



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

Site Assessment and Closure Report

Gadwall 18 Federal Com #002H
Incident# nAB1518055632
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 #002H
Eddy County, NM

Dear Mr. Bratcher,

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

Site Information

The Gadwall 18 Federal Com #002H is located approximately 17 miles South of Carlsbad, New Mexico. The legal location for this release is Unit Letter C, Section 18, Township 25 South and Range 27 East in Eddy County, New Mexico. More specifically the latitude and longitude for the release are 32.137575 North and -104.229846 West. Site plans are presented in [Appendix I](#).

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

Groundwater and Site Characterization

The New Mexico Office of the State Engineer web site indicates that the nearest reported depth to groundwater is 14-feet below ground surface (BGS). See [Appendix II](#) for the referenced groundwater data.

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

Approximate Depth to Groundwater	14 Feet/BGS
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☐ Yes ☒ No	Within 300 feet of any continuously flowing watercourse or any other significant watercourse
☐ Yes ☒ No	Within 200 feet of any lakebed, sinkhole, or a playa lake
☐ Yes ☒ No	Within 300 feet from an occupied permanent residence, school, hospital, institution, or church
☐ Yes ☒ No	Within 500 feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes
☐ Yes ☒ No	Within 1000 feet of any freshwater well or spring
☐ Yes ☒ No	Within incorporated municipal boundaries or within a defined municipal freshwater well field covered under a municipal ordinance adopted pursuant to Section 3-2703 NMSA 1978
☒ Yes ☐ No	Within 300 feet of a wetland
☐ Yes ☒ No	Within the area overlying a subsurface mine
☒ Yes ☐ No	Within an unstable area
☒ Yes ☐ No	Within a 100-year floodplain

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

Table I			
Closure Criteria for Soils Impacted by a Release			
Minimum depth below any point within the horizontal boundary of the release to ground water less than 10,000 mg/l TDS	Constituent	Method*	Limit**
≤ 50 feet	Chloride **	EPA 300.0 or SM4500 CIB	600 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	100 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg

Incident Description

On June 21, 2015, it was discovered that a poly flowline ruptured on the ROW and down a two-track road. This caused the release of 15 barrels (bbls) of produced water. A total of 0 bbls of produced water were recovered.

Site Assessment Activities

On July 7, 2015 as well as May 04, 2016 samples were collected from the release area and transported to Cardinal and Hall laboratories for analysis. On November 17, 2023, H&R returned to the site to collect samples from the historical release area by way of hand auger in order to gather data to find out if any contamination was still present. Samples collected were transported to Cardinal Laboratory for analysis. The results of this analysis and the results from the two previous sampling events are presented in the following data table. Site assessment sampling locations are illustrated on Site Assessment Map, [Appendix I](#). Photographic documentation is attached in [Appendix IV](#). Complete laboratory reports can be found in [Appendix V](#).

Table 1: 2015-16 and 2023 Site Assessment Soil Samples Analysis Pg. 1

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
SP-1	7/7/2015	3'	ND	ND	ND	ND	ND	0	256
S-1	11/17/2023	0-1'	ND	ND	ND	ND	ND	0	86
		2'	ND	ND	ND	ND	ND	0	89.5
		3'	ND	ND	ND	ND	ND	0	79.4
		4'	ND	ND	ND	ND	ND	0	90.8
SP-2	7/7/2015	3'	ND	ND	ND	ND	ND	0	624
S-2	11/17/2023	0-1'	ND	ND	ND	ND	ND	0	102
		2' R	ND	ND	ND	ND	ND	0	95.4
SP-3	7/7/2015	3'	ND	ND	ND	ND	ND	0	496
S-3	11/17/2023	0-1' R	ND	ND	ND	ND	ND	0	83.8
SP-4	7/7/2015	3'	ND	ND	ND	ND	ND	0	416
S-4	11/17/2023	0-1' R	ND	ND	ND	ND	ND	0	88.1
SP-5	5/4/2016	1'	ND	ND	ND	120	ND	120	92
		2'	ND	ND	ND	130	ND	130	110
S-5	11/17/2023	0-1'	ND	ND	ND	ND	ND	0	95.8
		2' R	ND	ND	ND	ND	ND	0	110
SP-6	7/7/2015	3'	ND	ND	ND	ND	ND	0	368
S-6	11/17/2023	0-1'	ND	ND	ND	ND	ND	0	97
		2'	ND	ND	ND	ND	ND	0	91.6
		3' R	ND	ND	ND	ND	ND	0	101
SP-7	7/7/2015	4'	ND	ND	ND	ND	ND	0	192
S-7	11/17/2023	0-1'	ND	ND	ND	ND	ND	0	79
		2' R	ND	ND	ND	ND	ND	0	37.1
SP-8	7/7/2015	3'	ND	ND	ND	ND	ND	0	48
S-8	11/17/2023	0-1'	ND	ND	ND	ND	ND	0	83.9
		2'	ND	ND	ND	ND	ND	0	82.2
		3' R	ND	ND	ND	ND	ND	0	86.4
SP-9	5/4/2016	1'	ND	ND	ND	400	ND	400	140
		2'	ND	ND	ND	96	ND	96	140
S-9	11/17/2023	0-1'	ND	ND	ND	ND	ND	0	81.7
		2'	ND	ND	ND	ND	ND	0	85.4
		3' R	ND	ND	ND	51.1	ND	51.1	61.8

ND = Analyte Not Detected SP = Sample Point from 2015/2016 S = Sample Point from 2023

Table 1: 2015-16 and 2023 Site Assessment Soil Samples Analysis Pg. 2

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
SP-10	7/7/2015	4'	ND	ND	ND	ND	ND	0	336
S-10	11/17/2023	0-1'	ND	ND	ND	ND	ND	0	63.4
		2'	ND	ND	ND	ND	ND	0	60.2
		3' R	ND	ND	ND	54.7	ND	54.7	65.3
SP-11	7/7/2015	3'	ND	ND	ND	ND	ND	0	320
S-11	11/17/2023	0-1'	ND	ND	ND	ND	ND	0	67.3
		2' R	ND	ND	ND	ND	ND	0	64.7
SP-12	7/7/2015	3'	ND	ND	ND	ND	ND	0	1230
	5/4/2016	4'	ND	ND	ND	420	ND	420	120
		5'	ND	ND	ND	420	ND	420	120
S-12	11/17/2023	0-1'	ND	ND	ND	ND	ND	0	66.5
		2' R	ND	ND	ND	ND	ND	0	72.6
SP-13	7/7/2015	3'	ND	ND	ND	ND	ND	0	224
S-13	11/17/2023	0-1'	ND	ND	ND	51.3	ND	51.3	59.4
		2'	ND	ND	ND	ND	ND	0	66
		3' R	ND	ND	ND	ND	ND	0	71.5
SP-14	7/7/2015	3'	ND	ND	ND	ND	ND	0	1010
S-14	11/17/2023	0-1'	ND	ND	ND	ND	ND	0	72.6
		2' R	ND	ND	ND	ND	ND	0	58
SP-15	7/7/2015	3'	ND	ND	ND	ND	ND	0	2840
	5/4/2016	4'	ND	ND	ND	360	ND	360	130
		5'	ND	ND	ND	370	ND	370	110
S-15	11/17/2023	0-1'	ND	ND	ND	ND	ND	0	65.1
		2' R	ND	ND	ND	ND	ND	0	69.4
H-1	11/17/2023	0-1'	ND	ND	ND	ND	ND	0	56.4
H-2	11/17/2023	0-1'	ND	ND	ND	ND	ND	0	52.4
H-3	11/17/2023	0-1'	ND	ND	ND	ND	ND	0	62.4
H-4	11/17/2023	0-1'	ND	ND	ND	ND	ND	0	54.4
H-5	11/17/2023	0-1'	ND	ND	ND	ND	ND	0	57.3
H-6	11/17/2023	0-1'	ND	ND	ND	ND	ND	0	50.3
H-7	11/17/2023	0-1'	ND	ND	ND	ND	ND	0	50.2
H-8	11/17/2023	0-1'	ND	ND	ND	ND	ND	0	52.8
H-9	11/17/2023	0-1'	ND	ND	ND	ND	ND	0	53
H-10	11/17/2023	0-1'	ND	ND	ND	ND	ND	0	60
H-11	11/17/2023	0-1'	ND	ND	ND	ND	ND	0	71.8

ND = Analyte Not Detected SP = Sample Point from 2015/2016 S = Sample Point from 2023

Closure

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

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

Respectfully submitted,

H&R Enterprises, LLC

Michael Collier

Michael Collier
Environmental Project Manager

Attachments:

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

APPENDIX I

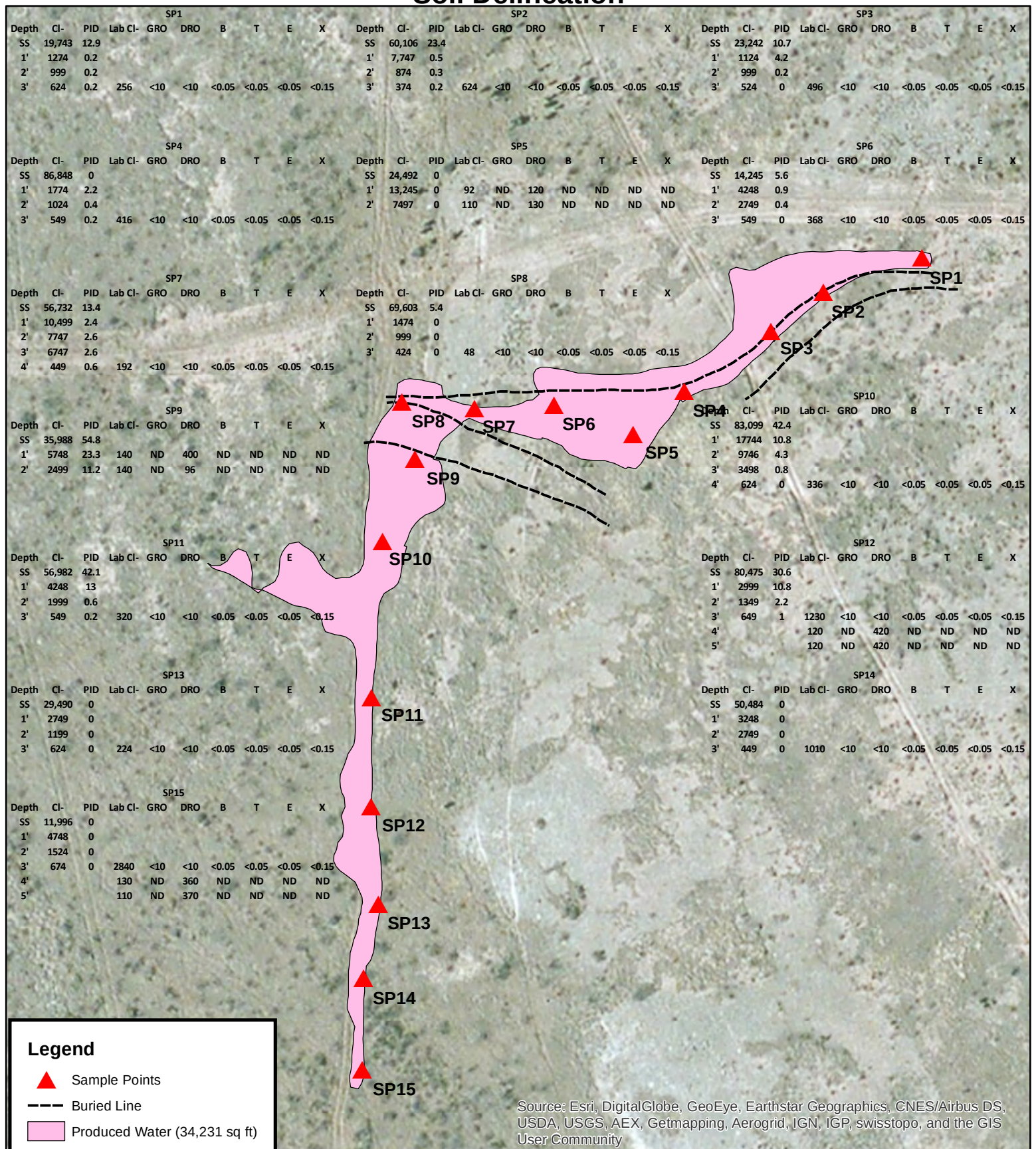
SITE MAPS

KARST MAP

TOPOGRAPHIC MAP

LOCATOR MAP

Soil Delineation



Cimarex
Gadwell 18 Fed Com #2
(Second Release)
Unit Letter C, Section 18, T25S, R37E
API #: 30-015-39141
NMOCD Case #: 2R-3078

Drafted by: L Flores
 Date: 04/11/2016

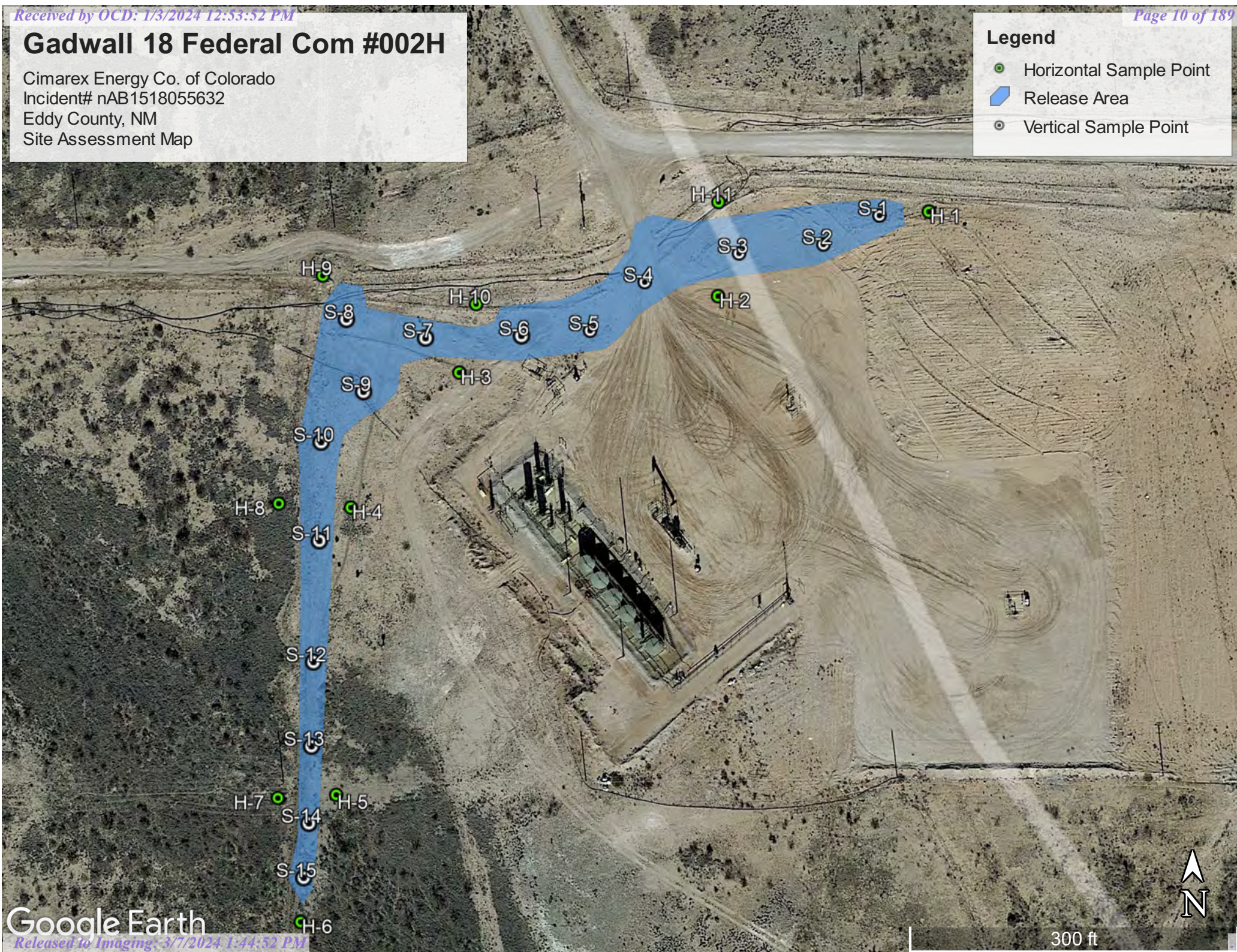
0 20 40 80 120 160
 Feet

Gadwall 18 Federal Com #002H

Cimarex Energy Co. of Colorado
Incident# nAB1518055632
Eddy County, NM
Site Assessment Map

Legend

- Horizontal Sample Point
- Release Area
- Vertical Sample Point

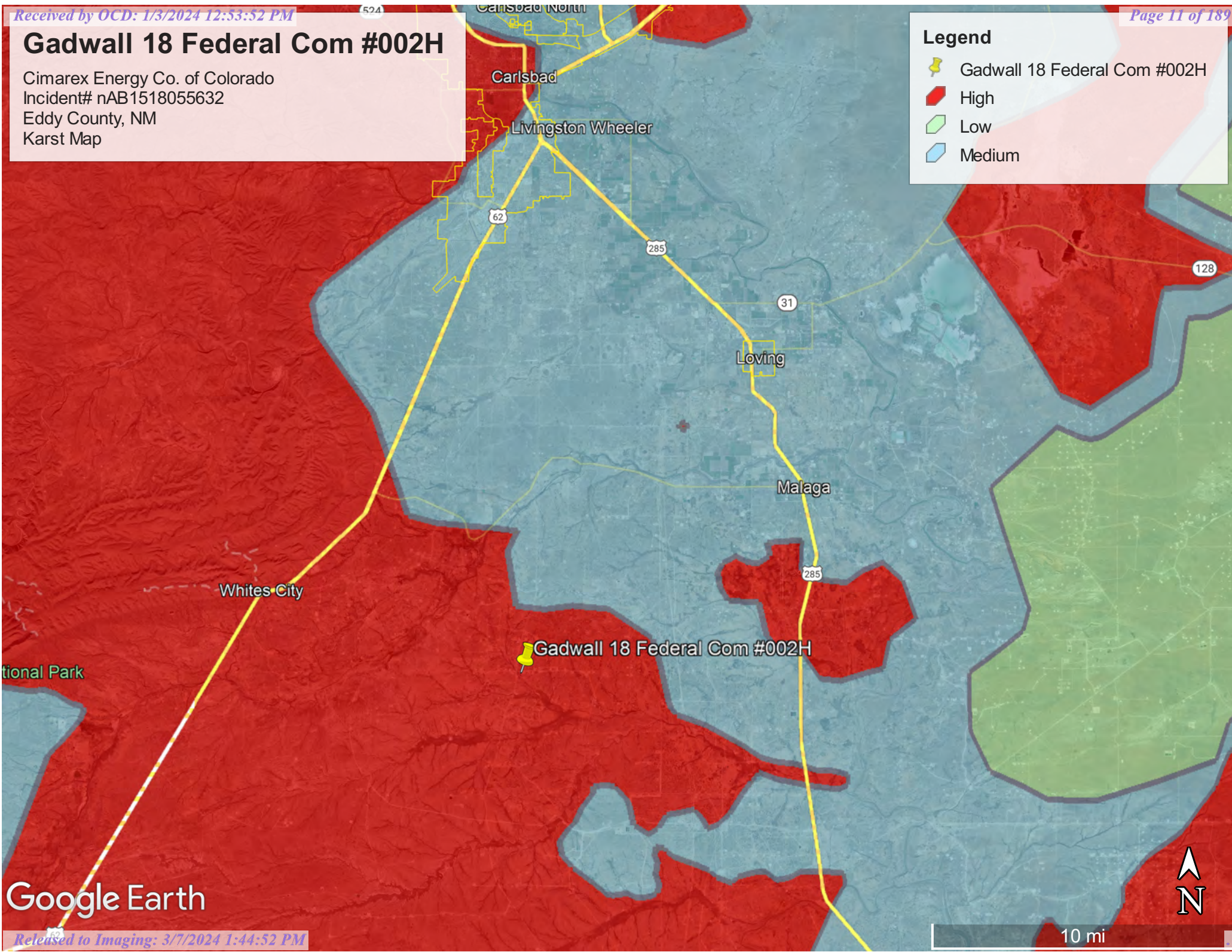


Gadwall 18 Federal Com #002H

Cimarex Energy Co. of Colorado
Incident# nAB1518055632
Eddy County, NM
Karst Map

Legend

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



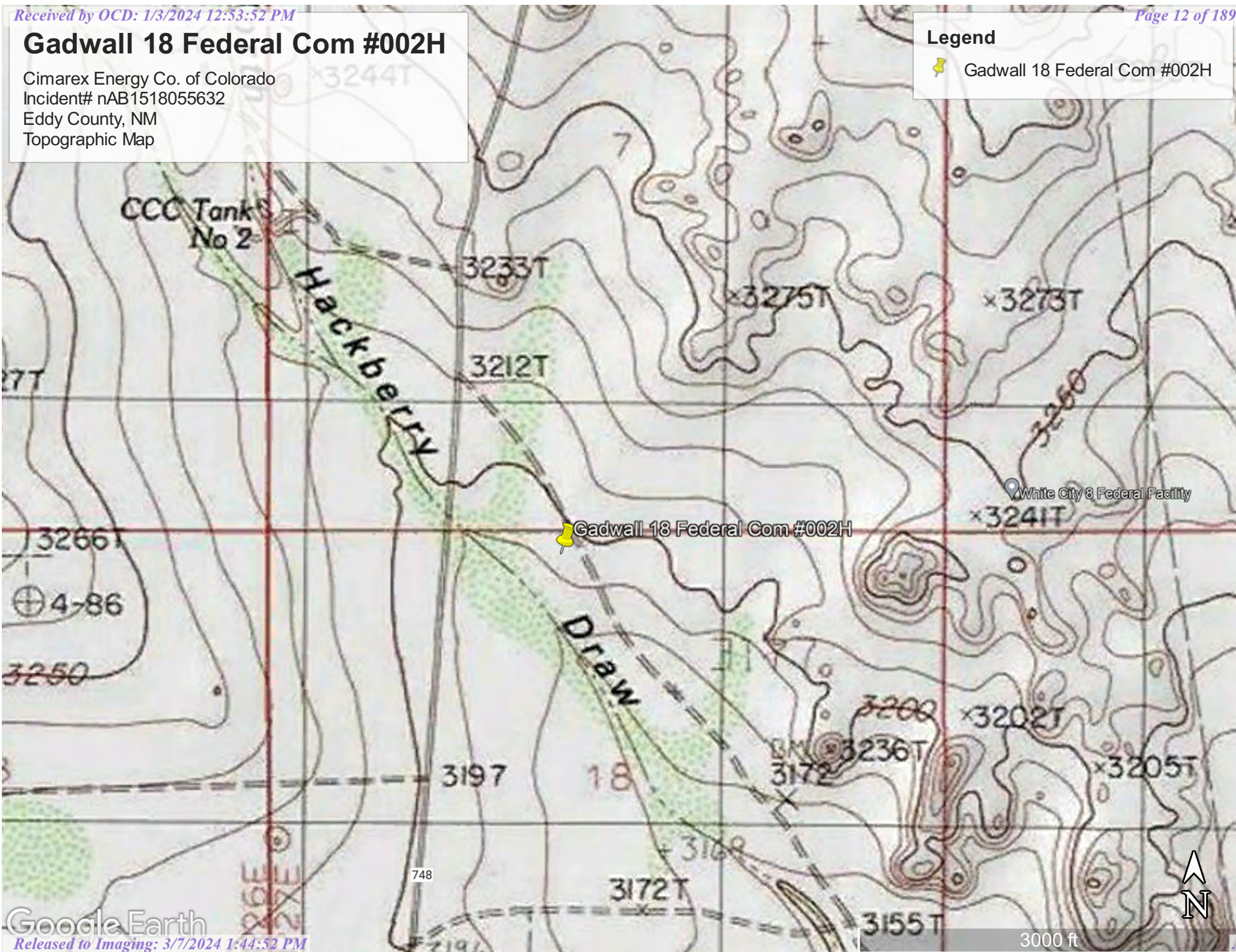
Google Earth

Gadwall 18 Federal Com #002H

Cimarex Energy Co. of Colorado
Incident# nAB1518055632
Eddy County, NM
Topographic Map

Legend

 Gadwall 18 Federal Com #002H

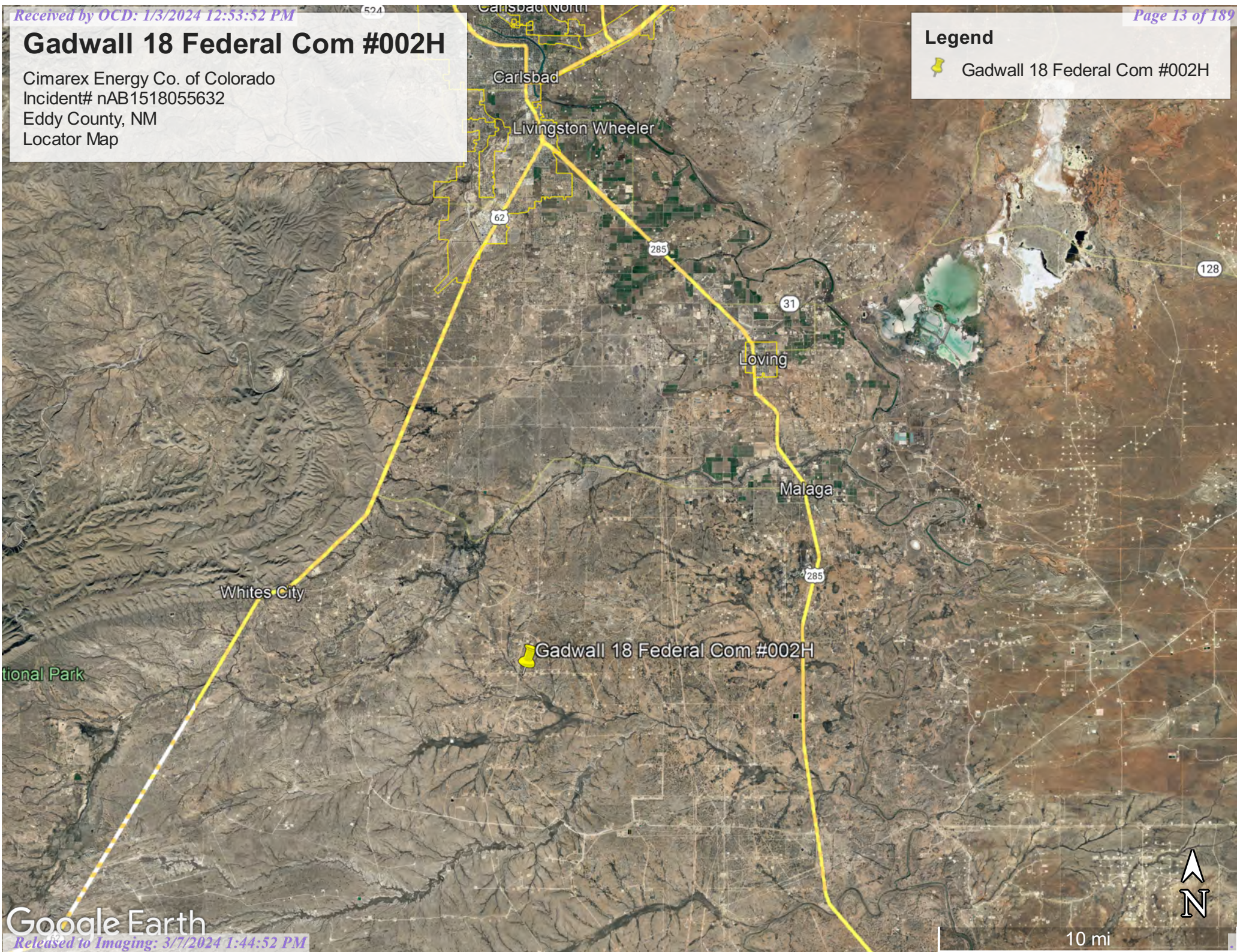


Gadwall 18 Federal Com #002H

Cimarex Energy Co. of Colorado
Incident# nAB1518055632
Eddy County, NM
Locator Map

Legend

 Gadwall 18 Federal Com #002H



APPENDIX II

GROUNDWATER DATA

SOIL SURVEY

FEMA FLOOD ZONE

New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

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

Average Depth to Water: 7 feet

Minimum Depth: 0 feet

Maximum Depth: 14 feet

Record Count: 8

Basin/County Search:

County: Eddy

UTMNAD83 Radius Search (in meters):

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

*UTM location was derived from PLSS - see Help

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

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

Eddy Area, New Mexico

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

Map Unit Setting

National map unit symbol: 1w5d

Elevation: 1,100 to 5,400 feet

Mean annual precipitation: 6 to 14 inches

Mean annual air temperature: 60 to 64 degrees F

Frost-free period: 180 to 240 days

Farmland classification: Farmland of statewide importance

Map Unit Composition

Reagan and similar soils: 70 percent

Upton and similar soils: 25 percent

Minor components: 5 percent

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

Description of Reagan

Setting

Landform: Fan remnants, alluvial fans

Landform position (three-dimensional): Rise

Down-slope shape: Convex, linear

Across-slope shape: Linear

Parent material: Alluvium and/or eolian deposits

Typical profile

H1 - 0 to 8 inches: loam

H2 - 8 to 60 inches: loam

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained

Runoff class: Low

Capacity of the most limiting layer to transmit water

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

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum content: 40 percent

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

Sodium adsorption ratio, maximum: 1.0

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

Interpretive groups

Land capability classification (irrigated): 2e

Land capability classification (nonirrigated): 6e

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

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

Description of Upton

Setting

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

Typical profile

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

Properties and qualities

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

Interpretive groups

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

Minor Components

Atoka

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

Pima

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

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

Hydric soil rating: No

Data Source Information

Soil Survey Area: Eddy Area, New Mexico

Survey Area Data: Version 19, Sep 7, 2023

National Flood Hazard Layer FIRMMette



104°14'8"W 32°8'28"N



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

Released to Imaging: 3/7/2024 1:44:52 PM

Basemap Imagery Source: USGS National Map 2023

Legend

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

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



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

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

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

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

APPENDIX III

INITIAL C-141

FINAL C-141

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

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

Form C-141
 Revised August 8, 2011

Release Notification and Corrective Action

NAB1518055632 **OPERATOR** ☒ Initial Report ☐ Final Report

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

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

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

Latitude 32.13681 Longitude -104.23044

NATURE OF RELEASE

Type of Release produced water	Volume of Release 15 bbls	Volume Recovered 0
Source of Release poly flowline	Date and Hour of Occurrence 06/21/2015	Date and Hour of Discovery 06/21/2015
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Mike Bratcher/BLM	
By Whom? Christine Alderman	Date and Hour 6/22/2015 4:00pm	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

NM OIL CONSERVATION

ARTESIA DISTRICT

JUN 26 2015

Describe Cause of Problem and Remedial Action Taken.*

Poly flowline ruptured

RECEIVED

Describe Area Affected and Cleanup Action Taken.*

ROW area of pasture just down from where it had previously ruptured. Followed 2 tract road down ranchers water line. Diversified will assess and develop workplan.

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

Signature: Christine Alderman	OIL CONSERVATION DIVISION	
Printed Name: Christine Alderman	Approved by Environmental Specialist: <i>H. Alderman</i>	
Title: ESH Supervisor	Approval Date: 6/29/15	Expiration Date: N/A
E-mail Address: calderman@cimarco.com	Conditions of Approval: Remediation per O.C.D. Rules & Guidelines ☐	
Date: 6/26/2015 Phone: 432-853-7059	SUBMIT REMEDIATION PROPOSAL NO LATER THAN: 7/2/15	

* Attach Additional Sheets If Necessary

2RP-3078

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

Location of spill: GADWALL 18 FEDERAL COM #002H (nAB1518055632)

Date of Spill: 6/21/2015

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

Input Data:

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

OIL: 0.0000 BBL

WATER: 0.0000 BBL

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

Total Area Calculations						Standing Liquid Calculations							
Total Surface Area	width	length	wet soil depth	oil (%)		Standing Liquid Area	width	length	liquid depth	oil (%)			
Rectangle Area #1	550 ft	X	4 ft	X	2 in	0%	Rectangle Area #1	0 ft	X	0 ft	X	0 in	0%
Rectangle Area #2	500 ft	X	4 ft	X	2 in	0%	Rectangle Area #2	0 ft	X	0 ft	X	0 in	0%
Rectangle Area #3	0 ft	X	0 ft	X	0 in	0%	Rectangle Area #3	0 ft	X	0 ft	X	0 in	0%
Rectangle Area #4	0 ft	X	0 ft	X	0 in	0%	Rectangle Area #4	0 ft	X	0 ft	X	0 in	0%
Rectangle Area #5	0 ft	X	0 ft	X	0 in	0%	Rectangle Area #5	0 ft	X	0 ft	X	0 in	0%
Rectangle Area #6	0 ft	X	0 ft	X	0 in	0%	Rectangle Area #6	0 ft	X	0 ft	X	0 in	0%
Rectangle Area #7	0 ft	X	0 ft	X	0 in	0%	Rectangle Area #7	0 ft	X	0 ft	X	0 in	0%
Rectangle Area #8	0 ft	X	0 ft	X	0 in	0%	Rectangle Area #8	0 ft	X	0 ft	X	0 in	0%

Saturated Soil Volume Calculations:				Free Liquid Volume Calculations:			
	H2O	OIL			H2O	OIL	
Total Solid/Liquid Volume:	4,200 sq. ft.	603 cu. ft.	cu. ft.	Total Free Liquid Volume:	sq. ft.	.000 cu. ft.	.000 cu. ft.
<u>Estimated Volumes Spilled</u>				<u>Estimated Production Volumes Lost</u>			
Liquid in Soil:	15.0 BBL	0.0 BBL		Estimated Production Spilled:	0.000000 BBL	0.000000 BBL	
Free Liquid:	0.0 BBL	0.0 BBL		<u>Estimated Surface Damage</u>			
Totals:	15.043 BBL	0.000 BBL		Surface Area:	4,200 sq. ft.		
Total Liquid Spill Liquid:	15.043 BBL	0.000 BBL		Surface Area:	.0964 acre		
<u>Recovered Volumes</u>				<u>Estimated Weights, and Volumes</u>			
Estimated oil recovered:	0.0 BBL	check - okay		Saturated Soil =	67,573 lbs	603 cu.ft.	22 cu.yds.
Estimated water recovered:	0.0 BBL	check - okay		Total Liquid =	15 BBL	631.81 gallon	5,257 lbs

Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	_____ (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☐ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☐ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☐ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☐ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☐ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☐ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☐ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☐ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☐ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☐ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☐ No
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes ☐ No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: Each of the following items must be included in the report.

- ☐ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☐ Field data
- ☐ Data table of soil contaminant concentration data
- ☐ Depth to water determination
- ☐ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☐ Boring or excavation logs
- ☐ Photographs including date and GIS information
- ☐ Topographic/Aerial maps
- ☐ Laboratory data including chain of custody

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

State of New Mexico
Oil Conservation Division

Page 4

Incident ID	
District RP	
Facility ID	
Application ID	

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

Printed Name: _____ Title: _____

Signature: *[Signature]* Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

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

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

- ☐ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☐ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☐ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☐ Description of remediation activities

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

Printed Name: _____ Title: _____

Signature: *Lac. Lij* 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 2:38 PM
To: Ashton Thielke
Cc: Laci Luig
Subject: RE: [EXTERNAL] NAB1518055632 - GADWALL 18 FEDERAL COM #002H - 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 NAB1518055632 - GADWALL 18 FEDERAL COM #002H is approved.

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

Thank you,

Thank you,

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

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

From: Ashton Thielke <Ashton.Thielke@coterra.com>
Sent: Tuesday, December 26, 2023 7:52 AM
To: Hall, Brittany, EMNRD <Brittany.Hall@emnrd.nm.gov>
Cc: Laci Luig <Laci.Luig@coterra.com>
Subject: [EXTERNAL] NAB1518055632 - GADWALL 18 FEDERAL COM #002H - Variance Request (19.15.29.12.D.1.A-C)

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

Good morning Brittany,

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

A work plan was previously submitted in July 2015, but evidence of remediation can be found on historical aerial imagery on google earth occurring shortly after with the absence of a closure report with confirmation samples.

Before the most recent NMAC 19.15.29 rule change, confirmation floor/sidewall samples were not required during the excavation process.

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.

Recent samples were collected in areas that exceeded remediation & reclamation standards found on Table I of 19.15.29.12 NMAC, previously collected during the time of the work plan. (work plan can be found on OCD Website)

Those sample areas were sampled to depths deeper than previously collected to determine if any contamination remains onsite and if concentrations were below remediation and reclamation standards found on Table I of 19.15.29.12 NMAC.

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.

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

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

Thanks,



Ashton Thielke | PBU - Environmental Consultant

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

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

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

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APPENDIX IV

PHOTOGRAPHIC DOCUMENTATION

PHOTOGRAPHIC DOCUMENTATION

SAMPLE POINT PHOTOGRAPHS



S-1



S-2

PHOTOGRAPHIC DOCUMENTATION



S-3



S-4

PHOTOGRAPHIC DOCUMENTATION



S-5



S-6

PHOTOGRAPHIC DOCUMENTATION



S-7



S-8

PHOTOGRAPHIC DOCUMENTATION



S-9



S-10

PHOTOGRAPHIC DOCUMENTATION



S-11



S-12

PHOTOGRAPHIC DOCUMENTATION



S-13



S-14

PHOTOGRAPHIC DOCUMENTATION



S-15



H-1

PHOTOGRAPHIC DOCUMENTATION



H-2



H-3

PHOTOGRAPHIC DOCUMENTATION



H-4



H-5

PHOTOGRAPHIC DOCUMENTATION



H-6



H-7

PHOTOGRAPHIC DOCUMENTATION



H-8



H-9

PHOTOGRAPHIC DOCUMENTATION



H-10



H-11

PHOTOGRAPHIC DOCUMENTATION

HISTORICAL RELEASE SPILL PATH



PHOTOGRAPHIC DOCUMENTATION



PHOTOGRAPHIC DOCUMENTATION



APPENDIX V

LABORATORY REPORTS



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

July 15, 2015

CHRISTINE ALDERMAN

CIMAREX ENERGY CO.-MIDLAND

600 N. MARIENFELD ST, SUITE 600

MIDLAND, TX 79701

RE: GADWALL 2ND RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 07/08/15 8:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

CIMAREX ENERGY CO.-MIDLAND
 CHRISTINE ALDERMAN
 600 N. MARIENFELD ST, SUITE 600
 MIDLAND TX, 79701
 Fax To: UNK-NOWN

Received:	07/08/2015	Sampling Date:	07/07/2015
Reported:	07/15/2015	Sampling Type:	Soil
Project Name:	GADWALL 2ND RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 1 @ 3' (H501734-01)

BTX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/14/2015	ND	2.46	123	2.00	1.05	
Toluene*	<0.050	0.050	07/14/2015	ND	2.21	110	2.00	0.366	
Ethylbenzene*	<0.050	0.050	07/14/2015	ND	2.17	108	2.00	1.47	
Total Xylenes*	<0.150	0.150	07/14/2015	ND	6.46	108	6.00	1.94	
Total BTX	<0.300	0.300	07/14/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 61-154

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	07/13/2015	ND	400	100	400	3.92	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/10/2015	ND	199	99.4	200	5.17	
DRO >C10-C28	<10.0	10.0	07/10/2015	ND	202	101	200	12.6	

Surrogate: 1-Chlorooctane 80.8 % 47.2-157

Surrogate: 1-Chlorooctadecane 84.4 % 52.1-176

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

CIMAREX ENERGY CO.-MIDLAND
 CHRISTINE ALDERMAN
 600 N. MARIENFELD ST, SUITE 600
 MIDLAND TX, 79701
 Fax To: UNK-NOWN

Received:	07/08/2015	Sampling Date:	07/07/2015
Reported:	07/15/2015	Sampling Type:	Soil
Project Name:	GADWALL 2ND RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 2 @ 3' (H501734-02)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/14/2015	ND	2.11	106	2.00	1.29	
Toluene*	<0.050	0.050	07/14/2015	ND	2.27	114	2.00	1.21	
Ethylbenzene*	<0.050	0.050	07/14/2015	ND	2.15	108	2.00	1.99	
Total Xylenes*	<0.150	0.150	07/14/2015	ND	6.55	109	6.00	2.07	
Total BTX	<0.300	0.300	07/14/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 135 % 85.6-137

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	624	16.0	07/13/2015	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/10/2015	ND	199	99.4	200	5.17	
DRO >C10-C28	<10.0	10.0	07/10/2015	ND	202	101	200	12.6	

Surrogate: 1-Chlorooctane 85.0 % 47.2-157

Surrogate: 1-Chlorooctadecane 90.1 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

CIMAREX ENERGY CO.-MIDLAND
 CHRISTINE ALDERMAN
 600 N. MARIENFELD ST, SUITE 600
 MIDLAND TX, 79701
 Fax To: UNK-NOWN

Received:	07/08/2015	Sampling Date:	07/07/2015
Reported:	07/15/2015	Sampling Type:	Soil
Project Name:	GADWALL 2ND RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 3 @ 3' (H501734-03)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/14/2015	ND	2.11	106	2.00	1.29	
Toluene*	<0.050	0.050	07/14/2015	ND	2.27	114	2.00	1.21	
Ethylbenzene*	<0.050	0.050	07/14/2015	ND	2.15	108	2.00	1.99	
Total Xylenes*	<0.150	0.150	07/14/2015	ND	6.55	109	6.00	2.07	
Total BTEx	<0.300	0.300	07/14/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 136 % 85.6-137

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	07/13/2015	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/10/2015	ND	199	99.4	200	5.17	
DRO >C10-C28	<10.0	10.0	07/10/2015	ND	202	101	200	12.6	

Surrogate: 1-Chlorooctane 84.0 % 47.2-157

Surrogate: 1-Chlorooctadecane 91.6 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

CIMAREX ENERGY CO.-MIDLAND
 CHRISTINE ALDERMAN
 600 N. MARIENFELD ST, SUITE 600
 MIDLAND TX, 79701
 Fax To: UNK-NOWN

Received:	07/08/2015	Sampling Date:	07/07/2015
Reported:	07/15/2015	Sampling Type:	Soil
Project Name:	GADWALL 2ND RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 4 @ 3' (H501734-04)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/14/2015	ND	2.11	106	2.00	1.29	
Toluene*	<0.050	0.050	07/14/2015	ND	2.27	114	2.00	1.21	
Ethylbenzene*	<0.050	0.050	07/14/2015	ND	2.15	108	2.00	1.99	
Total Xylenes*	<0.150	0.150	07/14/2015	ND	6.55	109	6.00	2.07	
Total BTEX	<0.300	0.300	07/14/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 134 % 85.6-137

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	07/13/2015	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/10/2015	ND	199	99.4	200	5.17	
DRO >C10-C28	<10.0	10.0	07/10/2015	ND	202	101	200	12.6	

Surrogate: 1-Chlorooctane 87.7 % 47.2-157

Surrogate: 1-Chlorooctadecane 92.3 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

CIMAREX ENERGY CO.-MIDLAND
 CHRISTINE ALDERMAN
 600 N. MARIENFELD ST, SUITE 600
 MIDLAND TX, 79701
 Fax To: UNK-NOWN

Received:	07/08/2015	Sampling Date:	07/07/2015
Reported:	07/15/2015	Sampling Type:	Soil
Project Name:	GADWALL 2ND RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 6 @ 3' (H501734-05)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/14/2015	ND	2.11	106	2.00	1.29	
Toluene*	<0.050	0.050	07/14/2015	ND	2.27	114	2.00	1.21	
Ethylbenzene*	<0.050	0.050	07/14/2015	ND	2.15	108	2.00	1.99	
Total Xylenes*	<0.150	0.150	07/14/2015	ND	6.55	109	6.00	2.07	
Total BTEx	<0.300	0.300	07/14/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 136 % 85.6-137

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	07/13/2015	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/11/2015	ND	199	99.4	200	5.17	
DRO >C10-C28	<10.0	10.0	07/11/2015	ND	202	101	200	12.6	

Surrogate: 1-Chlorooctane 86.4 % 47.2-157

Surrogate: 1-Chlorooctadecane 92.3 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

CIMAREX ENERGY CO.-MIDLAND
 CHRISTINE ALDERMAN
 600 N. MARIENFELD ST, SUITE 600
 MIDLAND TX, 79701
 Fax To: UNK-NOWN

Received:	07/08/2015	Sampling Date:	07/07/2015
Reported:	07/15/2015	Sampling Type:	Soil
Project Name:	GADWALL 2ND RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 7 @ 4' (H501734-06)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/14/2015	ND	2.11	106	2.00	1.29	
Toluene*	<0.050	0.050	07/14/2015	ND	2.27	114	2.00	1.21	
Ethylbenzene*	<0.050	0.050	07/14/2015	ND	2.15	108	2.00	1.99	
Total Xylenes*	<0.150	0.150	07/14/2015	ND	6.55	109	6.00	2.07	
Total BTEX	<0.300	0.300	07/14/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 135 % 85.6-137

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	07/14/2015	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/11/2015	ND	199	99.4	200	5.17	
DRO >C10-C28	<10.0	10.0	07/11/2015	ND	202	101	200	12.6	

Surrogate: 1-Chlorooctane 80.2 % 47.2-157

Surrogate: 1-Chlorooctadecane 84.9 % 52.1-176

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Analytical Results For:

CIMAREX ENERGY CO.-MIDLAND
 CHRISTINE ALDERMAN
 600 N. MARIENFELD ST, SUITE 600
 MIDLAND TX, 79701
 Fax To: UNK-NOWN

Received:	07/08/2015	Sampling Date:	07/07/2015
Reported:	07/15/2015	Sampling Type:	Soil
Project Name:	GADWALL 2ND RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 8 @ 3' (H501734-07)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/14/2015	ND	2.11	106	2.00	1.29	
Toluene*	<0.050	0.050	07/14/2015	ND	2.27	114	2.00	1.21	
Ethylbenzene*	<0.050	0.050	07/14/2015	ND	2.15	108	2.00	1.99	
Total Xylenes*	<0.150	0.150	07/14/2015	ND	6.55	109	6.00	2.07	
Total BTEx	<0.300	0.300	07/14/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 135 % 85.6-137

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	07/14/2015	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/11/2015	ND	199	99.4	200	5.17	
DRO >C10-C28	<10.0	10.0	07/11/2015	ND	202	101	200	12.6	

Surrogate: 1-Chlorooctane 84.6 % 47.2-157

Surrogate: 1-Chlorooctadecane 89.8 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

CIMAREX ENERGY CO.-MIDLAND
 CHRISTINE ALDERMAN
 600 N. MARIENFELD ST, SUITE 600
 MIDLAND TX, 79701
 Fax To: UNK-NOWN

Received:	07/08/2015	Sampling Date:	07/07/2015
Reported:	07/15/2015	Sampling Type:	Soil
Project Name:	GADWALL 2ND RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 10 @ 4' (H501734-08)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/14/2015	ND	2.11	106	2.00	1.29	
Toluene*	<0.050	0.050	07/14/2015	ND	2.27	114	2.00	1.21	
Ethylbenzene*	<0.050	0.050	07/14/2015	ND	2.15	108	2.00	1.99	
Total Xylenes*	<0.150	0.150	07/14/2015	ND	6.55	109	6.00	2.07	
Total BTEx	<0.300	0.300	07/14/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 136 % 85.6-137

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	07/14/2015	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/11/2015	ND	199	99.4	200	5.17	
DRO >C10-C28	<10.0	10.0	07/11/2015	ND	202	101	200	12.6	

Surrogate: 1-Chlorooctane 85.2 % 47.2-157

Surrogate: 1-Chlorooctadecane 91.9 % 52.1-176

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Analytical Results For:

CIMAREX ENERGY CO.-MIDLAND
 CHRISTINE ALDERMAN
 600 N. MARIENFELD ST, SUITE 600
 MIDLAND TX, 79701
 Fax To: UNK-NOWN

Received:	07/08/2015	Sampling Date:	07/07/2015
Reported:	07/15/2015	Sampling Type:	Soil
Project Name:	GADWALL 2ND RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 11 @ 3' (H501734-09)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/14/2015	ND	2.11	106	2.00	1.29	
Toluene*	<0.050	0.050	07/14/2015	ND	2.27	114	2.00	1.21	
Ethylbenzene*	<0.050	0.050	07/14/2015	ND	2.15	108	2.00	1.99	
Total Xylenes*	<0.150	0.150	07/14/2015	ND	6.55	109	6.00	2.07	
Total BTEx	<0.300	0.300	07/14/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 136 % 85.6-137

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	07/14/2015	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/11/2015	ND	199	99.4	200	5.17	
DRO >C10-C28	<10.0	10.0	07/11/2015	ND	202	101	200	12.6	

Surrogate: 1-Chlorooctane 92.8 % 47.2-157

Surrogate: 1-Chlorooctadecane 99.6 % 52.1-176

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Analytical Results For:

CIMAREX ENERGY CO.-MIDLAND
 CHRISTINE ALDERMAN
 600 N. MARIENFELD ST, SUITE 600
 MIDLAND TX, 79701
 Fax To: UNK-NOWN

Received:	07/08/2015	Sampling Date:	07/07/2015
Reported:	07/15/2015	Sampling Type:	Soil
Project Name:	GADWALL 2ND RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 12 @ 3' (H501734-10)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/14/2015	ND	2.11	106	2.00	1.29	
Toluene*	<0.050	0.050	07/14/2015	ND	2.27	114	2.00	1.21	
Ethylbenzene*	<0.050	0.050	07/14/2015	ND	2.15	108	2.00	1.99	
Total Xylenes*	<0.150	0.150	07/14/2015	ND	6.55	109	6.00	2.07	
Total BTEx	<0.300	0.300	07/14/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 137 % 85.6-137

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1230	16.0	07/14/2015	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/11/2015	ND	199	99.4	200	5.17	
DRO >C10-C28	<10.0	10.0	07/11/2015	ND	202	101	200	12.6	

Surrogate: 1-Chlorooctane 89.8 % 47.2-157

Surrogate: 1-Chlorooctadecane 95.2 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

CIMAREX ENERGY CO.-MIDLAND
 CHRISTINE ALDERMAN
 600 N. MARIENFELD ST, SUITE 600
 MIDLAND TX, 79701
 Fax To: UNK-NOWN

Received:	07/08/2015	Sampling Date:	07/07/2015
Reported:	07/15/2015	Sampling Type:	Soil
Project Name:	GADWALL 2ND RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 13 @ 3' (H501734-11)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/14/2015	ND	2.11	106	2.00	1.29	
Toluene*	<0.050	0.050	07/14/2015	ND	2.27	114	2.00	1.21	
Ethylbenzene*	<0.050	0.050	07/14/2015	ND	2.15	108	2.00	1.99	
Total Xylenes*	<0.150	0.150	07/14/2015	ND	6.55	109	6.00	2.07	
Total BTEx	<0.300	0.300	07/14/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 137 % 85.6-137

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	07/14/2015	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/11/2015	ND	199	99.4	200	5.17	
DRO >C10-C28	<10.0	10.0	07/11/2015	ND	202	101	200	12.6	

Surrogate: 1-Chlorooctane 87.8 % 47.2-157

Surrogate: 1-Chlorooctadecane 93.2 % 52.1-176

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Analytical Results For:

CIMAREX ENERGY CO.-MIDLAND
 CHRISTINE ALDERMAN
 600 N. MARIENFELD ST, SUITE 600
 MIDLAND TX, 79701
 Fax To: UNK-NOWN

Received:	07/08/2015	Sampling Date:	07/07/2015
Reported:	07/15/2015	Sampling Type:	Soil
Project Name:	GADWALL 2ND RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 14 @ 3' (H501734-12)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/14/2015	ND	2.11	106	2.00	1.29	
Toluene*	<0.050	0.050	07/14/2015	ND	2.27	114	2.00	1.21	
Ethylbenzene*	<0.050	0.050	07/14/2015	ND	2.15	108	2.00	1.99	
Total Xylenes*	<0.150	0.150	07/14/2015	ND	6.55	109	6.00	2.07	
Total BTEx	<0.300	0.300	07/14/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 136 % 85.6-137

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1010	16.0	07/14/2015	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/11/2015	ND	199	99.4	200	5.17	
DRO >C10-C28	<10.0	10.0	07/11/2015	ND	202	101	200	12.6	

Surrogate: 1-Chlorooctane 86.8 % 47.2-157

Surrogate: 1-Chlorooctadecane 92.8 % 52.1-176

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Analytical Results For:

CIMAREX ENERGY CO.-MIDLAND
 CHRISTINE ALDERMAN
 600 N. MARIENFELD ST, SUITE 600
 MIDLAND TX, 79701
 Fax To: UNK-NOWN

Received:	07/08/2015	Sampling Date:	07/07/2015
Reported:	07/15/2015	Sampling Type:	Soil
Project Name:	GADWALL 2ND RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 15 @ 3' (H501734-13)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/14/2015	ND	2.11	106	2.00	1.29	
Toluene*	<0.050	0.050	07/14/2015	ND	2.27	114	2.00	1.21	
Ethylbenzene*	<0.050	0.050	07/14/2015	ND	2.15	108	2.00	1.99	
Total Xylenes*	<0.150	0.150	07/14/2015	ND	6.55	109	6.00	2.07	
Total BTEx	<0.300	0.300	07/14/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 136 % 85.6-137

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2840	16.0	07/14/2015	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/11/2015	ND	199	99.4	200	5.17	
DRO >C10-C28	<10.0	10.0	07/11/2015	ND	202	101	200	12.6	

Surrogate: 1-Chlorooctane 86.7 % 47.2-157

Surrogate: 1-Chlorooctadecane 90.4 % 52.1-176

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Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: <u>Cimarex</u>				BILL TO				ANALYSIS REQUEST																		
Project Manager: <u>Lance Crenshaw</u>				P.O. #:				<u>CI</u> <u>Y3EX</u> <u>H0H</u> X																		
Address:				Company: <u>Cimarex</u>																						
City: State: Zip:				Attn: <u>Christine Alderman</u>																						
Phone #: Fax #:				Address:																						
Project #: Project Owner:				City:																						
Project Name: <u>Gadwall 2nd release</u>				State: Zip:																						
Project Location:				Phone #:																						
Sampler Name: <u>Lance Crenshaw</u>				Fax #:																						
FOR LAB USE ONLY				MATRIX		PRESERV.		SAMPLING																		
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME												
<u>H501734</u>																										
<u>1</u>	<u>SP1023'</u>	<u>G</u>	<u>1</u>			<u>✓</u>				<u>✓</u>			<u>7-7</u>	<u>8:30</u>												
<u>2</u>	<u>SP2023'</u>	<u>G</u>	<u>1</u>			<u>✓</u>				<u>✓</u>			<u>7-7</u>	<u>8:45</u>												
<u>3</u>	<u>SP3023'</u>	<u>G</u>	<u>1</u>			<u>✓</u>				<u>✓</u>			<u>7-7</u>	<u>9:10</u>												
<u>4</u>	<u>SP4023'</u>	<u>G</u>	<u>1</u>			<u>✓</u>				<u>✓</u>			<u>7-7</u>	<u>9:50</u>												
<u>5</u>	<u>SP6023'</u>	<u>G</u>	<u>1</u>			<u>✓</u>				<u>✓</u>			<u>7-7</u>	<u>11:05</u>												
<u>6</u>	<u>SP7024'</u>	<u>G</u>	<u>1</u>			<u>✓</u>				<u>✓</u>			<u>7-7</u>	<u>11:35</u>												
<u>7</u>	<u>SP8023'</u>	<u>G</u>	<u>1</u>			<u>✓</u>				<u>✓</u>			<u>7-7</u>	<u>11:55</u>												
<u>8</u>	<u>SP10024'</u>	<u>G</u>	<u>1</u>			<u>✓</u>				<u>✓</u>			<u>7-7</u>	<u>1:15</u>												
<u>9</u>	<u>SP1023'</u>	<u>G</u>	<u>1</u>			<u>✓</u>				<u>✓</u>			<u>7-7</u>	<u>1:30</u>												
<u>10</u>	<u>SP12023'</u>	<u>G</u>	<u>1</u>			<u>✓</u>				<u>✓</u>			<u>7-7</u>	<u>2:10</u>												

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Relinquished By: <u>[Signature]</u>	Date: <u>7/8/15</u>	Received By: <u>[Signature]</u>	Phone Result: ☐ Yes ☐ No	Add'l Phone #:
	Time: <u>8:45</u>		Fax Result: ☐ Yes ☐ No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS:	
	Time:		<u>lcrenshaw@diversifiedfsi.com</u>	
			<u>mburston@diversifiedfsi.com</u>	
Delivered By: (Circle One)	Sample Condition	CHECKED BY:		
Sampler - UPS - Bus - Other:	Cool ☒ Intact ☒	(Initials)		
	☐ Yes ☐ No	<u>[Signature]</u>		

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326



CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

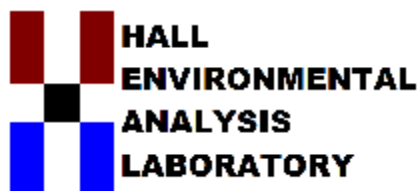
101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

Company Name: <u>Cimarex</u>				BILL TO				ANALYSIS REQUEST																		
Project Manager: <u>Lance Crenshaw</u>				P.O. #:				CL BTEX TDH																		
Address:				Company: <u>Cimarex</u>																						
City: State: Zip:				Attn: <u>Christine Alderman</u>																						
Phone #: Fax #:				Address:																						
Project #: Project Owner:				City:																						
Project Name: <u>Gadwall 2nd release</u>				State: Zip:																						
Project Location:				Phone #:																						
Sampler Name:				Fax #:																						
FOR LAB USE ONLY				MATRIX		PRESERV.		SAMPLING																		
Lab I.D.	Sample I.D.	(G/RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME												
<u>H501734</u>																										
<u>11</u>	<u>SP13E3'</u>	<u>G</u>	<u>1</u>			<u>✓</u>					<u>✓</u>		<u>7-7</u>	<u>2:25</u>	CL BTEX TDH											
<u>12</u>	<u>SP14E3'</u>	<u>G</u>	<u>1</u>			<u>✓</u>					<u>✓</u>		<u>7-7</u>	<u>2:45</u>												
<u>13</u>	<u>SP15E3'</u>	<u>G</u>	<u>1</u>			<u>✓</u>					<u>✓</u>		<u>7-7</u>	<u>3:00</u>												

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Relinquished By: <u>Lance Crenshaw</u>	Date: <u>7/8/15</u>	Received By: <u>Jodi Benson</u>	Phone Result: ☐ Yes ☐ No	Add'l Phone #:
Relinquished By:	Date:	Received By:	Fax Result: ☐ Yes ☐ No	Add'l Fax #:
Delivered By: (Circle One) Sampler - UPS - Bus - Other: <u>5.40</u>			REMARKS: <u>lcrenshaw@diversifiedfsi.com</u> <u>mburton@diversifiedfsi.com</u>	
Sample Condition Cool ☒ Intact ☒ Yes ☒ No ☒			CHECKED BY: <u>[Signature]</u>	

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

May 10, 2016

Michael Alves

Diversified Field Services, Inc

315 S. Leech St

Hobbs, NM 88240

TEL: (575) 964-8394

FAX

RE: Cimerex Gadwall 2

OrderNo.: 1605286

Dear Michael Alves:

Hall Environmental Analysis Laboratory received 8 sample(s) on 5/6/2016 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a horizontal line.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order 1605286
Date Reported: 5/10/2016

CLIENT: Diversified Field Services, Inc

Client Sample ID: SP 5 @ 1'

Project: Cimerex Gadwall 2

Collection Date: 5/4/2016

Lab ID: 1605286-001

Matrix: MEOH (SOIL)

Received Date: 5/6/2016 10:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: KJH
Diesel Range Organics (DRO)	120	20		mg/Kg	2	5/6/2016 2:20:47 PM
Surr: DNOP	102	70-130		%Rec	2	5/6/2016 2:20:47 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.4		mg/Kg	1	5/6/2016 12:05:31 PM
Surr: BFB	97.9	80-120		%Rec	1	5/6/2016 12:05:31 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.022		mg/Kg	1	5/6/2016 12:05:31 PM
Toluene	ND	0.044		mg/Kg	1	5/6/2016 12:05:31 PM
Ethylbenzene	ND	0.044		mg/Kg	1	5/6/2016 12:05:31 PM
Xylenes, Total	ND	0.087		mg/Kg	1	5/6/2016 12:05:31 PM
Surr: 4-Bromofluorobenzene	97.1	80-120		%Rec	1	5/6/2016 12:05:31 PM
EPA METHOD 300.0: ANIONS						Analyst: LGT
Chloride	92	30		mg/Kg	20	5/6/2016 11:47:40 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Analytical Report

Lab Order 1605286

Date Reported: 5/10/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Diversified Field Services, Inc

Client Sample ID: SP 5 @ 2'

Project: Cimerex Gadwall 2

Collection Date: 5/4/2016

Lab ID: 1605286-002

Matrix: MEOH (SOIL)

Received Date: 5/6/2016 10:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: KJH
Diesel Range Organics (DRO)	130	20		mg/Kg	2	5/6/2016 1:58:42 PM
Surr: DNOP	110	70-130		%Rec	2	5/6/2016 1:58:42 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.2		mg/Kg	1	5/6/2016 12:29:03 PM
Surr: BFB	97.3	80-120		%Rec	1	5/6/2016 12:29:03 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.021		mg/Kg	1	5/6/2016 12:29:03 PM
Toluene	ND	0.042		mg/Kg	1	5/6/2016 12:29:03 PM
Ethylbenzene	ND	0.042		mg/Kg	1	5/6/2016 12:29:03 PM
Xylenes, Total	ND	0.085		mg/Kg	1	5/6/2016 12:29:03 PM
Surr: 4-Bromofluorobenzene	96.3	80-120		%Rec	1	5/6/2016 12:29:03 PM
EPA METHOD 300.0: ANIONS						Analyst: LGT
Chloride	110	30		mg/Kg	20	5/6/2016 12:00:04 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Page 2 of 14

Analytical Report

Lab Order 1605286

Date Reported: 5/10/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Diversified Field Services, Inc

Client Sample ID: SP 9 @ 1'

Project: Cimerex Gadwall 2

Collection Date: 5/4/2016

Lab ID: 1605286-003

Matrix: MEOH (SOIL)

Received Date: 5/6/2016 10:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: KJH
Diesel Range Organics (DRO)	400	49		mg/Kg	5	5/6/2016 1:40:28 PM
Surr: DNOP	120	70-130		%Rec	5	5/6/2016 1:40:28 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.4		mg/Kg	1	5/6/2016 12:52:28 PM
Surr: BFB	96.1	80-120		%Rec	1	5/6/2016 12:52:28 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.017		mg/Kg	1	5/6/2016 12:52:28 PM
Toluene	ND	0.034		mg/Kg	1	5/6/2016 12:52:28 PM
Ethylbenzene	ND	0.034		mg/Kg	1	5/6/2016 12:52:28 PM
Xylenes, Total	ND	0.067		mg/Kg	1	5/6/2016 12:52:28 PM
Surr: 4-Bromofluorobenzene	96.4	80-120		%Rec	1	5/6/2016 12:52:28 PM
EPA METHOD 300.0: ANIONS						Analyst: LGT
Chloride	140	30		mg/Kg	20	5/6/2016 12:12:29 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Page 3 of 14

Analytical Report

Lab Order 1605286

Date Reported: 5/10/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Diversified Field Services, Inc

Client Sample ID: SP 9 @ 2'

Project: Cimerex Gadwall 2

Collection Date: 5/4/2016

Lab ID: 1605286-004

Matrix: MEOH (SOIL)

Received Date: 5/6/2016 10:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: KJH
Diesel Range Organics (DRO)	96	19		mg/Kg	2	5/6/2016 2:02:18 PM
Surr: DNOP	94.2	70-130		%Rec	2	5/6/2016 2:02:18 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.1		mg/Kg	1	5/6/2016 1:15:55 PM
Surr: BFB	96.3	80-120		%Rec	1	5/6/2016 1:15:55 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.020		mg/Kg	1	5/6/2016 1:15:55 PM
Toluene	0.050	0.041		mg/Kg	1	5/6/2016 1:15:55 PM
Ethylbenzene	ND	0.041		mg/Kg	1	5/6/2016 1:15:55 PM
Xylenes, Total	ND	0.081		mg/Kg	1	5/6/2016 1:15:55 PM
Surr: 4-Bromofluorobenzene	95.2	80-120		%Rec	1	5/6/2016 1:15:55 PM
EPA METHOD 300.0: ANIONS						Analyst: LGT
Chloride	140	30		mg/Kg	20	5/6/2016 12:24:53 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Page 4 of 14

Analytical Report

Lab Order 1605286

Date Reported: 5/10/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Diversified Field Services, Inc

Client Sample ID: SP 12 @ 4'

Project: Cimerex Gadwall 2

Collection Date: 5/4/2016

Lab ID: 1605286-005

Matrix: MEOH (SOIL)

Received Date: 5/6/2016 10:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: KJH
Diesel Range Organics (DRO)	420	48		mg/Kg	5	5/6/2016 2:24:06 PM
Surr: DNOP	125	70-130		%Rec	5	5/6/2016 2:24:06 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.2		mg/Kg	1	5/6/2016 1:39:26 PM
Surr: BFB	97.2	80-120		%Rec	1	5/6/2016 1:39:26 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.016		mg/Kg	1	5/6/2016 1:39:26 PM
Toluene	ND	0.032		mg/Kg	1	5/6/2016 1:39:26 PM
Ethylbenzene	ND	0.032		mg/Kg	1	5/6/2016 1:39:26 PM
Xylenes, Total	ND	0.065		mg/Kg	1	5/6/2016 1:39:26 PM
Surr: 4-Bromofluorobenzene	97.7	80-120		%Rec	1	5/6/2016 1:39:26 PM
EPA METHOD 300.0: ANIONS						Analyst: LGT
Chloride	120	30		mg/Kg	20	5/6/2016 12:37:18 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Page 5 of 14

Analytical Report

Lab Order 1605286

Date Reported: 5/10/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Diversified Field Services, Inc

Client Sample ID: SP 12 @ 5'

Project: Cimerex Gadwall 2

Collection Date: 5/4/2016

Lab ID: 1605286-006

Matrix: MEOH (SOIL)

Received Date: 5/6/2016 10:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: KJH
Diesel Range Organics (DRO)	420	49		mg/Kg	5	5/6/2016 2:46:03 PM
Surr: DNOP	135	70-130	S	%Rec	5	5/6/2016 2:46:03 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.4		mg/Kg	1	5/6/2016 11:30:20 AM
Surr: BFB	87.9	80-120		%Rec	1	5/6/2016 11:30:20 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.017		mg/Kg	1	5/6/2016 11:30:20 AM
Toluene	ND	0.034		mg/Kg	1	5/6/2016 11:30:20 AM
Ethylbenzene	ND	0.034		mg/Kg	1	5/6/2016 11:30:20 AM
Xylenes, Total	ND	0.067		mg/Kg	1	5/6/2016 11:30:20 AM
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	1	5/6/2016 11:30:20 AM
EPA METHOD 300.0: ANIONS						Analyst: LGT
Chloride	120	30		mg/Kg	20	5/6/2016 12:49:43 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Page 6 of 14

Analytical Report

Lab Order 1605286

Date Reported: 5/10/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Diversified Field Services, Inc

Client Sample ID: SP 15 @ 4'

Project: Cimerex Gadwall 2

Collection Date: 5/4/2016

Lab ID: 1605286-007

Matrix: MEOH (SOIL)

Received Date: 5/6/2016 10:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: KJH
Diesel Range Organics (DRO)	360	50		mg/Kg	5	5/6/2016 3:07:55 PM
Surr: DNOP	125	70-130		%Rec	5	5/6/2016 3:07:55 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.7		mg/Kg	1	5/6/2016 11:54:59 AM
Surr: BFB	92.5	80-120		%Rec	1	5/6/2016 11:54:59 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.018		mg/Kg	1	5/6/2016 11:54:59 AM
Toluene	ND	0.037		mg/Kg	1	5/6/2016 11:54:59 AM
Ethylbenzene	ND	0.037		mg/Kg	1	5/6/2016 11:54:59 AM
Xylenes, Total	ND	0.073		mg/Kg	1	5/6/2016 11:54:59 AM
Surr: 4-Bromofluorobenzene	108	80-120		%Rec	1	5/6/2016 11:54:59 AM
EPA METHOD 300.0: ANIONS						Analyst: LGT
Chloride	130	30		mg/Kg	20	5/6/2016 1:02:08 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Page 7 of 14

Analytical Report

Lab Order 1605286

Date Reported: 5/10/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Diversified Field Services, Inc

Client Sample ID: SP 15 @ 5'

Project: Cimerex Gadwall 2

Collection Date: 5/4/2016

Lab ID: 1605286-008

Matrix: MEOH (SOIL)

Received Date: 5/6/2016 10:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: KJH
Diesel Range Organics (DRO)	370	49		mg/Kg	5	5/6/2016 3:29:54 PM
Surr: DNOP	131	70-130	S	%Rec	5	5/6/2016 3:29:54 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.4		mg/Kg	1	5/6/2016 12:19:43 PM
Surr: BFB	94.7	80-120		%Rec	1	5/6/2016 12:19:43 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.027		mg/Kg	1	5/6/2016 12:19:43 PM
Toluene	ND	0.054		mg/Kg	1	5/6/2016 12:19:43 PM
Ethylbenzene	ND	0.054		mg/Kg	1	5/6/2016 12:19:43 PM
Xylenes, Total	ND	0.11		mg/Kg	1	5/6/2016 12:19:43 PM
Surr: 4-Bromofluorobenzene	113	80-120		%Rec	1	5/6/2016 12:19:43 PM
EPA METHOD 300.0: ANIONS						Analyst: LGT
Chloride	110	30		mg/Kg	20	5/6/2016 1:14:32 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Page 8 of 14

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1605286

10-May-16

Client: Diversified Field Services, Inc
Project: Cimerex Gadwall 2

Sample ID	MB-25190	SampType:	MBLK	TestCode:	EPA Method 300.0: Anions						
Client ID:	PBS	Batch ID:	25190	RunNo:	34040						
Prep Date:	5/6/2016	Analysis Date:	5/6/2016	SeqNo:	1050180	Units:	mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Chloride	ND	1.5									

Sample ID	LCS-25190	SampType:	LCS	TestCode:	EPA Method 300.0: Anions						
Client ID:	LCSS	Batch ID:	25190	RunNo:	34040						
Prep Date:	5/6/2016	Analysis Date:	5/6/2016	SeqNo:	1050181	Units:	mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Chloride	14	1.5	15.00	0	93.8	90	110				

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Page 9 of 14

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1605286
10-May-16

Client: Diversified Field Services, Inc
Project: Cimerex Gadwall 2

Sample ID	MB-25182	SampType:	MBLK	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	25182	RunNo:	34035					
Prep Date:	5/6/2016	Analysis Date:	5/6/2016	SeqNo:	1048881	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	10		10.00		102	70	130			

Sample ID	LCS-25182	SampType:	LCS	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	25182	RunNo:	34035					
Prep Date:	5/6/2016	Analysis Date:	5/6/2016	SeqNo:	1049232	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	10	50.00	0	93.4	65.8	136			
Surr: DNOP	4.5		5.000		89.4	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
D Sample Diluted Due to Matrix	E Value above quantitation range
H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit	P Sample pH Not In Range
R RPD outside accepted recovery limits	RL Reporting Detection Limit
S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

Page 10 of 14

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 1605286

10-May-16

Client: Diversified Field Services, Inc**Project:** Cimerex Gadwall 2

Sample ID 5ML RB	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: A34044			RunNo: 34044						
Prep Date:	Analysis Date: 5/6/2016			SeqNo: 1049324		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	940		1000		94.0	80	120			

Sample ID 2.5UG GRO LCS	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: A34044			RunNo: 34044						
Prep Date:	Analysis Date: 5/6/2016			SeqNo: 1049325		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	95.8	80	120			
Surr: BFB	1100		1000		108	80	120			

Sample ID 1605286-006AMS	SampType: MS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: SP 12 @ 5'	Batch ID: A34044			RunNo: 34044						
Prep Date:	Analysis Date: 5/6/2016			SeqNo: 1049326		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	17	3.4	16.85	0	103	59.3	143			
Surr: BFB	720		673.9		107	80	120			

Sample ID 1605286-006AMSD	SampType: MSD			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: SP 12 @ 5'	Batch ID: A34044			RunNo: 34044						
Prep Date:	Analysis Date: 5/6/2016			SeqNo: 1049327		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	16	3.4	16.85	0	93.0	59.3	143	10.7	20	
Surr: BFB	710		673.9		105	80	120	0	0	

Sample ID MB-25166	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 25166			RunNo: 34041						
Prep Date: 5/5/2016	Analysis Date: 5/6/2016			SeqNo: 1049337		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	970		1000		96.9	80	120			

Sample ID LCS-25166	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 25166			RunNo: 34041						
Prep Date: 5/5/2016	Analysis Date: 5/6/2016			SeqNo: 1049338		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

- | | |
|---|---|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix | E Value above quantitation range |
| H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| R RPD outside accepted recovery limits | RL Reporting Detection Limit |
| S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |

Page 11 of 14

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1605286

10-May-16

Client: Diversified Field Services, Inc

Project: Cimerex Gadwall 2

Sample ID	LCS-25166	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	25166	RunNo:	34041					
Prep Date:	5/5/2016	Analysis Date:	5/6/2016	SeqNo:	1049338	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	95.4	80	120			
Surr: BFB	1000		1000		105	80	120			

Qualifiers:

* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank	Page 12 of 14
D Sample Diluted Due to Matrix	E Value above quantitation range	
H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits	
ND Not Detected at the Reporting Limit	P Sample pH Not In Range	
R RPD outside accepted recovery limits	RL Reporting Detection Limit	
S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified	

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1605286

10-May-16

Client: Diversified Field Services, Inc

Project: Cimerex Gadwall 2

Sample ID	5ML RB		SampType:	MBLK		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	PBS		Batch ID:	B34044		RunNo:	34044			
Prep Date:			Analysis Date:	5/6/2016		SeqNo:	1049330	Units:	mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		112	80	120			

Sample ID	100NG BTEX LCS		SampType:	LCS		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	LCSS		Batch ID:	B34044		RunNo:	34044			
Prep Date:			Analysis Date:	5/6/2016		SeqNo:	1049331	Units:	mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.025	1.000	0	91.1	75.3	123			
Toluene	0.98	0.050	1.000	0	98.3	80	124			
Ethylbenzene	0.98	0.050	1.000	0	97.6	82.8	121			
Xylenes, Total	2.9	0.10	3.000	0	97.7	83.9	122			
Surr: 4-Bromofluorobenzene	1.2		1.000		118	80	120			

Sample ID	1605286-007AMS		SampType:	MS		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	SP 15 @ 4'		Batch ID:	B34044		RunNo:	34044			
Prep Date:			Analysis Date:	5/6/2016		SeqNo:	1049332	Units:	mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.63	0.018	0.7321	0	86.1	71.5	122			
Toluene	0.69	0.037	0.7321	0.005491	93.9	71.2	123			
Ethylbenzene	0.70	0.037	0.7321	0.006223	94.6	75.2	130			
Xylenes, Total	2.1	0.073	2.196	0.01113	93.1	72.4	131			
Surr: 4-Bromofluorobenzene	0.83		0.7321		113	80	120			

Sample ID	1605286-007AMSD		SampType:	MSD		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	SP 15 @ 4'		Batch ID:	B34044		RunNo:	34044			
Prep Date:			Analysis Date:	5/6/2016		SeqNo:	1049333	Units:	mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.63	0.018	0.7321	0	86.5	71.5	122	0.429	20	
Toluene	0.71	0.037	0.7321	0.005491	96.7	71.2	123	2.87	20	
Ethylbenzene	0.72	0.037	0.7321	0.006223	97.7	75.2	130	3.18	20	
Xylenes, Total	2.1	0.073	2.196	0.01113	95.7	72.4	131	2.75	20	
Surr: 4-Bromofluorobenzene	0.85		0.7321		117	80	120	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
D Sample Diluted Due to Matrix	E Value above quantitation range
H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit	P Sample pH Not In Range
R RPD outside accepted recovery limits	RL Reporting Detection Limit
S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

Page 13 of 14

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1605286
10-May-16

Client: Diversified Field Services, Inc
Project: Cimerex Gadwall 2

Sample ID	MB-25166	SampType:	MBLK	TestCode:	EPA Method 8021B: Volatiles						
Client ID:	PBS	Batch ID:	25166	RunNo:	34041						
Prep Date:	5/5/2016	Analysis Date:	5/6/2016	SeqNo:	1049354	Units:	mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	ND	0.025									
Toluene	ND	0.050									
Ethylbenzene	ND	0.050									
Xylenes, Total	ND	0.10									
Surr: 4-Bromofluorobenzene	0.99		1.000		99.0	80	120				

Sample ID	LCS-25166	SampType:	LCS	TestCode:	EPA Method 8021B: Volatiles						
Client ID:	LCSS	Batch ID:	25166	RunNo:	34041						
Prep Date:	5/5/2016	Analysis Date:	5/6/2016	SeqNo:	1049355	Units:	mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	1.0	0.025	1.000	0	103	75.3	123				
Toluene	0.96	0.050	1.000	0	96.0	80	124				
Ethylbenzene	0.91	0.050	1.000	0	91.0	82.8	121				
Xylenes, Total	2.7	0.10	3.000	0	90.8	83.9	122				
Surr: 4-Bromofluorobenzene	1.1		1.000		107	80	120				

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

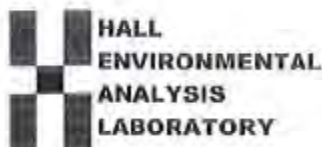
J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Page 14 of 14



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: **DIVERSIFIED FIELD SE**Work Order Number: **1605286**ReptNo: **1**

Received by/date:

Logged By: **Ashley Gallegos**

5/6/2016 10:30:00 AM

Completed By: **Ashley Gallegos**

5/6/2016 10:40:26 AM

Reviewed By:

Chain of Custody

1. Custody seals intact on sample bottles? Yes ☐ No ☐ Not Present ☒
2. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
3. How was the sample delivered? Courier

Log In

4. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
5. Were all samples received at a temperature of >0° C to 6.0°C Yes ☒ No ☐ NA ☐
6. Sample(s) in proper container(s)? Yes ☒ No ☐
7. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
8. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
9. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
10. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☒
11. Were any sample containers received broken? Yes ☐ No ☒
12. Does paperwork match bottle labels? Yes ☒ No ☐ # of preserved bottles checked for pH
(Note discrepancies on chain of custody) (<2 or >12 unless noted)
13. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐ Adjusted? ☐
14. Is it clear what analyses were requested? Yes ☒ No ☐
15. Were all holding times able to be met? Yes ☒ No ☐ Checked by: ☐
(If no, notify customer for authorization.)

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:

Date:

By Whom:

Via:

☐ eMail☐ Phone☐ Fax☐ In Person

Regarding:

Client Instructions:

17. Additional remarks:

18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.0	Good	Yes			

Chain-of-Custody Record

Client: **Diversified FSI**
 Mailing Address: **206 W Snyder
 Hobbs, NM**
 Phone #: **575-631-3364**

Email or Fax#: **malves@diversifiedfsi.com**

QC Package:
☒ Standard ☐ Level 4 (Full Validation)

Creditation:
☒ NELAP ☐ Other _____

EDD (Type) _____

Turn-Around Time:
☐ Standard ☒ Rush **Results by 5/6**

Project Name: **Cimerex Gadwall # 2**
 Project #: _____

Project Manager: _____

Sampler: **Michael Alves**
 On Ice: ☒ Yes ☐ No

Sample Temperature: **1.0**



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F, Cl, NO ₃ , NO ₂ , PO ₄ , SO ₄)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Air Bubbles (Y or N)
☒	☒	☒					☒				

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.
4/16	pm	soil	SP5 @ 1'	4oz jar 1	method ice	1005284
			↓ @ 2'			-001
			SP9 @ 1'			-002
			↓ @ 2'			-003
			SP12 @ 4'			-004
			↓ @ 5'			-005
			SP15 @ 4'			-006
			↓ @ 5'			-007
						-008

Date: **4/16** Time: **1900** Relinquished by: **[Signature]**
 Received by: **[Signature]** Date: **05/06/2024**
 Date: **1030**

Remarks: **cc: mburton@diversifiedfsi.com**
M Patterson
C Flores
skip@hallenvironmental.com



Environment Testing

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

ANALYTICAL REPORT

PREPARED FOR

Attn: Michael Collier
H & R Enterprises
5120 W Kansas St
Hobbs, New Mexico 88242
Generated 12/4/2023 12:19:35 PM Revision 1

JOB DESCRIPTION

GADWALL 18 FED COM #002H
Eddy County NM

JOB NUMBER

890-5661-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220



Eurofins Carlsbad

Job Notes

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

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

Authorization



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

Generated
12/4/2023 12:19:35 PM
Revision 1

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

Laboratory Job ID: 890-5661-1
SDG: Eddy County NM

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	7
Surrogate Summary	42
QC Sample Results	45
QC Association Summary	59
Lab Chronicle	71
Certification Summary	85
Method Summary	86
Sample Summary	87
Chain of Custody	88
Receipt Checklists	93

1
2
3
4
5
6
7
8
9
10
11
12
13
14

Definitions/Glossary

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

Job ID: 890-5661-1
SDG: Eddy County NM

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
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
F1	MS and/or MSD recovery exceeds control limits.
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.
α	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

Eurofins Carlsbad

Case Narrative

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

Job ID: 890-5661-1
SDG: Eddy County NM

Job ID: 890-5661-1

Laboratory: Eurofins Carlsbad

Narrative

**Job Narrative
890-5661-1**

REVISION

The report being provided is a revision of the original report sent on 11/30/2023. The report (revision 1) is being revised due to Per client email, requesting sample ID corrections to match COC.

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 1.2°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: S-1 0-1 (890-5661-1), S-1 2 (890-5661-2), S-1 3 (890-5661-3), S-1 4 (890-5661-4), S-2 0-1 (890-5661-5), S-2 2R (890-5661-6), S-3 0-1R (890-5661-7), S-4 0-1R (890-5661-8), S-5 0-1 (890-5661-9), S-5 2R (890-5661-10), S-6 0-1 (890-5661-11), S-6 2 (890-5661-12), S-6 3R (890-5661-13), S-7 0-1 (890-5661-14), S-7 2R (890-5661-15), S-8 0-1 (890-5661-16), S-8 2 (890-5661-17), S-8 3R (890-5661-18), S-9 0-1 (890-5661-19), S-9 2 (890-5661-20), S-9 3R (890-5661-21), S-10 0-1 (890-5661-22), S-10 2 (890-5661-23), S-10 3R (890-5661-24), S-11 0-1 (890-5661-25), S-11 2R (890-5661-26), S-12 0-1 (890-5661-27), S-12 2R (890-5661-28), S-13 0-1 (890-5661-29), S-13 2 (890-5661-30), S-13 3R (890-5661-31), S-14 0-1 (890-5661-32), S-14 2R (890-5661-33), S-15 0-1 (890-5661-34), S-15 2R (890-5661-35), H-1 0-1 (890-5661-36), H-2 0-1 (890-5661-37), H-3 0-1 (890-5661-38), H-4 0-1 (890-5661-39), H-5 0-1 (890-5661-40), H-6 0-1 (890-5661-41), H-7 0-1 (890-5661-42), H-8 0-1 (890-5661-43), H-9 0-1 (890-5661-44), H-10 0-1 (890-5661-45) and H-11 0-1 (890-5661-46).

GC VOA

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-67372 and 880-67581 and analytical batch 880-67631 was outside the upper control limits.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-67579 and analytical batch 880-67632 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-67426 and 880-67579 and analytical batch 880-67632 was outside the upper control limits.

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: Surrogate recovery for the following sample was outside control limits: S-1 4 (890-5661-4). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (MB 880-67694/5-A). Evidence of matrix

Case Narrative

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

Job ID: 890-5661-1
SDG: Eddy County NM

Job ID: 890-5661-1 (Continued)

Laboratory: Eurofins Carlsbad (Continued)

interferences is not obvious.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (CCV 880-67689/33). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (LCSD 880-67742/2-A). Evidence of matrix interferences is not obvious.

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: The surrogate recovery for the blank associated with preparation batch 880-67747 and analytical batch 880-67682 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: S-1 0-1 (890-5661-1), S-1 2 (890-5661-2), S-1 3 (890-5661-3), S-1 4 (890-5661-4), S-2 0-1 (890-5661-5), S-2 2R (890-5661-6), S-3 0-1R (890-5661-7), S-4 0-1R (890-5661-8), S-5 0-1 (890-5661-9), S-5 2R (890-5661-10), S-6 0-1 (890-5661-11), S-6 2 (890-5661-12), S-6 3'R (890-5661-13), S-7 0-1 (890-5661-14), S-7 2R (890-5661-15), S-8 0-1 (890-5661-16), S-8 2 (890-5661-17), S-8 3R (890-5661-18), S-9 0-1 (890-5661-19), S-9 2 (890-5661-20), (890-5661-A-1-K MS) and (890-5661-A-1-L MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-67747 and analytical batch 880-67682 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (CCV 880-67684/31), (CCV 880-67684/47) and (CCV 880-67684/58). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-67813 and analytical batch 880-67889 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: H-6 0-1 (890-5661-41), H-7 0-1 (890-5661-42), H-9 0-1 (890-5661-44), H-10 0-1 (890-5661-45), (890-5661-A-41-D MS) and (890-5661-A-41-E MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-67541 and 880-67541 and analytical batch 880-67659 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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: 890-5661-1
SDG: Eddy County NM

Client Sample ID: S-1 0-1

Lab Sample ID: 890-5661-1

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U F1	0.00199		mg/Kg		11/21/23 14:52	11/23/23 19:54	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/21/23 14:52	11/23/23 19:54	1
Ethylbenzene	<0.00199	U F1	0.00199		mg/Kg		11/21/23 14:52	11/23/23 19:54	1
m-Xylene & p-Xylene	<0.00398	U F1	0.00398		mg/Kg		11/21/23 14:52	11/23/23 19:54	1
o-Xylene	<0.00199	U F1	0.00199		mg/Kg		11/21/23 14:52	11/23/23 19:54	1
Xylenes, Total	<0.00398	U F1	0.00398		mg/Kg		11/21/23 14:52	11/23/23 19:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	78		70 - 130	11/21/23 14:52	11/23/23 19:54	1
1,4-Difluorobenzene (Surr)	89		70 - 130	11/21/23 14:52	11/23/23 19:54	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 19:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			11/27/23 20:40	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	<50.1	U	50.1		mg/Kg		11/27/23 13:29	11/27/23 20:40	1
Diesel Range Organics (Over C10-C28)	<50.1	U F1	50.1		mg/Kg		11/27/23 13:29	11/27/23 20:40	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		11/27/23 13:29	11/27/23 20:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	164	S1+	70 - 130	11/27/23 13:29	11/27/23 20:40	1
o-Terphenyl	139	S1+	70 - 130	11/27/23 13:29	11/27/23 20:40	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	86.3	F1	4.95		mg/Kg			11/27/23 10:10	1

Client Sample ID: S-1 2

Lab Sample ID: 890-5661-2

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

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		11/21/23 14:52	11/23/23 20:21	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/21/23 14:52	11/23/23 20:21	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/21/23 14:52	11/23/23 20:21	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		11/21/23 14:52	11/23/23 20:21	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/21/23 14:52	11/23/23 20:21	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/21/23 14:52	11/23/23 20:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130	11/21/23 14:52	11/23/23 20:21	1
1,4-Difluorobenzene (Surr)	78		70 - 130	11/21/23 14:52	11/23/23 20:21	1

Eurofins Carlsbad

Client Sample Results

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

Job ID: 890-5661-1
SDG: Eddy County NM

Client Sample ID: S-1 2

Date Collected: 11/17/23 00:00

Date Received: 11/17/23 13:35

Lab Sample ID: 890-5661-2

Matrix: Solid

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 20:21	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 21:43	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 13:29	11/27/23 21:43	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4		mg/Kg		11/27/23 13:29	11/27/23 21:43	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		11/27/23 13:29	11/27/23 21:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	200	S1+	70 - 130				11/27/23 13:29	11/27/23 21:43	1
o-Terphenyl	172	S1+	70 - 130				11/27/23 13:29	11/27/23 21:43	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	89.5		5.04		mg/Kg			11/27/23 10:27	1

Client Sample ID: S-1 3

Date Collected: 11/17/23 00:00

Date Received: 11/17/23 13:35

Lab Sample ID: 890-5661-3

Matrix: Solid

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		11/21/23 14:52	11/23/23 20:47	1
Toluene	<0.00201	U	0.00201		mg/Kg		11/21/23 14:52	11/23/23 20:47	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/21/23 14:52	11/23/23 20:47	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		11/21/23 14:52	11/23/23 20:47	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		11/21/23 14:52	11/23/23 20:47	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		11/21/23 14:52	11/23/23 20:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130				11/21/23 14:52	11/23/23 20:47	1
1,4-Difluorobenzene (Surr)	83		70 - 130				11/21/23 14:52	11/23/23 20:47	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 20:47	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 22:04	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	<50.2	U	50.2		mg/Kg		11/27/23 13:29	11/27/23 22:04	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2		mg/Kg		11/27/23 13:29	11/27/23 22:04	1

Eurofins Carlsbad

Client Sample Results

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

Job ID: 890-5661-1
SDG: Eddy County NM

Client Sample ID: S-1 3

Lab Sample ID: 890-5661-3

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		11/27/23 13:29	11/27/23 22:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	162	S1+	70 - 130				11/27/23 13:29	11/27/23 22:04	1
o-Terphenyl	138	S1+	70 - 130				11/27/23 13:29	11/27/23 22:04	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	79.4		5.05		mg/Kg			11/27/23 10:33	1

Client Sample ID: S-1 4

Lab Sample ID: 890-5661-4

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

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 11:10	11/28/23 00:17	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/27/23 11:10	11/28/23 00:17	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/27/23 11:10	11/28/23 00:17	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		11/27/23 11:10	11/28/23 00:17	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/27/23 11:10	11/28/23 00:17	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/27/23 11:10	11/28/23 00:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130				11/27/23 11:10	11/28/23 00:17	1
1,4-Difluorobenzene (Surr)	69	S1-	70 - 130				11/27/23 11:10	11/28/23 00:17	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 00:17	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 22:25	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 13:29	11/27/23 22:25	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		11/27/23 13:29	11/27/23 22:25	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		11/27/23 13:29	11/27/23 22:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	321	S1+	70 - 130				11/27/23 13:29	11/27/23 22:25	1
o-Terphenyl	280	S1+	70 - 130				11/27/23 13:29	11/27/23 22:25	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	90.8		4.99		mg/Kg			11/27/23 10:39	1

Eurofins Carlsbad

Client Sample Results

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

Job ID: 890-5661-1
SDG: Eddy County NM

Client Sample ID: S-2 0-1

Lab Sample ID: 890-5661-5

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

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		11/27/23 09:14	11/27/23 14:46	1
Toluene	<0.00198	U	0.00198		mg/Kg		11/27/23 09:14	11/27/23 14:46	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		11/27/23 09:14	11/27/23 14:46	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		11/27/23 09:14	11/27/23 14:46	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		11/27/23 09:14	11/27/23 14:46	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		11/27/23 09:14	11/27/23 14:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	79		70 - 130	11/27/23 09:14	11/27/23 14:46	1
1,4-Difluorobenzene (Surr)	72		70 - 130	11/27/23 09:14	11/27/23 14:46	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			11/27/23 14:46	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			11/27/23 22:47	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 13:29	11/27/23 22:47	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		11/27/23 13:29	11/27/23 22:47	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		11/27/23 13:29	11/27/23 22:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	171	S1+	70 - 130	11/27/23 13:29	11/27/23 22:47	1
o-Terphenyl	147	S1+	70 - 130	11/27/23 13:29	11/27/23 22:47	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	102		4.97		mg/Kg			11/27/23 10:44	1

Client Sample ID: S-2 2R

Lab Sample ID: 890-5661-6

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

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 09:14	11/27/23 15:13	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/27/23 09:14	11/27/23 15:13	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/27/23 09:14	11/27/23 15:13	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/27/23 09:14	11/27/23 15:13	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/27/23 09:14	11/27/23 15:13	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/27/23 09:14	11/27/23 15:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130	11/27/23 09:14	11/27/23 15:13	1
1,4-Difluorobenzene (Surr)	81		70 - 130	11/27/23 09:14	11/27/23 15:13	1

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Client Sample Results

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

Job ID: 890-5661-1
SDG: Eddy County NM

Client Sample ID: S-2 2R

Lab Sample ID: 890-5661-6

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

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			11/27/23 15:13	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			11/27/23 23:08	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 13:29	11/27/23 23:08	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/27/23 13:29	11/27/23 23:08	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/27/23 13:29	11/27/23 23:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	152	S1+	70 - 130				11/27/23 13:29	11/27/23 23:08	1
o-Terphenyl	132	S1+	70 - 130				11/27/23 13:29	11/27/23 23:08	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	95.4		4.97		mg/Kg			11/27/23 11:01	1

Client Sample ID: S-3 0-1R

Lab Sample ID: 890-5661-7

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

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 09:14	11/27/23 15:40	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/27/23 09:14	11/27/23 15:40	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/27/23 09:14	11/27/23 15:40	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/27/23 09:14	11/27/23 15:40	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/27/23 09:14	11/27/23 15:40	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/27/23 09:14	11/27/23 15:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130				11/27/23 09:14	11/27/23 15:40	1
1,4-Difluorobenzene (Surr)	75		70 - 130				11/27/23 09:14	11/27/23 15:40	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			11/27/23 15:40	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 23:29	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 13:29	11/27/23 23:29	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		11/27/23 13:29	11/27/23 23:29	1

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Client Sample Results

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

Job ID: 890-5661-1
SDG: Eddy County NM

Client Sample ID: S-3 0-1R

Lab Sample ID: 890-5661-7

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		11/27/23 13:29	11/27/23 23:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	164	S1+	70 - 130				11/27/23 13:29	11/27/23 23:29	1
o-Terphenyl	140	S1+	70 - 130				11/27/23 13:29	11/27/23 23:29	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	83.8		5.04		mg/Kg			11/27/23 11:07	1

Client Sample ID: S-4 0-1R

Lab Sample ID: 890-5661-8

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

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		11/27/23 09:14	11/27/23 16:06	1
Toluene	<0.00198	U	0.00198		mg/Kg		11/27/23 09:14	11/27/23 16:06	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		11/27/23 09:14	11/27/23 16:06	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		11/27/23 09:14	11/27/23 16:06	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		11/27/23 09:14	11/27/23 16:06	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		11/27/23 09:14	11/27/23 16:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130				11/27/23 09:14	11/27/23 16:06	1
1,4-Difluorobenzene (Surr)	94		70 - 130				11/27/23 09:14	11/27/23 16:06	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			11/27/23 16:06	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 23:50	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 13:29	11/27/23 23:50	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/27/23 13:29	11/27/23 23:50	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/27/23 13:29	11/27/23 23:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	159	S1+	70 - 130				11/27/23 13:29	11/27/23 23:50	1
o-Terphenyl	137	S1+	70 - 130				11/27/23 13:29	11/27/23 23:50	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	88.1		4.99		mg/Kg			11/27/23 11:13	1

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Client Sample Results

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

Job ID: 890-5661-1
SDG: Eddy County NM

Client Sample ID: S-5 0-1

Lab Sample ID: 890-5661-9

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

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		11/27/23 09:14	11/27/23 16:33	1
Toluene	<0.00202	U	0.00202		mg/Kg		11/27/23 09:14	11/27/23 16:33	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		11/27/23 09:14	11/27/23 16:33	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		11/27/23 09:14	11/27/23 16:33	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		11/27/23 09:14	11/27/23 16:33	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		11/27/23 09:14	11/27/23 16:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130	11/27/23 09:14	11/27/23 16:33	1
1,4-Difluorobenzene (Surr)	86		70 - 130	11/27/23 09:14	11/27/23 16:33	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			11/27/23 16:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			11/28/23 00:12	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 13:29	11/28/23 00:12	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		11/27/23 13:29	11/28/23 00:12	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		11/27/23 13:29	11/28/23 00:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	159	S1+	70 - 130	11/27/23 13:29	11/28/23 00:12	1
o-Terphenyl	136	S1+	70 - 130	11/27/23 13:29	11/28/23 00:12	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	95.8		4.99		mg/Kg			11/27/23 11:18	1

Client Sample ID: S-5 2R

Lab Sample ID: 890-5661-10

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

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 09:14	11/27/23 16:59	1
Toluene	<0.00201	U	0.00201		mg/Kg		11/27/23 09:14	11/27/23 16:59	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/27/23 09:14	11/27/23 16:59	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		11/27/23 09:14	11/27/23 16:59	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		11/27/23 09:14	11/27/23 16:59	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		11/27/23 09:14	11/27/23 16:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	11/27/23 09:14	11/27/23 16:59	1
1,4-Difluorobenzene (Surr)	85		70 - 130	11/27/23 09:14	11/27/23 16:59	1

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Client Sample Results

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

Job ID: 890-5661-1
SDG: Eddy County NM

Client Sample ID: S-5 2R

Lab Sample ID: 890-5661-10

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

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			11/27/23 16:59	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 00:33	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	<50.4	U	50.4		mg/Kg		11/27/23 13:29	11/28/23 00:33	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4		mg/Kg		11/27/23 13:29	11/28/23 00:33	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		11/27/23 13:29	11/28/23 00:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	149	S1+	70 - 130				11/27/23 13:29	11/28/23 00:33	1
o-Terphenyl	126		70 - 130				11/27/23 13:29	11/28/23 00:33	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	110		5.01		mg/Kg			11/27/23 11:24	1

Client Sample ID: S-6 0-1

Lab Sample ID: 890-5661-11

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

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 09:14	11/27/23 18:44	1
Toluene	<0.00201	U	0.00201		mg/Kg		11/27/23 09:14	11/27/23 18:44	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/27/23 09:14	11/27/23 18:44	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		11/27/23 09:14	11/27/23 18:44	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		11/27/23 09:14	11/27/23 18:44	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		11/27/23 09:14	11/27/23 18:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130				11/27/23 09:14	11/27/23 18:44	1
1,4-Difluorobenzene (Surr)	90		70 - 130				11/27/23 09:14	11/27/23 18:44	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			11/27/23 18:44	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 01:16	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 13:29	11/28/23 01:16	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		11/27/23 13:29	11/28/23 01:16	1

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Client Sample Results

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

Job ID: 890-5661-1
SDG: Eddy County NM

Client Sample ID: S-6 0-1

Lab Sample ID: 890-5661-11

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		11/27/23 13:29	11/28/23 01:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	170	S1+	70 - 130				11/27/23 13:29	11/28/23 01:16	1
o-Terphenyl	141	S1+	70 - 130				11/27/23 13:29	11/28/23 01:16	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	97.0	F1	4.95		mg/Kg			11/27/23 11:30	1

Client Sample ID: S-6 2

Lab Sample ID: 890-5661-12

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

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 09:14	11/27/23 19:10	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/27/23 09:14	11/27/23 19:10	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/27/23 09:14	11/27/23 19:10	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		11/27/23 09:14	11/27/23 19:10	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/27/23 09:14	11/27/23 19:10	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/27/23 09:14	11/27/23 19:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130				11/27/23 09:14	11/27/23 19:10	1
1,4-Difluorobenzene (Surr)	107		70 - 130				11/27/23 09:14	11/27/23 19:10	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			11/27/23 19:10	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 01:37	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 13:29	11/28/23 01:37	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/27/23 13:29	11/28/23 01:37	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/27/23 13:29	11/28/23 01:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	147	S1+	70 - 130				11/27/23 13:29	11/28/23 01:37	1
o-Terphenyl	124		70 - 130				11/27/23 13:29	11/28/23 01:37	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	91.6		5.04		mg/Kg			11/27/23 11:46	1

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Client Sample Results

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

Job ID: 890-5661-1
SDG: Eddy County NM

Client Sample ID: S-6 3'R

Lab Sample ID: 890-5661-13

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

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		11/27/23 09:14	11/27/23 19:35	1
Toluene	<0.00198	U	0.00198		mg/Kg		11/27/23 09:14	11/27/23 19:35	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		11/27/23 09:14	11/27/23 19:35	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		11/27/23 09:14	11/27/23 19:35	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		11/27/23 09:14	11/27/23 19:35	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		11/27/23 09:14	11/27/23 19:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	11/27/23 09:14	11/27/23 19:35	1
1,4-Difluorobenzene (Surr)	71		70 - 130	11/27/23 09:14	11/27/23 19:35	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			11/27/23 19:35	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 01:58	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	<49.7	U	49.7		mg/Kg		11/27/23 13:29	11/28/23 01:58	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		11/27/23 13:29	11/28/23 01:58	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		11/27/23 13:29	11/28/23 01:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	168	S1+	70 - 130	11/27/23 13:29	11/28/23 01:58	1
o-Terphenyl	143	S1+	70 - 130	11/27/23 13:29	11/28/23 01:58	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	101		5.03		mg/Kg			11/27/23 11:52	1

Client Sample ID: S-7 0-1

Lab Sample ID: 890-5661-14

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

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 09:14	11/27/23 20:01	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/27/23 09:14	11/27/23 20:01	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/27/23 09:14	11/27/23 20:01	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/27/23 09:14	11/27/23 20:01	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/27/23 09:14	11/27/23 20:01	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/27/23 09:14	11/27/23 20:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	11/27/23 09:14	11/27/23 20:01	1
1,4-Difluorobenzene (Surr)	95		70 - 130	11/27/23 09:14	11/27/23 20:01	1

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Client Sample Results

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

Job ID: 890-5661-1
SDG: Eddy County NM

Client Sample ID: S-7 0-1

Lab Sample ID: 890-5661-14

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

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			11/27/23 20:01	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			11/28/23 02:20	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 13:29	11/28/23 02:20	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/27/23 13:29	11/28/23 02:20	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/27/23 13:29	11/28/23 02:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	166	S1+	70 - 130				11/27/23 13:29	11/28/23 02:20	1
o-Terphenyl	143	S1+	70 - 130				11/27/23 13:29	11/28/23 02:20	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	79.0		5.01		mg/Kg			11/27/23 12:09	1

Client Sample ID: S-7 2R

Lab Sample ID: 890-5661-15

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

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 09:14	11/27/23 20:26	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/27/23 09:14	11/27/23 20:26	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/27/23 09:14	11/27/23 20:26	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/27/23 09:14	11/27/23 20:26	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/27/23 09:14	11/27/23 20:26	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/27/23 09:14	11/27/23 20:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130				11/27/23 09:14	11/27/23 20:26	1
1,4-Difluorobenzene (Surr)	78		70 - 130				11/27/23 09:14	11/27/23 20:26	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			11/27/23 20:26	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 02:41	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 13:29	11/28/23 02:41	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3		mg/Kg		11/27/23 13:29	11/28/23 02:41	1

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Client Sample Results

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

Job ID: 890-5661-1
SDG: Eddy County NM

Client Sample ID: S-7 2R

Lab Sample ID: 890-5661-15

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		11/27/23 13:29	11/28/23 02:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	145	S1+	70 - 130				11/27/23 13:29	11/28/23 02:41	1
o-Terphenyl	127		70 - 130				11/27/23 13:29	11/28/23 02:41	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	37.1		5.03		mg/Kg			11/27/23 12:15	1

Client Sample ID: S-8 0-1

Lab Sample ID: 890-5661-16

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

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		11/27/23 09:14	11/27/23 20:52	1
Toluene	<0.00198	U	0.00198		mg/Kg		11/27/23 09:14	11/27/23 20:52	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		11/27/23 09:14	11/27/23 20:52	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		11/27/23 09:14	11/27/23 20:52	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		11/27/23 09:14	11/27/23 20:52	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		11/27/23 09:14	11/27/23 20:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130				11/27/23 09:14	11/27/23 20:52	1
1,4-Difluorobenzene (Surr)	76		70 - 130				11/27/23 09:14	11/27/23 20:52	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			11/27/23 20:52	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 03:01	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 13:29	11/28/23 03:01	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3		mg/Kg		11/27/23 13:29	11/28/23 03:01	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		11/27/23 13:29	11/28/23 03:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	147	S1+	70 - 130				11/27/23 13:29	11/28/23 03:01	1
o-Terphenyl	127		70 - 130				11/27/23 13:29	11/28/23 03:01	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	83.9		5.05		mg/Kg			11/27/23 12:20	1

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Client Sample Results

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

Job ID: 890-5661-1
SDG: Eddy County NM

Client Sample ID: S-8 2

Lab Sample ID: 890-5661-17

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

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		11/27/23 09:14	11/27/23 21:17	1
Toluene	<0.00202	U	0.00202		mg/Kg		11/27/23 09:14	11/27/23 21:17	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		11/27/23 09:14	11/27/23 21:17	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		11/27/23 09:14	11/27/23 21:17	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		11/27/23 09:14	11/27/23 21:17	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		11/27/23 09:14	11/27/23 21:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	11/27/23 09:14	11/27/23 21:17	1
1,4-Difluorobenzene (Surr)	109		70 - 130	11/27/23 09:14	11/27/23 21:17	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			11/27/23 21:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3		mg/Kg			11/28/23 03:23	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 13:29	11/28/23 03:23	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3		mg/Kg		11/27/23 13:29	11/28/23 03:23	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		11/27/23 13:29	11/28/23 03:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	160	S1+	70 - 130	11/27/23 13:29	11/28/23 03:23	1
o-Terphenyl	138	S1+	70 - 130	11/27/23 13:29	11/28/23 03:23	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	82.2		5.05		mg/Kg			11/27/23 12:26	1

Client Sample ID: S-8 3R

Lab Sample ID: 890-5661-18

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

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 09:14	11/27/23 21:43	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/27/23 09:14	11/27/23 21:43	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/27/23 09:14	11/27/23 21:43	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		11/27/23 09:14	11/27/23 21:43	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/27/23 09:14	11/27/23 21:43	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		11/27/23 09:14	11/27/23 21:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	11/27/23 09:14	11/27/23 21:43	1
1,4-Difluorobenzene (Surr)	106		70 - 130	11/27/23 09:14	11/27/23 21:43	1

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Client Sample Results

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

Job ID: 890-5661-1
SDG: Eddy County NM

Client Sample ID: S-8 3R

Lab Sample ID: 890-5661-18

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

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			11/27/23 21:43	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 03:44	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 13:29	11/28/23 03:44	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4		mg/Kg		11/27/23 13:29	11/28/23 03:44	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		11/27/23 13:29	11/28/23 03:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	149	S1+	70 - 130				11/27/23 13:29	11/28/23 03:44	1
o-Terphenyl	128		70 - 130				11/27/23 13:29	11/28/23 03:44	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	86.4		5.02		mg/Kg			11/27/23 12:32	1

Client Sample ID: S-9 0-1

Lab Sample ID: 890-5661-19

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

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 09:14	11/27/23 22:08	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/27/23 09:14	11/27/23 22:08	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/27/23 09:14	11/27/23 22:08	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/27/23 09:14	11/27/23 22:08	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/27/23 09:14	11/27/23 22:08	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/27/23 09:14	11/27/23 22:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130				11/27/23 09:14	11/27/23 22:08	1
1,4-Difluorobenzene (Surr)	83		70 - 130				11/27/23 09:14	11/27/23 22:08	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			11/27/23 22:08	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			11/28/23 04:05	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 13:29	11/28/23 04:05	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/27/23 13:29	11/28/23 04:05	1

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Client Sample Results

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

Job ID: 890-5661-1
SDG: Eddy County NM

Client Sample ID: S-9 0-1

Lab Sample ID: 890-5661-19

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/27/23 13:29	11/28/23 04:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	149	S1+	70 - 130				11/27/23 13:29	11/28/23 04:05	1
o-Terphenyl	129		70 - 130				11/27/23 13:29	11/28/23 04:05	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	81.7		5.02		mg/Kg			11/27/23 12:37	1

Client Sample ID: S-9 2

Lab Sample ID: 890-5661-20

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

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 09:14	11/27/23 22:34	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/27/23 09:14	11/27/23 22:34	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/27/23 09:14	11/27/23 22:34	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/27/23 09:14	11/27/23 22:34	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/27/23 09:14	11/27/23 22:34	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/27/23 09:14	11/27/23 22:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130				11/27/23 09:14	11/27/23 22:34	1
1,4-Difluorobenzene (Surr)	124		70 - 130				11/27/23 09:14	11/27/23 22:34	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			11/27/23 22:34	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			11/28/23 04:26	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 13:29	11/28/23 04:26	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		11/27/23 13:29	11/28/23 04:26	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		11/27/23 13:29	11/28/23 04:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	137	S1+	70 - 130				11/27/23 13:29	11/28/23 04:26	1
o-Terphenyl	117		70 - 130				11/27/23 13:29	11/28/23 04:26	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	85.4		5.02		mg/Kg			11/27/23 12:43	1

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Client Sample Results

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

Job ID: 890-5661-1
SDG: Eddy County NM

Client Sample ID: S-9 3R

Lab Sample ID: 890-5661-21

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

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		11/21/23 15:01	11/23/23 15:22	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/21/23 15:01	11/23/23 15:22	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/21/23 15:01	11/23/23 15:22	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/21/23 15:01	11/23/23 15:22	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/21/23 15:01	11/23/23 15:22	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/21/23 15:01	11/23/23 15:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	79		70 - 130	11/21/23 15:01	11/23/23 15:22	1
1,4-Difluorobenzene (Surr)	106		70 - 130	11/21/23 15:01	11/23/23 15:22	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 15:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	51.1		49.9		mg/Kg			11/27/23 20:40	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 13:32	11/27/23 20:40	1
Diesel Range Organics (Over C10-C28)	51.1		49.9		mg/Kg		11/27/23 13:32	11/27/23 20:40	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/27/23 13:32	11/27/23 20:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	124		70 - 130	11/27/23 13:32	11/27/23 20:40	1
o-Terphenyl	129		70 - 130	11/27/23 13:32	11/27/23 20:40	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	61.8		4.99		mg/Kg			11/23/23 02:40	1

Client Sample ID: S-10 0-1

Lab Sample ID: 890-5661-22

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

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		11/21/23 15:01	11/23/23 15:43	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/21/23 15:01	11/23/23 15:43	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/21/23 15:01	11/23/23 15:43	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		11/21/23 15:01	11/23/23 15:43	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/21/23 15:01	11/23/23 15:43	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/21/23 15:01	11/23/23 15:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130	11/21/23 15:01	11/23/23 15:43	1
1,4-Difluorobenzene (Surr)	111		70 - 130	11/21/23 15:01	11/23/23 15:43	1

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Client Sample Results

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

Job ID: 890-5661-1
SDG: Eddy County NM

Client Sample ID: S-10 0-1

Lab Sample ID: 890-5661-22

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

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 15:43	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 21:43	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 13:32	11/27/23 21:43	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		11/27/23 13:32	11/27/23 21:43	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		11/27/23 13:32	11/27/23 21:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130				11/27/23 13:32	11/27/23 21:43	1
o-Terphenyl	113		70 - 130				11/27/23 13:32	11/27/23 21:43	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	63.4		4.96		mg/Kg			11/23/23 02:57	1

Client Sample ID: S-10 2

Lab Sample ID: 890-5661-23

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

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		11/21/23 15:01	11/23/23 16:03	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/21/23 15:01	11/23/23 16:03	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/21/23 15:01	11/23/23 16:03	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		11/21/23 15:01	11/23/23 16:03	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/21/23 15:01	11/23/23 16:03	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		11/21/23 15:01	11/23/23 16:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130				11/21/23 15:01	11/23/23 16:03	1
1,4-Difluorobenzene (Surr)	114		70 - 130				11/21/23 15:01	11/23/23 16:03	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 16:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	51.9		50.4		mg/Kg			11/27/23 22:04	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	<50.4	U	50.4		mg/Kg		11/27/23 13:32	11/27/23 22:04	1
Diesel Range Organics (Over C10-C28)	51.9		50.4		mg/Kg		11/27/23 13:32	11/27/23 22:04	1

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Client Sample Results

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

Job ID: 890-5661-1
SDG: Eddy County NM

Client Sample ID: S-10 2

Lab Sample ID: 890-5661-23

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		11/27/23 13:32	11/27/23 22:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	126		70 - 130				11/27/23 13:32	11/27/23 22:04	1
o-Terphenyl	130		70 - 130				11/27/23 13:32	11/27/23 22:04	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	60.2		5.01		mg/Kg			11/23/23 03:02	1

Client Sample ID: S-10 3R

Lab Sample ID: 890-5661-24

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

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		11/21/23 15:01	11/23/23 16:24	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/21/23 15:01	11/23/23 16:24	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/21/23 15:01	11/23/23 16:24	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/21/23 15:01	11/23/23 16:24	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/21/23 15:01	11/23/23 16:24	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/21/23 15:01	11/23/23 16:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130				11/21/23 15:01	11/23/23 16:24	1
1,4-Difluorobenzene (Surr)	112		70 - 130				11/21/23 15:01	11/23/23 16:24	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 16:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	54.7		49.7		mg/Kg			11/27/23 22:25	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 13:32	11/27/23 22:25	1
Diesel Range Organics (Over C10-C28)	54.7		49.7		mg/Kg		11/27/23 13:32	11/27/23 22:25	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		11/27/23 13:32	11/27/23 22:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	118		70 - 130				11/27/23 13:32	11/27/23 22:25	1
o-Terphenyl	124		70 - 130				11/27/23 13:32	11/27/23 22:25	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	65.3		4.95		mg/Kg			11/23/23 03:08	1

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Client Sample Results

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

Job ID: 890-5661-1
SDG: Eddy County NM

Client Sample ID: S-11 0-1

Lab Sample ID: 890-5661-25

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

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		11/21/23 15:01	11/23/23 16:44	1
Toluene	<0.00198	U	0.00198		mg/Kg		11/21/23 15:01	11/23/23 16:44	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		11/21/23 15:01	11/23/23 16:44	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		11/21/23 15:01	11/23/23 16:44	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		11/21/23 15:01	11/23/23 16:44	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		11/21/23 15:01	11/23/23 16:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	11/21/23 15:01	11/23/23 16:44	1
1,4-Difluorobenzene (Surr)	115		70 - 130	11/21/23 15:01	11/23/23 16:44	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 16:44	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			11/27/23 22:47	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 13:32	11/27/23 22:47	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		11/27/23 13:32	11/27/23 22:47	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		11/27/23 13:32	11/27/23 22:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130	11/27/23 13:32	11/27/23 22:47	1
o-Terphenyl	109		70 - 130	11/27/23 13:32	11/27/23 22:47	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	67.3		5.04		mg/Kg			11/23/23 03:14	1

Client Sample ID: S-11 2R

Lab Sample ID: 890-5661-26

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

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		11/21/23 15:01	11/23/23 17:04	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/21/23 15:01	11/23/23 17:04	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/21/23 15:01	11/23/23 17:04	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		11/21/23 15:01	11/23/23 17:04	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/21/23 15:01	11/23/23 17:04	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/21/23 15:01	11/23/23 17:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	11/21/23 15:01	11/23/23 17:04	1
1,4-Difluorobenzene (Surr)	118		70 - 130	11/21/23 15:01	11/23/23 17:04	1

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Client Sample Results

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

Job ID: 890-5661-1
SDG: Eddy County NM

Client Sample ID: S-11 2R

Lab Sample ID: 890-5661-26

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

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 17:04	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 23:08	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 13:32	11/27/23 23:08	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/27/23 13:32	11/27/23 23:08	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/27/23 13:32	11/27/23 23:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130				11/27/23 13:32	11/27/23 23:08	1
o-Terphenyl	116		70 - 130				11/27/23 13:32	11/27/23 23:08	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	64.7		4.96		mg/Kg			11/23/23 03:30	1

Client Sample ID: S-12 0-1

Lab Sample ID: 890-5661-27

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

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		11/21/23 15:01	11/23/23 17:25	1
Toluene	<0.00201	U	0.00201		mg/Kg		11/21/23 15:01	11/23/23 17:25	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/21/23 15:01	11/23/23 17:25	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		11/21/23 15:01	11/23/23 17:25	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		11/21/23 15:01	11/23/23 17:25	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		11/21/23 15:01	11/23/23 17:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130				11/21/23 15:01	11/23/23 17:25	1
1,4-Difluorobenzene (Surr)	114		70 - 130				11/21/23 15:01	11/23/23 17:25	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 17:25	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 23:29	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 13:32	11/27/23 23:29	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		11/27/23 13:32	11/27/23 23:29	1

Eurofins Carlsbad

Client Sample Results

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

Job ID: 890-5661-1
SDG: Eddy County NM

Client Sample ID: S-12 0-1

Lab Sample ID: 890-5661-27

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		11/27/23 13:32	11/27/23 23:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	115		70 - 130				11/27/23 13:32	11/27/23 23:29	1
o-Terphenyl	122		70 - 130				11/27/23 13:32	11/27/23 23:29	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	66.5		4.95		mg/Kg			11/23/23 03:36	1

Client Sample ID: S-12 2R

Lab Sample ID: 890-5661-28

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

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		11/21/23 15:01	11/23/23 17:45	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/21/23 15:01	11/23/23 17:45	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/21/23 15:01	11/23/23 17:45	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/21/23 15:01	11/23/23 17:45	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/21/23 15:01	11/23/23 17:45	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/21/23 15:01	11/23/23 17:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130				11/21/23 15:01	11/23/23 17:45	1
1,4-Difluorobenzene (Surr)	113		70 - 130				11/21/23 15:01	11/23/23 17:45	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 17:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3		mg/Kg			11/27/23 23:50	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 13:32	11/27/23 23:50	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3		mg/Kg		11/27/23 13:32	11/27/23 23:50	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		11/27/23 13:32	11/27/23 23:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130				11/27/23 13:32	11/27/23 23:50	1
o-Terphenyl	117		70 - 130				11/27/23 13:32	11/27/23 23:50	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	72.6		4.97		mg/Kg			11/23/23 03:42	1

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Client Sample Results

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

Job ID: 890-5661-1
SDG: Eddy County NM

Client Sample ID: S-13 0-1

Lab Sample ID: 890-5661-29

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

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		11/21/23 15:01	11/23/23 18:06	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/21/23 15:01	11/23/23 18:06	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/21/23 15:01	11/23/23 18:06	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/21/23 15:01	11/23/23 18:06	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/21/23 15:01	11/23/23 18:06	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/21/23 15:01	11/23/23 18:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	11/21/23 15:01	11/23/23 18:06	1
1,4-Difluorobenzene (Surr)	115		70 - 130	11/21/23 15:01	11/23/23 18:06	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 18:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	51.3		50.3		mg/Kg			11/28/23 00:12	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 13:32	11/28/23 00:12	1
Diesel Range Organics (Over C10-C28)	51.3		50.3		mg/Kg		11/27/23 13:32	11/28/23 00:12	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		11/27/23 13:32	11/28/23 00:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	125		70 - 130	11/27/23 13:32	11/28/23 00:12	1
o-Terphenyl	127		70 - 130	11/27/23 13:32	11/28/23 00:12	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	59.4		5.02		mg/Kg			11/23/23 03:47	1

Client Sample ID: S-13 2

Lab Sample ID: 890-5661-30

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

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		11/21/23 15:01	11/23/23 18:26	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/21/23 15:01	11/23/23 18:26	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/21/23 15:01	11/23/23 18:26	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		11/21/23 15:01	11/23/23 18:26	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/21/23 15:01	11/23/23 18:26	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/21/23 15:01	11/23/23 18:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	11/21/23 15:01	11/23/23 18:26	1
1,4-Difluorobenzene (Surr)	119		70 - 130	11/21/23 15:01	11/23/23 18:26	1

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Client Sample Results

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

Job ID: 890-5661-1
SDG: Eddy County NM

Client Sample ID: S-13 2

Lab Sample ID: 890-5661-30

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

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 18:26	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 00:33	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	<50.4	U	50.4		mg/Kg		11/27/23 13:32	11/28/23 00:33	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4		mg/Kg		11/27/23 13:32	11/28/23 00:33	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		11/27/23 13:32	11/28/23 00:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130				11/27/23 13:32	11/28/23 00:33	1
o-Terphenyl	110		70 - 130				11/27/23 13:32	11/28/23 00:33	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	66.0		5.00		mg/Kg			11/23/23 03:53	1

Client Sample ID: S-13 3R

Lab Sample ID: 890-5661-31

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

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		11/21/23 15:01	11/23/23 20:16	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/21/23 15:01	11/23/23 20:16	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/21/23 15:01	11/23/23 20:16	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		11/21/23 15:01	11/23/23 20:16	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/21/23 15:01	11/23/23 20:16	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		11/21/23 15:01	11/23/23 20:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		70 - 130				11/21/23 15:01	11/23/23 20:16	1
1,4-Difluorobenzene (Surr)	105		70 - 130				11/21/23 15:01	11/23/23 20:16	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 20:16	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 01:16	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 13:32	11/28/23 01:16	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		11/27/23 13:32	11/28/23 01:16	1

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Client Sample Results

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

Job ID: 890-5661-1
SDG: Eddy County NM

Client Sample ID: S-13 3R

Lab Sample ID: 890-5661-31

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		11/27/23 13:32	11/28/23 01:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130				11/27/23 13:32	11/28/23 01:16	1
o-Terphenyl	109		70 - 130				11/27/23 13:32	11/28/23 01:16	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	71.5		4.98		mg/Kg			11/23/23 03:59	1

Client Sample ID: S-14 0-1

Lab Sample ID: 890-5661-32

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

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		11/21/23 15:01	11/23/23 20:36	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/21/23 15:01	11/23/23 20:36	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/21/23 15:01	11/23/23 20:36	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/21/23 15:01	11/23/23 20:36	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/21/23 15:01	11/23/23 20:36	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/21/23 15:01	11/23/23 20:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130				11/21/23 15:01	11/23/23 20:36	1
1,4-Difluorobenzene (Surr)	111		70 - 130				11/21/23 15:01	11/23/23 20:36	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 20:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			11/28/23 01:37	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 13:32	11/28/23 01:37	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/27/23 13:32	11/28/23 01:37	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/27/23 13:32	11/28/23 01:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130				11/27/23 13:32	11/28/23 01:37	1
o-Terphenyl	108		70 - 130				11/27/23 13:32	11/28/23 01:37	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	72.6		4.98		mg/Kg			11/23/23 04:16	1

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Client Sample Results

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

Job ID: 890-5661-1
SDG: Eddy County NM

Client Sample ID: S-14 2R

Lab Sample ID: 890-5661-33

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

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		11/21/23 15:01	11/23/23 20:57	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/21/23 15:01	11/23/23 20:57	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/21/23 15:01	11/23/23 20:57	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/21/23 15:01	11/23/23 20:57	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/21/23 15:01	11/23/23 20:57	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/21/23 15:01	11/23/23 20:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	11/21/23 15:01	11/23/23 20:57	1
1,4-Difluorobenzene (Surr)	120		70 - 130	11/21/23 15:01	11/23/23 20:57	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 20:57	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 01:58	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	<49.9	U	49.9		mg/Kg		11/27/23 13:32	11/28/23 01:58	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/27/23 13:32	11/28/23 01:58	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/27/23 13:32	11/28/23 01:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130	11/27/23 13:32	11/28/23 01:58	1
o-Terphenyl	115		70 - 130	11/27/23 13:32	11/28/23 01:58	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	58.0		5.04		mg/Kg			11/23/23 04:21	1

Client Sample ID: S-15 0-1

Lab Sample ID: 890-5661-34

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

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		11/21/23 15:01	11/23/23 21:17	1
Toluene	<0.00198	U	0.00198		mg/Kg		11/21/23 15:01	11/23/23 21:17	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		11/21/23 15:01	11/23/23 21:17	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		11/21/23 15:01	11/23/23 21:17	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		11/21/23 15:01	11/23/23 21:17	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		11/21/23 15:01	11/23/23 21:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130	11/21/23 15:01	11/23/23 21:17	1
1,4-Difluorobenzene (Surr)	115		70 - 130	11/21/23 15:01	11/23/23 21:17	1

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Client Sample Results

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

Job ID: 890-5661-1
SDG: Eddy County NM

Client Sample ID: S-15 0-1

Lab Sample ID: 890-5661-34

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

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 21:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3		mg/Kg			11/28/23 02:20	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 13:32	11/28/23 02:20	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3		mg/Kg		11/27/23 13:32	11/28/23 02:20	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		11/27/23 13:32	11/28/23 02:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	124		70 - 130				11/27/23 13:32	11/28/23 02:20	1
o-Terphenyl	124		70 - 130				11/27/23 13:32	11/28/23 02:20	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	65.1		5.01		mg/Kg			11/23/23 04:38	1

Client Sample ID: S-15 2R

Lab Sample ID: 890-5661-35

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

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		11/21/23 15:01	11/23/23 21:38	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/21/23 15:01	11/23/23 21:38	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/21/23 15:01	11/23/23 21:38	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		11/21/23 15:01	11/23/23 21:38	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/21/23 15:01	11/23/23 21:38	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		11/21/23 15:01	11/23/23 21:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130				11/21/23 15:01	11/23/23 21:38	1
1,4-Difluorobenzene (Surr)	115		70 - 130				11/21/23 15:01	11/23/23 21:38	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 21:38	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			11/28/23 02:41	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 13:32	11/28/23 02:41	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2		mg/Kg		11/27/23 13:32	11/28/23 02:41	1

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Client Sample Results

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

Job ID: 890-5661-1
SDG: Eddy County NM

Client Sample ID: S-15 2R

Lab Sample ID: 890-5661-35

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		11/27/23 13:32	11/28/23 02:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130				11/27/23 13:32	11/28/23 02:41	1
o-Terphenyl	114		70 - 130				11/27/23 13:32	11/28/23 02:41	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	69.4		5.03		mg/Kg			11/23/23 04:44	1

Client Sample ID: H-1 0-1

Lab Sample ID: 890-5661-36

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

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		11/21/23 15:01	11/23/23 21:58	1
Toluene	<0.00201	U	0.00201		mg/Kg		11/21/23 15:01	11/23/23 21:58	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/21/23 15:01	11/23/23 21:58	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		11/21/23 15:01	11/23/23 21:58	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		11/21/23 15:01	11/23/23 21:58	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		11/21/23 15:01	11/23/23 21:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130				11/21/23 15:01	11/23/23 21:58	1
1,4-Difluorobenzene (Surr)	116		70 - 130				11/21/23 15:01	11/23/23 21:58	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 21:58	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 03:01	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 13:32	11/28/23 03:01	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		11/27/23 13:32	11/28/23 03:01	1
OII Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		11/27/23 13:32	11/28/23 03:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130				11/27/23 13:32	11/28/23 03:01	1
o-Terphenyl	114		70 - 130				11/27/23 13:32	11/28/23 03:01	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	56.4		5.00		mg/Kg			11/23/23 04:50	1

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Client Sample Results

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

Job ID: 890-5661-1
SDG: Eddy County NM

Client Sample ID: H-2 0-1

Lab Sample ID: 890-5661-37

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

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		11/21/23 15:01	11/23/23 22:19	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/21/23 15:01	11/23/23 22:19	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/21/23 15:01	11/23/23 22:19	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/21/23 15:01	11/23/23 22:19	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/21/23 15:01	11/23/23 22:19	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/21/23 15:01	11/23/23 22:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	11/21/23 15:01	11/23/23 22:19	1
1,4-Difluorobenzene (Surr)	114		70 - 130	11/21/23 15:01	11/23/23 22:19	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 22:19	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 03:23	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 13:32	11/28/23 03:23	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		11/27/23 13:32	11/28/23 03:23	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		11/27/23 13:32	11/28/23 03:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130	11/27/23 13:32	11/28/23 03:23	1
o-Terphenyl	106		70 - 130	11/27/23 13:32	11/28/23 03:23	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	52.4		4.96		mg/Kg			11/23/23 04:55	1

Client Sample ID: H-3 0-1

Lab Sample ID: 890-5661-38

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

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		11/21/23 15:01	11/23/23 22:39	1
Toluene	<0.00198	U	0.00198		mg/Kg		11/21/23 15:01	11/23/23 22:39	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		11/21/23 15:01	11/23/23 22:39	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		11/21/23 15:01	11/23/23 22:39	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		11/21/23 15:01	11/23/23 22:39	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		11/21/23 15:01	11/23/23 22:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	11/21/23 15:01	11/23/23 22:39	1
1,4-Difluorobenzene (Surr)	112		70 - 130	11/21/23 15:01	11/23/23 22:39	1

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Client Sample Results

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

Job ID: 890-5661-1
SDG: Eddy County NM

Client Sample ID: H-3 0-1

Lab Sample ID: 890-5661-38

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

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 22:39	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 03:44	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 13:32	11/28/23 03:44	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/27/23 13:32	11/28/23 03:44	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/27/23 13:32	11/28/23 03:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130				11/27/23 13:32	11/28/23 03:44	1
o-Terphenyl	115		70 - 130				11/27/23 13:32	11/28/23 03:44	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	62.4		5.00		mg/Kg			11/23/23 05:01	1

Client Sample ID: H-4 0-1

Lab Sample ID: 890-5661-39

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

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		11/21/23 15:01	11/23/23 23:00	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/21/23 15:01	11/23/23 23:00	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/21/23 15:01	11/23/23 23:00	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/21/23 15:01	11/23/23 23:00	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/21/23 15:01	11/23/23 23:00	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/21/23 15:01	11/23/23 23:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130				11/21/23 15:01	11/23/23 23:00	1
1,4-Difluorobenzene (Surr)	120		70 - 130				11/21/23 15:01	11/23/23 23:00	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 23:00	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 04:05	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 13:32	11/28/23 04:05	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		11/27/23 13:32	11/28/23 04:05	1

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Client Sample Results

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

Job ID: 890-5661-1
SDG: Eddy County NM

Client Sample ID: H-4 0-1

Lab Sample ID: 890-5661-39

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		11/27/23 13:32	11/28/23 04:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130				11/27/23 13:32	11/28/23 04:05	1
o-Terphenyl	106		70 - 130				11/27/23 13:32	11/28/23 04:05	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	54.4		5.02		mg/Kg			11/23/23 05:07	1

Client Sample ID: H-5 0-1

Lab Sample ID: 890-5661-40

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

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		11/21/23 15:01	11/23/23 23:20	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/21/23 15:01	11/23/23 23:20	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/21/23 15:01	11/23/23 23:20	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		11/21/23 15:01	11/23/23 23:20	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/21/23 15:01	11/23/23 23:20	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/21/23 15:01	11/23/23 23:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130				11/21/23 15:01	11/23/23 23:20	1
1,4-Difluorobenzene (Surr)	113		70 - 130				11/21/23 15:01	11/23/23 23:20	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 23:20	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 04:26	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 13:32	11/28/23 04:26	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		11/27/23 13:32	11/28/23 04:26	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		11/27/23 13:32	11/28/23 04:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130				11/27/23 13:32	11/28/23 04:26	1
o-Terphenyl	119		70 - 130				11/27/23 13:32	11/28/23 04:26	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	57.3		4.99		mg/Kg			11/23/23 05:12	1

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Client Sample Results

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

Job ID: 890-5661-1
SDG: Eddy County NM

Client Sample ID: H-6 0-1

Lab Sample ID: 890-5661-41

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

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 02:41	1
Toluene	<0.00201	U	0.00201		mg/Kg		11/27/23 10:51	11/28/23 02:41	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/27/23 10:51	11/28/23 02:41	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		11/27/23 10:51	11/28/23 02:41	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		11/27/23 10:51	11/28/23 02:41	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		11/27/23 10:51	11/28/23 02:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130	11/27/23 10:51	11/28/23 02:41	1
1,4-Difluorobenzene (Surr)	112		70 - 130	11/27/23 10:51	11/28/23 02:41	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 02:41	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			11/29/23 10:46	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		11/28/23 08:54	11/29/23 10:46	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2		mg/Kg		11/28/23 08:54	11/29/23 10:46	1
Oil Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		11/28/23 08:54	11/29/23 10:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	135	S1+	70 - 130	11/28/23 08:54	11/29/23 10:46	1
o-Terphenyl	116		70 - 130	11/28/23 08:54	11/29/23 10:46	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	50.3		4.98		mg/Kg			11/23/23 09:43	1

Client Sample ID: H-7 0-1

Lab Sample ID: 890-5661-42

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

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		11/27/23 10:51	11/28/23 03:01	1
Toluene	<0.00198	U	0.00198		mg/Kg		11/27/23 10:51	11/28/23 03:01	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		11/27/23 10:51	11/28/23 03:01	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		11/27/23 10:51	11/28/23 03:01	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		11/27/23 10:51	11/28/23 03:01	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		11/27/23 10:51	11/28/23 03:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	11/27/23 10:51	11/28/23 03:01	1
1,4-Difluorobenzene (Surr)	112		70 - 130	11/27/23 10:51	11/28/23 03:01	1

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Client Sample Results

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

Job ID: 890-5661-1
SDG: Eddy County NM

Client Sample ID: H-7 0-1

Lab Sample ID: 890-5661-42

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

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			11/28/23 03:01	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			11/29/23 11:53	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		11/28/23 08:54	11/29/23 11:53	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/28/23 08:54	11/29/23 11:53	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/28/23 08:54	11/29/23 11:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	136	S1+	70 - 130				11/28/23 08:54	11/29/23 11:53	1
o-Terphenyl	118		70 - 130				11/28/23 08:54	11/29/23 11:53	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	50.2		4.98		mg/Kg			11/23/23 09:49	1

Client Sample ID: H-8 0-1

Lab Sample ID: 890-5661-43

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

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 04:51	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/27/23 10:51	11/28/23 04:51	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/27/23 10:51	11/28/23 04:51	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/27/23 10:51	11/28/23 04:51	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/27/23 10:51	11/28/23 04:51	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/27/23 10:51	11/28/23 04:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130				11/27/23 10:51	11/28/23 04:51	1
1,4-Difluorobenzene (Surr)	104		70 - 130				11/27/23 10:51	11/28/23 04:51	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 04:51	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			11/29/23 12:15	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		11/28/23 08:54	11/29/23 12:15	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		11/28/23 08:54	11/29/23 12:15	1

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Client Sample Results

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

Job ID: 890-5661-1
SDG: Eddy County NM

Client Sample ID: H-8 0-1

Lab Sample ID: 890-5661-43

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		11/28/23 08:54	11/29/23 12:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	126		70 - 130				11/28/23 08:54	11/29/23 12:15	1
o-Terphenyl	112		70 - 130				11/28/23 08:54	11/29/23 12:15	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	52.8		5.05		mg/Kg			11/23/23 09:56	1

Client Sample ID: H-9 0-1

Lab Sample ID: 890-5661-44

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

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 05:12	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/27/23 10:51	11/28/23 05:12	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/27/23 10:51	11/28/23 05:12	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		11/27/23 10:51	11/28/23 05:12	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/27/23 10:51	11/28/23 05:12	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/27/23 10:51	11/28/23 05:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130				11/27/23 10:51	11/28/23 05:12	1
1,4-Difluorobenzene (Surr)	116		70 - 130				11/27/23 10:51	11/28/23 05:12	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 05:12	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			11/29/23 12:37	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		11/28/23 08:54	11/29/23 12:37	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		11/28/23 08:54	11/29/23 12:37	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		11/28/23 08:54	11/29/23 12:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	149	S1+	70 - 130				11/28/23 08:54	11/29/23 12:37	1
o-Terphenyl	133	S1+	70 - 130				11/28/23 08:54	11/29/23 12:37	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	53.0		4.98		mg/Kg			11/23/23 10:02	1

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Client Sample Results

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

Job ID: 890-5661-1
SDG: Eddy County NM

Client Sample ID: H-10 0-1

Lab Sample ID: 890-5661-45

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

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 05:32	1
Toluene	<0.00201	U	0.00201		mg/Kg		11/27/23 10:51	11/28/23 05:32	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/27/23 10:51	11/28/23 05:32	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		11/27/23 10:51	11/28/23 05:32	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		11/27/23 10:51	11/28/23 05:32	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		11/27/23 10:51	11/28/23 05:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130	11/27/23 10:51	11/28/23 05:32	1
1,4-Difluorobenzene (Surr)	120		70 - 130	11/27/23 10:51	11/28/23 05:32	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 05:32	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			11/29/23 12:59	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		11/28/23 08:54	11/29/23 12:59	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		11/28/23 08:54	11/29/23 12:59	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		11/28/23 08:54	11/29/23 12:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	138	S1+	70 - 130	11/28/23 08:54	11/29/23 12:59	1
o-Terphenyl	121		70 - 130	11/28/23 08:54	11/29/23 12:59	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	60.0		4.97		mg/Kg			11/23/23 10:09	1

Client Sample ID: H-11 0-1

Lab Sample ID: 890-5661-46

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

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 05:52	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/27/23 10:51	11/28/23 05:52	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/27/23 10:51	11/28/23 05:52	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/27/23 10:51	11/28/23 05:52	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/27/23 10:51	11/28/23 05:52	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/27/23 10:51	11/28/23 05:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130	11/27/23 10:51	11/28/23 05:52	1
1,4-Difluorobenzene (Surr)	111		70 - 130	11/27/23 10:51	11/28/23 05:52	1

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Client Sample Results

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

Job ID: 890-5661-1
SDG: Eddy County NM

Client Sample ID: H-11 0-1

Lab Sample ID: 890-5661-46

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

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 05:52	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			11/29/23 13:22	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		11/28/23 08:54	11/29/23 13:22	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		11/28/23 08:54	11/29/23 13:22	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		11/28/23 08:54	11/29/23 13:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	122		70 - 130				11/28/23 08:54	11/29/23 13:22	1
o-Terphenyl	109		70 - 130				11/28/23 08:54	11/29/23 13:22	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	71.8		5.02		mg/Kg			11/23/23 10:16	1

Surrogate Summary

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

Job ID: 890-5661-1
SDG: Eddy County NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		BFB1 (70-130)	DFBZ1 (70-130)
890-5661-1	S-1 0-1	78	89
890-5661-1 MS	S-1 0-1	108	93
890-5661-1 MSD	S-1 0-1	87	93
890-5661-2	S-1 2	91	78
890-5661-3	S-1 3	89	83
890-5661-4	S-1 4	94	69 S1-
890-5661-5	S-2 0-1	79	72
890-5661-6	S-2 2R	93	81
890-5661-7	S-3 0-1R	89	75
890-5661-8	S-4 0-1R	106	94
890-5661-9	S-5 0-1	90	86
890-5661-10	S-5 2R	98	85
890-5661-11	S-6 0-1	101	90
890-5661-12	S-6 2	115	107
890-5661-13	S-6 3'R	105	71
890-5661-14	S-7 0-1	108	95
890-5661-15	S-7 2R	111	78
890-5661-16	S-8 0-1	96	76
890-5661-17	S-8 2	115	109
890-5661-18	S-8 3R	116	106
890-5661-19	S-9 0-1	118	83
890-5661-20	S-9 2	96	124
890-5661-21	S-9 3R	79	106
890-5661-21 MS	S-9 3R	107	98
890-5661-21 MSD	S-9 3R	99	115
890-5661-22	S-10 0-1	93	111
890-5661-23	S-10 2	106	114
890-5661-24	S-10 3R	89	112
890-5661-25	S-11 0-1	105	115
890-5661-26	S-11 2R	109	118
890-5661-27	S-12 0-1	99	114
890-5661-28	S-12 2R	93	113
890-5661-29	S-13 0-1	102	115
890-5661-30	S-13 2	101	119
890-5661-31	S-13 3R	82	105
890-5661-32	S-14 0-1	99	111
890-5661-33	S-14 2R	96	120
890-5661-34	S-15 0-1	94	115
890-5661-35	S-15 2R	104	115
890-5661-36	H-1 0-1	99	116
890-5661-37	H-2 0-1	101	114
890-5661-38	H-3 0-1	100	112
890-5661-39	H-4 0-1	99	120
890-5661-40	H-5 0-1	102	113
890-5661-41	H-6 0-1	92	112
890-5661-42	H-7 0-1	98	112
890-5661-43	H-8 0-1	87	104
890-5661-44	H-9 0-1	94	116
890-5661-45	H-10 0-1	95	120

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Surrogate Summary

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

Job ID: 890-5661-1
SDG: Eddy County NM

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-5661-46	H-11 0-1	95	111
LCS 880-67579/1-A	Lab Control Sample	104	82
LCS 880-67581/1-A	Lab Control Sample	93	96
LCS 880-67694/1-A	Lab Control Sample	103	98
LCS 880-67739/1-A	Lab Control Sample	95	101
LCS 880-67742/1-A	Lab Control Sample	122	99
LCSD 880-67579/2-A	Lab Control Sample Dup	105	92
LCSD 880-67581/2-A	Lab Control Sample Dup	96	100
LCSD 880-67694/2-A	Lab Control Sample Dup	79	80
LCSD 880-67739/2-A	Lab Control Sample Dup	93	104
LCSD 880-67742/2-A	Lab Control Sample Dup	132 S1+	78
MB 880-67372/5-B	Method Blank	121	153 S1+
MB 880-67426/5-A	Method Blank	60 S1-	117
MB 880-67579/5-A	Method Blank	50 S1-	98
MB 880-67581/5-A	Method Blank	127	177 S1+
MB 880-67582/5-A	Method Blank	72	72
MB 880-67586/5-A	Method Blank	98	144 S1+
MB 880-67694/5-A	Method Blank	54 S1-	82
MB 880-67739/5-A	Method Blank	107	152 S1+
MB 880-67742/5-A	Method Blank	74	81

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)
890-5661-1	S-1 0-1	164 S1+	139 S1+
890-5661-1 MS	S-1 0-1	153 S1+	120
890-5661-1 MSD	S-1 0-1	156 S1+	121
890-5661-2	S-1 2	200 S1+	172 S1+
890-5661-3	S-1 3	162 S1+	138 S1+
890-5661-4	S-1 4	321 S1+	280 S1+
890-5661-5	S-2 0-1	171 S1+	147 S1+
890-5661-6	S-2 2R	152 S1+	132 S1+
890-5661-7	S-3 0-1R	164 S1+	140 S1+
890-5661-8	S-4 0-1R	159 S1+	137 S1+
890-5661-9	S-5 0-1	159 S1+	136 S1+
890-5661-10	S-5 2R	149 S1+	126
890-5661-11	S-6 0-1	170 S1+	141 S1+
890-5661-12	S-6 2	147 S1+	124
890-5661-13	S-6 3'R	168 S1+	143 S1+
890-5661-14	S-7 0-1	166 S1+	143 S1+
890-5661-15	S-7 2R	145 S1+	127
890-5661-16	S-8 0-1	147 S1+	127
890-5661-17	S-8 2	160 S1+	138 S1+
890-5661-18	S-8 3R	149 S1+	128

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Surrogate Summary

Client: H & R Enterprises

Job ID: 890-5661-1

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)
890-5661-19	S-9 0-1	149 S1+	129
890-5661-20	S-9 2	137 S1+	117
890-5661-21	S-9 3R	124	129
890-5661-21 MS	S-9 3R	115	112
890-5661-21 MSD	S-9 3R	116	112
890-5661-22	S-10 0-1	107	113
890-5661-23	S-10 2	126	130
890-5661-24	S-10 3R	118	124
890-5661-25	S-11 0-1	103	109
890-5661-26	S-11 2R	111	116
890-5661-27	S-12 0-1	115	122
890-5661-28	S-12 2R	113	117
890-5661-29	S-13 0-1	125	127
890-5661-30	S-13 2	104	110
890-5661-31	S-13 3R	103	109
890-5661-32	S-14 0-1	104	108
890-5661-33	S-14 2R	109	115
890-5661-34	S-15 0-1	124	124
890-5661-35	S-15 2R	109	114
890-5661-36	H-1 0-1	110	114
890-5661-37	H-2 0-1	103	106
890-5661-38	H-3 0-1	108	115
890-5661-39	H-4 0-1	100	106
890-5661-40	H-5 0-1	113	119
890-5661-41	H-6 0-1	135 S1+	116
890-5661-41 MS	H-6 0-1	142 S1+	112
890-5661-41 MSD	H-6 0-1	156 S1+	117
890-5661-42	H-7 0-1	136 S1+	118
890-5661-43	H-8 0-1	126	112
890-5661-44	H-9 0-1	149 S1+	133 S1+
890-5661-45	H-10 0-1	138 S1+	121
890-5661-46	H-11 0-1	122	109
LCS 880-67747/2-A	Lab Control Sample	97	91
LCS 880-67748/2-A	Lab Control Sample	102	111
LCS 880-67813/2-A	Lab Control Sample	85	92
LCSD 880-67747/3-A	Lab Control Sample Dup	97	100
LCSD 880-67748/3-A	Lab Control Sample Dup	94	104
LCSD 880-67813/3-A	Lab Control Sample Dup	94	95
MB 880-67747/1-A	Method Blank	166 S1+	150 S1+
MB 880-67748/1-A	Method Blank	102	113
MB 880-67813/1-A	Method Blank	160 S1+	155 S1+

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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QC Sample Results

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

Job ID: 890-5661-1
SDG: Eddy County NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-67372/5-B

Matrix: Solid

Analysis Batch: 67631

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 67372

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/20/23 09:20	11/23/23 03:18	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/20/23 09:20	11/23/23 03:18	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/20/23 09:20	11/23/23 03:18	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/20/23 09:20	11/23/23 03:18	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/20/23 09:20	11/23/23 03:18	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/20/23 09:20	11/23/23 03:18	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130	11/20/23 09:20	11/23/23 03:18	1
1,4-Difluorobenzene (Surr)	153	S1+	70 - 130	11/20/23 09:20	11/23/23 03:18	1

Lab Sample ID: MB 880-67426/5-A

Matrix: Solid

Analysis Batch: 67632

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 67426

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/20/23 12:52	11/23/23 05:50	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/20/23 12:52	11/23/23 05:50	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/20/23 12:52	11/23/23 05:50	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/20/23 12:52	11/23/23 05:50	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/20/23 12:52	11/23/23 05:50	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/20/23 12:52	11/23/23 05:50	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	60	S1-	70 - 130	11/20/23 12:52	11/23/23 05:50	1
1,4-Difluorobenzene (Surr)	117		70 - 130	11/20/23 12:52	11/23/23 05:50	1

Lab Sample ID: MB 880-67579/5-A

Matrix: Solid

Analysis Batch: 67632

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 67579

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/21/23 14:52	11/23/23 19:28	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/21/23 14:52	11/23/23 19:28	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/21/23 14:52	11/23/23 19:28	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/21/23 14:52	11/23/23 19:28	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/21/23 14:52	11/23/23 19:28	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/21/23 14:52	11/23/23 19:28	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	50	S1-	70 - 130	11/21/23 14:52	11/23/23 19:28	1
1,4-Difluorobenzene (Surr)	98		70 - 130	11/21/23 14:52	11/23/23 19:28	1

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QC Sample Results

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

Job ID: 890-5661-1
SDG: Eddy County NM

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

Lab Sample ID: LCS 880-67579/1-A

Matrix: Solid

Analysis Batch: 67632

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 67579

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.07282		mg/Kg		73	70 - 130
Toluene	0.100	0.07506		mg/Kg		75	70 - 130
Ethylbenzene	0.100	0.07540		mg/Kg		75	70 - 130
m-Xylene & p-Xylene	0.200	0.1516		mg/Kg		76	70 - 130
o-Xylene	0.100	0.07641		mg/Kg		76	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	82		70 - 130

Lab Sample ID: LCSD 880-67579/2-A

Matrix: Solid

Analysis Batch: 67632

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 67579

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.07545		mg/Kg		75	70 - 130	4	35
Toluene	0.100	0.08002		mg/Kg		80	70 - 130	6	35
Ethylbenzene	0.100	0.08093		mg/Kg		81	70 - 130	7	35
m-Xylene & p-Xylene	0.200	0.1696		mg/Kg		85	70 - 130	11	35
o-Xylene	0.100	0.08022		mg/Kg		80	70 - 130	5	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	92		70 - 130

Lab Sample ID: 890-5661-1 MS

Matrix: Solid

Analysis Batch: 67632

Client Sample ID: S-1 0-1

Prep Type: Total/NA

Prep Batch: 67579

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U F1	0.0996	0.06392	F1	mg/Kg		64	70 - 130
Toluene	<0.00199	U	0.0996	0.07263		mg/Kg		73	70 - 130
Ethylbenzene	<0.00199	U F1	0.0996	0.06578	F1	mg/Kg		66	70 - 130
m-Xylene & p-Xylene	<0.00398	U F1	0.199	0.1280	F1	mg/Kg		64	70 - 130
o-Xylene	<0.00199	U F1	0.0996	0.06373	F1	mg/Kg		64	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	93		70 - 130

Lab Sample ID: 890-5661-1 MSD

Matrix: Solid

Analysis Batch: 67632

Client Sample ID: S-1 0-1

Prep Type: Total/NA

Prep Batch: 67579

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U F1	0.0990	0.06019	F1	mg/Kg		61	70 - 130	6	35
Toluene	<0.00199	U	0.0990	0.07097		mg/Kg		72	70 - 130	2	35
Ethylbenzene	<0.00199	U F1	0.0990	0.06239	F1	mg/Kg		63	70 - 130	5	35

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QC Sample Results

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

Job ID: 890-5661-1
SDG: Eddy County NM

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

Lab Sample ID: 890-5661-1 MSD

Matrix: Solid

Analysis Batch: 67632

Client Sample ID: S-1 0-1

Prep Type: Total/NA

Prep Batch: 67579

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
m-Xylene & p-Xylene	<0.00398	U F1	0.198	0.1269	F1	mg/Kg		64	70 - 130	1	35
o-Xylene	<0.00199	U F1	0.0990	0.06403	F1	mg/Kg		65	70 - 130	0	35
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	87		70 - 130								
1,4-Difluorobenzene (Surr)	93		70 - 130								

Lab Sample ID: MB 880-67581/5-A

Matrix: Solid

Analysis Batch: 67631

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 67581

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<0.00200	U	0.00200		mg/Kg		11/21/23 15:01	11/23/23 14:54	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/21/23 15:01	11/23/23 14:54	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/21/23 15:01	11/23/23 14:54	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/21/23 15:01	11/23/23 14:54	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/21/23 15:01	11/23/23 14:54	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/21/23 15:01	11/23/23 14:54	1
Surrogate	MB	MB	Limits				Prepared	Analyzed	Dil Fac
%Recovery	Qualifier								
4-Bromofluorobenzene (Surr)	127		70 - 130				11/21/23 15:01	11/23/23 14:54	1
1,4-Difluorobenzene (Surr)	177	S1+	70 - 130				11/21/23 15:01	11/23/23 14:54	1

Lab Sample ID: LCS 880-67581/1-A

Matrix: Solid

Analysis Batch: 67631

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 67581

Analyte			Spike	LCS	LCS	Unit	D	%Rec	%Rec		
			Added	Result	Qualifier			Limits			
Benzene			0.100	0.09543		mg/Kg		95	70 - 130		
Toluene			0.100	0.08980		mg/Kg		90	70 - 130		
Ethylbenzene			0.100	0.07983		mg/Kg		80	70 - 130		
m-Xylene & p-Xylene			0.200	0.1900		mg/Kg		95	70 - 130		
o-Xylene			0.100	0.09596		mg/Kg		96	70 - 130		
										</	

Lab Sample ID: LCSD 880-67581/2-A

Matrix: Solid

Analysis Batch: 67631

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 67581

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09723		mg/Kg		97	70 - 130	2	35
Toluene	0.100	0.09072		mg/Kg		91	70 - 130	1	35
Ethylbenzene	0.100	0.08212		mg/Kg		82	70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.1965		mg/Kg		98	70 - 130	3	35
o-Xylene	0.100	0.09905		mg/Kg		99	70 - 130	3	35

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QC Sample Results

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

Job ID: 890-5661-1
SDG: Eddy County NM

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

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: 890-5661-21 MS

Matrix: Solid

Analysis Batch: 67631

Client Sample ID: S-9 3R

Prep Type: Total/NA

Prep Batch: 67581

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.0998	0.07846		mg/Kg		79	70 - 130
Toluene	<0.00199	U	0.0998	0.07729		mg/Kg		77	70 - 130
Ethylbenzene	<0.00199	U	0.0998	0.07185		mg/Kg		72	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.200	0.1829		mg/Kg		92	70 - 130
o-Xylene	<0.00199	U	0.0998	0.09053		mg/Kg		91	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: 890-5661-21 MSD

Matrix: Solid

Analysis Batch: 67631

Client Sample ID: S-9 3R

Prep Type: Total/NA

Prep Batch: 67581

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	<0.00199	U	0.0990	0.09406		mg/Kg		95	70 - 130	18	35
Toluene	<0.00199	U	0.0990	0.08155		mg/Kg		82	70 - 130	5	35
Ethylbenzene	<0.00199	U	0.0990	0.07132		mg/Kg		72	70 - 130	1	35
m-Xylene & p-Xylene	<0.00398	U	0.198	0.1802		mg/Kg		91	70 - 130	2	35
o-Xylene	<0.00199	U	0.0990	0.08912		mg/Kg		90	70 - 130	2	35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	115		70 - 130

Lab Sample ID: MB 880-67582/5-A

Matrix: Solid

Analysis Batch: 67690

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 67582

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/21/23 16:19	11/27/23 11:27	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/21/23 16:19	11/27/23 11:27	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/21/23 16:19	11/27/23 11:27	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/21/23 16:19	11/27/23 11:27	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/21/23 16:19	11/27/23 11:27	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/21/23 16:19	11/27/23 11:27	1

	MB	MB				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	72		70 - 130	11/21/23 16:19	11/27/23 11:27	1
1,4-Difluorobenzene (Surr)	72		70 - 130	11/21/23 16:19	11/27/23 11:27	1

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QC Sample Results

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

Job ID: 890-5661-1
SDG: Eddy County NM

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

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 880-67694/5-A

Matrix: Solid

Analysis Batch: 67689

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 67694

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/27/23 09:14	11/27/23 12:32	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/27/23 09:14	11/27/23 12:32	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/27/23 09:14	11/27/23 12:32	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/27/23 09:14	11/27/23 12:32	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/27/23 09:14	11/27/23 12:32	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/27/23 09:14	11/27/23 12:32	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	54	S1-	70 - 130	11/27/23 09:14	11/27/23 12:32	1
1,4-Difluorobenzene (Surr)	82		70 - 130	11/27/23 09:14	11/27/23 12:32	1

Lab Sample ID: LCS 880-67694/1-A

Matrix: Solid

Analysis Batch: 67689

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 67694

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09804		mg/Kg		98	70 - 130
Toluene	0.100	0.08773		mg/Kg		88	70 - 130
Ethylbenzene	0.100	0.09297		mg/Kg		93	70 - 130
m-Xylene & p-Xylene	0.200	0.1807		mg/Kg		90	70 - 130
o-Xylene	0.100	0.08951		mg/Kg		90	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: LCSD 880-67694/2-A

Matrix: Solid

Analysis Batch: 67689

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 67694

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.07734		mg/Kg		77	70 - 130	24	35

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QC Sample Results

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

Job ID: 890-5661-1
SDG: Eddy County NM

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

Lab Sample ID: LCSD 880-67694/2-A

Matrix: Solid

Analysis Batch: 67689

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 67694

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene	0.100	0.07193		mg/Kg		72	70 - 130	20	35
Ethylbenzene	0.100	0.07641		mg/Kg		76	70 - 130	20	35
m-Xylene & p-Xylene	0.200	0.1500		mg/Kg		75	70 - 130	19	35
o-Xylene	0.100	0.07261		mg/Kg		73	70 - 130	21	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	79		70 - 130
1,4-Difluorobenzene (Surr)	80		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

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QC Sample Results

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

Job ID: 890-5661-1
SDG: Eddy County NM

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

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
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

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

Lab Sample ID: MB 880-67742/5-A

Matrix: Solid

Analysis Batch: 67690

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 67742

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/27/23 11:10	11/27/23 22:13	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/27/23 11:10	11/27/23 22:13	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/27/23 11:10	11/27/23 22:13	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/27/23 11:10	11/27/23 22:13	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/27/23 11:10	11/27/23 22:13	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/27/23 11:10	11/27/23 22:13	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	74		70 - 130	11/27/23 11:10	11/27/23 22:13	1
1,4-Difluorobenzene (Surr)	81		70 - 130	11/27/23 11:10	11/27/23 22:13	1

Lab Sample ID: LCS 880-67742/1-A

Matrix: Solid

Analysis Batch: 67690

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 67742

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08050		mg/Kg		81	70 - 130
Toluene	0.100	0.07718		mg/Kg		77	70 - 130
Ethylbenzene	0.100	0.09391		mg/Kg		94	70 - 130
m-Xylene & p-Xylene	0.200	0.1853		mg/Kg		93	70 - 130
o-Xylene	0.100	0.1002		mg/Kg		100	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	122		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: LCSD 880-67742/2-A

Matrix: Solid

Analysis Batch: 67690

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 67742

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.06988		mg/Kg		70	70 - 130	14	35
Toluene	0.100	0.07379		mg/Kg		74	70 - 130	4	35
Ethylbenzene	0.100	0.09718		mg/Kg		97	70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.1968		mg/Kg		98	70 - 130	6	35
o-Xylene	0.100	0.1046		mg/Kg		105	70 - 130	4	35

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QC Sample Results

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

Job ID: 890-5661-1
SDG: Eddy County NM

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

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	132	S1+	70 - 130
1,4-Difluorobenzene (Surr)	78		70 - 130

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

Lab Sample ID: MB 880-67747/1-A

Matrix: Solid

Analysis Batch: 67682

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 67747

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/27/23 13:29	11/27/23 19:37	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/27/23 13:29	11/27/23 19:37	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/27/23 13:29	11/27/23 19:37	1

Surrogate	MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1-Chlorooctane	166	S1+	70 - 130	11/27/23 13:29	11/27/23 19:37	1
o-Terphenyl	150	S1+	70 - 130	11/27/23 13:29	11/27/23 19:37	1

Lab Sample ID: LCS 880-67747/2-A

Matrix: Solid

Analysis Batch: 67682

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 67747

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1168		mg/Kg		117	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1117		mg/Kg		112	70 - 130

Surrogate	LCS		Limits
	%Recovery	Qualifier	
1-Chlorooctane	97		70 - 130
o-Terphenyl	91		70 - 130

Lab Sample ID: LCSD 880-67747/3-A

Matrix: Solid

Analysis Batch: 67682

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 67747

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1048		mg/Kg		105	70 - 130	11	20
Diesel Range Organics (Over C10-C28)	1000	987.6		mg/Kg		99	70 - 130	12	20

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
1-Chlorooctane	97		70 - 130
o-Terphenyl	100		70 - 130

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QC Sample Results

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

Job ID: 890-5661-1
SDG: Eddy County NM

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

Lab Sample ID: 890-5661-1 MS

Matrix: Solid

Analysis Batch: 67682

Client Sample ID: S-1 0-1

Prep Type: Total/NA

Prep Batch: 67747

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	992.1		mg/Kg		94	70 - 130
Diesel Range Organics (Over C10-C28)	<50.1	U F1	1010	1343	F1	mg/Kg		131	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane	153	S1+	70 - 130						
o-Terphenyl	120		70 - 130						

Lab Sample ID: 890-5661-1 MSD

Matrix: Solid

Analysis Batch: 67682

Client Sample ID: S-1 0-1

Prep Type: Total/NA

Prep Batch: 67747

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	1008		mg/Kg		96	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<50.1	U F1	1010	1351	F1	mg/Kg		132	70 - 130	1	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	156	S1+	70 - 130								
o-Terphenyl	121		70 - 130								

Lab Sample ID: MB 880-67748/1-A

Matrix: Solid

Analysis Batch: 67684

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 67748

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 13:32	11/27/23 19:37	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/27/23 13:32	11/27/23 19:37	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/27/23 13:32	11/27/23 19:37	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130				11/27/23 13:32	11/27/23 19:37	1
o-Terphenyl	113		70 - 130				11/27/23 13:32	11/27/23 19:37	1

Lab Sample ID: LCS 880-67748/2-A

Matrix: Solid

Analysis Batch: 67684

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 67748

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	870.0		mg/Kg		87	70 - 130
Diesel Range Organics (Over C10-C28)	1000	890.8		mg/Kg		89	70 - 130

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QC Sample Results

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

Job ID: 890-5661-1
SDG: Eddy County NM

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

Lab Sample ID: LCS 880-67748/2-A

Matrix: Solid

Analysis Batch: 67684

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 67748

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	102		70 - 130
o-Terphenyl	111		70 - 130

Lab Sample ID: LCSD 880-67748/3-A

Matrix: Solid

Analysis Batch: 67684

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 67748

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	844.1		mg/Kg		84	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	1000	892.6		mg/Kg		89	70 - 130	0	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	94		70 - 130
o-Terphenyl	104		70 - 130

Lab Sample ID: 890-5661-21 MS

Matrix: Solid

Analysis Batch: 67684

Client Sample ID: S-9 3R

Prep Type: Total/NA

Prep Batch: 67748

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	1010	1122		mg/Kg		108	70 - 130
Diesel Range Organics (Over C10-C28)	51.1		1010	840.7		mg/Kg		78	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	115		70 - 130
o-Terphenyl	112		70 - 130

Lab Sample ID: 890-5661-21 MSD

Matrix: Solid

Analysis Batch: 67684

Client Sample ID: S-9 3R

Prep Type: Total/NA

Prep Batch: 67748

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	1010	1164		mg/Kg		113	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	51.1		1010	854.6		mg/Kg		80	70 - 130	2	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	116		70 - 130
o-Terphenyl	112		70 - 130

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QC Sample Results

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

Job ID: 890-5661-1
SDG: Eddy County NM

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

Lab Sample ID: MB 880-67813/1-A

Matrix: Solid

Analysis Batch: 67889

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 67813

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		11/28/23 08:54	11/29/23 08:03	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/28/23 08:54	11/29/23 08:03	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/28/23 08:54	11/29/23 08:03	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	160	S1+	70 - 130	11/28/23 08:54	11/29/23 08:03	1
o-Terphenyl	155	S1+	70 - 130	11/28/23 08:54	11/29/23 08:03	1

Lab Sample ID: LCS 880-67813/2-A

Matrix: Solid

Analysis Batch: 67889

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 67813

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1016		mg/Kg		102	70 - 130
Diesel Range Organics (Over C10-C28)	1000	832.1		mg/Kg		83	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	85		70 - 130
o-Terphenyl	92		70 - 130

Lab Sample ID: LCSD 880-67813/3-A

Matrix: Solid

Analysis Batch: 67889

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 67813

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	974.9		mg/Kg		97	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	1000	823.1		mg/Kg		82	70 - 130	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	94		70 - 130
o-Terphenyl	95		70 - 130

Lab Sample ID: 890-5661-41 MS

Matrix: Solid

Analysis Batch: 67889

Client Sample ID: H-6 0-1

Prep Type: Total/NA

Prep Batch: 67813

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	1010	884.2		mg/Kg		84	70 - 130
Diesel Range Organics (Over C10-C28)	<50.2	U	1010	1158		mg/Kg		112	70 - 130

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QC Sample Results

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

Job ID: 890-5661-1
SDG: Eddy County NM

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

Lab Sample ID: 890-5661-41 MS

Matrix: Solid

Analysis Batch: 67889

Client Sample ID: H-6 0-1

Prep Type: Total/NA

Prep Batch: 67813

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	142	S1+	70 - 130
o-Terphenyl	112		70 - 130

Lab Sample ID: 890-5661-41 MSD

Matrix: Solid

Analysis Batch: 67889

Client Sample ID: H-6 0-1

Prep Type: Total/NA

Prep Batch: 67813

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	<50.2	U	1010	903.0		mg/Kg		86	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<50.2	U	1010	1221		mg/Kg		119	70 - 130	5	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	156	S1+	70 - 130
o-Terphenyl	117		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-67541/1-A

Matrix: Solid

Analysis Batch: 67659

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			11/27/23 09:54	1

Lab Sample ID: LCS 880-67541/2-A

Matrix: Solid

Analysis Batch: 67659

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	235.9		mg/Kg		94	90 - 110

Lab Sample ID: LCSD 880-67541/3-A

Matrix: Solid

Analysis Batch: 67659

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	239.4		mg/Kg		96	90 - 110	1	20

Lab Sample ID: 890-5661-1 MS

Matrix: Solid

Analysis Batch: 67659

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	86.3	F1	248	395.3	F1	mg/Kg		125	90 - 110

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QC Sample Results

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

Job ID: 890-5661-1
SDG: Eddy County NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-5661-1 MSD

Matrix: Solid

Analysis Batch: 67659

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	86.3	F1	248	394.3	F1	mg/Kg		124	90 - 110	0	20

Lab Sample ID: 890-5661-11 MS

Matrix: Solid

Analysis Batch: 67659

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	97.0	F1	248	397.8	F1	mg/Kg		122	90 - 110		

Lab Sample ID: 890-5661-11 MSD

Matrix: Solid

Analysis Batch: 67659

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	97.0	F1	248	397.3	F1	mg/Kg		121	90 - 110	0	20

Lab Sample ID: MB 880-67542/1-A

Matrix: Solid

Analysis Batch: 67660

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 02:23	1

Lab Sample ID: LCS 880-67542/2-A

Matrix: Solid

Analysis Batch: 67660

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	250	232.6		mg/Kg		93	90 - 110		

Lab Sample ID: LCSD 880-67542/3-A

Matrix: Solid

Analysis Batch: 67660

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	236.5		mg/Kg		95	90 - 110	2	20

Lab Sample ID: 890-5661-21 MS

Matrix: Solid

Analysis Batch: 67660

Client Sample ID: S-9 3R

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	61.8		250	297.3		mg/Kg		94	90 - 110		

Lab Sample ID: 890-5661-21 MSD

Matrix: Solid

Analysis Batch: 67660

Client Sample ID: S-9 3R

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	61.8		250	298.4		mg/Kg		95	90 - 110	0	20

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QC Sample Results

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

Job ID: 890-5661-1
SDG: Eddy County NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 890-5661-31 MS

Matrix: Solid

Analysis Batch: 67660

Client Sample ID: S-13 3R

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	71.5		249	310.7		mg/Kg		96	90 - 110

Lab Sample ID: 890-5661-31 MSD

Matrix: Solid

Analysis Batch: 67660

Client Sample ID: S-13 3R

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	71.5		249	309.7		mg/Kg		96	90 - 110	0	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

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QC Association Summary

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

Job ID: 890-5661-1
SDG: Eddy County NM

GC VOA

Prep Batch: 67372

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-67372/5-B	Method Blank	Total/NA	Solid	5035	

Prep Batch: 67426

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-67426/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 67579

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5661-1	S-1 0-1	Total/NA	Solid	5035	
890-5661-2	S-1 2	Total/NA	Solid	5035	
890-5661-3	S-1 3	Total/NA	Solid	5035	
MB 880-67579/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-67579/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-67579/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-5661-1 MS	S-1 0-1	Total/NA	Solid	5035	
890-5661-1 MSD	S-1 0-1	Total/NA	Solid	5035	

Prep Batch: 67581

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5661-21	S-9 3R	Total/NA	Solid	5035	
890-5661-22	S-10 0-1	Total/NA	Solid	5035	
890-5661-23	S-10 2	Total/NA	Solid	5035	
890-5661-24	S-10 3R	Total/NA	Solid	5035	
890-5661-25	S-11 0-1	Total/NA	Solid	5035	
890-5661-26	S-11 2R	Total/NA	Solid	5035	
890-5661-27	S-12 0-1	Total/NA	Solid	5035	
890-5661-28	S-12 2R	Total/NA	Solid	5035	
890-5661-29	S-13 0-1	Total/NA	Solid	5035	
890-5661-30	S-13 2	Total/NA	Solid	5035	
890-5661-31	S-13 3R	Total/NA	Solid	5035	
890-5661-32	S-14 0-1	Total/NA	Solid	5035	
890-5661-33	S-14 2R	Total/NA	Solid	5035	
890-5661-34	S-15 0-1	Total/NA	Solid	5035	
890-5661-35	S-15 2R	Total/NA	Solid	5035	
890-5661-36	H-1 0-1	Total/NA	Solid	5035	
890-5661-37	H-2 0-1	Total/NA	Solid	5035	
890-5661-38	H-3 0-1	Total/NA	Solid	5035	
890-5661-39	H-4 0-1	Total/NA	Solid	5035	
890-5661-40	H-5 0-1	Total/NA	Solid	5035	
MB 880-67581/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-67581/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-67581/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-5661-21 MS	S-9 3R	Total/NA	Solid	5035	
890-5661-21 MSD	S-9 3R	Total/NA	Solid	5035	

Prep Batch: 67582

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-67582/5-A	Method Blank	Total/NA	Solid	5035	

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QC Association Summary

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

Job ID: 890-5661-1
SDG: Eddy County NM

GC VOA

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: 67631

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5661-21	S-9 3R	Total/NA	Solid	8021B	67581
890-5661-22	S-10 0-1	Total/NA	Solid	8021B	67581
890-5661-23	S-10 2	Total/NA	Solid	8021B	67581
890-5661-24	S-10 3R	Total/NA	Solid	8021B	67581
890-5661-25	S-11 0-1	Total/NA	Solid	8021B	67581
890-5661-26	S-11 2R	Total/NA	Solid	8021B	67581
890-5661-27	S-12 0-1	Total/NA	Solid	8021B	67581
890-5661-28	S-12 2R	Total/NA	Solid	8021B	67581
890-5661-29	S-13 0-1	Total/NA	Solid	8021B	67581
890-5661-30	S-13 2	Total/NA	Solid	8021B	67581
890-5661-31	S-13 3R	Total/NA	Solid	8021B	67581
890-5661-32	S-14 0-1	Total/NA	Solid	8021B	67581
890-5661-33	S-14 2R	Total/NA	Solid	8021B	67581
890-5661-34	S-15 0-1	Total/NA	Solid	8021B	67581
890-5661-35	S-15 2R	Total/NA	Solid	8021B	67581
890-5661-36	H-1 0-1	Total/NA	Solid	8021B	67581
890-5661-37	H-2 0-1	Total/NA	Solid	8021B	67581
890-5661-38	H-3 0-1	Total/NA	Solid	8021B	67581
890-5661-39	H-4 0-1	Total/NA	Solid	8021B	67581
890-5661-40	H-5 0-1	Total/NA	Solid	8021B	67581
MB 880-67372/5-B	Method Blank	Total/NA	Solid	8021B	67372
MB 880-67581/5-A	Method Blank	Total/NA	Solid	8021B	67581
LCS 880-67581/1-A	Lab Control Sample	Total/NA	Solid	8021B	67581
LCSD 880-67581/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	67581
890-5661-21 MS	S-9 3R	Total/NA	Solid	8021B	67581
890-5661-21 MSD	S-9 3R	Total/NA	Solid	8021B	67581

Analysis Batch: 67632

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5661-1	S-1 0-1	Total/NA	Solid	8021B	67579
890-5661-2	S-1 2	Total/NA	Solid	8021B	67579
890-5661-3	S-1 3	Total/NA	Solid	8021B	67579
MB 880-67426/5-A	Method Blank	Total/NA	Solid	8021B	67426
MB 880-67579/5-A	Method Blank	Total/NA	Solid	8021B	67579
LCS 880-67579/1-A	Lab Control Sample	Total/NA	Solid	8021B	67579
LCSD 880-67579/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	67579
890-5661-1 MS	S-1 0-1	Total/NA	Solid	8021B	67579
890-5661-1 MSD	S-1 0-1	Total/NA	Solid	8021B	67579

Analysis Batch: 67689

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5661-5	S-2 0-1	Total/NA	Solid	8021B	67694
890-5661-6	S-2 2R	Total/NA	Solid	8021B	67694
890-5661-7	S-3 0-1R	Total/NA	Solid	8021B	67694
890-5661-8	S-4 0-1R	Total/NA	Solid	8021B	67694
890-5661-9	S-5 0-1	Total/NA	Solid	8021B	67694
890-5661-10	S-5 2R	Total/NA	Solid	8021B	67694

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QC Association Summary

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

Job ID: 890-5661-1
SDG: Eddy County NM

GC VOA (Continued)

Analysis Batch: 67689 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5661-11	S-6 0-1	Total/NA	Solid	8021B	67694
890-5661-12	S-6 2	Total/NA	Solid	8021B	67694
890-5661-13	S-6 3'R	Total/NA	Solid	8021B	67694
890-5661-14	S-7 0-1	Total/NA	Solid	8021B	67694
890-5661-15	S-7 2R	Total/NA	Solid	8021B	67694
890-5661-16	S-8 0-1	Total/NA	Solid	8021B	67694
890-5661-17	S-8 2	Total/NA	Solid	8021B	67694
890-5661-18	S-8 3R	Total/NA	Solid	8021B	67694
890-5661-19	S-9 0-1	Total/NA	Solid	8021B	67694
890-5661-20	S-9 2	Total/NA	Solid	8021B	67694
MB 880-67694/5-A	Method Blank	Total/NA	Solid	8021B	67694
LCS 880-67694/1-A	Lab Control Sample	Total/NA	Solid	8021B	67694
LCSD 880-67694/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	67694

Analysis Batch: 67690

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5661-4	S-1 4	Total/NA	Solid	8021B	67742
MB 880-67582/5-A	Method Blank	Total/NA	Solid	8021B	67582
MB 880-67742/5-A	Method Blank	Total/NA	Solid	8021B	67742
LCS 880-67742/1-A	Lab Control Sample	Total/NA	Solid	8021B	67742
LCSD 880-67742/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	67742

Analysis Batch: 67691

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5661-41	H-6 0-1	Total/NA	Solid	8021B	67739
890-5661-42	H-7 0-1	Total/NA	Solid	8021B	67739
890-5661-43	H-8 0-1	Total/NA	Solid	8021B	67739
890-5661-44	H-9 0-1	Total/NA	Solid	8021B	67739
890-5661-45	H-10 0-1	Total/NA	Solid	8021B	67739
890-5661-46	H-11 0-1	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: 67694

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5661-5	S-2 0-1	Total/NA	Solid	5035	
890-5661-6	S-2 2R	Total/NA	Solid	5035	
890-5661-7	S-3 0-1R	Total/NA	Solid	5035	
890-5661-8	S-4 0-1R	Total/NA	Solid	5035	
890-5661-9	S-5 0-1	Total/NA	Solid	5035	
890-5661-10	S-5 2R	Total/NA	Solid	5035	
890-5661-11	S-6 0-1	Total/NA	Solid	5035	
890-5661-12	S-6 2	Total/NA	Solid	5035	
890-5661-13	S-6 3'R	Total/NA	Solid	5035	
890-5661-14	S-7 0-1	Total/NA	Solid	5035	
890-5661-15	S-7 2R	Total/NA	Solid	5035	
890-5661-16	S-8 0-1	Total/NA	Solid	5035	
890-5661-17	S-8 2	Total/NA	Solid	5035	
890-5661-18	S-8 3R	Total/NA	Solid	5035	

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QC Association Summary

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

Job ID: 890-5661-1
SDG: Eddy County NM

GC VOA (Continued)

Prep Batch: 67694 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5661-19	S-9 0-1	Total/NA	Solid	5035	
890-5661-20	S-9 2	Total/NA	Solid	5035	
MB 880-67694/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-67694/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-67694/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 67739

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5661-41	H-6 0-1	Total/NA	Solid	5035	
890-5661-42	H-7 0-1	Total/NA	Solid	5035	
890-5661-43	H-8 0-1	Total/NA	Solid	5035	
890-5661-44	H-9 0-1	Total/NA	Solid	5035	
890-5661-45	H-10 0-1	Total/NA	Solid	5035	
890-5661-46	H-11 0-1	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	

Prep Batch: 67742

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5661-4	S-1 4	Total/NA	Solid	5035	
MB 880-67742/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-67742/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-67742/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 67775

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5661-1	S-1 0-1	Total/NA	Solid	Total BTEX	
890-5661-2	S-1 2	Total/NA	Solid	Total BTEX	
890-5661-3	S-1 3	Total/NA	Solid	Total BTEX	
890-5661-4	S-1 4	Total/NA	Solid	Total BTEX	
890-5661-5	S-2 0-1	Total/NA	Solid	Total BTEX	
890-5661-6	S-2 2R	Total/NA	Solid	Total BTEX	
890-5661-7	S-3 0-1R	Total/NA	Solid	Total BTEX	
890-5661-8	S-4 0-1R	Total/NA	Solid	Total BTEX	
890-5661-9	S-5 0-1	Total/NA	Solid	Total BTEX	
890-5661-10	S-5 2R	Total/NA	Solid	Total BTEX	
890-5661-11	S-6 0-1	Total/NA	Solid	Total BTEX	
890-5661-12	S-6 2	Total/NA	Solid	Total BTEX	
890-5661-13	S-6 3'R	Total/NA	Solid	Total BTEX	
890-5661-14	S-7 0-1	Total/NA	Solid	Total BTEX	
890-5661-15	S-7 2R	Total/NA	Solid	Total BTEX	
890-5661-16	S-8 0-1	Total/NA	Solid	Total BTEX	
890-5661-17	S-8 2	Total/NA	Solid	Total BTEX	
890-5661-18	S-8 3R	Total/NA	Solid	Total BTEX	
890-5661-19	S-9 0-1	Total/NA	Solid	Total BTEX	
890-5661-20	S-9 2	Total/NA	Solid	Total BTEX	
890-5661-21	S-9 3R	Total/NA	Solid	Total BTEX	
890-5661-22	S-10 0-1	Total/NA	Solid	Total BTEX	
890-5661-23	S-10 2	Total/NA	Solid	Total BTEX	
890-5661-24	S-10 3R	Total/NA	Solid	Total BTEX	

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QC Association Summary

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

Job ID: 890-5661-1
SDG: Eddy County NM

GC VOA (Continued)

Analysis Batch: 67775 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5661-25	S-11 0-1	Total/NA	Solid	Total BTEX	
890-5661-26	S-11 2R	Total/NA	Solid	Total BTEX	
890-5661-27	S-12 0-1	Total/NA	Solid	Total BTEX	
890-5661-28	S-12 2R	Total/NA	Solid	Total BTEX	
890-5661-29	S-13 0-1	Total/NA	Solid	Total BTEX	
890-5661-30	S-13 2	Total/NA	Solid	Total BTEX	
890-5661-31	S-13 3R	Total/NA	Solid	Total BTEX	
890-5661-32	S-14 0-1	Total/NA	Solid	Total BTEX	
890-5661-33	S-14 2R	Total/NA	Solid	Total BTEX	
890-5661-34	S-15 0-1	Total/NA	Solid	Total BTEX	
890-5661-35	S-15 2R	Total/NA	Solid	Total BTEX	
890-5661-36	H-1 0-1	Total/NA	Solid	Total BTEX	
890-5661-37	H-2 0-1	Total/NA	Solid	Total BTEX	
890-5661-38	H-3 0-1	Total/NA	Solid	Total BTEX	
890-5661-39	H-4 0-1	Total/NA	Solid	Total BTEX	
890-5661-40	H-5 0-1	Total/NA	Solid	Total BTEX	
890-5661-41	H-6 0-1	Total/NA	Solid	Total BTEX	
890-5661-42	H-7 0-1	Total/NA	Solid	Total BTEX	
890-5661-43	H-8 0-1	Total/NA	Solid	Total BTEX	
890-5661-44	H-9 0-1	Total/NA	Solid	Total BTEX	
890-5661-45	H-10 0-1	Total/NA	Solid	Total BTEX	
890-5661-46	H-11 0-1	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 67682

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5661-1	S-1 0-1	Total/NA	Solid	8015B NM	67747
890-5661-2	S-1 2	Total/NA	Solid	8015B NM	67747
890-5661-3	S-1 3	Total/NA	Solid	8015B NM	67747
890-5661-4	S-1 4	Total/NA	Solid	8015B NM	67747
890-5661-5	S-2 0-1	Total/NA	Solid	8015B NM	67747
890-5661-6	S-2 2R	Total/NA	Solid	8015B NM	67747
890-5661-7	S-3 0-1R	Total/NA	Solid	8015B NM	67747
890-5661-8	S-4 0-1R	Total/NA	Solid	8015B NM	67747
890-5661-9	S-5 0-1	Total/NA	Solid	8015B NM	67747
890-5661-10	S-5 2R	Total/NA	Solid	8015B NM	67747
890-5661-11	S-6 0-1	Total/NA	Solid	8015B NM	67747
890-5661-12	S-6 2	Total/NA	Solid	8015B NM	67747
890-5661-13	S-6 3'R	Total/NA	Solid	8015B NM	67747
890-5661-14	S-7 0-1	Total/NA	Solid	8015B NM	67747
890-5661-15	S-7 2R	Total/NA	Solid	8015B NM	67747
890-5661-16	S-8 0-1	Total/NA	Solid	8015B NM	67747
890-5661-17	S-8 2	Total/NA	Solid	8015B NM	67747
890-5661-18	S-8 3R	Total/NA	Solid	8015B NM	67747
890-5661-19	S-9 0-1	Total/NA	Solid	8015B NM	67747
890-5661-20	S-9 2	Total/NA	Solid	8015B NM	67747
MB 880-67747/1-A	Method Blank	Total/NA	Solid	8015B NM	67747
LCS 880-67747/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	67747
LCSD 880-67747/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	67747
890-5661-1 MS	S-1 0-1	Total/NA	Solid	8015B NM	67747

Eurofins Carlsbad

QC Association Summary

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

Job ID: 890-5661-1
SDG: Eddy County NM

GC Semi VOA (Continued)

Analysis Batch: 67682 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5661-1 MSD	S-1 0-1	Total/NA	Solid	8015B NM	67747

Analysis Batch: 67684

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5661-21	S-9 3R	Total/NA	Solid	8015B NM	67748
890-5661-22	S-10 0-1	Total/NA	Solid	8015B NM	67748
890-5661-23	S-10 2	Total/NA	Solid	8015B NM	67748
890-5661-24	S-10 3R	Total/NA	Solid	8015B NM	67748
890-5661-25	S-11 0-1	Total/NA	Solid	8015B NM	67748
890-5661-26	S-11 2R	Total/NA	Solid	8015B NM	67748
890-5661-27	S-12 0-1	Total/NA	Solid	8015B NM	67748
890-5661-28	S-12 2R	Total/NA	Solid	8015B NM	67748
890-5661-29	S-13 0-1	Total/NA	Solid	8015B NM	67748
890-5661-30	S-13 2	Total/NA	Solid	8015B NM	67748
890-5661-31	S-13 3R	Total/NA	Solid	8015B NM	67748
890-5661-32	S-14 0-1	Total/NA	Solid	8015B NM	67748
890-5661-33	S-14 2R	Total/NA	Solid	8015B NM	67748
890-5661-34	S-15 0-1	Total/NA	Solid	8015B NM	67748
890-5661-35	S-15 2R	Total/NA	Solid	8015B NM	67748
890-5661-36	H-1 0-1	Total/NA	Solid	8015B NM	67748
890-5661-37	H-2 0-1	Total/NA	Solid	8015B NM	67748
890-5661-38	H-3 0-1	Total/NA	Solid	8015B NM	67748
890-5661-39	H-4 0-1	Total/NA	Solid	8015B NM	67748
890-5661-40	H-5 0-1	Total/NA	Solid	8015B NM	67748
MB 880-67748/1-A	Method Blank	Total/NA	Solid	8015B NM	67748
LCS 880-67748/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	67748
LCSD 880-67748/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	67748
890-5661-21 MS	S-9 3R	Total/NA	Solid	8015B NM	67748
890-5661-21 MSD	S-9 3R	Total/NA	Solid	8015B NM	67748

Prep Batch: 67747

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5661-1	S-1 0-1	Total/NA	Solid	8015NM Prep	
890-5661-2	S-1 2	Total/NA	Solid	8015NM Prep	
890-5661-3	S-1 3	Total/NA	Solid	8015NM Prep	
890-5661-4	S-1 4	Total/NA	Solid	8015NM Prep	
890-5661-5	S-2 0-1	Total/NA	Solid	8015NM Prep	
890-5661-6	S-2 2R	Total/NA	Solid	8015NM Prep	
890-5661-7	S-3 0-1R	Total/NA	Solid	8015NM Prep	
890-5661-8	S-4 0-1R	Total/NA	Solid	8015NM Prep	
890-5661-9	S-5 0-1	Total/NA	Solid	8015NM Prep	
890-5661-10	S-5 2R	Total/NA	Solid	8015NM Prep	
890-5661-11	S-6 0-1	Total/NA	Solid	8015NM Prep	
890-5661-12	S-6 2	Total/NA	Solid	8015NM Prep	
890-5661-13	S-6 3R	Total/NA	Solid	8015NM Prep	
890-5661-14	S-7 0-1	Total/NA	Solid	8015NM Prep	
890-5661-15	S-7 2R	Total/NA	Solid	8015NM Prep	
890-5661-16	S-8 0-1	Total/NA	Solid	8015NM Prep	
890-5661-17	S-8 2	Total/NA	Solid	8015NM Prep	
890-5661-18	S-8 3R	Total/NA	Solid	8015NM Prep	
890-5661-19	S-9 0-1	Total/NA	Solid	8015NM Prep	

Eurofins Carlsbad

QC Association Summary

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

Job ID: 890-5661-1
SDG: Eddy County NM

GC Semi VOA (Continued)

Prep Batch: 67747 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5661-20	S-9 2	Total/NA	Solid	8015NM Prep	
MB 880-67747/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-67747/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-67747/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-5661-1 MS	S-1 0-1	Total/NA	Solid	8015NM Prep	
890-5661-1 MSD	S-1 0-1	Total/NA	Solid	8015NM Prep	

Prep Batch: 67748

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5661-21	S-9 3R	Total/NA	Solid	8015NM Prep	
890-5661-22	S-10 0-1	Total/NA	Solid	8015NM Prep	
890-5661-23	S-10 2	Total/NA	Solid	8015NM Prep	
890-5661-24	S-10 3R	Total/NA	Solid	8015NM Prep	
890-5661-25	S-11 0-1	Total/NA	Solid	8015NM Prep	
890-5661-26	S-11 2R	Total/NA	Solid	8015NM Prep	
890-5661-27	S-12 0-1	Total/NA	Solid	8015NM Prep	
890-5661-28	S-12 2R	Total/NA	Solid	8015NM Prep	
890-5661-29	S-13 0-1	Total/NA	Solid	8015NM Prep	
890-5661-30	S-13 2	Total/NA	Solid	8015NM Prep	
890-5661-31	S-13 3R	Total/NA	Solid	8015NM Prep	
890-5661-32	S-14 0-1	Total/NA	Solid	8015NM Prep	
890-5661-33	S-14 2R	Total/NA	Solid	8015NM Prep	
890-5661-34	S-15 0-1	Total/NA	Solid	8015NM Prep	
890-5661-35	S-15 2R	Total/NA	Solid	8015NM Prep	
890-5661-36	H-1 0-1	Total/NA	Solid	8015NM Prep	
890-5661-37	H-2 0-1	Total/NA	Solid	8015NM Prep	
890-5661-38	H-3 0-1	Total/NA	Solid	8015NM Prep	
890-5661-39	H-4 0-1	Total/NA	Solid	8015NM Prep	
890-5661-40	H-5 0-1	Total/NA	Solid	8015NM Prep	
MB 880-67748/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-67748/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-67748/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-5661-21 MS	S-9 3R	Total/NA	Solid	8015NM Prep	
890-5661-21 MSD	S-9 3R	Total/NA	Solid	8015NM Prep	

Prep Batch: 67813

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5661-41	H-6 0-1	Total/NA	Solid	8015NM Prep	
890-5661-42	H-7 0-1	Total/NA	Solid	8015NM Prep	
890-5661-43	H-8 0-1	Total/NA	Solid	8015NM Prep	
890-5661-44	H-9 0-1	Total/NA	Solid	8015NM Prep	
890-5661-45	H-10 0-1	Total/NA	Solid	8015NM Prep	
890-5661-46	H-11 0-1	Total/NA	Solid	8015NM Prep	
MB 880-67813/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-67813/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-67813/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-5661-41 MS	H-6 0-1	Total/NA	Solid	8015NM Prep	
890-5661-41 MSD	H-6 0-1	Total/NA	Solid	8015NM Prep	

Eurofins Carlsbad

QC Association Summary

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

Job ID: 890-5661-1
SDG: Eddy County NM

GC Semi VOA

Analysis Batch: 67836

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5661-1	S-1 0-1	Total/NA	Solid	8015 NM	
890-5661-2	S-1 2	Total/NA	Solid	8015 NM	
890-5661-3	S-1 3	Total/NA	Solid	8015 NM	
890-5661-4	S-1 4	Total/NA	Solid	8015 NM	
890-5661-5	S-2 0-1	Total/NA	Solid	8015 NM	
890-5661-6	S-2 2R	Total/NA	Solid	8015 NM	
890-5661-7	S-3 0-1R	Total/NA	Solid	8015 NM	
890-5661-8	S-4 0-1R	Total/NA	Solid	8015 NM	
890-5661-9	S-5 0-1	Total/NA	Solid	8015 NM	
890-5661-10	S-5 2R	Total/NA	Solid	8015 NM	
890-5661-11	S-6 0-1	Total/NA	Solid	8015 NM	
890-5661-12	S-6 2	Total/NA	Solid	8015 NM	
890-5661-13	S-6 3'R	Total/NA	Solid	8015 NM	
890-5661-14	S-7 0-1	Total/NA	Solid	8015 NM	
890-5661-15	S-7 2R	Total/NA	Solid	8015 NM	
890-5661-16	S-8 0-1	Total/NA	Solid	8015 NM	
890-5661-17	S-8 2	Total/NA	Solid	8015 NM	
890-5661-18	S-8 3R	Total/NA	Solid	8015 NM	
890-5661-19	S-9 0-1	Total/NA	Solid	8015 NM	
890-5661-20	S-9 2	Total/NA	Solid	8015 NM	
890-5661-21	S-9 3R	Total/NA	Solid	8015 NM	
890-5661-22	S-10 0-1	Total/NA	Solid	8015 NM	
890-5661-23	S-10 2	Total/NA	Solid	8015 NM	
890-5661-24	S-10 3R	Total/NA	Solid	8015 NM	
890-5661-25	S-11 0-1	Total/NA	Solid	8015 NM	
890-5661-26	S-11 2R	Total/NA	Solid	8015 NM	
890-5661-27	S-12 0-1	Total/NA	Solid	8015 NM	
890-5661-28	S-12 2R	Total/NA	Solid	8015 NM	
890-5661-29	S-13 0-1	Total/NA	Solid	8015 NM	
890-5661-30	S-13 2	Total/NA	Solid	8015 NM	
890-5661-31	S-13 3R	Total/NA	Solid	8015 NM	
890-5661-32	S-14 0-1	Total/NA	Solid	8015 NM	
890-5661-33	S-14 2R	Total/NA	Solid	8015 NM	
890-5661-34	S-15 0-1	Total/NA	Solid	8015 NM	
890-5661-35	S-15 2R	Total/NA	Solid	8015 NM	
890-5661-36	H-1 0-1	Total/NA	Solid	8015 NM	
890-5661-37	H-2 0-1	Total/NA	Solid	8015 NM	
890-5661-38	H-3 0-1	Total/NA	Solid	8015 NM	
890-5661-39	H-4 0-1	Total/NA	Solid	8015 NM	
890-5661-40	H-5 0-1	Total/NA	Solid	8015 NM	
890-5661-41	H-6 0-1	Total/NA	Solid	8015 NM	
890-5661-42	H-7 0-1	Total/NA	Solid	8015 NM	
890-5661-43	H-8 0-1	Total/NA	Solid	8015 NM	
890-5661-44	H-9 0-1	Total/NA	Solid	8015 NM	
890-5661-45	H-10 0-1	Total/NA	Solid	8015 NM	
890-5661-46	H-11 0-1	Total/NA	Solid	8015 NM	

Analysis Batch: 67889

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5661-41	H-6 0-1	Total/NA	Solid	8015B NM	67813
890-5661-42	H-7 0-1	Total/NA	Solid	8015B NM	67813

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QC Association Summary

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

Job ID: 890-5661-1
SDG: Eddy County NM

GC Semi VOA (Continued)

Analysis Batch: 67889 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5661-43	H-8 0-1	Total/NA	Solid	8015B NM	67813
890-5661-44	H-9 0-1	Total/NA	Solid	8015B NM	67813
890-5661-45	H-10 0-1	Total/NA	Solid	8015B NM	67813
890-5661-46	H-11 0-1	Total/NA	Solid	8015B NM	67813
MB 880-67813/1-A	Method Blank	Total/NA	Solid	8015B NM	67813
LCS 880-67813/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	67813
LCSD 880-67813/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	67813
890-5661-41 MS	H-6 0-1	Total/NA	Solid	8015B NM	67813
890-5661-41 MSD	H-6 0-1	Total/NA	Solid	8015B NM	67813

HPLC/IC

Leach Batch: 67541

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5661-1	S-1 0-1	Soluble	Solid	DI Leach	
890-5661-2	S-1 2	Soluble	Solid	DI Leach	
890-5661-3	S-1 3	Soluble	Solid	DI Leach	
890-5661-4	S-1 4	Soluble	Solid	DI Leach	
890-5661-5	S-2 0-1	Soluble	Solid	DI Leach	
890-5661-6	S-2 2R	Soluble	Solid	DI Leach	
890-5661-7	S-3 0-1R	Soluble	Solid	DI Leach	
890-5661-8	S-4 0-1R	Soluble	Solid	DI Leach	
890-5661-9	S-5 0-1	Soluble	Solid	DI Leach	
890-5661-10	S-5 2R	Soluble	Solid	DI Leach	
890-5661-11	S-6 0-1	Soluble	Solid	DI Leach	
890-5661-12	S-6 2	Soluble	Solid	DI Leach	
890-5661-13	S-6 3'R	Soluble	Solid	DI Leach	
890-5661-14	S-7 0-1	Soluble	Solid	DI Leach	
890-5661-15	S-7 2R	Soluble	Solid	DI Leach	
890-5661-16	S-8 0-1	Soluble	Solid	DI Leach	
890-5661-17	S-8 2	Soluble	Solid	DI Leach	
890-5661-18	S-8 3R	Soluble	Solid	DI Leach	
890-5661-19	S-9 0-1	Soluble	Solid	DI Leach	
890-5661-20	S-9 2	Soluble	Solid	DI Leach	
MB 880-67541/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-67541/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-67541/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-5661-1 MS	S-1 0-1	Soluble	Solid	DI Leach	
890-5661-1 MSD	S-1 0-1	Soluble	Solid	DI Leach	
890-5661-11 MS	S-6 0-1	Soluble	Solid	DI Leach	
890-5661-11 MSD	S-6 0-1	Soluble	Solid	DI Leach	

Leach Batch: 67542

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5661-21	S-9 3R	Soluble	Solid	DI Leach	
890-5661-22	S-10 0-1	Soluble	Solid	DI Leach	
890-5661-23	S-10 2	Soluble	Solid	DI Leach	
890-5661-24	S-10 3R	Soluble	Solid	DI Leach	
890-5661-25	S-11 0-1	Soluble	Solid	DI Leach	
890-5661-26	S-11 2R	Soluble	Solid	DI Leach	
890-5661-27	S-12 0-1	Soluble	Solid	DI Leach	

Eurofins Carlsbad

QC Association Summary

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

Job ID: 890-5661-1
SDG: Eddy County NM

HPLC/IC (Continued)

Leach Batch: 67542 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5661-28	S-12 2R	Soluble	Solid	DI Leach	
890-5661-29	S-13 0-1	Soluble	Solid	DI Leach	
890-5661-30	S-13 2	Soluble	Solid	DI Leach	
890-5661-31	S-13 3R	Soluble	Solid	DI Leach	
890-5661-32	S-14 0-1	Soluble	Solid	DI Leach	
890-5661-33	S-14 2R	Soluble	Solid	DI Leach	
890-5661-34	S-15 0-1	Soluble	Solid	DI Leach	
890-5661-35	S-15 2R	Soluble	Solid	DI Leach	
890-5661-36	H-1 0-1	Soluble	Solid	DI Leach	
890-5661-37	H-2 0-1	Soluble	Solid	DI Leach	
890-5661-38	H-3 0-1	Soluble	Solid	DI Leach	
890-5661-39	H-4 0-1	Soluble	Solid	DI Leach	
890-5661-40	H-5 0-1	Soluble	Solid	DI Leach	
MB 880-67542/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-67542/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-67542/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-5661-21 MS	S-9 3R	Soluble	Solid	DI Leach	
890-5661-21 MSD	S-9 3R	Soluble	Solid	DI Leach	
890-5661-31 MS	S-13 3R	Soluble	Solid	DI Leach	
890-5661-31 MSD	S-13 3R	Soluble	Solid	DI Leach	

Leach Batch: 67543

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5661-41	H-6 0-1	Soluble	Solid	DI Leach	
890-5661-42	H-7 0-1	Soluble	Solid	DI Leach	
890-5661-43	H-8 0-1	Soluble	Solid	DI Leach	
890-5661-44	H-9 0-1	Soluble	Solid	DI Leach	
890-5661-45	H-10 0-1	Soluble	Solid	DI Leach	
890-5661-46	H-11 0-1	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	

Analysis Batch: 67659

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5661-1	S-1 0-1	Soluble	Solid	300.0	67541
890-5661-2	S-1 2	Soluble	Solid	300.0	67541
890-5661-3	S-1 3	Soluble	Solid	300.0	67541
890-5661-4	S-1 4	Soluble	Solid	300.0	67541
890-5661-5	S-2 0-1	Soluble	Solid	300.0	67541
890-5661-6	S-2 2R	Soluble	Solid	300.0	67541
890-5661-7	S-3 0-1R	Soluble	Solid	300.0	67541
890-5661-8	S-4 0-1R	Soluble	Solid	300.0	67541
890-5661-9	S-5 0-1	Soluble	Solid	300.0	67541
890-5661-10	S-5 2R	Soluble	Solid	300.0	67541
890-5661-11	S-6 0-1	Soluble	Solid	300.0	67541
890-5661-12	S-6 2	Soluble	Solid	300.0	67541
890-5661-13	S-6 3R	Soluble	Solid	300.0	67541
890-5661-14	S-7 0-1	Soluble	Solid	300.0	67541
890-5661-15	S-7 2R	Soluble	Solid	300.0	67541
890-5661-16	S-8 0-1	Soluble	Solid	300.0	67541

Eurofins Carlsbad

QC Association Summary

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

Job ID: 890-5661-1
SDG: Eddy County NM

HPLC/IC (Continued)

Analysis Batch: 67659 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5661-17	S-8 2	Soluble	Solid	300.0	67541
890-5661-18	S-8 3R	Soluble	Solid	300.0	67541
890-5661-19	S-9 0-1	Soluble	Solid	300.0	67541
890-5661-20	S-9 2	Soluble	Solid	300.0	67541
MB 880-67541/1-A	Method Blank	Soluble	Solid	300.0	67541
LCS 880-67541/2-A	Lab Control Sample	Soluble	Solid	300.0	67541
LCSD 880-67541/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	67541
890-5661-1 MS	S-1 0-1	Soluble	Solid	300.0	67541
890-5661-1 MSD	S-1 0-1	Soluble	Solid	300.0	67541
890-5661-11 MS	S-6 0-1	Soluble	Solid	300.0	67541
890-5661-11 MSD	S-6 0-1	Soluble	Solid	300.0	67541

Analysis Batch: 67660

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5661-21	S-9 3R	Soluble	Solid	300.0	67542
890-5661-22	S-10 0-1	Soluble	Solid	300.0	67542
890-5661-23	S-10 2	Soluble	Solid	300.0	67542
890-5661-24	S-10 3R	Soluble	Solid	300.0	67542
890-5661-25	S-11 0-1	Soluble	Solid	300.0	67542
890-5661-26	S-11 2R	Soluble	Solid	300.0	67542
890-5661-27	S-12 0-1	Soluble	Solid	300.0	67542
890-5661-28	S-12 2R	Soluble	Solid	300.0	67542
890-5661-29	S-13 0-1	Soluble	Solid	300.0	67542
890-5661-30	S-13 2	Soluble	Solid	300.0	67542
890-5661-31	S-13 3R	Soluble	Solid	300.0	67542
890-5661-32	S-14 0-1	Soluble	Solid	300.0	67542
890-5661-33	S-14 2R	Soluble	Solid	300.0	67542
890-5661-34	S-15 0-1	Soluble	Solid	300.0	67542
890-5661-35	S-15 2R	Soluble	Solid	300.0	67542
890-5661-36	H-1 0-1	Soluble	Solid	300.0	67542
890-5661-37	H-2 0-1	Soluble	Solid	300.0	67542
890-5661-38	H-3 0-1	Soluble	Solid	300.0	67542
890-5661-39	H-4 0-1	Soluble	Solid	300.0	67542
890-5661-40	H-5 0-1	Soluble	Solid	300.0	67542
MB 880-67542/1-A	Method Blank	Soluble	Solid	300.0	67542
LCS 880-67542/2-A	Lab Control Sample	Soluble	Solid	300.0	67542
LCSD 880-67542/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	67542
890-5661-21 MS	S-9 3R	Soluble	Solid	300.0	67542
890-5661-21 MSD	S-9 3R	Soluble	Solid	300.0	67542
890-5661-31 MS	S-13 3R	Soluble	Solid	300.0	67542
890-5661-31 MSD	S-13 3R	Soluble	Solid	300.0	67542

Analysis Batch: 67661

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5661-41	H-6 0-1	Soluble	Solid	300.0	67543
890-5661-42	H-7 0-1	Soluble	Solid	300.0	67543
890-5661-43	H-8 0-1	Soluble	Solid	300.0	67543
890-5661-44	H-9 0-1	Soluble	Solid	300.0	67543
890-5661-45	H-10 0-1	Soluble	Solid	300.0	67543
890-5661-46	H-11 0-1	Soluble	Solid	300.0	67543
MB 880-67543/1-A	Method Blank	Soluble	Solid	300.0	67543

Eurofins Carlsbad

QC Association Summary

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

Job ID: 890-5661-1
SDG: Eddy County NM

HPLC/IC (Continued)

Analysis Batch: 67661 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
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

- 1
- 2
- 3
- 4
- 5
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- 8
- 9
- 10
- 11
- 12
- 13
- 14

Lab Chronicle

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

Job ID: 890-5661-1
SDG: Eddy County NM

Client Sample ID: S-1 0-1

Lab Sample ID: 890-5661-1

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	67579	11/21/23 14:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	67632	11/23/23 19:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67775	11/23/23 19:54	SM	EET MID
Total/NA	Analysis	8015 NM		1			67836	11/27/23 20:40	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	67747	11/27/23 13:29	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67682	11/27/23 20:40	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	67541	11/21/23 11:02	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	67659	11/27/23 10:10	CH	EET MID

Client Sample ID: S-1 2

Lab Sample ID: 890-5661-2

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	67579	11/21/23 14:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	67632	11/23/23 20:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67775	11/23/23 20:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			67836	11/27/23 21:43	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	67747	11/27/23 13:29	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67682	11/27/23 21:43	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	67541	11/21/23 11:02	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	67659	11/27/23 10:27	CH	EET MID

Client Sample ID: S-1 3

Lab Sample ID: 890-5661-3

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	67579	11/21/23 14:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	67632	11/23/23 20:47	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67775	11/23/23 20:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			67836	11/27/23 22:04	SM	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	67747	11/27/23 13:29	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67682	11/27/23 22:04	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	67541	11/21/23 11:02	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	67659	11/27/23 10:33	CH	EET MID

Client Sample ID: S-1 4

Lab Sample ID: 890-5661-4

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	67742	11/27/23 11:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	67690	11/28/23 00:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67775	11/28/23 00:17	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

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

Job ID: 890-5661-1
SDG: Eddy County NM

Client Sample ID: S-1 4

Lab Sample ID: 890-5661-4

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			67836	11/27/23 22:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	67747	11/27/23 13:29	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67682	11/27/23 22:25	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	67541	11/21/23 11:02	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	67659	11/27/23 10:39	CH	EET MID

Client Sample ID: S-2 0-1

Lab Sample ID: 890-5661-5

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	67694	11/27/23 09:14	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	67689	11/27/23 14:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67775	11/27/23 14:46	SM	EET MID
Total/NA	Analysis	8015 NM		1			67836	11/27/23 22:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	67747	11/27/23 13:29	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67682	11/27/23 22:47	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	67541	11/21/23 11:02	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	67659	11/27/23 10:44	CH	EET MID

Client Sample ID: S-2 2R

Lab Sample ID: 890-5661-6

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	67694	11/27/23 09:14	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	67689	11/27/23 15:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67775	11/27/23 15:13	SM	EET MID
Total/NA	Analysis	8015 NM		1			67836	11/27/23 23:08	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	67747	11/27/23 13:29	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67682	11/27/23 23:08	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	67541	11/21/23 11:02	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	67659	11/27/23 11:01	CH	EET MID

Client Sample ID: S-3 0-1R

Lab Sample ID: 890-5661-7

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	67694	11/27/23 09:14	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	67689	11/27/23 15:40	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67775	11/27/23 15:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			67836	11/27/23 23:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	67747	11/27/23 13:29	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67682	11/27/23 23:29	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

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

Job ID: 890-5661-1
SDG: Eddy County NM

Client Sample ID: S-3 0-1R

Lab Sample ID: 890-5661-7

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	67541	11/21/23 11:02	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	67659	11/27/23 11:07	CH	EET MID

Client Sample ID: S-4 0-1R

Lab Sample ID: 890-5661-8

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	67694	11/27/23 09:14	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	67689	11/27/23 16:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67775	11/27/23 16:06	SM	EET MID
Total/NA	Analysis	8015 NM		1			67836	11/27/23 23:50	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	67747	11/27/23 13:29	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67682	11/27/23 23:50	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	67541	11/21/23 11:02	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	67659	11/27/23 11:13	CH	EET MID

Client Sample ID: S-5 0-1

Lab Sample ID: 890-5661-9

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	67694	11/27/23 09:14	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	67689	11/27/23 16:33	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67775	11/27/23 16:33	SM	EET MID
Total/NA	Analysis	8015 NM		1			67836	11/28/23 00:12	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	67747	11/27/23 13:29	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67682	11/28/23 00:12	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	67541	11/21/23 11:02	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	67659	11/27/23 11:18	CH	EET MID

Client Sample ID: S-5 2R

Lab Sample ID: 890-5661-10

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	67694	11/27/23 09:14	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	67689	11/27/23 16:59	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67775	11/27/23 16:59	SM	EET MID
Total/NA	Analysis	8015 NM		1			67836	11/28/23 00:33	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	67747	11/27/23 13:29	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67682	11/28/23 00:33	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	67541	11/21/23 11:02	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	67659	11/27/23 11:24	CH	EET MID

Eurofins Carlsbad

Lab Chronicle

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

Job ID: 890-5661-1
SDG: Eddy County NM

Client Sample ID: S-6 0-1**Lab Sample ID: 890-5661-11****Date Collected: 11/17/23 00:00****Matrix: Solid****Date Received: 11/17/23 13:35**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	67694	11/27/23 09:14	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	67689	11/27/23 18:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67775	11/27/23 18:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			67836	11/28/23 01:16	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	67747	11/27/23 13:29	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67682	11/28/23 01:16	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	67541	11/21/23 11:02	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	67659	11/27/23 11:30	CH	EET MID

Client Sample ID: S-6 2**Lab Sample ID: 890-5661-12****Date Collected: 11/17/23 00:00****Matrix: Solid****Date Received: 11/17/23 13:35**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	67694	11/27/23 09:14	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	67689	11/27/23 19:10	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67775	11/27/23 19:10	SM	EET MID
Total/NA	Analysis	8015 NM		1			67836	11/28/23 01:37	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	67747	11/27/23 13:29	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67682	11/28/23 01:37	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	67541	11/21/23 11:02	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	67659	11/27/23 11:46	CH	EET MID

Client Sample ID: S-6 3'R**Lab Sample ID: 890-5661-13****Date Collected: 11/17/23 00:00****Matrix: Solid****Date Received: 11/17/23 13:35**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	67694	11/27/23 09:14	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	67689	11/27/23 19:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67775	11/27/23 19:35	SM	EET MID
Total/NA	Analysis	8015 NM		1			67836	11/28/23 01:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	67747	11/27/23 13:29	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67682	11/28/23 01:58	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	67541	11/21/23 11:02	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	67659	11/27/23 11:52	CH	EET MID

Client Sample ID: S-7 0-1**Lab Sample ID: 890-5661-14****Date Collected: 11/17/23 00:00****Matrix: Solid****Date Received: 11/17/23 13:35**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	67694	11/27/23 09:14	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	67689	11/27/23 20:01	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67775	11/27/23 20:01	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

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

Job ID: 890-5661-1
SDG: Eddy County NM

Client Sample ID: S-7 0-1**Lab Sample ID: 890-5661-14****Date Collected: 11/17/23 00:00****Matrix: Solid****Date Received: 11/17/23 13:35**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			67836	11/28/23 02:20	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	67747	11/27/23 13:29	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67682	11/28/23 02:20	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	67541	11/21/23 11:02	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	67659	11/27/23 12:09	CH	EET MID

Client Sample ID: S-7 2R**Lab Sample ID: 890-5661-15****Date Collected: 11/17/23 00:00****Matrix: Solid****Date Received: 11/17/23 13:35**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	67694	11/27/23 09:14	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	67689	11/27/23 20:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67775	11/27/23 20:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			67836	11/28/23 02:41	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	67747	11/27/23 13:29	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67682	11/28/23 02:41	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	67541	11/21/23 11:02	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	67659	11/27/23 12:15	CH	EET MID

Client Sample ID: S-8 0-1**Lab Sample ID: 890-5661-16****Date Collected: 11/17/23 00:00****Matrix: Solid****Date Received: 11/17/23 13:35**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	67694	11/27/23 09:14	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	67689	11/27/23 20:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67775	11/27/23 20:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			67836	11/28/23 03:01	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	67747	11/27/23 13:29	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67682	11/28/23 03:01	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	67541	11/21/23 11:02	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	67659	11/27/23 12:20	CH	EET MID

Client Sample ID: S-8 2**Lab Sample ID: 890-5661-17****Date Collected: 11/17/23 00:00****Matrix: Solid****Date Received: 11/17/23 13:35**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	67694	11/27/23 09:14	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	67689	11/27/23 21:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67775	11/27/23 21:17	SM	EET MID
Total/NA	Analysis	8015 NM		1			67836	11/28/23 03:23	SM	EET MID
Total/NA	Prep	8015NM Prep			9.95 g	10 mL	67747	11/27/23 13:29	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67682	11/28/23 03:23	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

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

Job ID: 890-5661-1
SDG: Eddy County NM

Client Sample ID: S-8 2

Date Collected: 11/17/23 00:00

Date Received: 11/17/23 13:35

Lab Sample ID: 890-5661-17

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.95 g	50 mL	67541	11/21/23 11:02	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	67659	11/27/23 12:26	CH	EET MID

Client Sample ID: S-8 3R

Date Collected: 11/17/23 00:00

Date Received: 11/17/23 13:35

Lab Sample ID: 890-5661-18

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	67694	11/27/23 09:14	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	67689	11/27/23 21:43	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67775	11/27/23 21:43	SM	EET MID
Total/NA	Analysis	8015 NM		1			67836	11/28/23 03:44	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	67747	11/27/23 13:29	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67682	11/28/23 03:44	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	67541	11/21/23 11:02	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	67659	11/27/23 12:32	CH	EET MID

Client Sample ID: S-9 0-1

Date Collected: 11/17/23 00:00

Date Received: 11/17/23 13:35

Lab Sample ID: 890-5661-19

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	67694	11/27/23 09:14	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	67689	11/27/23 22:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67775	11/27/23 22:08	SM	EET MID
Total/NA	Analysis	8015 NM		1			67836	11/28/23 04:05	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	67747	11/27/23 13:29	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67682	11/28/23 04:05	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	67541	11/21/23 11:02	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	67659	11/27/23 12:37	CH	EET MID

Client Sample ID: S-9 2

Date Collected: 11/17/23 00:00

Date Received: 11/17/23 13:35

Lab Sample ID: 890-5661-20

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	67694	11/27/23 09:14	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	67689	11/27/23 22:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67775	11/27/23 22:34	SM	EET MID
Total/NA	Analysis	8015 NM		1			67836	11/28/23 04:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	67747	11/27/23 13:29	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67682	11/28/23 04:26	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	67541	11/21/23 11:02	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	67659	11/27/23 12:43	CH	EET MID

Eurofins Carlsbad

Lab Chronicle

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

Job ID: 890-5661-1
SDG: Eddy County NM

Client Sample ID: S-9 3R**Lab Sample ID: 890-5661-21****Date Collected: 11/17/23 00:00****Matrix: Solid****Date Received: 11/17/23 13:35**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	67581	11/21/23 15:01	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	67631	11/23/23 15:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67775	11/23/23 15:22	SM	EET MID
Total/NA	Analysis	8015 NM		1			67836	11/27/23 20:40	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	67748	11/27/23 13:32	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67684	11/27/23 20:40	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	67542	11/21/23 11:06	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	67660	11/23/23 02:40	CH	EET MID

Client Sample ID: S-10 0-1**Lab Sample ID: 890-5661-22****Date Collected: 11/17/23 00:00****Matrix: Solid****Date Received: 11/17/23 13:35**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	67581	11/21/23 15:01	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	67631	11/23/23 15:43	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67775	11/23/23 15:43	SM	EET MID
Total/NA	Analysis	8015 NM		1			67836	11/27/23 21:43	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	67748	11/27/23 13:32	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67684	11/27/23 21:43	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	67542	11/21/23 11:06	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	67660	11/23/23 02:57	CH	EET MID

Client Sample ID: S-10 2**Lab Sample ID: 890-5661-23****Date Collected: 11/17/23 00:00****Matrix: Solid****Date Received: 11/17/23 13:35**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	67581	11/21/23 15:01	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	67631	11/23/23 16:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67775	11/23/23 16:03	SM	EET MID
Total/NA	Analysis	8015 NM		1			67836	11/27/23 22:04	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	67748	11/27/23 13:32	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67684	11/27/23 22:04	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	67542	11/21/23 11:06	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	67660	11/23/23 03:02	CH	EET MID

Client Sample ID: S-10 3R**Lab Sample ID: 890-5661-24****Date Collected: 11/17/23 00:00****Matrix: Solid****Date Received: 11/17/23 13:35**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	67581	11/21/23 15:01	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	67631	11/23/23 16:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67775	11/23/23 16:24	SM	EET MID

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Lab Chronicle

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

Job ID: 890-5661-1
SDG: Eddy County NM

Client Sample ID: S-10 3R**Lab Sample ID: 890-5661-24****Date Collected: 11/17/23 00:00****Matrix: Solid****Date Received: 11/17/23 13:35**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			67836	11/27/23 22:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	67748	11/27/23 13:32	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67684	11/27/23 22:25	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	67542	11/21/23 11:06	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	67660	11/23/23 03:08	CH	EET MID

Client Sample ID: S-11 0-1**Lab Sample ID: 890-5661-25****Date Collected: 11/17/23 00:00****Matrix: Solid****Date Received: 11/17/23 13:35**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	67581	11/21/23 15:01	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	67631	11/23/23 16:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67775	11/23/23 16:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			67836	11/27/23 22:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	67748	11/27/23 13:32	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67684	11/27/23 22:47	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	67542	11/21/23 11:06	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	67660	11/23/23 03:14	CH	EET MID

Client Sample ID: S-11 2R**Lab Sample ID: 890-5661-26****Date Collected: 11/17/23 00:00****Matrix: Solid****Date Received: 11/17/23 13:35**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	67581	11/21/23 15:01	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	67631	11/23/23 17:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67775	11/23/23 17:04	SM	EET MID
Total/NA	Analysis	8015 NM		1			67836	11/27/23 23:08	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	67748	11/27/23 13:32	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67684	11/27/23 23:08	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	67542	11/21/23 11:06	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	67660	11/23/23 03:30	CH	EET MID

Client Sample ID: S-12 0-1**Lab Sample ID: 890-5661-27****Date Collected: 11/17/23 00:00****Matrix: Solid****Date Received: 11/17/23 13:35**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	67581	11/21/23 15:01	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	67631	11/23/23 17:25	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67775	11/23/23 17:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			67836	11/27/23 23:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	67748	11/27/23 13:32	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67684	11/27/23 23:29	SM	EET MID

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Lab Chronicle

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

Job ID: 890-5661-1
SDG: Eddy County NM

Client Sample ID: S-12 0-1**Lab Sample ID: 890-5661-27****Date Collected: 11/17/23 00:00****Matrix: Solid****Date Received: 11/17/23 13:35**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	67542	11/21/23 11:06	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	67660	11/23/23 03:36	CH	EET MID

Client Sample ID: S-12 2R**Lab Sample ID: 890-5661-28****Date Collected: 11/17/23 00:00****Matrix: Solid****Date Received: 11/17/23 13:35**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	67581	11/21/23 15:01	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	67631	11/23/23 17:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67775	11/23/23 17:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			67836	11/27/23 23:50	SM	EET MID
Total/NA	Prep	8015NM Prep			9.95 g	10 mL	67748	11/27/23 13:32	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67684	11/27/23 23:50	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	67542	11/21/23 11:06	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	67660	11/23/23 03:42	CH	EET MID

Client Sample ID: S-13 0-1**Lab Sample ID: 890-5661-29****Date Collected: 11/17/23 00:00****Matrix: Solid****Date Received: 11/17/23 13:35**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	67581	11/21/23 15:01	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	67631	11/23/23 18:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67775	11/23/23 18:06	SM	EET MID
Total/NA	Analysis	8015 NM		1			67836	11/28/23 00:12	SM	EET MID
Total/NA	Prep	8015NM Prep			9.95 g	10 mL	67748	11/27/23 13:32	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67684	11/28/23 00:12	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	67542	11/21/23 11:06	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	67660	11/23/23 03:47	CH	EET MID

Client Sample ID: S-13 2**Lab Sample ID: 890-5661-30****Date Collected: 11/17/23 00:00****Matrix: Solid****Date Received: 11/17/23 13:35**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	67581	11/21/23 15:01	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	67631	11/23/23 18:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67775	11/23/23 18:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			67836	11/28/23 00:33	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	67748	11/27/23 13:32	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67684	11/28/23 00:33	SM	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	67542	11/21/23 11:06	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	67660	11/23/23 03:53	CH	EET MID

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Lab Chronicle

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

Job ID: 890-5661-1
SDG: Eddy County NM

Client Sample ID: S-13 3R**Lab Sample ID: 890-5661-31****Date Collected: 11/17/23 00:00****Matrix: Solid****Date Received: 11/17/23 13:35**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	67581	11/21/23 15:01	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	67631	11/23/23 20:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67775	11/23/23 20:16	SM	EET MID
Total/NA	Analysis	8015 NM		1			67836	11/28/23 01:16	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	67748	11/27/23 13:32	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67684	11/28/23 01:16	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	67542	11/21/23 11:06	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	67660	11/23/23 03:59	CH	EET MID

Client Sample ID: S-14 0-1**Lab Sample ID: 890-5661-32****Date Collected: 11/17/23 00:00****Matrix: Solid****Date Received: 11/17/23 13:35**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	67581	11/21/23 15:01	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	67631	11/23/23 20:36	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67775	11/23/23 20:36	SM	EET MID
Total/NA	Analysis	8015 NM		1			67836	11/28/23 01:37	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	67748	11/27/23 13:32	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67684	11/28/23 01:37	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	67542	11/21/23 11:06	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	67660	11/23/23 04:16	CH	EET MID

Client Sample ID: S-14 2R**Lab Sample ID: 890-5661-33****Date Collected: 11/17/23 00:00****Matrix: Solid****Date Received: 11/17/23 13:35**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	67581	11/21/23 15:01	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	67631	11/23/23 20:57	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67775	11/23/23 20:57	SM	EET MID
Total/NA	Analysis	8015 NM		1			67836	11/28/23 01:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	67748	11/27/23 13:32	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67684	11/28/23 01:58	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	67542	11/21/23 11:06	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	67660	11/23/23 04:21	CH	EET MID

Client Sample ID: S-15 0-1**Lab Sample ID: 890-5661-34****Date Collected: 11/17/23 00:00****Matrix: Solid****Date Received: 11/17/23 13:35**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	67581	11/21/23 15:01	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	67631	11/23/23 21:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67775	11/23/23 21:17	SM	EET MID

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Lab Chronicle

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

Job ID: 890-5661-1
SDG: Eddy County NM

Client Sample ID: S-15 0-1

Lab Sample ID: 890-5661-34

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			67836	11/28/23 02:20	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	67748	11/27/23 13:32	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67684	11/28/23 02:20	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	67542	11/21/23 11:06	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	67660	11/23/23 04:38	CH	EET MID

Client Sample ID: S-15 2R

Lab Sample ID: 890-5661-35

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	67581	11/21/23 15:01	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	67631	11/23/23 21:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67775	11/23/23 21:38	SM	EET MID
Total/NA	Analysis	8015 NM		1			67836	11/28/23 02:41	SM	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	67748	11/27/23 13:32	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67684	11/28/23 02:41	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	67542	11/21/23 11:06	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	67660	11/23/23 04:44	CH	EET MID

Client Sample ID: H-1 0-1

Lab Sample ID: 890-5661-36

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	67581	11/21/23 15:01	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	67631	11/23/23 21:58	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67775	11/23/23 21:58	SM	EET MID
Total/NA	Analysis	8015 NM		1			67836	11/28/23 03:01	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	67748	11/27/23 13:32	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67684	11/28/23 03:01	SM	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	67542	11/21/23 11:06	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	67660	11/23/23 04:50	CH	EET MID

Client Sample ID: H-2 0-1

Lab Sample ID: 890-5661-37

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	67581	11/21/23 15:01	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	67631	11/23/23 22:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67775	11/23/23 22:19	SM	EET MID
Total/NA	Analysis	8015 NM		1			67836	11/28/23 03:23	SM	EET MID
Total/NA	Prep	8015NM Prep			9.91 g	10 mL	67748	11/27/23 13:32	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67684	11/28/23 03:23	SM	EET MID

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Lab Chronicle

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

Job ID: 890-5661-1
SDG: Eddy County NM

Client Sample ID: H-2 0-1**Lab Sample ID: 890-5661-37****Date Collected: 11/17/23 00:00****Matrix: Solid****Date Received: 11/17/23 13:35**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	67542	11/21/23 11:06	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	67660	11/23/23 04:55	CH	EET MID

Client Sample ID: H-3 0-1**Lab Sample ID: 890-5661-38****Date Collected: 11/17/23 00:00****Matrix: Solid****Date Received: 11/17/23 13:35**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	67581	11/21/23 15:01	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	67631	11/23/23 22:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67775	11/23/23 22:39	SM	EET MID
Total/NA	Analysis	8015 NM		1			67836	11/28/23 03:44	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	67748	11/27/23 13:32	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67684	11/28/23 03:44	SM	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	67542	11/21/23 11:06	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	67660	11/23/23 05:01	CH	EET MID

Client Sample ID: H-4 0-1**Lab Sample ID: 890-5661-39****Date Collected: 11/17/23 00:00****Matrix: Solid****Date Received: 11/17/23 13:35**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	67581	11/21/23 15:01	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	67631	11/23/23 23:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67775	11/23/23 23:00	SM	EET MID
Total/NA	Analysis	8015 NM		1			67836	11/28/23 04:05	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	67748	11/27/23 13:32	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67684	11/28/23 04:05	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	67542	11/21/23 11:06	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	67660	11/23/23 05:07	CH	EET MID

Client Sample ID: H-5 0-1**Lab Sample ID: 890-5661-40****Date Collected: 11/17/23 00:00****Matrix: Solid****Date Received: 11/17/23 13:35**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	67581	11/21/23 15:01	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	67631	11/23/23 23:20	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67775	11/23/23 23:20	SM	EET MID
Total/NA	Analysis	8015 NM		1			67836	11/28/23 04:26	SM	EET MID
Total/NA	Prep	8015NM Prep			9.91 g	10 mL	67748	11/27/23 13:32	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67684	11/28/23 04:26	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	67542	11/21/23 11:06	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	67660	11/23/23 05:12	CH	EET MID

Eurofins Carlsbad

Lab Chronicle

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

Job ID: 890-5661-1
SDG: Eddy County NM

Client Sample ID: H-6 0-1**Lab Sample ID: 890-5661-41****Date Collected: 11/17/23 00:00****Matrix: Solid****Date Received: 11/17/23 13:35**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	67739	11/27/23 10:51	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	67691	11/28/23 02:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67775	11/28/23 02:41	SM	EET MID
Total/NA	Analysis	8015 NM		1			67836	11/29/23 10:46	SM	EET MID
Total/NA	Prep	8015NM Prep			9.96 g	10 mL	67813	11/28/23 08:54	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67889	11/29/23 10:46	SM	EET MID
Soluble	Leach	DI Leach			5.02 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 09:43	CH	EET MID

Client Sample ID: H-7 0-1**Lab Sample ID: 890-5661-42****Date Collected: 11/17/23 00:00****Matrix: Solid****Date Received: 11/17/23 13:35**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	67739	11/27/23 10:51	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	67691	11/28/23 03:01	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67775	11/28/23 03:01	SM	EET MID
Total/NA	Analysis	8015 NM		1			67836	11/29/23 11:53	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	67813	11/28/23 08:54	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67889	11/29/23 11:53	SM	EET MID
Soluble	Leach	DI Leach			5.02 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 09:49	CH	EET MID

Client Sample ID: H-8 0-1**Lab Sample ID: 890-5661-43****Date Collected: 11/17/23 00:00****Matrix: Solid****Date Received: 11/17/23 13:35**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	67739	11/27/23 10:51	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	67691	11/28/23 04:51	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67775	11/28/23 04:51	SM	EET MID
Total/NA	Analysis	8015 NM		1			67836	11/29/23 12:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	67813	11/28/23 08:54	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67889	11/29/23 12:15	SM	EET MID
Soluble	Leach	DI Leach			4.95 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 09:56	CH	EET MID

Client Sample ID: H-9 0-1**Lab Sample ID: 890-5661-44****Date Collected: 11/17/23 00:00****Matrix: Solid****Date Received: 11/17/23 13:35**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	67739	11/27/23 10:51	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	67691	11/28/23 05:12	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67775	11/28/23 05:12	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

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

Job ID: 890-5661-1
SDG: Eddy County NM

Client Sample ID: H-9 0-1

Lab Sample ID: 890-5661-44

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			67836	11/29/23 12:37	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	67813	11/28/23 08:54	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67889	11/29/23 12:37	SM	EET MID
Soluble	Leach	DI Leach			5.02 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 10:02	CH	EET MID

Client Sample ID: H-10 0-1

Lab Sample ID: 890-5661-45

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	67739	11/27/23 10:51	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	67691	11/28/23 05:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67775	11/28/23 05:32	SM	EET MID
Total/NA	Analysis	8015 NM		1			67836	11/29/23 12:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	67813	11/28/23 08:54	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67889	11/29/23 12:59	SM	EET MID
Soluble	Leach	DI Leach			5.03 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 10:09	CH	EET MID

Client Sample ID: H-11 0-1

Lab Sample ID: 890-5661-46

Date Collected: 11/17/23 00:00

Matrix: Solid

Date Received: 11/17/23 13:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	67739	11/27/23 10:51	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	67691	11/28/23 05:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67775	11/28/23 05:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			67836	11/29/23 13:22	SM	EET MID
Total/NA	Prep	8015NM Prep			9.91 g	10 mL	67813	11/28/23 08:54	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67889	11/29/23 13:22	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 10:16	CH	EET MID

Laboratory References:

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

Eurofins Carlsbad

Accreditation/Certification Summary

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

Job ID: 890-5661-1
SDG: Eddy County NM

Laboratory: Eurofins Midland

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

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

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Method Summary

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

Job ID: 890-5661-1
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: 890-5661-1
SDG: Eddy County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-5661-1	S-1 0-1	Solid	11/17/23 00:00	11/17/23 13:35
890-5661-2	S-1 2	Solid	11/17/23 00:00	11/17/23 13:35
890-5661-3	S-1 3	Solid	11/17/23 00:00	11/17/23 13:35
890-5661-4	S-1 4	Solid	11/17/23 00:00	11/17/23 13:35
890-5661-5	S-2 0-1	Solid	11/17/23 00:00	11/17/23 13:35
890-5661-6	S-2 2R	Solid	11/17/23 00:00	11/17/23 13:35
890-5661-7	S-3 0-1R	Solid	11/17/23 00:00	11/17/23 13:35
890-5661-8	S-4 0-1R	Solid	11/17/23 00:00	11/17/23 13:35
890-5661-9	S-5 0-1	Solid	11/17/23 00:00	11/17/23 13:35
890-5661-10	S-5 2R	Solid	11/17/23 00:00	11/17/23 13:35
890-5661-11	S-6 0-1	Solid	11/17/23 00:00	11/17/23 13:35
890-5661-12	S-6 2	Solid	11/17/23 00:00	11/17/23 13:35
890-5661-13	S-6 3R	Solid	11/17/23 00:00	11/17/23 13:35
890-5661-14	S-7 0-1	Solid	11/17/23 00:00	11/17/23 13:35
890-5661-15	S-7 2R	Solid	11/17/23 00:00	11/17/23 13:35
890-5661-16	S-8 0-1	Solid	11/17/23 00:00	11/17/23 13:35
890-5661-17	S-8 2	Solid	11/17/23 00:00	11/17/23 13:35
890-5661-18	S-8 3R	Solid	11/17/23 00:00	11/17/23 13:35
890-5661-19	S-9 0-1	Solid	11/17/23 00:00	11/17/23 13:35
890-5661-20	S-9 2	Solid	11/17/23 00:00	11/17/23 13:35
890-5661-21	S-9 3R	Solid	11/17/23 00:00	11/17/23 13:35
890-5661-22	S-10 0-1	Solid	11/17/23 00:00	11/17/23 13:35
890-5661-23	S-10 2	Solid	11/17/23 00:00	11/17/23 13:35
890-5661-24	S-10 3R	Solid	11/17/23 00:00	11/17/23 13:35
890-5661-25	S-11 0-1	Solid	11/17/23 00:00	11/17/23 13:35
890-5661-26	S-11 2R	Solid	11/17/23 00:00	11/17/23 13:35
890-5661-27	S-12 0-1	Solid	11/17/23 00:00	11/17/23 13:35
890-5661-28	S-12 2R	Solid	11/17/23 00:00	11/17/23 13:35
890-5661-29	S-13 0-1	Solid	11/17/23 00:00	11/17/23 13:35
890-5661-30	S-13 2	Solid	11/17/23 00:00	11/17/23 13:35
890-5661-31	S-13 3R	Solid	11/17/23 00:00	11/17/23 13:35
890-5661-32	S-14 0-1	Solid	11/17/23 00:00	11/17/23 13:35
890-5661-33	S-14 2R	Solid	11/17/23 00:00	11/17/23 13:35
890-5661-34	S-15 0-1	Solid	11/17/23 00:00	11/17/23 13:35
890-5661-35	S-15 2R	Solid	11/17/23 00:00	11/17/23 13:35
890-5661-36	H-1 0-1	Solid	11/17/23 00:00	11/17/23 13:35
890-5661-37	H-2 0-1	Solid	11/17/23 00:00	11/17/23 13:35
890-5661-38	H-3 0-1	Solid	11/17/23 00:00	11/17/23 13:35
890-5661-39	H-4 0-1	Solid	11/17/23 00:00	11/17/23 13:35
890-5661-40	H-5 0-1	Solid	11/17/23 00:00	11/17/23 13:35
890-5661-41	H-6 0-1	Solid	11/17/23 00:00	11/17/23 13:35
890-5661-42	H-7 0-1	Solid	11/17/23 00:00	11/17/23 13:35
890-5661-43	H-8 0-1	Solid	11/17/23 00:00	11/17/23 13:35
890-5661-44	H-9 0-1	Solid	11/17/23 00:00	11/17/23 13:35
890-5661-45	H-10 0-1	Solid	11/17/23 00:00	11/17/23 13:35
890-5661-46	H-11 0-1	Solid	11/17/23 00:00	11/17/23 13:35

Chain of Custody

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



Environment Testing
Xenco

Work Order No:

www.xenco.com Page 1 of 5

Project Manager:	M. COLLIER	Bill to: (if different)	CACI LULU-
Company Name:	H4R ENTERPRISES	Company Name:	CETERA ENERGY
Address:		Address:	
City, State ZIP:		City, State ZIP:	
Phone:	575 909 0324	Email:	MCOLLIER@H4R-ENTERPRISES

Project Name:		GADWALL FED GOV (GADWALL)		Turn Around		Pres. Code		ANALYSIS REQUEST		Preservative Codes	
Project Number:				☒ Routine ☐ Rush						None: NO DI Water: H ₂ O	
Project Location:		EDDY COUNTY, NM		Due Date:						Cool: Cool MeOH: Me	
Sampler's Name:		R. BELL		TAT starts the day received by the lab, if received by 4:30pm						HCL: HC HNO ₃ : HN	
PO #:										H ₂ SO ₄ : H ₂	
SAMPLE RECEIPT		Temp Blank: ☒ Yes ☒ No		Wet Ice: ☒ Yes ☒ No						H ₃ PO ₄ : HP	
Samples Received Intact:		☒ Yes ☒ No		Thermometer ID:		914007				NaHSO ₄ : NABIS	
Cooler Custody Seals:		☒ Yes ☒ No		Correction Factor:		0.2				Na ₂ S ₂ O ₅ : NaSO ₃	
Sample Custody Seals:		☒ Yes ☒ No		Temperature Reading:		1.2				Zn Acetate+NaOH: Zn	
Total Containers:				Corrected Temperature:		1.2				NaOH+Ascorbic Acid: SACP	

Sample Identification		Date Sampled		Time Sampled		Depth		Grab/Comp		# of Cont		Sample Comments	
S-1 0-1'		5/16		11-17-23		0-1'		6-14-23		1		X	
S-1 2'						2'							
S-1 3'						3'							
S-1 4'						4'							
S-2 0-1'						0-1'							
S-2 2'R						2'R							
S-3 0-1'R						0-1'R							
S-4 0-1'R						0-1'R							
S-5 0-1'						0-1'							
S-5 2'R						2'R							

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

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
<i>[Signature]</i>	<i>[Signature]</i>	11/17 12:35
3	4	
5	6	

Revised Date 08/25/2020 Rev. 2020.2

Chain of Custody

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

Environment Testing

Xenco



Work Order No: _____

www.xenco.com Page 2 of 5

Work Order Comments

Program: ☐ UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐

State of Project: ☐ Level I ☐ Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐

Reporting: ☐ Level I ☐ Level II ☐ Level III ☐ TRRP ☐ Level IV ☐

Deliverables: ☐ EDD ☐ ADAPT ☐ Other: _____

Project Manager: _____

Company Name: _____

Address: _____

City, State ZIP: _____

Phone: _____

Bill to: (if different) _____

Company Name: _____

Address: _____

City, State ZIP: _____

Email: _____

Project Name: _____

Project Number: _____

Project Location: _____

Sampler's Name: _____

PO #: _____

Turn Around: ☐ Routine ☐ Rush

Due Date: _____

TAT starts the day received by the lab, if received by 4:30pm

Temp Blank: Yes ☐ No ☒

Thermometer ID: _____

Correction Factor: _____

Temperature Reading: _____

Corrected Temperature: _____

Parameters: _____

Pres. Code: _____

Preservative Codes: _____

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Sample Comments
S-6 C-1'	SLIL	11-17-23		0-1'	GRAB	1	
S-6 2'				2'			
S-6 3'R				3'R			
S-7 C-1'				0-1'			
S-7 2'R				2'R			
S-8 C-1'				0-1'			
S-8 2'				2'			
S-8 3'R				3'R			
S-9 C-1'				0-1'			
S-9 2'				2'			

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn

(Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<i>[Signature]</i>	<i>[Signature]</i>	11/17 12:35			

Revised Date: 08/25/2020 Rev. 2020.2

Chain of Custody

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



Environment Testing

Xenco

Work Order No:

www.xenco.com Page 3 of 5

Project Manager: _____
 Company Name: _____
 Address: _____
 City, State ZIP: _____
 Phone: _____

Bill to: (if different)
 Company Name: _____
 Address: _____
 City, State ZIP: _____
 Email: _____

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

Temp Blank: Yes No
 Thermometer ID: _____
 Cooler Custody Seals: Yes No N/A
 Sample Custody Seals: Yes No N/A
 Total Containers: _____

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

Sample Identification		Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Parameters	Pres. Code	ANALYSIS REQUEST										Preservative Codes
S-9	3'R	SOIL	11-17-23		3'R	Grab	1	CHLORIDES									None: NO			
S-10	0-1'				0-1'												Cool: Cool			
S-10	2'				2'												HCL: HC			
S-10	3'R				3'R												HNO ₃ : HN			
S-11	0-1'				0-1'												H ₂ SO ₄ : H ₂			
S-11	2'R				2'R												H ₃ PO ₄ : HP			
S-12	0-1'				0-1'												NaHSO ₄ : NABIS			
S-12	2'R				2'R												Na ₂ S ₂ O ₅ : NaSO ₃			
S-13	0-1'				0-1'												Zn Acetate+NaOH: Zn			
S-13	2'				2'												NaOH+Ascorbic Acid: SACP			
Sample Comments																				

Total 2007 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn
 Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

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

Revised Date: 08/25/2020 Rev. 20202

Chain of Custody



Environment Testing
Xenco

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 4 of 5

Project Manager:	Bill to: (if different)	Work Order Comments	
Company Name:	Company Name:	Program: ☐ UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐	
Address:	Address:	State of Project:	
City, State ZIP:	City, State ZIP:	Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐	
Phone:	Email:	Deliverables: EDD ☐ ADaPT ☐ Other:	

SAMPLE RECEIPT		Turn Around		Parameters		ANALYSIS REQUEST												Preservative Codes	
Project Name:	Project Number:	Temp Blank:	Yes	No	Wet Ice:	Yes	No	Due Date:	TAT starts the day received by the lab, if received by 4:30pm	Grab/Comp	Depth	Time Sampled	Date Sampled	Matrix	Sample Identification	Sample Comments			
S-13 3'R		Yes	No							3'R	3'R	11-17-23	11-17-23	SLC					
S-14 0-1'		Yes	No							0-1'	0-1'								
S-14 2'R		Yes	No							2'R	2'R								
S-15 0-1'		Yes	No							0-1'	0-1'								
S-15 2'R		Yes	No							2'R	2'R								
H-1 0-1'		Yes	No							0-1'	0-1'								
H-2 0-1'		Yes	No							0-1'	0-1'								
H-3 0-1'		Yes	No							0-1'	0-1'								
H-4 0-1'		Yes	No							0-1'	0-1'								
H-5 0-1'		Yes	No							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 SiO₂ Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<i>[Signature]</i>	<i>[Signature]</i>	10/17 13:35			

Revised Date: 08/25/2020 Rev. 3002

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) 794-1256
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Environment Testing
Xenco



Work Order No: _____

www.xenco.com Page 5 of 5

Project Manager: _____
Company Name: _____
Address: _____
City, State ZIP: _____
Phone: _____

Bill to: (if different)
Company Name: _____
Address: _____
City, State ZIP: _____
Email: _____

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: _____
Project Number: _____
Project Location: _____
Sampler's Name: _____
P.O. #: _____

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

Temp Blank: Yes ☐ No ☒
Thermometer ID: _____
Cooler Custody Seals: Yes ☐ No ☒
Sample Custody Seals: Yes ☐ No ☒
Total Containers: _____

ANALYSIS REQUEST										Preservative Codes	
										None: NO	DI Water: H ₂ O
										Cool: Cool	MeOH: Me
										HCL: HC	HNO ₃ : HN
										H ₂ SO ₄ : H ₂	NaOH: Na
										H ₃ PO ₄ : HP	
										NaHSO ₄ : NABIS	
										Na ₂ S ₂ O ₃ : NaSO ₃	
										Zn Acetate+NaOH: Zn	
										NaOH+Ascorbic Acid: SAPC	
										Sample Comments	

Login Sample Receipt Checklist

Client: H & R Enterprises

Job Number: 890-5661-1

SDG Number: Eddy County NM

Login Number: 5661**List Number: 1****Creator: Lopez, Abraham****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: 890-5661-1
SDG Number: Eddy County NM

Login Number: 5661

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

List Creation: 11/21/23 11:40 AM

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

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

Good morning Brittany,

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

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

Thanks!



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

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

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

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Ashton,

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

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

Thank you,

Brittany Hall ● Environmental Specialist

Environmental Bureau Projects Group

EMNRD - Oil Conservation Division

1000 Rio Brazos Road | Aztec, NM 87110

505.517.5333 | Brittany.Hall@emnrd.nm.gov

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

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

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

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

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

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

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

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Good morning Brittany,

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

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

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

nAB1518141553 - DaVinci 7 Federal Com #003H

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

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

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

Thanks!!



Ashton Thielke | PBU - Environmental Consultant

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

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

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Ashton Thielke

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

Follow Up Flag: Follow up
Flag Status: Flagged

Please see BLM's response below.

Laci Luig
(432) 208-3035

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

Good morning Laci,

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

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

Please let me know if there are any concerns.

José F. Martínez-Colón

Environmental Protection Specialist

Contact: 575-234-5951

Bureau of Land Management | Carlsbad Field Office

620 E. Greene St.

Carlsbad, NM 88220

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

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Jose,

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

Laci Luig
(432) 208-3035

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

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

Hi Laci,

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

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

API 3001540203
Lease: NMNM100332

Case: NMNM136150

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

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

Best,

José F. Martínez-Colón

Environmental Protection Specialist

Contact: 575-234-5951

Bureau of Land Management | Carlsbad Field Office

620 E. Greene St.

Carlsbad, NM 88220

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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

Action 299509

QUESTIONS

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd, Ste 300N Midland, TX 79706	OGRID: 162683
	Action Number: 299509
	Action Type: [C-141] Revegetation Report C-141 (C-141-v-Revegetation)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAB1518055632
Incident Name	NAB1518055632 GADWALL 18 FEDERAL COM #002H @ 30-015-39141
Incident Type	Produced Water Release
Incident Status	Re-vegetation Report Received
Incident Well	[30-015-39141] GADWALL 18 FEDERAL COM #002H

Location of Release Source	
<i>Please answer all the questions in this group.</i>	
Site Name	Gadwall 18 Federal Com #002H
Date Release Discovered	06/21/2015
Surface Owner	Federal

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

Nature and Volume of Release	
<i>Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.</i>	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Equipment Failure Flow Line - Production Produced Water Released: 15 BBL Recovered: 0 BBL Lost: 15 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 299509

QUESTIONS (continued)

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd, Ste 300N Midland, TX 79706	OGRID:	162683
	Action Number:	299509
	Action Type:	[C-141] Revegetation Report C-141 (C-141-v-Revegetation)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No
Reasons why this would be considered a submission for a notification of a major release	<i>Unavailable.</i>
<i>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.</i>	

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	<i>Not answered.</i>

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, Page 3

Action 299509

QUESTIONS (continued)

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd, Ste 300N Midland, TX 79706	OGRID: 162683
	Action Number: 299509
	Action Type: [C-141] Revegetation Report C-141 (C-141-v-Revegetation)

QUESTIONS**Site Characterization**

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Less than or equal 25 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between ½ and 1 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Zero feet, overlying, or within area
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	Zero feet, overlying, or within area
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan

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

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

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

Chloride	(EPA 300.0 or SM4500 Cl B)	2840
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	420
GRO+DRO	(EPA SW-846 Method 8015M)	420
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, Page 4

Action 299509

QUESTIONS (continued)

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd, Ste 300N Midland, TX 79706	OGRID:	162683
	Action Number:	299509
	Action Type:	[C-141] Revegetation Report C-141 (C-141-v-Revegetation)

QUESTIONS

Remediation Plan (continued)	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	<i>Not answered.</i>
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	<i>Not answered.</i>
(In Situ) Soil Vapor Extraction	<i>Not answered.</i>
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	<i>Not answered.</i>
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	<i>Not answered.</i>
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	<i>Not answered.</i>
Ground Water Abatement pursuant to 19.15.30 NMAC	<i>Not answered.</i>
OTHER (Non-listed remedial process)	<i>Yes</i>
Other Non-listed Remedial Process. Please specify	<i>None, resampled the area recently and no need for remediation.</i>
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Laci Luig Title: ES&H Specialist Email: DL_PermianEnvironmental@coterra.com Date: 01/03/2024
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 5

Action 299509

QUESTIONS (continued)

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd, Ste 300N Midland, TX 79706	OGRID: 162683
	Action Number: 299509
	Action Type: [C-141] Revegetation Report C-141 (C-141-v-Revegetation)

QUESTIONS

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

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QUESTIONS, Page 6

Action 299509

QUESTIONS (continued)

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd, Ste 300N Midland, TX 79706	OGRID:
	162683
	Action Number: 299509
Action Type: [C-141] Revegetation Report C-141 (C-141-v-Revegetation)	

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	299505
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	21
What was the sampling surface area in square feet	4200

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)	Did not remediate, nothing to remediate. See recent lab data and closure report.

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
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QUESTIONS, Page 7

Action 299509

QUESTIONS (continued)

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd, Ste 300N Midland, TX 79706	OGRID:	162683
	Action Number:	299509
	Action Type:	[C-141] Revegetation Report C-141 (C-141-v-Revegetation)

QUESTIONS**Reclamation Report**

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

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

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

Is the soil top layer complete and is it suitable material to establish vegetation	Yes
On what (estimated) date will (or was) the reseeding commence(d)	01/01/2023

Summarize any additional reclamation activities not included by answers (above)	No additional reclamation, regrowth has occurred over the years since this 2015 release.
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The responsible party must attach information demonstrating they have complied with all applicable reclamation requirements and any conditions or directives of the OCD. This demonstration should be in the form of attachments (in .pdf format) including a scaled site map, any proposed reseeding plans or relevant field notes, photographs of reclaimed area, and a narrative of the reclamation activities. Refer to 19.15.29.13 NMAC.

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

I hereby agree and sign off to the above statement	Name: Laci Luig Title: ES&H Specialist Email: DL_PermianEnvironmental@coterra.com Date: 01/03/2024
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QUESTIONS, Page 8

Action 299509

QUESTIONS (continued)

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd, Ste 300N Midland, TX 79706	OGRID: 162683
	Action Number: 299509
	Action Type: [C-141] Revegetation Report C-141 (C-141-v-Revegetation)

QUESTIONS

Revegetation Report	
<i>Only answer the questions in this group if all surface restoration, reclamation and re-vegetation obligations have been satisfied.</i>	
Requesting a restoration complete approval with this submission	Yes
What was the total revegetation surface area (in square feet) for this site	0
<i>Per Paragraph (2) of Subsection D of 19.15.29.13 NMAC the responsible party must reseed disturbed area in the first favorable growing season following closure of the site.</i>	
On what date did the reseeded commence	01/01/2023
On what date was the vegetative cover inspected	11/27/2023
What was the life form ratio compared to pre-disturbance levels	80
What was the total percent plant cover compared to pre-disturbance levels	80
Summarize any additional revegetation activities not included by answers (above)	No additional revegetation. Plant growth inspected during site assessment. Grasses and plants are present
<i>The responsible party must attach information demonstrating they have complied with all applicable re-vegetation requirements and any conditions or directives of the OCD. This demonstration should be in the form of attachments (in .pdf format) including a scaled site map, any life form ratio and percent plant cover sampling diagrams or other relevant field notes, photographs of re-vegetated areas, and a narrative of the re-vegetation activities. Refer to 19.15.29.13 NMAC.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.	
I hereby agree and sign off to the above statement	Name: Laci Luig Title: ES&H Specialist Email: DL_PermianEnvironmental@coterra.com Date: 01/03/2024
<i>Per Paragraph (4) of Subsection (D) of 19.15.29.13 NMAC for any major or minor release containing liquids, the responsible party must notify the division when reclamation and re-vegetation are complete.</i>	

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CONDITIONS

Action 299509

CONDITIONS

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd, Ste 300N Midland, TX 79706	OGRID: 162683
	Action Number: 299509
	Action Type: [C-141] Revegetation Report C-141 (C-141-v-Revegetation)

CONDITIONS

Created By	Condition	Condition Date
bhall	The revegetation report has been approved pursuant to 19.15.29.13 E. NMAC. The acceptance of this report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment; or if the location fails to revegetate properly. In addition, OCD approval does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.	3/7/2024