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

Site Assessment and Closure Report

Gadwall 18 Federal Com #003
Incident# nAB1718137369
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 **3, 2024**

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

Subject: **Site Assessment and Closure Report**
Gadwall 18 Federal Com #003
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 #003 is located approximately 17 miles South of Carlsbad, New Mexico. The legal location for this release is Unit Letter D, 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**

☐ 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 20, 2017, it was discovered that a nipple on the water transfer pump had failed. This caused the release of 20 barrels (bbls) of produced water onto the well pad behind the tank battery. A total of 4 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 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. This lab report also reflects data collected for a 2015 spill that ran over the same area on the well pad and into the pasture. Data presented in the table below only represents the 2017 spill covered in this report.

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	Cl mg/kg
NMOCD Table 1 Closure Criteria 19.15.29 NMAC			50 mg/kg	10 mg/kg	100 mg/kg			100 mg/kg	600 mg/kg
TT-1	11/17/2023	0-1'	ND	ND	ND	50.7	ND	50.7	70.9
		2'	ND	ND	ND	ND	ND	0	68.6
		3'	ND	ND	ND	ND	ND	0	67.6
		4'	ND	ND	ND	ND	ND	0	77
TT-2	11/17/2023	0-1'	ND	ND	ND	ND	ND	0	69.8
		2'	ND	ND	ND	ND	ND	0	70.4
		3' R	ND	ND	ND	ND	ND	0	73.8

ND = Analyte Not Detected TT = Test Trench

Based on our sampling results, we believe the site was previously remediated in 2017 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
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 #003

Cimarex Energy Co. of Colorado
Incident# nAB1718137369
Eddy County, NM
Site Assessment 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

TT-1
TT-2
S-1
S-7
S-2
S-3
S-4
S-5
S-6

Map included to show **all** samples associated with attached Chain of Custody from an overlapping spill that was assessed at the same time as this report.

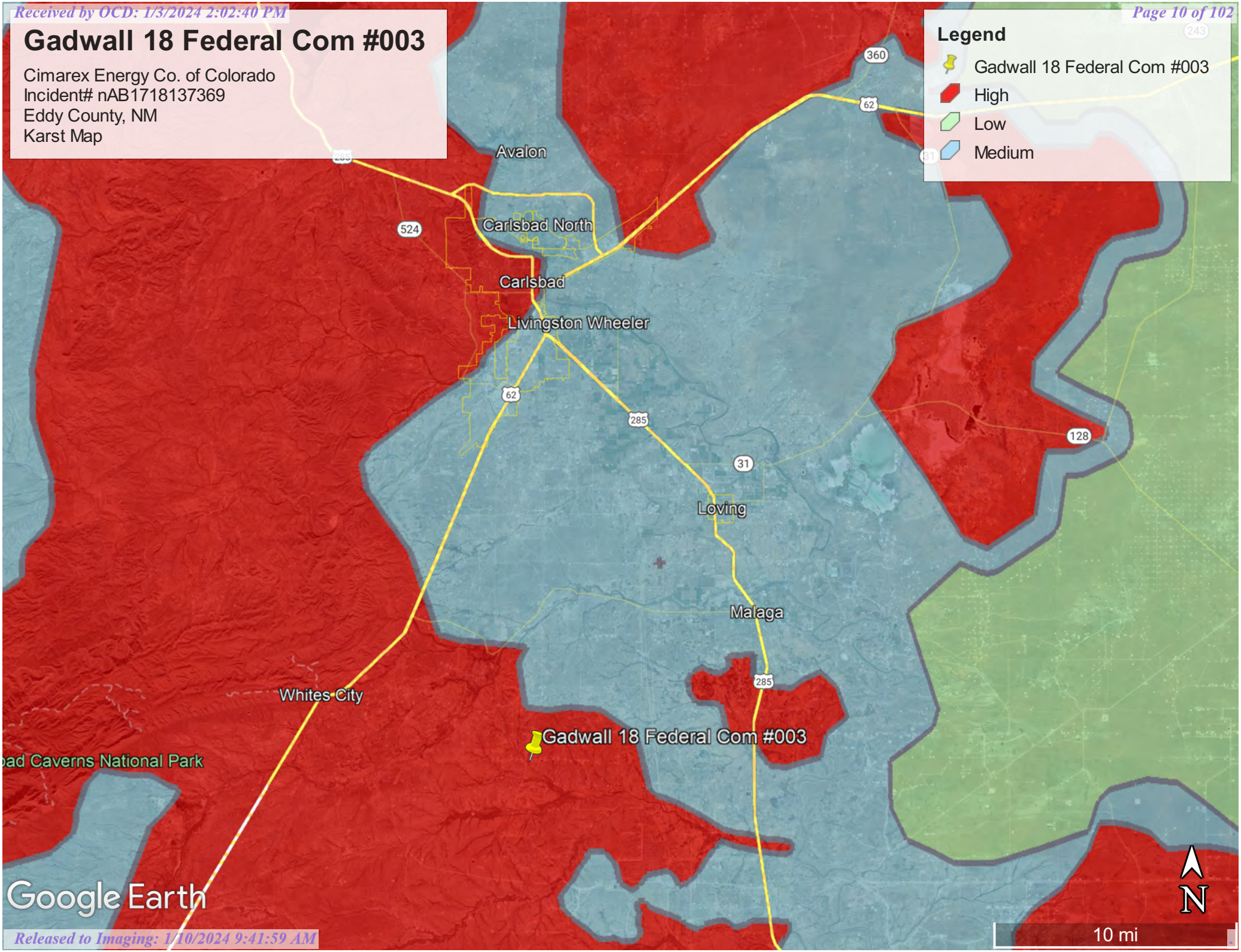
N

300 ft

Google Earth

Gadwall 18 Federal Com #003

Cimarex Energy Co. of Colorado
Incident# nAB1718137369
Eddy County, NM
Karst Map

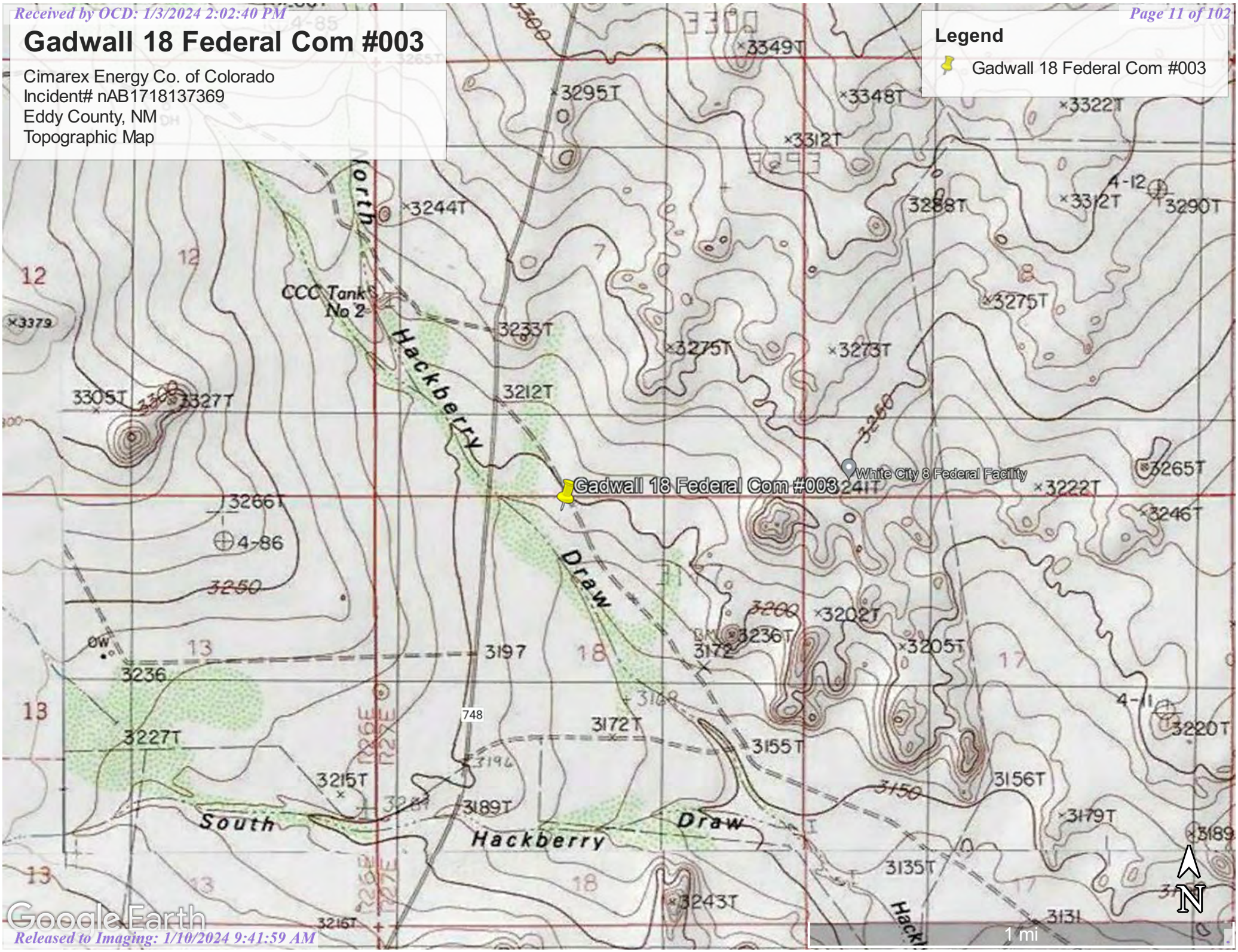


Gadwall 18 Federal Com #003

Cimarex Energy Co. of Colorado
Incident# nAB1718137369
Eddy County, NM
Topographic Map

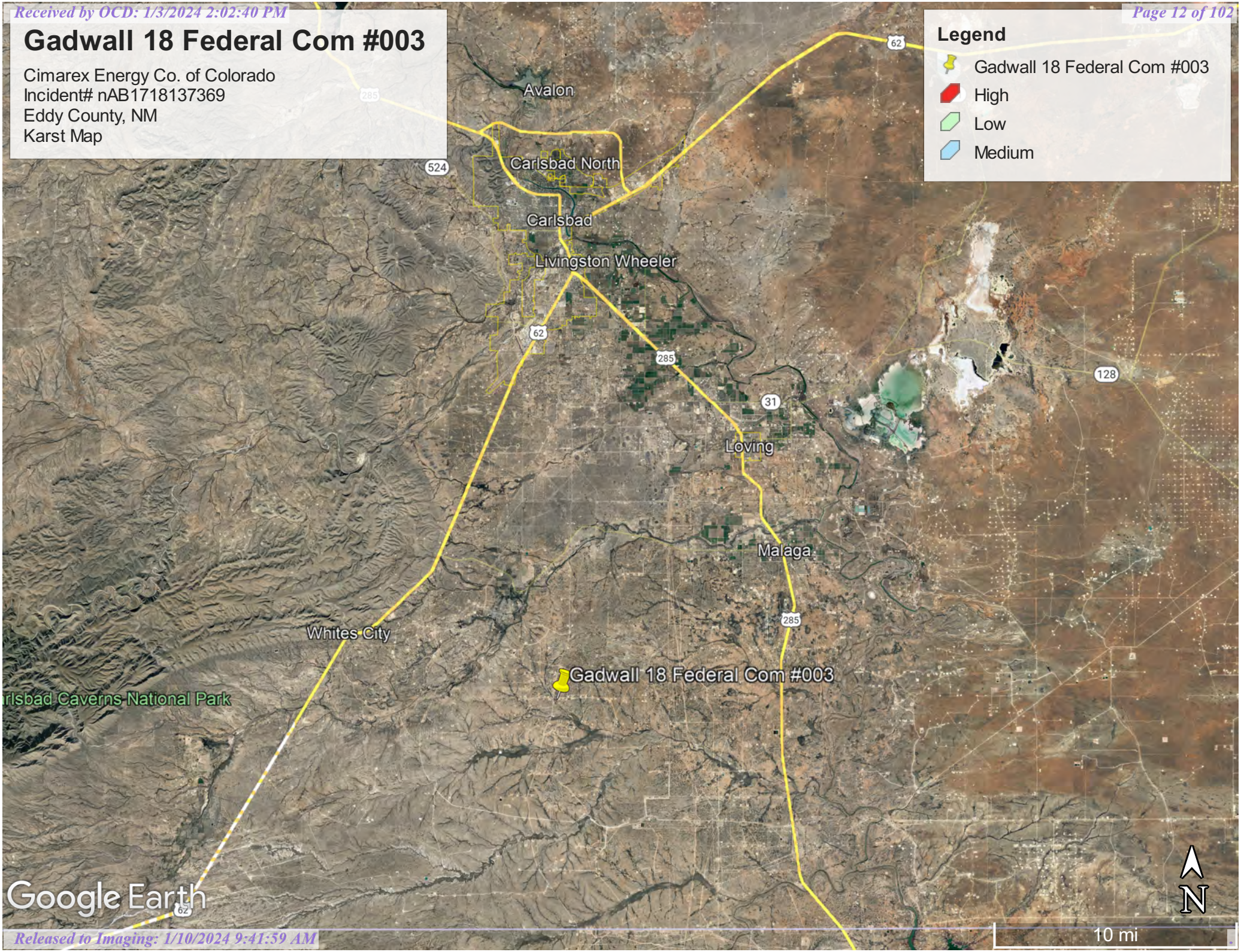
Legend

Gadwall 18 Federal Com #003



Gadwall 18 Federal Com #003

Cimarex Energy Co. of Colorado
Incident# nAB1718137369
Eddy County, NM
Karst Map



APPENDIX II

GROUNDWATER DATA

SOIL SURVEY

FEMA FLOOD ZONE

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

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

(R=POD has been replaced, O=orphaned, 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	Depth Well	Depth Water	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**

11/28/23 9:49 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER

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

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

Hydric soil rating: No

Data Source Information

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

National Flood Hazard Layer FIRMette

FEMA

104°14'8"W 32°8'28"N

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

1:6,000

104°13'31"W 32°7'57"N

Basemap Imagery Source: USGS National Map 2023

Legend

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

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

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

OTHER AREAS
- NO SCREEN Area of Minimal Flood Hazard *Zone X*
- Effective LOMRs
- Area of Undetermined Flood Hazard *Zone D*

GENERAL STRUCTURES
- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

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

MAP PANELS
- Digital Data Available
- No Digital Data Available
- Unmapped

N

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

NM OIL CONSERVATION
ARTESIA DISTRICT
JUN 26 2017
RECEIVED

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

nAB1718137369 — 1026083

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 Battery	Facility Type Production

Surface Owner BLM	Mineral Owner	API No. 30-015-39964

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
D	18	25S	27E	330	N	810	W	Eddy

Latitude 32.1362762 **Longitude** -104.2353287

NATURE OF RELEASE

Type of Release produced water	Volume of Release 20 bbls	Volume Recovered 4 bbls
Source of Release Transfer pump	Date and Hour of Occurrence 6/20/2017	Date and Hour of Discovery 6/20/2017
Was Immediate Notice Given? ☐ Yes ☒ No ☐ Not Required	If YES, To Whom?	
By Whom? Christine Alderman	Date and Hour 6/26/2017	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*
A ½" nipple failed on the water transfer pump.

Describe Area Affected and Cleanup Action Taken.*
All fluids stayed on location pad. Area approximately 60' x 30' x 1". Samples will be taken and area will be remediated.

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: Christine Alderman

Printed Name: Christine Alderman

Title: ES&I Supervisor

E-mail Address: calderman@cimarex.com

Date: Phone: 432-853-7059

OIL CONSERVATION DIVISION

Signed By Mike Bratcher

Approved by Environmental Specialist:

Approval Date: 6/29/17 Expiration Date: N/A

Conditions of Approval: See attached

Attached ☐

* Attach Additional Sheets If Necessary

Please refer to the New Mexico Oil Conservation Division Website for updated form(s) at: http://www.emnrd.state.nm.us/OCD/forms.html Thank you

2RP-4272

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

Location of spill: Gadwall 18 Federal Com #003 **Date of Spill:** 6/20/2017

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:

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

Total Surface Area	width		length		wet soil depth	oil (%)
Rectangle Area #1	60 ft	X	30 ft	X	5 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 #4	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 #7	0 ft	X	0 ft	X	0 in	0%
Rectangle Area #8	0 ft	X	0 ft	X	0 in	0%

Standing Liquid Calculations

Standing Liquid Area	width		length		liquid depth	oil (%)
Rectangle Area #1	0 ft	X	0 ft	X	0 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 #4	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 #7	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:

		H2O	OIL
Total Solid/Liquid Volume:	1,800 sq. ft.	795 cu. ft.	cu. ft.

Free Liquid Volume Calculations:

		H2O	OIL
Total Free Liquid Volume:	sq. ft.	.000 cu. ft.	.000 cu. ft.

Estimated Volumes Spilled

	H2O	OIL
Liquid in Soil:	19.8 BBL	0.0 BBL
Free Liquid:	0.0 BBL	0.0 BBL
Totals:	19.822 BBL	0.000 BBL
Total Liquid Spill Liquid:	19.822 BBL	0.000 BBL

Estimated Production Volumes Lost

	H2O	OIL
Estimated Production Spilled:	0.000000 BBL	0.000000 BBL

Estimated Surface Damage

Surface Area:	1,800 sq. ft.
Surface Area:	.0413 acre

Recovered Volumes

Estimated oil recovered:	0.0 BBL	check - okay
Estimated water recovered:	0.0 BBL	check - okay

Estimated Weights, and Volumes

Saturated Soil =	89,040 lbs	795 cu.ft.	29 cu.yds.
Total Liquid =	20 BBL	832.52 gallon	6,927 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

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: _____

State of New Mexico
Oil Conservation Division

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: Thursday, December 28, 2023 2:54 PM
To: Ashton Thielke
Cc: Laci Luig
Subject: RE: [EXTERNAL] NAB1718137369 - GADWALL 18 FEDERAL COM #003 - Variance Request (19.15.29.12.D.1.A-C)

Follow Up Flag: Follow up
Flag Status: Completed

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 NAB1718137369 - GADWALL 18 FEDERAL COM #003 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 EMRND 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: Tuesday, December 26, 2023 7:36 AM
To: Hall, Brittany, EMNRD <Brittany.Hall@emnrd.nm.gov>
Cc: Laci Luig <Laci.Luig@coterra.com>
Subject: [EXTERNAL] NAB1718137369 - GADWALL 18 FEDERAL COM #003 - 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,

COTERRA

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.

APPENDIX IV

PHOTOGRAPHIC DOCUMENTATION

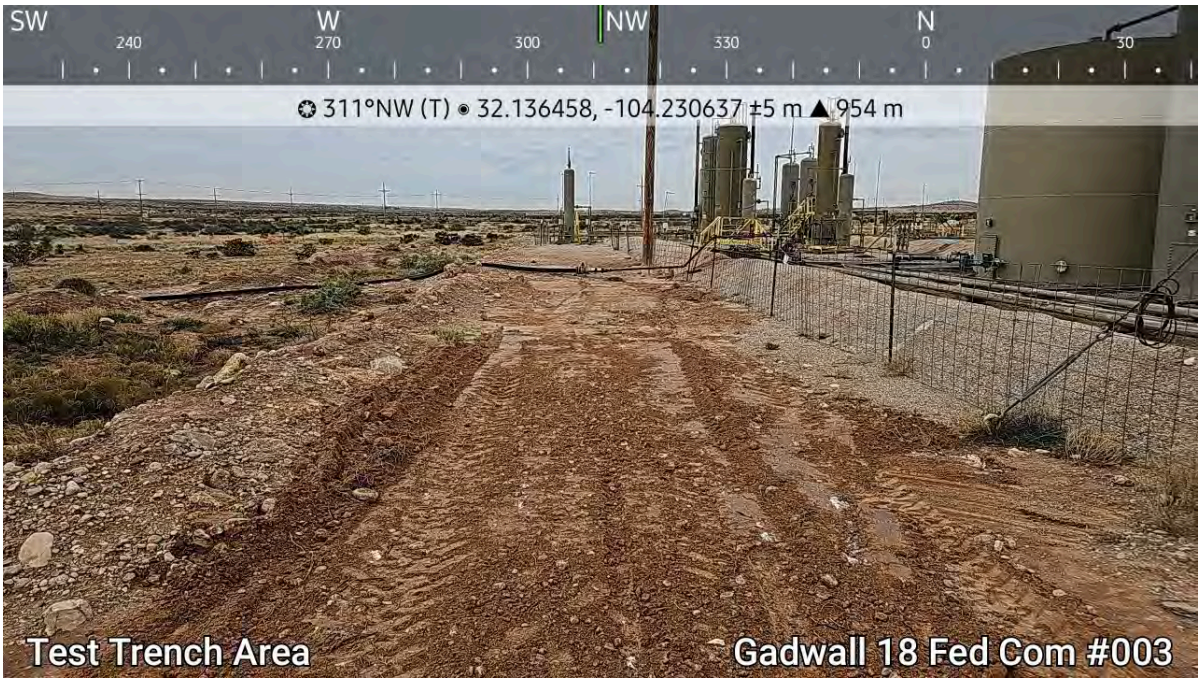
PHOTOGRAPHIC DOCUMENTATION

TEST TRENCH PHOTOGRAPHS

TT-1

TT-2

PHOTOGRAPHIC DOCUMENTATION



APPENDIX V

LABORATORY REPORTS

eurofins | Environment Testing

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

See page two for job notes and contact information.

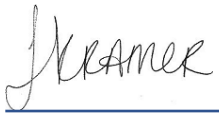
Eurofins Carlsbad

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

Table of Contents

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.

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
Matrix: Solid
Date Collected: 11/17/23 00:00
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
OII 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
Matrix: Solid
Date Collected: 11/17/23 00:00
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
Matrix: Solid
Date Collected: 11/17/23 00:00
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
OII 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
Matrix: Solid
Date Collected: 11/17/23 00:00
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
Matrix: Solid
Date Collected: 11/17/23 00:00
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
OII 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
Matrix: Solid
Date Collected: 11/17/23 00:00
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
OII 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*

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
Matrix: Solid
Date Collected: 11/17/23 00:00
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
Matrix: Solid
Date Collected: 11/17/23 00:00
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
OII 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

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
Matrix: Solid
Date Collected: 11/17/23 00:00
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
OII 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
Matrix: Solid
Date Collected: 11/17/23 00:00
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*

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
Matrix: Solid
Date Collected: 11/17/23 00:00
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
OII 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
Matrix: Solid
Date Collected: 11/17/23 00:00
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

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 - 3 3'R

Lab Sample ID: 890-5662-8
Matrix: Solid
Date Collected: 11/17/23 00:00
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
OII 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
Matrix: Solid
Date Collected: 11/17/23 00:00
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
OII 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*

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
Matrix: Solid
Date Collected: 11/17/23 00:00
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
Matrix: Solid
Date Collected: 11/17/23 00:00
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
OII 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

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
Matrix: Solid
Date Collected: 11/17/23 00:00
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
OII 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
Matrix: Solid
Date Collected: 11/17/23 00:00
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
Matrix: Solid
Date Collected: 11/17/23 00:00
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
OII 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
Matrix: Solid
Date Collected: 11/17/23 00:00
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
Matrix: Solid
Date Collected: 11/17/23 00:00
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
OII 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
Matrix: Solid
Date Collected: 11/17/23 00:00
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
OII 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*

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
Matrix: Solid
Date Collected: 11/17/23 00:00
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
Matrix: Solid
Date Collected: 11/17/23 00:00
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
OII 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

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
Matrix: Solid
Date Collected: 11/17/23 00:00
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
OII 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
Matrix: Solid
Date Collected: 11/17/23 00:00
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
Matrix: Solid
Date Collected: 11/17/23 00:00
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
OII 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
Matrix: Solid
Date Collected: 11/17/23 00:00
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
Matrix: Solid
Date Collected: 11/17/23 00:00
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
OII 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
Matrix: Solid
Date Collected: 11/17/23 00:00
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
OII 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*

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
Matrix: Solid
Date Collected: 11/17/23 00:00
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
Matrix: Solid
Date Collected: 11/17/23 00:00
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
OII 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

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
Matrix: Solid
Date Collected: 11/17/23 00:00
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
OII 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
Matrix: Solid
Date Collected: 11/17/23 00:00
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*

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
Matrix: Solid
Date Collected: 11/17/23 00:00
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
OII 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
Matrix: Solid
Date Collected: 11/17/23 00:00
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
Matrix: Solid
Date Collected: 11/17/23 00:00
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
OII 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
Matrix: Solid
Date Collected: 11/17/23 00:00
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
OII 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*

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
Matrix: Solid
Date Collected: 11/17/23 00:00
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
Matrix: Solid
Date Collected: 11/17/23 00:00
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
OII 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

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

Date Collected: 11/17/23 00:00
Date Received: 11/17/23 13:35
Sample Depth: 3'R

Lab Sample ID: 890-5662-26

Matrix: Solid

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
OII 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

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**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	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**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	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

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

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*

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

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

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 %Recovery	LCSD Qualifier	Limits
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 Result	MB 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 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
OII 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 %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
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 %Recovery	LCS Qualifier	Limits
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	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 %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	91		70 - 130
o-Terphenyl	100		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: 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 Result	MB 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 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
OII 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 %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
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

Surrogate	LCS %Recovery	LCS 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

Surrogate	LCSD %Recovery	LCSD 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
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

Surrogate	MS %Recovery	MS 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

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

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		

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
Matrix: Solid
Analysis Batch: 67661

Client Sample ID: TT - 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	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	

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	

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	

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

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	

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

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
Matrix: Solid
Date Collected: 11/17/23 00:00
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
Matrix: Solid
Date Collected: 11/17/23 00:00
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
Matrix: Solid
Date Collected: 11/17/23 00:00
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
Matrix: Solid
Date Collected: 11/17/23 00:00
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

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 - 2 0-1'

Lab Sample ID: 890-5662-4
Matrix: Solid
Date Collected: 11/17/23 00:00
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
Matrix: Solid
Date Collected: 11/17/23 00:00
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
Matrix: Solid
Date Collected: 11/17/23 00:00
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
Matrix: Solid
Date Collected: 11/17/23 00:00
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

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
Matrix: Solid
Date Collected: 11/17/23 00:00
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
Matrix: Solid
Date Collected: 11/17/23 00:00
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
Matrix: Solid
Date Collected: 11/17/23 00:00
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
Matrix: Solid
Date Collected: 11/17/23 00:00
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

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

Lab Sample ID: 890-5662-11
Matrix: Solid
Date Collected: 11/17/23 00:00
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	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'

Lab Sample ID: 890-5662-12
Matrix: Solid
Date Collected: 11/17/23 00:00
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 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'

Lab Sample ID: 890-5662-13
Matrix: Solid
Date Collected: 11/17/23 00:00
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 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'

Lab Sample ID: 890-5662-14
Matrix: Solid
Date Collected: 11/17/23 00:00
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 18:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67774	11/23/23 18:42	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 - 6 0-1'

Lab Sample ID: 890-5662-14
Matrix: Solid
Date Collected: 11/17/23 00:00
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
Matrix: Solid
Date Collected: 11/17/23 00:00
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
Matrix: Solid
Date Collected: 11/17/23 00:00
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
Matrix: Solid
Date Collected: 11/17/23 00:00
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

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
Matrix: Solid
Date Collected: 11/17/23 00:00
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
Matrix: Solid
Date Collected: 11/17/23 00:00
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
Matrix: Solid
Date Collected: 11/17/23 00:00
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
Matrix: Solid
Date Collected: 11/17/23 00:00
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

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
Matrix: Solid
Date Collected: 11/17/23 00:00
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
Matrix: Solid
Date Collected: 11/17/23 00:00
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
Matrix: Solid
Date Collected: 11/17/23 00:00
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
Matrix: Solid
Date Collected: 11/17/23 00:00
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

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
Matrix: Solid
Date Collected: 11/17/23 00:00
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
Matrix: Solid
Date Collected: 11/17/23 00:00
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
Matrix: Solid
Date Collected: 11/17/23 00:00
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

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

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

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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

Work Order No: _____

www.xenco.com Page 1 of 3

Project Manager:	M. COLLIER	Bill to: (if different)	LACI LUIG
Company Name:	H&R ENTERPRISES	Company Name:	COTERRA ENERGY
Address:		Address:	
City, State ZIP:		City, State ZIP:	
Phone:	575-909-0326	Email:	MCOLLIER@h-r-enterprises

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:

Project Name:	GAD WALL 18 FED COM # 602H	Turn Around	
Project Number:	(GAD)	☒ Routine ☐ Rush	
Project Location:	EDDY COUNTY, NM	Due Date:	
Sampler's Name:	R. BELL	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Samples Received Intact:	Yes No	Thermometer ID:	IR#07
Cooler Custody Seals:	Yes No N/A	Correction Factor:	0.2
Sample Custody Seals:	Yes No N/A	Temperature Reading:	1.2
Total Containers:		Corrected Temperature:	1.0

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: BTEX	TPH	CHLORIDES
S-1 0-1'	SOIL	11-17-23		0-1'	GRAB	1		X	X	X
S-1 2'				2'						
S-1 3' R				3' R						
S-2 0-1'				0-1'						
S-2 2' R				2' R						
S-3 0-1'				0-1'						
S-3 2'				2'						
S-3 3' R				3' R						
S-4 0-1'				0-1'						
S-4 2'				2'						

ANALYSIS REQUEST

890-5662 Chain of Custody

Preservative Codes

None: NO DI Water: H_2O
Cool: Cool MeOH: Me
HCL: HC HNO_3: HN
H_2SO_4: H_2 NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: NaSO$_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Comments

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 Tl 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 Tl U Hg: 1631 / 245.1 / 7470 / 7471

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 R Bell	abreu	11/17 13:35	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Chain of Custody

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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

Work Order No: _____

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Project Manager:	M Cuellar	Bill to: (if different)	Lacy Luig
Company Name:	CTE PALE	Company Name:	Caterra Energy
Address:		Address:	
City, State ZIP:		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:

Project Name:	Gaducyall	Turn Around	☒ Routine ☐ Rush
Project Number:		Pres. Code	
Project Location:	Eddy Cnty	Due Date:	
Sampler's Name:	R Bell	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Samples Received Intact:	Yes No	Thermometer ID:	
Cooler Custody Seals:	Yes No N/A	Correction Factor:	
Sample Custody Seals:	Yes No N/A	Temperature Reading:	
Total Containers:		Corrected Temperature:	

Preservative Codes

None: NO | DI Water: H_2O
Cool: Cool | MeOH: Me
HCL: HC | HNO_3: HN
H_2SO_4: H_2 | NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	BTEX	TPH	CHLORIDES	Sample Comments
S-4 3'R	SOIL	11-17-23		3'R	GRAB	1	X	X	X	
S-5 0-1'				0-1'						
S-5 2'R				2'R						
S-6 0-1'				0-1'						
S-6 2'				2'						
S-6 3'R				3'R						
S-7 0-1'				0-1'						
S-7 2'				2'						
S-7 3'R				3'R						
TT-1 0-1'				0-1'						

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 Tl 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 Tl U Hg: 1631 / 245.1 / 7470 / 7471

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		11/17 17:25	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

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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

Work Order No: _____

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Project Manager:	M Cullen	Bill to: (if different)	Laci Craig
Company Name:		Company Name:	
Address:		Address:	
City, State ZIP:		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:

Project Name:	Gaskell	Turn Around	
Project Number:		☒ Routine ☐ Rush	
Project Location:	Eddy Cnty	Due Date:	
Sampler's Name:	R Bell	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Samples Received Intact:	Yes No	Thermometer ID:	TRW007
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes No N/A	Temperature Reading:	1.2
Total Containers:		Corrected Temperature:	1.0

Preservative Codes

None: NO | DI Water: H_2O
Cool: Cool | MeOH: Me
HCL: HC | HNO_3: HN
H_2SO_4: H_2 | NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: NaSO$_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: BTEX	TPH	CHLORIDES	Sample Comments
TT-1 0-2'	SOIL	11-17-23		2'	GRAB	1		X	X	X	
TT-1 3'				3'							
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 Tl 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 Tl 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
1		11/17 17:35	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

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

Chain of Custody Record

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Client Information (Sub Contract Lab)	Sampler	Lab PM: Kramer Jessica	Carrier Tracking No(s)	COC No: 890-1832 1
Client Contact: Shipping/Receiving	Phone	E-Mail: Jessica Kramer@et.eurofinsus com	State of Origin: New Mexico	Page: Page 1 of 3
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP - Texas		Job #: 890-5662-1
Address: 1211 W Florida Ave	Due Date Requested: 11/27/2023			
City: Midland	TAT Requested (days):			
State, Zip: TX, 79701				
Phone: 432-704-5440(Tel)	PO #:			
Email	WO #:			
Project Name: GADWALL 18 FEDCOM #002H	Project #: 89000108			
Site	SSOW#:			

Analysis Requested

Preservation Codes

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, M Hexane, N None, O - AsNaO2, P Na2O4S, Q - Na2SO3, R Na2S2O3, S - H2SO4, T TSP Dodecahydrate, U - Acetone, V MCAA, W pH 4-5, Y Trizma, Z other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8021B/5035FP_Calc BTEX	Total_BTEX_GCV	8015MOD_Calc	8015MOD_NM/8015NM_S_Prep Full TPH	300_ORGFM_28D/DI_LEACH Chloride	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
S - 1 0-1' (890-5662-1)	11/17/23	Mountain		Solid			X	X	X	X	X	1	
S - 1 2' (890-5662-2)	11/17/23	Mountain		Solid			X	X	X	X	X	1	
S - 1 3'R (890-5662-3)	11/17/23	Mountain		Solid			X	X	X	X	X	1	
S - 2 0-1' (890-5662-4)	11/17/23	Mountain		Solid			X	X	X	X	X	1	
S - 2 2'R (890-5662-5)	11/17/23	Mountain		Solid			X	X	X	X	X	1	
S - 3 0-1' (890-5662-6)	11/17/23	Mountain		Solid			X	X	X	X	X	1	
S - 3 2' (890-5662-7)	11/17/23	Mountain		Solid			X	X	X	X	X	1	
S - 3 3'R (890-5662-8)	11/17/23	Mountain		Solid			X	X	X	X	X	1	
S - 4 0-1' (890-5662-9)	11/17/23	Mountain		Solid			X	X	X	X	X	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/tests/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*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *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:	Company	Received by:	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. Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks.

Ver: 06/08/2021

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

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler	Lab PM: Kramer Jessica	Carrier Tracking No(s)	COC No: 890-1832 2
Client Contact: Shipping/Receiving	Phone.	E-Mail: Jessica Kramer@et.eurofinsus com	State of Origin: New Mexico	Page: Page 2 of 3
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP - Texas		Job #: 890-5662-1
Address: 1211 W Florida Ave, ,	Due Date Requested: 11/27/2023			
City: Midland	TAT Requested (days):			
State, Zip: TX, 79701				
Phone: 432-704-5440(Tel)	PO #:			
Email:	WO #:			
Project Name: GADWALL 18 FEDCOM #002H	Project #: 89000108			
Site	SSOW#:			

Analysis Requested

Preservation Codes

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, M Hexane, N - None, O AsNaO2, P Na2O4S, Q Na2SO3, R Na2S2O3, S H2SO4, T TSP Dodecahydrate, U Acetone, V MCAA, W pH 4-5, Y Trizma, Z other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8021B/5035FP_Calc BTEX	Total_BTEX_GCV	8015MOD_Calc	8015MOD_NM/8015NM_S_Prep Full TPH	300_ORGFM_28D/DI_LEACH Chloride	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
S - 4 2' (890-5662-10)	11/17/23	Mountain		Solid			X	X	X	X	X	1	
S - 4 3'R (890-5662-11)	11/17/23	Mountain		Solid			X	X	X	X	X	1	
S - 5 0-1' (890-5662-12)	11/17/23	Mountain		Solid			X	X	X	X	X	1	
S - 5 2' (890-5662-13)	11/17/23	Mountain		Solid			X	X	X	X	X	1	
S - 6 0-1' (890-5662-14)	11/17/23	Mountain		Solid			X	X	X	X	X	1	
S - 6 2' (890-5662-15)	11/17/23	Mountain		Solid			X	X	X	X	X	1	
S - 6 3'R (890-5662-16)	11/17/23	Mountain		Solid			X	X	X	X	X	1	
S - 7 0-1' (890-5662-17)	11/17/23	Mountain		Solid			X	X	X	X	X	1	
S - 7 2' (890-5662-18)	11/17/23	Mountain		Solid			X	X	X	X	X	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/tests/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	Company	Received by:	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. Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks.

Ver: 06/08/2021

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

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler	Lab PM. Kramer Jessica	Carrier Tracking No(s)	COC No: 890-1832 3
Client Contact: Shipping/Receiving	Phone	E-Mail Jessica Kramer@et.eurofinsus com	State of Origin. New Mexico	Page: Page 3 of 3
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP - Texas		Job #: 890-5662-1
Address: 1211 W Florida Ave, ,	Due Date Requested: 11/27/2023			
City: Midland	TAT Requested (days):			
State Zip: TX, 79701				
Phone: 432-704-5440(Tel)	PO #:			
Email	WO #:			
Project Name: GADWALL 18 FEDCOM #002H	Project #: 89000108			
Site	SSOW#:			

Analysis Requested

Preservation Codes

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, M Hexane, N - None, O AsNaO2, P - Na2O4S, Q Na2SO3, R - Na2S2O3, S H2SO4, T TSP Dodecahydrate, U Acetone, V MCAA, W - pH 4-5, Y Trizma, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8021B/5035FP_Calc BTEX	Total_BTEX_GCV	8015MOD_Calc	8015MOD_NM/8015NM_S_Prep Full TPH	300_ORGFM_28D/DI_LEACH Chloride	Total Number of containers	Special Instructions/Note
			Preservation Code:										
S - 7 3'R (890-5662-19)	11/17/23	Mountain		Solid			X	X	X	X	X	1	
TT - 1 0-1' (890-5662-20)	11/17/23	Mountain		Solid			X	X	X	X	X	1	
TT - 1 2' (890-5662-21)	11/17/23	Mountain		Solid			X	X	X	X	X	1	
TT - 1 3' (890-5662-22)	11/17/23	Mountain		Solid			X	X	X	X	X	1	
TT - 1 4' (890-5662-23)	11/17/23	Mountain		Solid			X	X	X	X	X	1	
TT - 2 0-1' (890-5662-24)	11/17/23	Mountain		Solid			X	X	X	X	X	1	
TT - 2 2' (890-5662-25)	11/17/23	Mountain		Solid			X	X	X	X	X	1	
TT - 2 3'R (890-5662-26)	11/17/23	Mountain		Solid			X	X	X	X	X	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/tests/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:	Company	Received by	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: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks

Ver: 06/08/2021

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	

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State of New Mexico
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Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS

Action 299558

QUESTIONS

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd, Ste 300N Midland, TX 79706	OGRID: 162683
	Action Number: 299558
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAB1718137369**
Incident Name	**NAB1718137369 GADWALL 18 FEDERAL COM #003 @ 30-015-39964**
Incident Type	**Produced Water Release**
Incident Status	**Remediation Closure Report Received**
Incident Well	**[30-015-39964] GADWALL 18 FEDERAL COM #003**

Location of Release Source	
Please answer all the questions in this group.	
Site Name	Gadwall 18 Federal Com #003
Date Release Discovered	06/20/2017
Surface Owner	Federal

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	*Not answered.*
Produced Water Released (bbls) Details	Cause: Equipment Failure | Pump | Produced Water | Released: 20 BBL | Recovered: 4 BBL | Lost: 16 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 (continued)

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd, Ste 300N Midland, TX 79706	OGRID: 162683
	Action Number: 299558
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

Initial Response	
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: 01/03/2024

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QUESTIONS (continued)

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd, Ste 300N Midland, TX 79706	OGRID: 162683
	Action Number: 299558
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Site Characterization	
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	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	No

Remediation Plan	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	77
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	50.7
GRO+DRO (EPA SW-846 Method 8015M)	50.7
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	11/17/2023
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)	11/17/2023
What is the estimated surface area (in square feet) that will be reclaimed	0
What is the estimated volume (in cubic yards) that will be reclaimed	0
What is the estimated surface area (in square feet) that will be remediated	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 (continued)

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd, Ste 300N Midland, TX 79706	OGRID: 162683
	Action Number: 299558
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
(Select all answers below that apply.)	
(Ex Situ) Excavation and **off-site** disposal (i.e. dig and haul, hydrovac, etc.)	*Not answered.*
(Ex Situ) Excavation and **on-site** remediation (i.e. On-Site Land Farms)	*Not answered.*
(In Situ) Soil Vapor Extraction	*Not answered.*
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	*Not answered.*
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	*Not answered.*
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	*Not answered.*
Ground Water Abatement pursuant to 19.15.30 NMAC	*Not answered.*
OTHER (Non-listed remedial process)	Yes
Other Non-listed Remedial Process. Please specify	Assessment samples resulted in no need for remediation
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: 01/03/2024
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.	

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QUESTIONS (continued)

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd, Ste 300N Midland, TX 79706	OGRID: 162683
	Action Number: 299558
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Deferral Requests Only *Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.*	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS (continued)

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd, Ste 300N Midland, TX 79706	OGRID: 162683
	Action Number: 299558
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	**299557**
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	**2**
What was the sampling surface area in square feet	**400**

Remediation Closure Request	
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.	
Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	**Yes**
Was this release entirely contained within a lined containment area	**No**
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	0
What was the total volume (cubic yards) remediated	0
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	0
What was the total volume (in cubic yards) reclaimed	0
Summarize any additional remediation activities not included by answers (above)	No remediation or reclamation took place due to samples not resulting in any exceedances to the NMOCD spill rule. Will reclaim entire pad during P/A per normal operation

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: 01/03/2024

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS (continued)

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd, Ste 300N Midland, TX 79706	OGRID: 162683
	Action Number: 299558
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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CONDITIONS

Action 299558

CONDITIONS

Operator:	OGRID:
CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd, Ste 300N Midland, TX 79706	162683
	Action Number: 299558
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
bhall	Remediation Closure approved. A complete and accurate reclamation report will need to be submitted. The reclamation report will need to address all of the requirements of 19.15.29.13 NMAC including pictures of the reclaimed area, and a proposed revegetation plan. Subsequent to the approval of a reclamation plan, a revegetation report will need to be submitted, including pictures of the revegetated areas, once the site meets the requirements for vegetation cover found in 19.15.29.13 D.(3) NMAC. Per 19.15.29.13 E. NMAC, if a reclamation and revegetation report has been submitted to the surface owner, it may be used as long as the requirements of the surface owner provide equal or better protection of freshwater, human health and the environment.	1/10/2024