NA	Solid	Total BTEX	
890-5662-20	TT - 1 0-1'	Total/NA	Solid	Total BTEX	
890-5662-21	TT - 1 2'	Total/NA	Solid	Total BTEX	
890-5662-22	TT - 1 3'	Total/NA	Solid	Total BTEX	
890-5662-23	TT - 1 4'	Total/NA	Solid	Total BTEX	
890-5662-24	TT - 2 0-1'	Total/NA	Solid	Total BTEX	
890-5662-25	TT - 2 2'	Total/NA	Solid	Total BTEX	
890-5662-26	TT - 2 3'R	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 67684

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5662-1	S - 1 0-1'	Total/NA	Solid	8015B NM	67701
890-5662-2	S - 1 2'	Total/NA	Solid	8015B NM	67701
890-5662-3	S - 1 3'R	Total/NA	Solid	8015B NM	67701
890-5662-4	S - 2 0-1'	Total/NA	Solid	8015B NM	67701
890-5662-5	S - 2 2'R	Total/NA	Solid	8015B NM	67701
890-5662-6	S - 3 0-1'	Total/NA	Solid	8015B NM	67701
890-5662-7	S - 3 2'	Total/NA	Solid	8015B NM	67701
890-5662-8	S - 3 3'R	Total/NA	Solid	8015B NM	67701
890-5662-9	S - 4 0-1'	Total/NA	Solid	8015B NM	67701
890-5662-10	S - 4 2'	Total/NA	Solid	8015B NM	67701
890-5662-11	S - 4 3'R	Total/NA	Solid	8015B NM	67701
890-5662-12	S - 5 0-1'	Total/NA	Solid	8015B NM	67701
890-5662-13	S - 5 2'	Total/NA	Solid	8015B NM	67701
890-5662-14	S - 6 0-1'	Total/NA	Solid	8015B NM	67701
890-5662-15	S - 6 2'	Total/NA	Solid	8015B NM	67701
890-5662-16	S - 6 3'R	Total/NA	Solid	8015B NM	67701
890-5662-17	S - 7 0-1'	Total/NA	Solid	8015B NM	67701
890-5662-18	S - 7 2'	Total/NA	Solid	8015B NM	67701
890-5662-19	S - 7 3'R	Total/NA	Solid	8015B NM	67701
890-5662-20	TT - 1 0-1'	Total/NA	Solid	8015B NM	67701
MB 880-67701/1-A	Method Blank	Total/NA	Solid	8015B NM	67701
LCS 880-67701/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	67701
LCSD 880-67701/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	67701
890-5662-1 MS	S - 1 0-1'	Total/NA	Solid	8015B NM	67701
890-5662-1 MSD	S - 1 0-1'	Total/NA	Solid	8015B NM	67701

Prep Batch: 67701

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5662-1	S - 1 0-1'	Total/NA	Solid	8015NM Prep	
890-5662-2	S - 1 2'	Total/NA	Solid	8015NM Prep	
890-5662-3	S - 1 3'R	Total/NA	Solid	8015NM Prep	
890-5662-4	S - 2 0-1'	Total/NA	Solid	8015NM Prep	

Eurofins Carlsbad

QC Association Summary

Client: H & R Enterprises
Project/Site: GADWALL 18 FED COM #002H

Job ID: 890-5662-1
SDG: Eddy County NM

GC Semi VOA (Continued)

Prep Batch: 67701 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5662-5	S - 2 2'R	Total/NA	Solid	8015NM Prep	
890-5662-6	S - 3 0-1'	Total/NA	Solid	8015NM Prep	
890-5662-7	S - 3 2'	Total/NA	Solid	8015NM Prep	
890-5662-8	S - 3 3'R	Total/NA	Solid	8015NM Prep	
890-5662-9	S - 4 0-1'	Total/NA	Solid	8015NM Prep	
890-5662-10	S - 4 2'	Total/NA	Solid	8015NM Prep	
890-5662-11	S - 4 3'R	Total/NA	Solid	8015NM Prep	
890-5662-12	S - 5 0-1'	Total/NA	Solid	8015NM Prep	
890-5662-13	S - 5 2'	Total/NA	Solid	8015NM Prep	
890-5662-14	S - 6 0-1'	Total/NA	Solid	8015NM Prep	
890-5662-15	S - 6 2'	Total/NA	Solid	8015NM Prep	
890-5662-16	S - 6 3'R	Total/NA	Solid	8015NM Prep	
890-5662-17	S - 7 0-1'	Total/NA	Solid	8015NM Prep	
890-5662-18	S - 7 2'	Total/NA	Solid	8015NM Prep	
890-5662-19	S - 7 3'R	Total/NA	Solid	8015NM Prep	
890-5662-20	TT - 1 0-1'	Total/NA	Solid	8015NM Prep	
MB 880-67701/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-67701/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-67701/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-5662-1 MS	S - 1 0-1'	Total/NA	Solid	8015NM Prep	
890-5662-1 MSD	S - 1 0-1'	Total/NA	Solid	8015NM Prep	

Prep Batch: 67795

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5662-21	TT - 1 2'	Total/NA	Solid	8015NM Prep	
890-5662-22	TT - 1 3'	Total/NA	Solid	8015NM Prep	
890-5662-23	TT - 1 4'	Total/NA	Solid	8015NM Prep	
890-5662-24	TT - 2 0-1'	Total/NA	Solid	8015NM Prep	
890-5662-25	TT - 2 2'	Total/NA	Solid	8015NM Prep	
890-5662-26	TT - 2 3'R	Total/NA	Solid	8015NM Prep	
MB 880-67795/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-67795/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-67795/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-5662-21 MS	TT - 1 2'	Total/NA	Solid	8015NM Prep	
890-5662-21 MSD	TT - 1 2'	Total/NA	Solid	8015NM Prep	

Analysis Batch: 67801

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5662-21	TT - 1 2'	Total/NA	Solid	8015B NM	67795
890-5662-22	TT - 1 3'	Total/NA	Solid	8015B NM	67795
890-5662-23	TT - 1 4'	Total/NA	Solid	8015B NM	67795
890-5662-24	TT - 2 0-1'	Total/NA	Solid	8015B NM	67795
890-5662-25	TT - 2 2'	Total/NA	Solid	8015B NM	67795
890-5662-26	TT - 2 3'R	Total/NA	Solid	8015B NM	67795
MB 880-67795/1-A	Method Blank	Total/NA	Solid	8015B NM	67795
LCS 880-67795/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	67795
LCSD 880-67795/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	67795
890-5662-21 MS	TT - 1 2'	Total/NA	Solid	8015B NM	67795
890-5662-21 MSD	TT - 1 2'	Total/NA	Solid	8015B NM	67795

Eurofins Carlsbad

QC Association Summary

Client: H & R Enterprises
Project/Site: GADWALL 18 FED COM #002H

Job ID: 890-5662-1
SDG: Eddy County NM

GC Semi VOA

Analysis Batch: 67840

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5662-1	S - 1 0-1'	Total/NA	Solid	8015 NM	
890-5662-2	S - 1 2'	Total/NA	Solid	8015 NM	
890-5662-3	S - 1 3'R	Total/NA	Solid	8015 NM	
890-5662-4	S - 2 0-1'	Total/NA	Solid	8015 NM	
890-5662-5	S - 2 2'R	Total/NA	Solid	8015 NM	
890-5662-6	S - 3 0-1'	Total/NA	Solid	8015 NM	
890-5662-7	S - 3 2'	Total/NA	Solid	8015 NM	
890-5662-8	S - 3 3'R	Total/NA	Solid	8015 NM	
890-5662-9	S - 4 0-1'	Total/NA	Solid	8015 NM	
890-5662-10	S - 4 2'	Total/NA	Solid	8015 NM	
890-5662-11	S - 4 3'R	Total/NA	Solid	8015 NM	
890-5662-12	S - 5 0-1'	Total/NA	Solid	8015 NM	
890-5662-13	S - 5 2'	Total/NA	Solid	8015 NM	
890-5662-14	S - 6 0-1'	Total/NA	Solid	8015 NM	
890-5662-15	S - 6 2'	Total/NA	Solid	8015 NM	
890-5662-16	S - 6 3'R	Total/NA	Solid	8015 NM	
890-5662-17	S - 7 0-1'	Total/NA	Solid	8015 NM	
890-5662-18	S - 7 2'	Total/NA	Solid	8015 NM	
890-5662-19	S - 7 3'R	Total/NA	Solid	8015 NM	
890-5662-20	TT - 1 0-1'	Total/NA	Solid	8015 NM	
890-5662-21	TT - 1 2'	Total/NA	Solid	8015 NM	
890-5662-22	TT - 1 3'	Total/NA	Solid	8015 NM	
890-5662-23	TT - 1 4'	Total/NA	Solid	8015 NM	
890-5662-24	TT - 2 0-1'	Total/NA	Solid	8015 NM	
890-5662-25	TT - 2 2'	Total/NA	Solid	8015 NM	
890-5662-26	TT - 2 3'R	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 67442

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5662-4	S - 2 0-1'	Soluble	Solid	DI Leach	
890-5662-5	S - 2 2'R	Soluble	Solid	DI Leach	
890-5662-6	S - 3 0-1'	Soluble	Solid	DI Leach	
890-5662-7	S - 3 2'	Soluble	Solid	DI Leach	
890-5662-8	S - 3 3'R	Soluble	Solid	DI Leach	
890-5662-9	S - 4 0-1'	Soluble	Solid	DI Leach	
890-5662-10	S - 4 2'	Soluble	Solid	DI Leach	
890-5662-11	S - 4 3'R	Soluble	Solid	DI Leach	
890-5662-12	S - 5 0-1'	Soluble	Solid	DI Leach	
890-5662-13	S - 5 2'	Soluble	Solid	DI Leach	
890-5662-14	S - 6 0-1'	Soluble	Solid	DI Leach	
890-5662-15	S - 6 2'	Soluble	Solid	DI Leach	
890-5662-16	S - 6 3'R	Soluble	Solid	DI Leach	
890-5662-17	S - 7 0-1'	Soluble	Solid	DI Leach	
890-5662-18	S - 7 2'	Soluble	Solid	DI Leach	
890-5662-19	S - 7 3'R	Soluble	Solid	DI Leach	
890-5662-20	TT - 1 0-1'	Soluble	Solid	DI Leach	
890-5662-21	TT - 1 2'	Soluble	Solid	DI Leach	
890-5662-22	TT - 1 3'	Soluble	Solid	DI Leach	
890-5662-23	TT - 1 4'	Soluble	Solid	DI Leach	

Eurofins Carlsbad

QC Association Summary

Client: H & R Enterprises
Project/Site: GADWALL 18 FED COM #002H

Job ID: 890-5662-1
SDG: Eddy County NM

HPLC/IC (Continued)

Leach Batch: 67442 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-67442/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-67442/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-67442/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-5662-4 MS	S - 2 0-1'	Soluble	Solid	DI Leach	
890-5662-4 MSD	S - 2 0-1'	Soluble	Solid	DI Leach	
890-5662-14 MS	S - 6 0-1'	Soluble	Solid	DI Leach	
890-5662-14 MSD	S - 6 0-1'	Soluble	Solid	DI Leach	

Leach Batch: 67543

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5662-24	TT - 2 0-1'	Soluble	Solid	DI Leach	
890-5662-25	TT - 2 2'	Soluble	Solid	DI Leach	
890-5662-26	TT - 2 3'R	Soluble	Solid	DI Leach	
MB 880-67543/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-67543/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-67543/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-5662-24 MS	TT - 2 0-1'	Soluble	Solid	DI Leach	
890-5662-24 MSD	TT - 2 0-1'	Soluble	Solid	DI Leach	

Analysis Batch: 67628

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5662-4	S - 2 0-1'	Soluble	Solid	300.0	67442
890-5662-5	S - 2 2'R	Soluble	Solid	300.0	67442
890-5662-6	S - 3 0-1'	Soluble	Solid	300.0	67442
890-5662-7	S - 3 2'	Soluble	Solid	300.0	67442
890-5662-8	S - 3 3'R	Soluble	Solid	300.0	67442
890-5662-9	S - 4 0-1'	Soluble	Solid	300.0	67442
890-5662-10	S - 4 2'	Soluble	Solid	300.0	67442
890-5662-11	S - 4 3'R	Soluble	Solid	300.0	67442
890-5662-12	S - 5 0-1'	Soluble	Solid	300.0	67442
890-5662-13	S - 5 2'	Soluble	Solid	300.0	67442
890-5662-14	S - 6 0-1'	Soluble	Solid	300.0	67442
890-5662-15	S - 6 2'	Soluble	Solid	300.0	67442
890-5662-16	S - 6 3'R	Soluble	Solid	300.0	67442
890-5662-17	S - 7 0-1'	Soluble	Solid	300.0	67442
890-5662-18	S - 7 2'	Soluble	Solid	300.0	67442
890-5662-19	S - 7 3'R	Soluble	Solid	300.0	67442
890-5662-20	TT - 1 0-1'	Soluble	Solid	300.0	67442
890-5662-21	TT - 1 2'	Soluble	Solid	300.0	67442
890-5662-22	TT - 1 3'	Soluble	Solid	300.0	67442
890-5662-23	TT - 1 4'	Soluble	Solid	300.0	67442
MB 880-67442/1-A	Method Blank	Soluble	Solid	300.0	67442
LCS 880-67442/2-A	Lab Control Sample	Soluble	Solid	300.0	67442
LCSD 880-67442/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	67442
890-5662-4 MS	S - 2 0-1'	Soluble	Solid	300.0	67442
890-5662-4 MSD	S - 2 0-1'	Soluble	Solid	300.0	67442
890-5662-14 MS	S - 6 0-1'	Soluble	Solid	300.0	67442
890-5662-14 MSD	S - 6 0-1'	Soluble	Solid	300.0	67442

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QC Association Summary

Client: H & R Enterprises
Project/Site: GADWALL 18 FED COM #002H

Job ID: 890-5662-1
SDG: Eddy County NM

HPLC/IC

Leach Batch: 67651

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5662-1	S - 1 0-1'	Soluble	Solid	DI Leach	
890-5662-2	S - 1 2'	Soluble	Solid	DI Leach	
890-5662-3	S - 1 3'R	Soluble	Solid	DI Leach	
MB 880-67651/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-67651/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-67651/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-5662-1 MS	S - 1 0-1'	Soluble	Solid	DI Leach	
890-5662-1 MSD	S - 1 0-1'	Soluble	Solid	DI Leach	

Analysis Batch: 67652

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5662-1	S - 1 0-1'	Soluble	Solid	300.0	67651
890-5662-2	S - 1 2'	Soluble	Solid	300.0	67651
890-5662-3	S - 1 3'R	Soluble	Solid	300.0	67651
MB 880-67651/1-A	Method Blank	Soluble	Solid	300.0	67651
LCS 880-67651/2-A	Lab Control Sample	Soluble	Solid	300.0	67651
LCSD 880-67651/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	67651
890-5662-1 MS	S - 1 0-1'	Soluble	Solid	300.0	67651
890-5662-1 MSD	S - 1 0-1'	Soluble	Solid	300.0	67651

Analysis Batch: 67661

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5662-24	TT - 2 0-1'	Soluble	Solid	300.0	67543
890-5662-25	TT - 2 2'	Soluble	Solid	300.0	67543
890-5662-26	TT - 2 3'R	Soluble	Solid	300.0	67543
MB 880-67543/1-A	Method Blank	Soluble	Solid	300.0	67543
LCS 880-67543/2-A	Lab Control Sample	Soluble	Solid	300.0	67543
LCSD 880-67543/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	67543
890-5662-24 MS	TT - 2 0-1'	Soluble	Solid	300.0	67543
890-5662-24 MSD	TT - 2 0-1'	Soluble	Solid	300.0	67543

Lab Chronicle

Client: H & R Enterprises
Project/Site: GADWALL 18 FED COM #002H

Job ID: 890-5662-1
SDG: Eddy County NM

Client Sample ID: S - 1 0-1'

Lab Sample ID: 890-5662-1

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	67647	11/22/23 14:02	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	67637	11/23/23 13:14	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67774	11/23/23 13:14	SM	EET MID
Total/NA	Analysis	8015 NM		1			67840	11/27/23 10:51	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	67701	11/27/23 09:35	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67684	11/27/23 10:51	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	67651	11/22/23 15:00	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	67652	11/22/23 18:37	CH	EET MID

Client Sample ID: S - 1 2'

Lab Sample ID: 890-5662-2

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	67647	11/22/23 14:02	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	67637	11/23/23 13:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67774	11/23/23 13:34	SM	EET MID
Total/NA	Analysis	8015 NM		1			67840	11/27/23 11:56	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	67701	11/27/23 09:35	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67684	11/27/23 11:56	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	67651	11/22/23 15:00	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	67652	11/22/23 18:56	CH	EET MID

Client Sample ID: S - 1 3'R

Lab Sample ID: 890-5662-3

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	67647	11/22/23 14:02	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	67637	11/23/23 13:55	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67774	11/23/23 13:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			67840	11/27/23 12:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	67701	11/27/23 09:35	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67684	11/27/23 12:18	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	67651	11/22/23 15:00	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	67652	11/22/23 19:03	CH	EET MID

Client Sample ID: S - 2 0-1'

Lab Sample ID: 890-5662-4

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	67647	11/22/23 14:02	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	67637	11/23/23 14:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67774	11/23/23 14:15	SM	EET MID

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Lab Chronicle

Client: H & R Enterprises
Project/Site: GADWALL 18 FED COM #002H

Job ID: 890-5662-1
SDG: Eddy County NM

Client Sample ID: S - 2 0-1'

Lab Sample ID: 890-5662-4

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			67840	11/27/23 12:40	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	67701	11/27/23 09:35	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67684	11/27/23 12:40	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	67442	11/20/23 15:01	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	67628	11/22/23 07:38	SMC	EET MID

Client Sample ID: S - 2 2'R

Lab Sample ID: 890-5662-5

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	67647	11/22/23 14:02	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	67637	11/23/23 14:36	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67774	11/23/23 14:36	SM	EET MID
Total/NA	Analysis	8015 NM		1			67840	11/27/23 13:02	SM	EET MID
Total/NA	Prep	8015NM Prep			9.93 g	10 mL	67701	11/27/23 09:35	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67684	11/27/23 13:02	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	67442	11/20/23 15:01	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	67628	11/22/23 07:57	SMC	EET MID

Client Sample ID: S - 3 0-1'

Lab Sample ID: 890-5662-6

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	67647	11/22/23 14:02	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	67637	11/23/23 14:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67774	11/23/23 14:56	SM	EET MID
Total/NA	Analysis	8015 NM		1			67840	11/27/23 13:24	SM	EET MID
Total/NA	Prep	8015NM Prep			9.96 g	10 mL	67701	11/27/23 09:35	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67684	11/27/23 13:24	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	67442	11/20/23 15:01	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	67628	11/22/23 08:04	SMC	EET MID

Client Sample ID: S - 3 2'

Lab Sample ID: 890-5662-7

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	67647	11/22/23 14:02	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	67637	11/23/23 15:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67774	11/23/23 15:17	SM	EET MID
Total/NA	Analysis	8015 NM		1			67840	11/27/23 13:46	SM	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	67701	11/27/23 09:35	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67684	11/27/23 13:46	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: H & R Enterprises
Project/Site: GADWALL 18 FED COM #002H

Job ID: 890-5662-1
SDG: Eddy County NM

Client Sample ID: S - 3 2'

Lab Sample ID: 890-5662-7

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.97 g	50 mL	67442	11/20/23 15:01	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	67628	11/22/23 08:11	SMC	EET MID

Client Sample ID: S - 3 3'R

Lab Sample ID: 890-5662-8

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	67647	11/22/23 14:02	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	67637	11/23/23 15:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67774	11/23/23 15:37	SM	EET MID
Total/NA	Analysis	8015 NM		1			67840	11/27/23 14:08	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	67701	11/27/23 09:35	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67684	11/27/23 14:08	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	67442	11/20/23 15:01	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	67628	11/22/23 08:17	SMC	EET MID

Client Sample ID: S - 4 0-1'

Lab Sample ID: 890-5662-9

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	67647	11/22/23 14:02	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	67637	11/23/23 15:58	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67774	11/23/23 15:58	SM	EET MID
Total/NA	Analysis	8015 NM		1			67840	11/27/23 14:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	67701	11/27/23 09:35	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67684	11/27/23 14:30	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	67442	11/20/23 15:01	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	67628	11/22/23 08:37	SMC	EET MID

Client Sample ID: S - 4 2'

Lab Sample ID: 890-5662-10

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	67647	11/22/23 14:02	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	67637	11/23/23 16:18	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67774	11/23/23 16:18	SM	EET MID
Total/NA	Analysis	8015 NM		1			67840	11/27/23 14:52	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	67701	11/27/23 09:35	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67684	11/27/23 14:52	SM	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	67442	11/20/23 15:01	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	67628	11/22/23 08:43	SMC	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: H & R Enterprises
Project/Site: GADWALL 18 FED COM #002H

Job ID: 890-5662-1
SDG: Eddy County NM

Client Sample ID: S - 4 3'R
Date Collected: 11/17/23 00:00
Date Received: 11/17/23 13:35

Lab Sample ID: 890-5662-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	67647	11/22/23 14:02	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	67637	11/23/23 17:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67774	11/23/23 17:41	SM	EET MID
Total/NA	Analysis	8015 NM		1			67840	11/27/23 15:35	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	67701	11/27/23 09:35	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67684	11/27/23 15:35	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	67442	11/20/23 15:01	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	67628	11/22/23 08:50	SMC	EET MID

Client Sample ID: S - 5 0-1'
Date Collected: 11/17/23 00:00
Date Received: 11/17/23 13:35

Lab Sample ID: 890-5662-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	67647	11/22/23 14:02	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	67637	11/23/23 18:01	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67774	11/23/23 18:01	SM	EET MID
Total/NA	Analysis	8015 NM		1			67840	11/27/23 15:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	67701	11/27/23 09:35	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67684	11/27/23 15:58	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	67442	11/20/23 15:01	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	67628	11/22/23 08:57	SMC	EET MID

Client Sample ID: S - 5 2'
Date Collected: 11/17/23 00:00
Date Received: 11/17/23 13:35

Lab Sample ID: 890-5662-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	67647	11/22/23 14:02	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	67637	11/23/23 18:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67774	11/23/23 18:22	SM	EET MID
Total/NA	Analysis	8015 NM		1			67840	11/27/23 16:19	SM	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	67701	11/27/23 09:35	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67684	11/27/23 16:19	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	67442	11/20/23 15:01	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	67628	11/22/23 09:03	SMC	EET MID

Client Sample ID: S - 6 0-1'
Date Collected: 11/17/23 00:00
Date Received: 11/17/23 13:35

Lab Sample ID: 890-5662-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	67647	11/22/23 14:02	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	67637	11/23/23 18:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67774	11/23/23 18:42	SM	EET MID

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Lab Chronicle

Client: H & R Enterprises
Project/Site: GADWALL 18 FED COM #002H

Job ID: 890-5662-1
SDG: Eddy County NM

Client Sample ID: S - 6 0-1'

Lab Sample ID: 890-5662-14

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			67840	11/27/23 16:42	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	67701	11/27/23 09:35	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67684	11/27/23 16:42	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	67442	11/20/23 15:01	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	67628	11/22/23 09:10	SMC	EET MID

Client Sample ID: S - 6 2'

Lab Sample ID: 890-5662-15

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	67647	11/22/23 14:02	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	67637	11/23/23 19:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67774	11/23/23 19:03	SM	EET MID
Total/NA	Analysis	8015 NM		1			67840	11/27/23 17:04	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	67701	11/27/23 09:35	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67684	11/27/23 17:04	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	67442	11/20/23 15:01	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	67628	11/22/23 09:29	SMC	EET MID

Client Sample ID: S - 6 3'R

Lab Sample ID: 890-5662-16

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	67647	11/22/23 14:02	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	67637	11/23/23 19:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67774	11/23/23 19:23	SM	EET MID
Total/NA	Analysis	8015 NM		1			67840	11/27/23 17:28	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	67701	11/27/23 09:35	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67684	11/27/23 17:28	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	67442	11/20/23 15:01	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	67628	11/22/23 09:36	SMC	EET MID

Client Sample ID: S - 7 0-1'

Lab Sample ID: 890-5662-17

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	67647	11/22/23 14:02	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	67637	11/23/23 19:43	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67774	11/23/23 19:43	SM	EET MID
Total/NA	Analysis	8015 NM		1			67840	11/27/23 17:51	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	67701	11/27/23 09:35	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67684	11/27/23 17:51	SM	EET MID

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Lab Chronicle

Client: H & R Enterprises
Project/Site: GADWALL 18 FED COM #002H

Job ID: 890-5662-1
SDG: Eddy County NM

Client Sample ID: S - 7 0-1'

Lab Sample ID: 890-5662-17

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.00 g	50 mL	67442	11/20/23 15:01	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	67628	11/22/23 09:56	SMC	EET MID

Client Sample ID: S - 7 2'

Lab Sample ID: 890-5662-18

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	67647	11/22/23 14:02	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	67637	11/23/23 20:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67774	11/23/23 20:04	SM	EET MID
Total/NA	Analysis	8015 NM		1			67840	11/27/23 18:12	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	67701	11/27/23 09:35	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67684	11/27/23 18:12	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	67442	11/20/23 15:01	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	67628	11/22/23 10:02	SMC	EET MID

Client Sample ID: S - 7 3'R

Lab Sample ID: 890-5662-19

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	67647	11/22/23 14:02	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	67637	11/23/23 20:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67774	11/23/23 20:24	SM	EET MID
Total/NA	Analysis	8015 NM		1			67840	11/27/23 18:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.10 g	10 mL	67701	11/27/23 09:35	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67684	11/27/23 18:33	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	67442	11/20/23 15:01	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	67628	11/22/23 10:09	SMC	EET MID

Client Sample ID: TT - 1 0-1'

Lab Sample ID: 890-5662-20

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	67647	11/22/23 14:02	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	67637	11/23/23 20:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67774	11/23/23 20:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			67840	11/27/23 18:54	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	67701	11/27/23 09:35	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67684	11/27/23 18:54	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	67442	11/20/23 15:01	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	67628	11/22/23 10:15	SMC	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: H & R Enterprises
Project/Site: GADWALL 18 FED COM #002H

Job ID: 890-5662-1
SDG: Eddy County NM

Client Sample ID: TT - 1 2'

Lab Sample ID: 890-5662-21

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	67739	11/27/23 10:51	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	67691	11/28/23 06:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67774	11/28/23 06:13	SM	EET MID
Total/NA	Analysis	8015 NM		1			67840	11/28/23 10:39	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	67795	11/27/23 17:59	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67801	11/28/23 10:39	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	67442	11/20/23 15:01	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	67628	11/22/23 10:22	SMC	EET MID

Client Sample ID: TT - 1 3'

Lab Sample ID: 890-5662-22

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	67739	11/27/23 10:51	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	67691	11/28/23 06:33	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67774	11/28/23 06:33	SM	EET MID
Total/NA	Analysis	8015 NM		1			67840	11/28/23 11:45	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	67795	11/27/23 17:59	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67801	11/28/23 11:45	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	67442	11/20/23 15:01	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	67628	11/22/23 10:28	SMC	EET MID

Client Sample ID: TT - 1 4'

Lab Sample ID: 890-5662-23

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	67739	11/27/23 10:51	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	67691	11/28/23 06:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67774	11/28/23 06:54	SM	EET MID
Total/NA	Analysis	8015 NM		1			67840	11/28/23 12:08	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	67795	11/27/23 17:59	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67801	11/28/23 12:08	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	67442	11/20/23 15:01	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	67628	11/22/23 10:35	SMC	EET MID

Client Sample ID: TT - 2 0-1'

Lab Sample ID: 890-5662-24

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	67739	11/27/23 10:51	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	67691	11/28/23 07:14	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67774	11/28/23 07:14	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: H & R Enterprises
Project/Site: GADWALL 18 FED COM #002H

Job ID: 890-5662-1
SDG: Eddy County NM

Client Sample ID: TT - 2 0-1'

Lab Sample ID: 890-5662-24

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			67840	11/28/23 12:30	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	67795	11/27/23 17:59	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67801	11/28/23 12:30	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	67543	11/21/23 11:10	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	67661	11/23/23 08:57	CH	EET MID

Client Sample ID: TT - 2 2'

Lab Sample ID: 890-5662-25

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	67739	11/27/23 10:51	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	67691	11/28/23 07:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67774	11/28/23 07:35	SM	EET MID
Total/NA	Analysis	8015 NM		1			67840	11/28/23 12:52	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	67795	11/27/23 17:59	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67801	11/28/23 12:52	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	67543	11/21/23 11:10	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	67661	11/23/23 09:17	CH	EET MID

Client Sample ID: TT - 2 3'R

Lab Sample ID: 890-5662-26

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	67739	11/27/23 10:51	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	67691	11/28/23 07:55	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67774	11/28/23 07:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			67840	11/28/23 13:14	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	67795	11/27/23 17:59	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67801	11/28/23 13:14	SM	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	67543	11/21/23 11:10	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	67661	11/23/23 09:23	CH	EET MID

Laboratory References:

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

Eurofins Carlsbad

Accreditation/Certification Summary

Client: H & R Enterprises
Project/Site: GADWALL 18 FED COM #002H

Job ID: 890-5662-1
SDG: Eddy County NM

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

- 1
- 2
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Method Summary

Client: H & R Enterprises
Project/Site: GADWALL 18 FED COM #002H

Job ID: 890-5662-1
SDG: Eddy County NM

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

Protocol References:

- ASTM = ASTM International
- EPA = US Environmental Protection Agency
- SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
- TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: H & R Enterprises
Project/Site: GADWALL 18 FED COM #002H

Job ID: 890-5662-1
SDG: Eddy County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-5662-1	S - 1 0-1'	Solid	11/17/23 00:00	11/17/23 13:35	0-1'
890-5662-2	S - 1 2'	Solid	11/17/23 00:00	11/17/23 13:35	2'
890-5662-3	S - 1 3'R	Solid	11/17/23 00:00	11/17/23 13:35	3'R
890-5662-4	S - 2 0-1'	Solid	11/17/23 00:00	11/17/23 13:35	0-1'
890-5662-5	S - 2 2'R	Solid	11/17/23 00:00	11/17/23 13:35	2'R
890-5662-6	S - 3 0-1'	Solid	11/17/23 00:00	11/17/23 13:35	0-1'
890-5662-7	S - 3 2'	Solid	11/17/23 00:00	11/17/23 13:35	2'
890-5662-8	S - 3 3'R	Solid	11/17/23 00:00	11/17/23 13:35	3'R
890-5662-9	S - 4 0-1'	Solid	11/17/23 00:00	11/17/23 13:35	0-1'
890-5662-10	S - 4 2'	Solid	11/17/23 00:00	11/17/23 13:35	2'
890-5662-11	S - 4 3'R	Solid	11/17/23 00:00	11/17/23 13:35	3'R
890-5662-12	S - 5 0-1'	Solid	11/17/23 00:00	11/17/23 13:35	0-1'
890-5662-13	S - 5 2'	Solid	11/17/23 00:00	11/17/23 13:35	2'R
890-5662-14	S - 6 0-1'	Solid	11/17/23 00:00	11/17/23 13:35	0-1'
890-5662-15	S - 6 2'	Solid	11/17/23 00:00	11/17/23 13:35	2'
890-5662-16	S - 6 3'R	Solid	11/17/23 00:00	11/17/23 13:35	3'R
890-5662-17	S - 7 0-1'	Solid	11/17/23 00:00	11/17/23 13:35	0-1'
890-5662-18	S - 7 2'	Solid	11/17/23 00:00	11/17/23 13:35	2'
890-5662-19	S - 7 3'R	Solid	11/17/23 00:00	11/17/23 13:35	3'R
890-5662-20	TT - 1 0-1'	Solid	11/17/23 00:00	11/17/23 13:35	0-1'
890-5662-21	TT - 1 2'	Solid	11/17/23 00:00	11/17/23 13:35	2'
890-5662-22	TT - 1 3'	Solid	11/17/23 00:00	11/17/23 13:35	3'
890-5662-23	TT - 1 4'	Solid	11/17/23 00:00	11/17/23 13:35	4'
890-5662-24	TT - 2 0-1'	Solid	11/17/23 00:00	11/17/23 13:35	0-1'
890-5662-25	TT - 2 2'	Solid	11/17/23 00:00	11/17/23 13:35	2'
890-5662-26	TT - 2 3'R	Solid	11/17/23 00:00	11/17/23 13:35	3'R

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Environment Testing

Xenco

Work Order No:

www.xenco.com Page 1 of 3



Project Manager: **M. COLLIER**
Company Name: **HAR ENTERPRISES**
Address:
City, State ZIP:
Phone: **575 409-0326**

Bill to: (if different)
Company Name: **LACI LULU**
Address:
City, State ZIP:
Email: **MCOLLIER@h-r-enterprises**

Program: ☐ UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADAPT ☐ Other:

Project Name: **6710 WALL 18 FERGUSON ROAD (GAD)**
Project Number:
Project Location: **EL PASO COUNTY, NM**
Sampler's Name: **R. BELL**
PO #:

Temp Blank: ☒ Yes ☐ No
Thermometer ID: **4711107**
Cooler Custody Seals: ☒ Yes ☐ No
Correction Factor: **0.2**
Sample Custody Seals: ☒ Yes ☐ No
Temperature Reading: **7.2**
Total Containers: **1.0**

Turn Around: ☒ Routine ☐ Rush
Due Date:
TAT starts the day received by the lab, if received by 4:30pm

Preservative Codes:
None: NO
DI Water: H₂O
Cool: Cool
MeOH: Me
HCL: HC
HNO₃: HN
H₂SO₄: H₂
NaOH: Na
H₃PO₄: HP
NaHSO₄: NABIS
Na₂S₂O₃: NaSO₃
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

ANALYSIS REQUEST									
Sample Identification					Parameters				
Sample ID	Depth	Time	Date	Matrix	Grab/Comp	Depth	Time	Date	Matrix
S-1 0-1'	0-1'	11-17-23	11-17-23	Soil	1	0-1'	11-17-23	11-17-23	Soil
S-1 2'	2'					2'			
S-1 3'R	3'R					3'R			
S-2 0-1'	0-1'					0-1'			
S-2 2'R	2'R					2'R			
S-3 0-1'	0-1'					0-1'			
S-3 2'	2'					2'			
S-3 3'R	3'R					3'R			
S-4 0-1'	0-1'					0-1'			
S-4 2'	2'					2'			

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn
(Circle Method(s) and Metal(s) to be analyzed) TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable 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 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 negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<i>R. Bell</i>	<i>abun</i>	11/17 13:28			

Revised Date: 08/25/2020 Rev. 2000.2

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
 Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Environment Testing

Xenoco



Work Order No:

www.xenoco.com Page 2 of 3

Project Manager:	<i>M. Collier</i>	Bill to: (if different)	
Company Name:	<i>Coterra Energy</i>	Company Name:	
Address:	<i>2410 E. 1st St.</i>	Address:	
City, State ZIP:	<i>Midland, TX 79701</i>	City, State ZIP:	
Phone:	<i>806-794-1296</i>	Email:	

Project Name:	<i>Coterra Energy</i>	Turn Around	☒ Routine ☐ Rush
Project Number:	<i>2410 E 1st St</i>	Due Date:	
Project Location:	<i>2410 E 1st St</i>	TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	<i>R. Bell</i>		
P.O. #:			

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Parameters		Preservative Codes
							Temp Blank:	Wet Ice:	
Yes	No	Yes	No	Yes	No	Yes	No		
S-4 3'R	Soil	11-17-23		3'R	Grab	1			None: NO
S-5 0-1'				0-1'					Cool: Cool
S-5 2'R				2'R					HCL: HC
S-6 0-1'				0-1'					HNO ₃ : HN
S-6 2'				2'					H ₂ SO ₄ : H ₂
S-6 3'R				3'R					H ₃ PO ₄ : HP
S-7 0-1'				0-1'					NaHSO ₄ : NABIS
S-7 2'				2'					Na ₂ S ₂ O ₃ : NaSO ₃
S-7 3'R				3'R					Zn Acetate+NaOH: Zn
TT-1 0-1'				0-1'					NaOH+Ascorbic Acid: SAPC

Total 2007/6010	2008/6020:	8RCRA 13PPM Texas 11	Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed	TCLP / SPLP 6010 : 8RCRA	Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U	Hg: 1631 / 245.1 / 7470 / 7471

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<i>R. Bell</i>	<i>adon</i>	11/17 17:25			

Revised Date: 08/25/2020 Rev: 2002

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Environment Testing

Xenco

Work Order No: _____

www.xenco.com Page 3 of 3

Project Manager:	<i>m Callan</i>	Bill to: (if different)	<i>Laci Cui</i>
Company Name:		Company Name:	
Address:	<i>2000</i>	Address:	
City, State ZIP:	<i>CFT</i>	City, State ZIP:	
Phone:		Email:	

Work Order Comments	
Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐	
State of Project:	
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐	
Deliverables: EDD ☐ ADAPT ☐ Other:	

SAMPLE RECEIPT		Temp Blank:		Temp Blank:		Thermometer ID:		Correction Factor:		Temperature Reading:		Corrected Temperature:		Turn Around		Pres. Code		ANALYSIS REQUEST		Preservative Codes		
Samples Received Intact:	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	None	NO	DI Water: H ₂ O	MeOH: Me	HCL: HC	HNO ₃ : HN	NaOH: Na	
Cooler Custody Seals:	Yes	No	NA																			
Sample Custody Seals:	Yes	No	NA																			
Total Containers:																						
SAMPLE RECEIVED: <i>11-17-23</i> TAT starts the day received by the lab, if received by 4:30pm Parameters: <i>CHLORIDES</i> Pres. Code: <i>1.0</i>																						
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Sample Comments															
TT-1 2'	SOIL	11-17-23		2'	GRAB	1	BTEX															
TT-1 3'				3'			CHLORIDES															
TT-1 4'				4'																		
TT-2 0-1'				0-1'																		
TT-2 2'				2'																		
TT-2 3'R				3'R																		

Total 200.7 / 6010	200.8 / 6020:	8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed		TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<i>Callan</i>	<i>adrian</i>	11/17 17:35			

Revised Date 08/25/2020 Rev. 2002

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Eurofins Carlsbad

1089 N Canal St
Carlsbad, NM 88220
Phone: 575-988-3199 Fax: 575-988-3199

Chain of Custody Record



Environment Testing

Client Information (Sub Contract Lab)		Sampler		Lab PM Kramer Jessica		Carrier Tracking No(s)		COC No 890-1832-1	
Client Contact		Phone		E-Mail Jessica.Kramer@eurofins.com		State of Origin New Mexico		Page: Page 1 of 3	
Shipping/Receiving				Accreditations Required (See note): NELAP - Texas				Job # 890-5662-1	
Company Eurofins Environment Testing South Centr		Due Date Requested 11/27/2023		Analysis Requested				Preservation Codes	
Address 1211 W Florida Ave		TAT Requested (days):						A. HCL B. NaOH C. Zn Acetate D. Nitric Acid E. NaHSO4 F. MeOH G. Amchlor H. Ascorbic acid I. Ice J. DI Water K. EDTA L. EDA Other	
City Midland								M. Hexane N. None O. -AsHClO2 P. Na2O4S Q. -Na2SO3 R. Na2S2O3 S. -H2SO4 T. TSP Dodecahydrate U. -Acetone V. MCAA W. pH 4-5 Y. Trizma Z. other (specify)	
State, Zip TX, 79701									
Phone 432-704-5440(Tel)		PO #							
Email GADWALL 19 FEDCOM #002H		WO #							
Project Name GADWALL 19 FEDCOM #002H		Project # 89000108							
Site SSOV#									
Sample Identification - Client ID (Lab ID)		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)		Matrix (W=water, S=solid, O=wastefoil, BI=tissue, AA=AI)	
S - 1 0-1' (890-5662-1)		11/17/23		Mountain		Solid		Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) 8021B/6035FP_Calc BTEX Total_BTEX_GCV 8015MOD_Calc 8015MOD_NM/8015NM_S_Prep Full TPH 300_ORGFM_28D/DI_LEACH Chloride Total Number of containers	
S - 1 2' (890-5662-2)		11/17/23		Mountain		Solid		1	
S - 1 3R (890-5662-3)		11/17/23		Mountain		Solid		1	
S - 2 0-1' (890-5662-4)		11/17/23		Mountain		Solid		1	
S - 2 2R (890-5662-5)		11/17/23		Mountain		Solid		1	
S - 3 0-1' (890-5662-6)		11/17/23		Mountain		Solid		1	
S - 3 2' (890-5662-7)		11/17/23		Mountain		Solid		1	
S - 3 3R (890-5662-8)		11/17/23		Mountain		Solid		1	
S - 4 0-1' (890-5662-9)		11/17/23		Mountain		Solid		1	
Note: Since laboratory accreditations are subject to change Eurofins Environment Testing South Central LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed the samples must be shipped back to the Eurofins Environment Testing South Central LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central LLC.									
Possible Hazard Identification									
Unconfirmed									
Deliverable Requested I, II, III, IV Other (specify) Primary Deliverable Rank: 2									
Empty Kit Relinquished by: Date/Time Company Method of Shipment: Date/Time Company									
Relinquished by: Date/Time Company Received by: Date/Time Company									
Relinquished by: Date/Time Company Received by: Date/Time Company									
Custody Seals Intact: Custody Seal No Cooler Temperature(s) °C and Other Remarks.									
Δ Yes Δ No									

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Eurofins Carlsbad

1089 N Canal St
Carlsbad NM 88220

Phone: 575-988-3199 Fax: 575-988-3199

Chain of Custody Record



Environment Testing

Client Information (Sub Contract Lab)		Sampler	Lab PM	Carrier Tracking No(s)	COC No
Client Contact:	Phone:	Kramer Jessica			890-1832 2
Shipping/Receiving	E-Mail:	Jessica.Kramer@et.eurofins.com	State of Origin:	Page 2 of 3	
Company:	Accreditations Required (See note):	NETAP - Texas	New Mexico		
Eurofins Environment Testing South Cent					
Address	Due Date Requested	11/27/2023	Analysis Requested		
1211 W Florida Ave,					
City:	TAT Requested (days)				
Midland					
State, Zip					
TX, 79701					
Phone:	PO #				
432-704-5440(Tel)					
Email:	WO #				
Project Name:	Project #	89000108			
GADWALL 18 FEDCOM #002H	SSOW#				
Site					
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Solid, Other)
S - 4	2 (890-5662-10)	11/17/23	Mountain		Solid
S - 4	3R (890-5662-11)	11/17/23	Mountain		Solid
S - 5	0-1' (890-5662-12)	11/17/23	Mountain		Solid
S - 5	2 (890-5662-13)	11/17/23	Mountain		Solid
S - 6	0-1' (890-5662-14)	11/17/23	Mountain		Solid
S - 6	2 (890-5662-15)	11/17/23	Mountain		Solid
S - 6	3R (890-5662-16)	11/17/23	Mountain		Solid
S - 7	0-1' (890-5662-17)	11/17/23	Mountain		Solid
S - 7	2 (890-5662-18)	11/17/23	Mountain		Solid
Note: Since laboratory accreditations are subject to change Eurofins Environment Testing South Central LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis, the matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central LLC.					
Possible Hazard Identification		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)			
Unconfirmed		☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months			
Deliverable Requested I II III IV Other (specify)		Primary Deliverable Rank: 2		Special Instructions/QC Requirements:	
Empty Kit Relinquished by:		Date	Time	Method of Shipment:	
Relinquished by:		Date/Time		Received by:	Date/Time
Relinquished by:		Date/Time		Received by:	Date/Time
Relinquished by:		Date/Time		Received by:	Date/Time
Custody Seals Intact:	Custody Seal No	Cooler Temperature(s) °C and Other Remarks:			
Δ Yes Δ No					

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Eurofins Carlsbad

1089 N Canal St.
Carlsbad NM 88220
Phone: 575-988-3199 Fax 575-988-3199

Chain of Custody Record



Environment Testing

Client Information (Sub Contract Lab)		Sampler:		Lab PM: Kramer, Jessica		Carrier Tracking No(s)		COC No: 890-1832-3	
Client Contact:		Phone		E-Mail: Jessica.Kramer@et.eurofins.com		State of Origin: New Mexico		Page 3 of 3	
Shipping/Receiving				Accreditations Required (See note): NELAP - Texas				Job #: 890-5662-1	
Company: Eurofins Environment Testing South Cent		Due Date Requested: 11/27/2023		Analysis Requested				Preservation Codes	
Address: 1211 W Florida Ave,		City: Midland		TAT Requested (days):				A. HCL B. NaOH C. Zn Acetate D. Nitric Acid E. NaHSO4 F. MeOH G. Amchlor H. Ascorbic Acid I. Ica J. DI Water K. EDTA L. EDA M. Hexane N. None O. AsNaO2 P. Na2O4S Q. Na2SO3 R. Na2S2O3 S. H2SO4 T. TSP Dodecalhydrate U. Acetone V. MCAA W. -pH 4.5 Y. Trizma Z - other (specify)	
State Zip: TX, 79701		PO #:							
Phone: 432-704-5440(Te)		WO #:							
Email:									
Project Name: GADWALL 18 FEDCOM #002H		Project #: 89000108							
Site:		SSOV#:							
Sample Identification - Client ID (Lab ID)		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)		Matrix (Hydrier Specimen, Brittle, AAR)	
S - 7 3R (890-5662-19)		11/17/23		Mountain		Solid		Field Filtered Sample (Yes or No) ☒	
TT - 1 0-1' (890-5662-20)		11/17/23		Mountain		Solid		Perform MS/MSD (Yes or No) ☒	
TT - 1 2' (890-5662-21)		11/17/23		Mountain		Solid		8021B/5035FP_Calc BTEX	
TT - 1 3' (890-5662-22)		11/17/23		Mountain		Solid		Total_BTEX_GCV	
TT - 1 4' (890-5662-23)		11/17/23		Mountain		Solid		8015MOD_Calc	
TT - 2 0-1' (890-5662-24)		11/17/23		Mountain		Solid		8015MOD_NM/8015NM_S_Prep Full TPH	
TT - 2 2' (890-5662-25)		11/17/23		Mountain		Solid		300_ORGFM_28D/DI_LEACH Chloride	
TT - 2 3R (890-5662-26)		11/17/23		Mountain		Solid		Total Number of containers	
								Special Instructions/Note	
Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Cental, LLC places the ownership of method analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Cental, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Cental, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Cental, LLC.									
Possible Hazard Identification									
Unconfirmed									
Deliverable Requested I II III IV, Other (specify) Primary Deliverable Rank: 2									
Empty Kit Relinquished by Date Time									
Relinquished by Date/Time Company Received by Date/Time Company									
Relinquished by Date/Time Company Received by Date/Time Company									
Custody Seals Intact: Custody Seal No Cooler Temperature(s) °C and Other Remarks									
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)									
Return To Client Disposal By Lab Archive For Months									
Special Instructions/QC Requirements									

Login Sample Receipt Checklist

Client: H & R Enterprises

Job Number: 890-5662-1

SDG Number: Eddy County NM

Login Number: 5662

List Number: 1

Creator: Bruns, Shannon

List Source: Eurofins Carlsbad

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	

Login Sample Receipt Checklist

Client: H & R Enterprises

Job Number: 890-5662-1

SDG Number: Eddy County NM

Login Number: 5662

List Number: 2

Creator: Kramer, Jessica

List Source: Eurofins Midland

List Creation: 11/20/23 10:41 AM

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.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
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	

From: [Ashton Thielke](#)
To: [Hall, Brittany, EMNRD](#)
Cc: [Laci Luig](#)
Subject: RE: [EXTERNAL] Historical Spill(s) - Incident Closure / Reclamation / Revegetation
Date: Thursday, March 7, 2024 8:26:57 AM
Attachments: [BLM Correspondence - Gadwall & DaVinci.pdf](#)

Good morning Brittany,

Please see the attached email correspondence between Laci and our BLM field inspector. They did a field/land and facility inspection and found no issues with the vegetation levels or status of the pasture related to the 3 NMOCD incidents below. One issue was found, a well sign issue and that has been addressed.

Let me know if you have any questions or need any additional information.

Thanks!



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

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

From: Hall, Brittany, EMNRD <Brittany.Hall@emnrd.nm.gov>
Sent: Monday, February 12, 2024 11:14 AM
To: Ashton Thielke <Ashton.Thielke@coterra.com>
Cc: Laci Luig <Laci.Luig@coterra.com>
Subject: RE: [EXTERNAL] Historical Spill(s) - Incident Closure / Reclamation / Revegetation

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Ashton,

Thanks for the update. I will wait on these until I hear back from you on whether the BLM is going to approve the vegetation growth at these sites or not.

If they do approve the revegetation, please send me a copy of their approval.

Thank you,

Brittany Hall ● Environmental Specialist

Environmental Bureau Projects Group

EMNRD - Oil Conservation Division

1000 Rio Brazos Road | Aztec, NM 87110

505.517.5333 | Brittany.Hall@emnrd.nm.gov

<http://www.emnrd.nm.gov/ocd/>

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 EMNRD Website prior to submitting any C-141s. The guidance documents can be found at <https://www.emnrd.nm.gov/ocd/ocd-announcements-and-notifications/> or <https://www.emnrd.nm.gov/ocd/ocd-forms/>.

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

Sent: Monday, February 12, 2024 10:05 AM

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

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

Subject: [EXTERNAL] Historical Spill(s) - Incident Closure / Reclamation / Revegetation

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Good morning Brittany,

Here's an update on some of those sites we discussed last week that were submitted as an incident closure, reclamation, and revegetation closure all in one.

nAB1518054044 - Gadwall 18 Federal Com #002H (4th Release)

nAB1518055632 - Gadwall 18 Federal Com #002H (2nd Release)

nAB1518141553 - DaVinci 7 Federal Com #003H

Just got off a meeting with Crisha at BLM (Surface owner for these 3 sites) and she is sending a field inspector to inspect vegetation regrowth along with our entire facility and lease roads...etc on Thursday.

Hopefully shortly thereafter, we can get the proper documentation to either full close out these incidents with the OCD or get bad news and resubmit these for \$150 as just incident closure.

I will keep you updated later this week on what the findings are.

Thanks!!



Ashton Thielke | PBU - Environmental Consultant

T: 432.813.8988 | M: 281.753.5659 | Ashton.Thielke@coterra.com | www.coterra.com

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Ashton Thielke

From: Laci Luig
Sent: Wednesday, March 6, 2024 8:09 PM
To: Ashton Thielke
Subject: FW: [EXTERNAL] RE: DA VINCI 7 FEDERAL COM #3h

Follow Up Flag: Follow up
Flag Status: Flagged

Please see BLM's response below.

Laci Luig
(432) 208-3035

From: Martinez-Colon, Jose F <jfmartinezcolon@blm.gov>
Sent: Tuesday, March 5, 2024 9:42 AM
To: Laci Luig <Laci.Luig@coterra.com>
Subject: Re: [EXTERNAL] RE: DA VINCI 7 FEDERAL COM #3h

Good morning Laci,

The location looked favorable during my inspection. Still, this is the standard official statement regarding approval of closures for undesirable events.

The **BLM acceptance/approval does not** relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that may pose a threat to groundwater, surface water, human health or the environment or if the location fails to reclaim properly. In such an event that the location does not re-vegetate, or future issues with contaminants are encountered, the operator will be asked to address the issues until the contaminant issues are fully mitigated and the location is successfully reclaimed. In addition, BLM approval does not relieve the operator of responsibility for compliance with any other federal, state, or local laws/regulations.

Please let me know if there are any concerns.

José F. Martínez-Colón

Environmental Protection Specialist

Contact: 575-234-5951

Bureau of Land Management | Carlsbad Field Office

620 E. Greene St.

Carlsbad, NM 88220

From: Laci Luig <Laci.Luig@coterra.com>
Sent: Monday, March 4, 2024 4:21 PM
To: Martinez-Colon, Jose F <jfmartinezcolon@blm.gov>
Subject: [EXTERNAL] RE: DA VINCI 7 FEDERAL COM #3h

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Jose,

Just to clarify, the BLM accepts the current condition of the surface ROW and pasture that we discussed at our 2/15/2024 on-site meeting and no further reclamation/re-seeding needs to take place at this time.

Laci Luig
(432) 208-3035

From: Martinez-Colon, Jose F <jfmartinezcolon@blm.gov>
Sent: Friday, February 23, 2024 3:16 PM
To: Laci Luig <Laci.Luig@coterra.com>
Subject: [EXTERNAL] DA VINCI 7 FEDERAL COM #3h

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.

Hi Laci,

Remember that other well that had the one spill? Get ready to laugh...

So, the Da Vinci Fed Com #3H well has a sign that has some number wrong, and it makes a lot of a difference because the one written actually belongs to a State Private well somewhere else. That Da Vinci well should read:

API 3001540203
Lease: NMNM100332

Case: NMNM136150

Everything else checks out on our end. Believe it or not I caught it by mistake, because the number on the sign was not in AFMSS, and that couldn't be for a well on Federal land.

Glad we caught this before someone else gave you any grief over it!

Best,

José F. Martínez-Colón

Environmental Protection Specialist

Contact: 575-234-5951

Bureau of Land Management | Carlsbad Field Office

620 E. Greene St.

Carlsbad, NM 88220

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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 299900

QUESTIONS

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd, Ste 300N Midland, TX 79706	OGRID: 162683
	Action Number: 299900
	Action Type: [C-141] Revegetation Report C-141 (C-141-v-Revegetation)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAB1518054044
Incident Name	NAB1518054044 GADWALL 18 FEDERAL COM #002H @ 30-015-39141
Incident Type	Produced Water Release
Incident Status	Re-vegetation Report Received
Incident Well	[30-015-39141] GADWALL 18 FEDERAL COM #002H

Location of Release Source	
<i>Please answer all the questions in this group.</i>	
Site Name	Gadwall 18 Federal Com #002H
Date Release Discovered	06/25/2015
Surface Owner	Federal

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

Nature and Volume of Release	
<i>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.</i>	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Equipment Failure Flow Line - Production Produced Water Released: 30 BBL Recovered: 0 BBL Lost: 30 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 299900

QUESTIONS (continued)

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd, Ste 300N Midland, TX 79706	OGRID:	162683
	Action Number:	299900
	Action Type:	[C-141] Revegetation Report C-141 (C-141-v-Revegetation)

QUESTIONS

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

Initial Response

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

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

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

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

I hereby agree and sign off to the above statement	Name: Laci Luig Title: ES&H Specialist Email: DL_PermianEnvironmental@coterra.com Date: 01/04/2024
--	---

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QUESTIONS, Page 3

Action 299900

QUESTIONS (continued)

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd, Ste 300N Midland, TX 79706	OGRID:	162683
	Action Number:	299900
	Action Type:	[C-141] Revegetation Report C-141 (C-141-v-Revegetation)

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)	Less than or equal 25 (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)	Greater than 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 ½ and 1 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 100 (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 1 and 100 (ft.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan

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

Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)

Chloride	(EPA 300.0 or SM4500 Cl B)	91.7
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	83.9
GRO+DRO	(EPA SW-846 Method 8015M)	83.9
BTEX	(EPA SW-846 Method 8021B or 8260B)	0
Benzene	(EPA SW-846 Method 8021B or 8260B)	0

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

On what estimated date will the remediation commence	01/01/2018
On what date will (or did) the final sampling or liner inspection occur	11/17/2023
On what date will (or was) the remediation complete(d)	01/01/2018
What is the estimated surface area (in square feet) that will be reclaimed	21000
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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QUESTIONS, Page 4

Action 299900

QUESTIONS (continued)

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd, Ste 300N Midland, TX 79706	OGRID:	162683
	Action Number:	299900
	Action Type:	[C-141] Revegetation Report C-141 (C-141-v-Revegetation)

QUESTIONS**Remediation Plan (continued)**

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

This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:

(Select all answers below that apply.)

(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Yes
Other Non-listed Remedial Process. Please specify	Site assessment resulted in no need for remediation, plant growth onsite shows no impact is onsite and has not had any environmental impact.

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

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

I hereby agree and sign off to the above statement	Name: Laci Luig Title: ES&H Specialist Email: DL_PermianEnvironmental@coterra.com Date: 01/04/2024
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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, Page 5

Action 299900

QUESTIONS (continued)

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd, Ste 300N Midland, TX 79706	OGRID: 162683
	Action Number: 299900
	Action Type: [C-141] Revegetation Report C-141 (C-141-v-Revegetation)

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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QUESTIONS, Page 6

Action 299900

QUESTIONS (continued)

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd, Ste 300N Midland, TX 79706	OGRID: 162683
	Action Number: 299900
	Action Type: [C-141] Revegetation Report C-141 (C-141-v-Revegetation)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	299854
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	11/17/2023
What was the (estimated) number of samples that were to be gathered	9
What was the sampling surface area in square feet	21000

Remediation Closure Request

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

Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	0
What was the total volume (cubic yards) remediated	0
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	21000
What was the total volume (in cubic yards) reclaimed	0
Summarize any additional remediation activities not included by answers (above)	Site assessment resulted in no need for remediation, plant growth onsite shows no impact is onsite and has not had any environmental impact.

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

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

I hereby agree and sign off to the above statement	Name: Laci Luig Title: ES&H Specialist Email: DL_PermianEnvironmental@coterra.com Date: 01/04/2024
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QUESTIONS, Page 7

Action 299900

QUESTIONS (continued)

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd, Ste 300N Midland, TX 79706	OGRID:	162683
	Action Number:	299900
	Action Type:	[C-141] Revegetation Report C-141 (C-141-v-Revegetation)

QUESTIONS**Reclamation Report**

Only answer the questions in this group if all reclamation steps have been completed.

Requesting a reclamation approval with this submission	Yes
What was the total reclamation surface area (in square feet) for this site	0
What was the total volume of replacement material (in cubic yards) for this site	0

Per Paragraph (1) of Subsection D of 19.15.29.13 NMAC the reclamation must contain a minimum of four feet of non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0, or other test methods approved by the division. The soil cover must include a top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater.

Is the soil top layer complete and is it suitable material to establish vegetation	Yes
On what (estimated) date will (or was) the reseeding commence(d)	01/01/2018

Summarize any additional reclamation activities not included by answers (above)	Site naturally reclaimed, see photos in attached document
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The responsible party must attach information demonstrating they have complied with all applicable reclamation requirements and any conditions or directives of the OCD. This demonstration should be in the form of attachments (in .pdf format) including a scaled site map, any proposed reseeding plans or relevant field notes, photographs of reclaimed area, and a narrative of the reclamation activities. Refer to 19.15.29.13 NMAC.

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

I hereby agree and sign off to the above statement	Name: Laci Luig Title: ES&H Specialist Email: DL_PermianEnvironmental@coterra.com Date: 01/04/2024
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QUESTIONS, Page 8

Action 299900

QUESTIONS (continued)

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd, Ste 300N Midland, TX 79706	OGRID: 162683
	Action Number: 299900
	Action Type: [C-141] Revegetation Report C-141 (C-141-v-Revegetation)

QUESTIONS

Revegetation Report	
<i>Only answer the questions in this group if all surface restoration, reclamation and re-vegetation obligations have been satisfied.</i>	
Requesting a restoration complete approval with this submission	Yes
What was the total revegetation surface area (in square feet) for this site	0
<i>Per Paragraph (2) of Subsection D of 19.15.29.13 NMAC the responsible party must reseed disturbed area in the first favorable growing season following closure of the site.</i>	
On what date did the reseeding commence	01/01/2018
On what date was the vegetative cover inspected	11/17/2023
What was the life form ratio compared to pre-disturbance levels	70
What was the total percent plant cover compared to pre-disturbance levels	70
Summarize any additional revegetation activities not included by answers (above)	Site naturally reclaimed, see photos in attached document
<i>The responsible party must attach information demonstrating they have complied with all applicable re-vegetation requirements and any conditions or directives of the OCD. This demonstration should be in the form of attachments (in .pdf format) including a scaled site map, any life form ratio and percent plant cover sampling diagrams or other relevant field notes, photographs of re-vegetated areas, and a narrative of the re-vegetation activities. Refer to 19.15.29.13 NMAC.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.	
I hereby agree and sign off to the above statement	Name: Laci Luig Title: ES&H Specialist Email: DL_PermianEnvironmental@coterra.com Date: 01/04/2024
<i>Per Paragraph (4) of Subsection (D) of 19.15.29.13 NMAC for any major or minor release containing liquids, the responsible party must notify the division when reclamation and re-vegetation are complete.</i>	

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CONDITIONS

Action 299900

CONDITIONS

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd, Ste 300N Midland, TX 79706	OGRID: 162683
	Action Number: 299900
	Action Type: [C-141] Revegetation Report C-141 (C-141-v-Revegetation)

CONDITIONS

Created By	Condition	Condition Date
bhall	The revegetation report has been approved pursuant to 19.15.29.13 E. NMAC. The acceptance of this 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; or if the location fails to revegetate properly. In addition, OCD approval does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.	3/7/2024