

Incident ID	nAPP2212419463
District RP	
Facility ID	fAPP2201748223
Application ID	

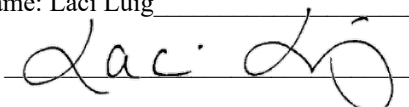
## Closure

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: Laci Luig \_\_\_\_\_ Title: ESH Specialist \_\_\_\_\_  
Signature:  \_\_\_\_\_ Date: 6/20/2022 \_\_\_\_\_  
email: laci.luig@coterra.com \_\_\_\_\_ Telephone: (432) 208-3035 \_\_\_\_\_

**OCD Only**

Received by: Robert Hamlet \_\_\_\_\_ Date: 11/3/2022 \_\_\_\_\_

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: Robert Hamlet \_\_\_\_\_ Date: 11/3/2022 \_\_\_\_\_  
Printed Name: Robert Hamlet \_\_\_\_\_ Title: Environmental Specialist - Advanced \_\_\_\_\_



[MCollier@H-R\\_Enterprises.com](mailto:MCollier@H-R_Enterprises.com) 575-909-0326

## **Remediation and Closure Report**

Gadwall 18 Federal Com #002H  
API# 30-015-39141  
Incident# nAPP2212419463  
Eddy County, New Mexico

### **Prepared For:**

Cimarex Energy Co. of Colorado  
600 Marienfeld St.  
Midland, TX 79701

### **Prepared By:**

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

**June 20, 2022**

Mrs. Jennifer Nobui  
**New Mexico Oil Conservation Division**  
1220 S. St. Francis Drive  
Santa Fe, NM 87505

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

Dear Mrs. Nobui,

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

### **Site Information**

The Gadwall 18 Federal Com #002H is located approximately 13.3 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 32.1368141 North and -104.2304764 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, Reagan being 0 to 3 percent slopes and Upton being 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.

<b>Approximate Depth to Groundwater</b>	<b>14 Feet/BGS</b>
---	--------------------

<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Within 300 feet of any continuously flowing watercourse or any other significant watercourse
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Within 200 feet of any lakebed, sinkhole, or a playa lake
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Within 300 feet from an occupied permanent residence, school, hospital, institution, or church
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> 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
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Within 1000 feet of any freshwater well or spring
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> 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
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Within 300 feet of a wetland
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Within the area overlying a subsurface mine
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Within an unstable area
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Within a 100-year floodplain

As this is a remediation in a high karst potential 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, Site Assessment, and Remediation Activities

On May 04, 2022, a well service unit was rigged up on the well pad when it was discovered that a valve on the reverse unit was left cracked open resulting in the release of 11.25 barrels (bbls) of 10lb. brine water onto the ground on location. 2 bbls were recovered by way of vacuum truck. On June 06, 2022, H&R mobilized personnel to begin site assessment, sampling, and remediation activities of the location. Assessment samples were obtained by way of test trenching 4 delineation trenches within the spill area. Field chloride titrations were performed as well as lab analysis and the lab results are presented in the following data table. Initial site assessment delineation trench locations are illustrated on Delineation Trench Map, [Appendix I](#). After delineation and excavation was complete, 4 composite confirmation samples were collected from the bottom and sidewalls of the excavation and sent to Cardinal Laboratory to confirm NMOCD closure criteria had been met. Before, during, and after photographs of the location are attached in [Appendix IV](#). Complete laboratory reports can be found in [Appendix V](#).

Table 1: Delineation Trench Soil Samples Analysis

Sample ID	Sample Date	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg
NMOCD Table 1 Closure Criteria 19.15.29 NMAC			50 mg/kg	10 mg/kg	100 mg/kg			100 mg/kg	600 mg/kg
DT-1	6/12/2022	0-1'	ND	ND	ND	ND	ND	0	7120
		2'	ND	ND	ND	ND	ND	0	416
		3'	ND	ND	ND	ND	ND	0	160
		4'	ND	ND	ND	ND	ND	0	112
DT-2	6/12/2022	0-1'	ND	ND	ND	13.6	ND	13.6	36000
		2'	ND	ND	ND	ND	ND	0	6400
		3'	ND	ND	ND	ND	ND	0	1840
		4'	ND	ND	ND	ND	ND	0	1280
		6'	ND	ND	ND	ND	ND	0	384
DT-3	6/12/2022	0-1'	ND	ND	ND	ND	ND	0	10200
		2'	ND	ND	ND	ND	ND	0	8260
		3'	ND	ND	ND	ND	ND	0	2880
		4'	ND	ND	ND	ND	ND	0	2560
		6'	ND	ND	ND	ND	ND	0	3600
		8'	ND	ND	ND	ND	ND	0	3080
		10'	ND	ND	ND	ND	ND	0	2080
		12'	ND	ND	ND	ND	ND	0	992
DT-4	6/12/2022	0-1'	ND	ND	ND	57.4	36.6	94	15200
		2'	ND	ND	ND	ND	ND	0	3360
		3'	ND	ND	ND	ND	ND	0	448
		4'	ND	ND	ND	ND	ND	0	1060
		6'	ND	ND	ND	ND	ND	0	240
ND = Analyte Not Detected DT = Delineation Trench									

Based on the results of our site assessment and upon client authorization, further excavation activities of the spill area. Confirmation samples were collected to confirm that NMOCD closure criteria had been met, the results of which can be found in the following data table. Confirmation sample locations and excavation dimensions can be found on Confirmation Sample Map in [Appendix I](#). Complete laboratory reports are attached in [Appendix V](#).

Table 2: Confirmation Soil Sample Analysis

Sample ID	Sample Date	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg
NMOCD Table 1 Closure Criteria 19.15.29 NMAC			50 mg/kg	10 mg/kg	100 mg/kg			100 mg/kg	600 mg/kg
S-1	6/13/2022	2'	ND	ND	ND	ND	ND	0	400
S-2	6/13/2022	2'	ND	ND	ND	ND	ND	0	400
S-3	6/13/2022	4'	ND	ND	ND	12.8	ND	12.8	560
S-4	6/13/2022	6'	ND	ND	ND	ND	ND	0	560
S-5	6/13/2022	6'	ND	ND	ND	14	ND	14	1010
	6/16/2022	7'	0.063	ND	ND	ND	ND	0	80
S-6	6/13/2022	13'	ND	ND	ND	ND	ND	0	240
S-7	6/13/2022	6'	ND	ND	ND	10.5	ND	10.5	880
	6/16/2022	7'	ND	ND	ND	ND	ND	0	256
S-8	6/13/2022	6'	ND	ND	ND	ND	ND	0	64
S-9	6/13/2022	6'	ND	ND	ND	ND	ND	0	64
S-10	6/13/2022	6'	ND	ND	ND	ND	ND	0	32
SW-1	6/13/2022	2'	ND	ND	ND	ND	ND	0	176
SW-2	6/13/2022	2'	ND	ND	ND	ND	ND	0	208
SW-3	6/13/2022	2'	ND	ND	ND	ND	ND	0	96
SW-4	6/13/2022	4-6'	ND	ND	ND	ND	ND	0	240
SW-5	6/13/2022	4-6'	ND	ND	ND	ND	ND	0	224
SW-6	6/13/2022	6'	ND	ND	ND	ND	ND	0	240
SW-7	6/13/2022	6'	ND	ND	ND	ND	ND	0	240
SW-8	6/13/2022	13'	ND	ND	ND	ND	ND	0	160
SW-9	6/13/2022	13'	ND	ND	ND	ND	ND	0	224
SW-10	6/13/2022	6'	ND	ND	ND	ND	ND	0	176
SW-11	6/13/2022	6'	ND	ND	ND	ND	ND	0	208
SW-12	6/13/2022	6'	ND	ND	ND	ND	ND	0	192
SW-13	6/13/2022	6'	ND	ND	ND	ND	ND	0	144
SW-14	6/13/2022	6'	ND	ND	ND	ND	ND	0	96
BG-1	6/13/2022	0-1'	ND	ND	ND	ND	ND	0	32
BG-2	6/13/2022	0-1'	ND	ND	ND	ND	ND	0	32
BG-3	6/13/2022	0-1'	ND	ND	ND	ND	ND	0	32
BG-4	6/13/2022	0-1'	ND	ND	ND	ND	ND	0	16

ND = Analyte Not Detected SW = Sidewall BG = Background

## Remedial Actions

- The impacted areas in the vicinity of sample points S-1 and S-2 were excavated to a total depth of 2-feet BGS.
- The area near sample point S-3 was excavated to 4-feet BGS.
- The areas near S-4 and S-8 through S-10 were excavated to 6-feet BGS.
- The areas near S-5 and S-7 were excavated to 7-feet BGS.
- The area near S-6, (approximately 10' x 15') was excavated to 13-feet BGS due to a pocket of contamination found during delineation trenching.
- Composite confirmation samples were obtained every 200sqft. from the sidewalls and bottoms of the excavated area to verify that all contaminants above closure criteria had been removed.
- All the excavated material (512yds) was hauled to Lea Land, a NMOCD approved solid waste disposal facility.
- The excavated areas on the well pad were backfilled with new caliche at depth and brought to grade, machine compacted and contoured to match the surrounding location.
- The Final C-141 formally documenting the remedial actions is attached in [Appendix III](#).



## Closure

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

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

Respectfully submitted,

H&R Enterprises, LLC



Michael Collier  
Environmental Project Manager

### Attachments:

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

# **APPENDIX I**

## **SITE MAPS**

### **KARST MAP**

### **TOPOGRAPHIC MAP**



### **LOCATOR MAP**



# Gadwall 18 Federal Com #002H

Cimarex Energy Co. of Colorado  
AP# 30-015-39141  
Incident# nAPP2212419463  
Eddy County, NM  
Delineation Trench Map

## Legend

-  Delineation Trench
-  Spill Area



90 ft

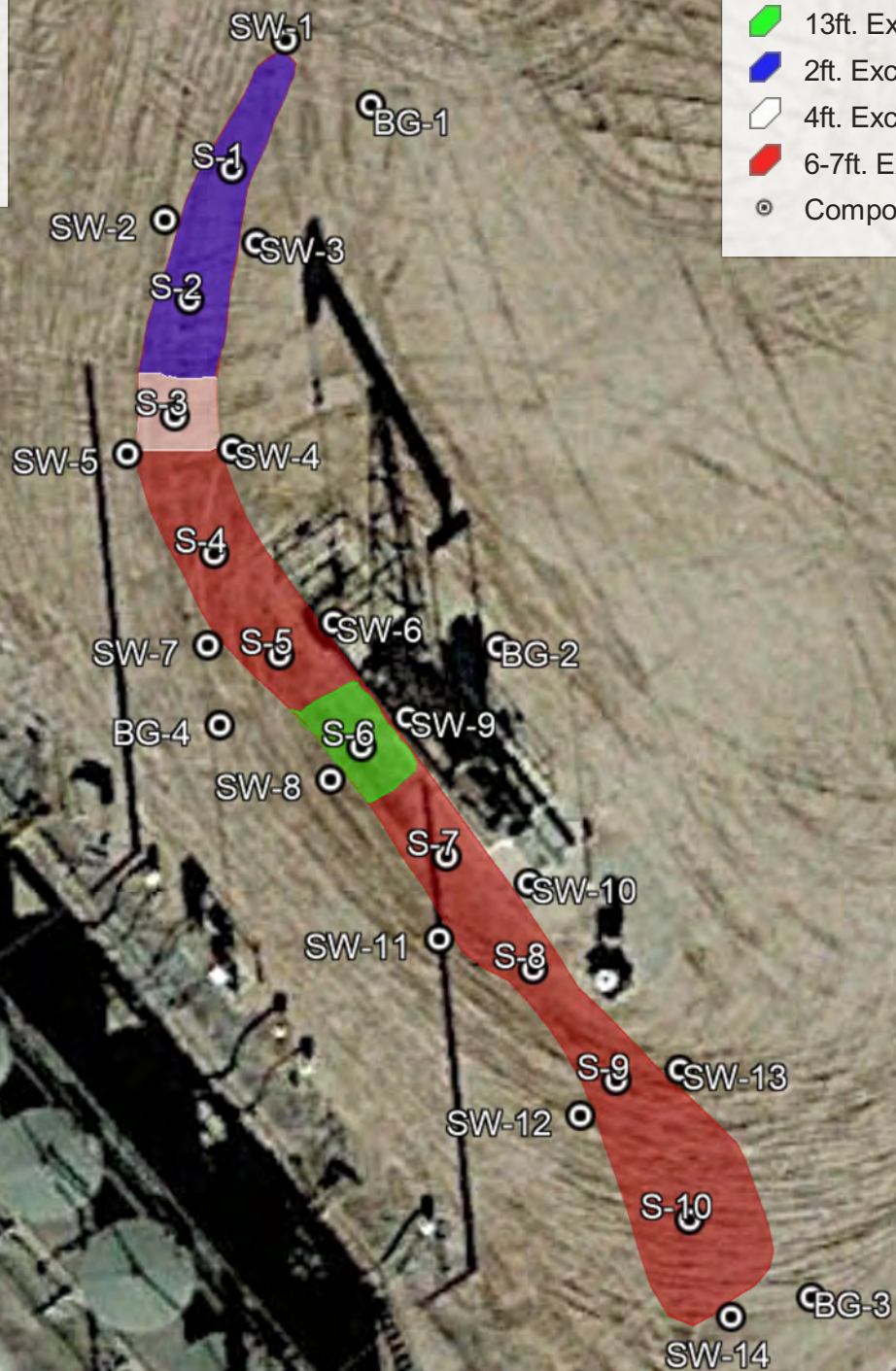


# Gadwall 18 Federal Com #002H

Cimarex Energy Co. of Colorado  
AP# 30-015-39141  
Incident# nAPP2212419463  
Eddy County, NM  
Confirmation Sample Map

## Legend

- 13ft. Excavation
- 2ft. Excavation
- 4ft. Excavation
- 6-7ft. Excavation
- Composite Confirmation Sample







90 ft



# Gadwall 18 Federal #002H

Cimarex Energy Co. of Colorado  
AP# 30-015-39141  
Eddy County, NM  
Karst Map

## Legend

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

Gadwall 18 Federal #002



748




1 mi

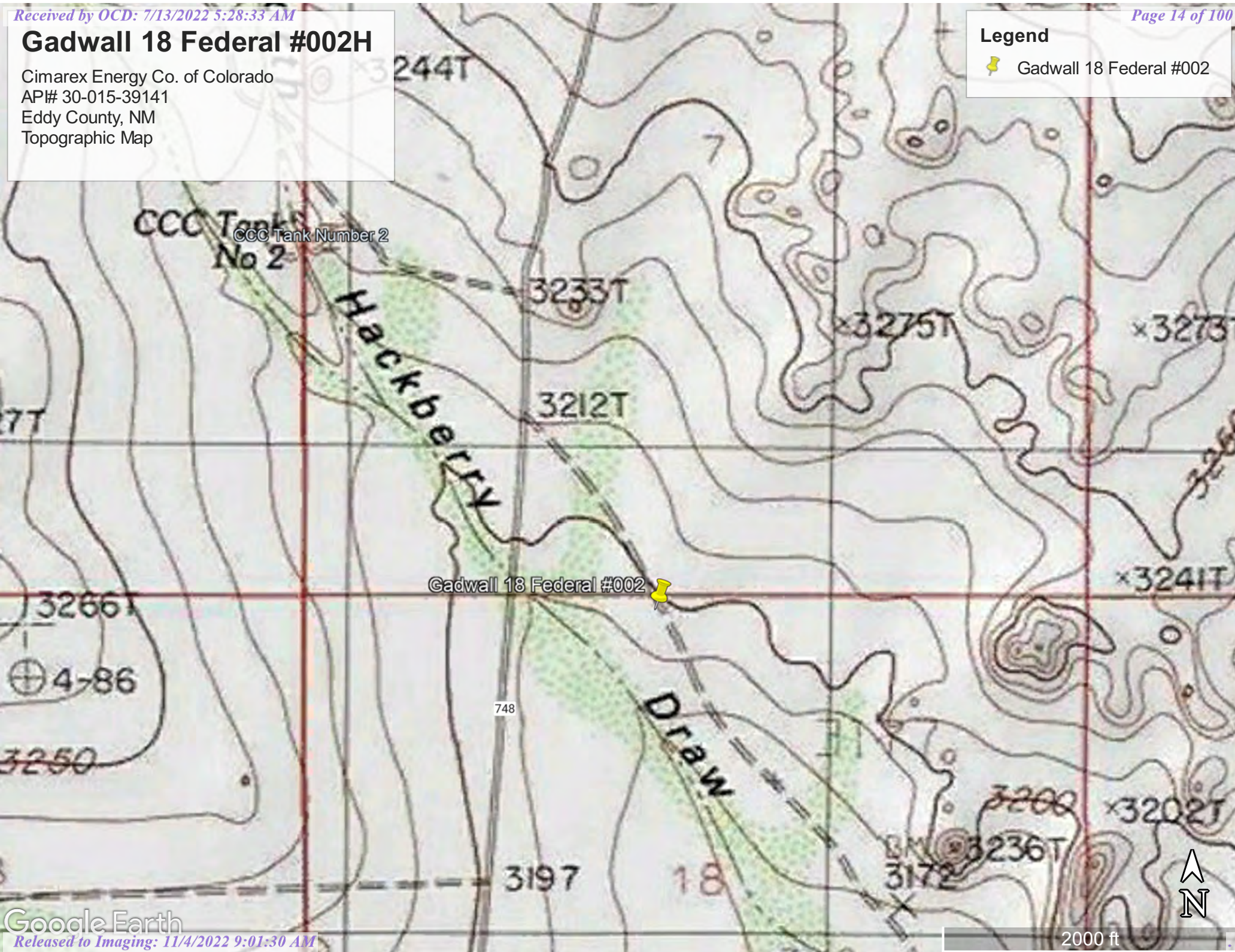


# Gadwall 18 Federal #002H

Cimarex Energy Co. of Colorado  
AP# 30-015-39141  
Eddy County, NM  
Topographic Map

## Legend

 Gadwall 18 Federal #002




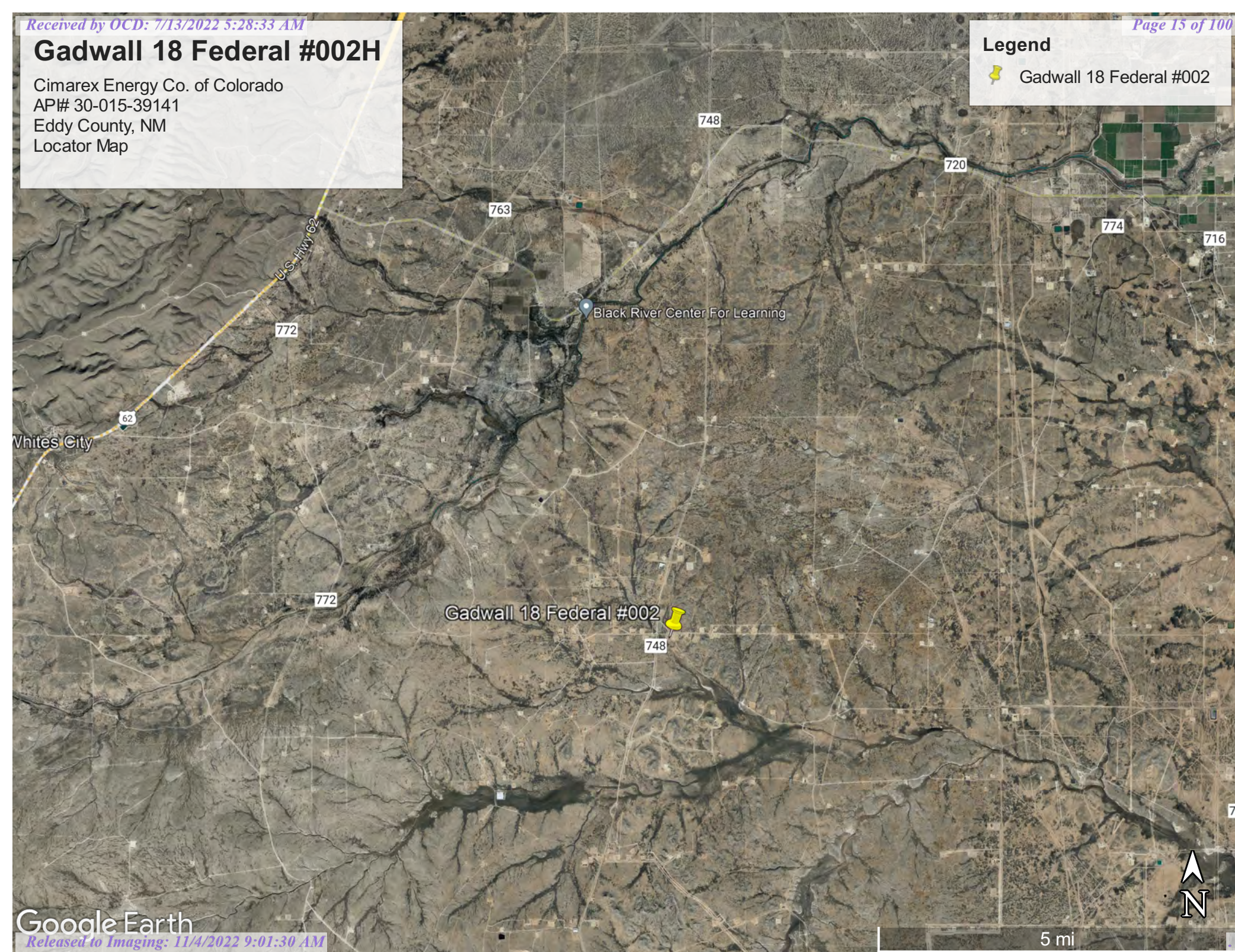


# Gadwall 18 Federal #002H

Cimarex Energy Co. of Colorado  
AP# 30-015-39141  
Eddy County, NM  
Locator Map

## Legend

 Gadwall 18 Federal #002





## **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
<a href="#">C_03261 POD1</a>		CUB	ED	3	2	1	20	25S	27E	574007	3554006*	2340	351		
<a href="#">C_03654 POD1</a>		CUB	ED	2	3	1	24	25S	26E	570654	3553773	2838			
<a href="#">C_03569 POD1</a>		CUB	ED	2	1	1	14	25S	26E	568862	3555746	3718	30	0	30
<a href="#">C_02221</a>		CUB	ED	4	3	2	25	25S	26E	571412	3551961*	4069	35		
<a href="#">C_01013</a>		C	ED			4	25	25S	26E	571505	3551456*	4532	245		
<a href="#">C_02220</a>		CUB	ED	3	1	2	26	25S	26E	569598	3552352*	4603	35		
<a href="#">C_03655 POD3</a>		CUB	ED	1	4	4	22	25S	26E	568458	3553019	5004			
<a href="#">C_04329 POD1</a>		C	ED	2	2	2	27	25S	26E	568577	3552567	5182	57	14	43
<a href="#">C_03262 POD1</a>		CUB	ED	2	1	2	22	25S	27E	577837	3554244*	5501	75		
<a href="#">C_03200 POD1</a>		C	ED	2	3	4	34	24S	26E	568206	3559349	5594	80	52	28
<a href="#">C_01368</a>		C	ED		1	1	22	25S	26E	567261	3554059*	5614	143	118	25
<a href="#">C_01089</a>		C	ED	3	4	1	03	25S	26E	567505	3558398*	5672	96	45	51
<a href="#">C_00819</a>		C	ED		4	4	26	24S	26E	570022	3560935*	5682	62	42	20
<a href="#">C_04586 POD1</a>		C	ED	4	1	1	35	24S	26E	568993	3560476	5844	150		
<a href="#">C_01841</a>		C	ED			1	29	24S	27E	573806	3561953*	6215	150		
<a href="#">C_04078 POD1</a>		CUB	ED	3	4	1	33	25S	27E	575667	3550363	6304	157	20	137
<a href="#">C_04079 POD1</a>		CUB	ED	1	2	3	33	25S	27E	575658	3550092	6538	226	20	206
<a href="#">C_02675</a>		C	ED	1	4	1	09	25S	26E	565907	3556978*	6764	180	45	135
<a href="#">C_00262 POD2</a>		C	ED	4	3	1	24	24S	26E	570234	3562337	6889	45	18	27
<a href="#">C_02588</a>		C	ED	3	4	3	33	25S	27E	575645	3549575*	6993	81	19	62
<a href="#">C_00690</a>		C	ED	1	3	3	24	24S	26E	570288	3562653*	7168	30	10	20
<a href="#">C_00792</a>		C	ED		4	2	27	24S	26E	568397	3561747*	7220	70	30	40
<a href="#">C_03526 POD1</a>		C	ED	1	4	4	23	24S	26E	569788	3562666	7356	200		
<a href="#">C_01869</a>	R	C	ED	2	3	4	23	24S	26E	569753	3562679	7382	110	30	80
<a href="#">C_01869 POD2</a>		C	ED	2	3	4	23	24S	26E	569753	3562679	7382	111	50	61
<a href="#">C_00883</a>		C	ED	3	2	4	23	24S	26E	569887	3562855*	7494	60	14	46
<a href="#">C_03264 POD1</a>		CUB	ED	2	1	2	02	25S	27E	579391	3559099*	7543			
<a href="#">C_00100 A</a>		CUB	ED	1	1	3	24	24S	26E	570284	3563053	7550	51	26	25
<a href="#">C_00949</a>		C	ED	1	1	3	24	24S	26E	570284	3563053*	7550	62	35	27
<a href="#">C_01616</a>		C	ED		2	4	23	24S	26E	569988	3562956*	7554	84	84	0

<a href="#">C_03110</a>	C	ED	4	1	4	23	24S	26E	569690	3562856*		7568	35	12	23
<a href="#">C_00262</a>	R	C	ED	4	3	1	24	24S	26E	570481	3563253*		7684	50	
<a href="#">C_00829</a>		C	ED		1	4	23	24S	26E	569591	3562957*		7700	50	19
<a href="#">C_00692</a>		C	ED	3	3	1	24	24S	26E	570281	3563253*		7741	50	42
<a href="#">C_03777 POD1</a>		C	ED	3	1	2	24	24S	26E	571120	3563571		7848	55	28
<a href="#">C_01085</a>		C	ED		4	2	23	24S	26E	569990	3563356*		7930	127	60

Average Depth to Water: **34 feet**Minimum Depth: **0 feet**Maximum Depth: **118 feet****Record Count:** 36**Basin/County Search:****County:** Eddy**UTMNAD83 Radius Search (in meters):****Easting (X):** 572578.43**Northing (Y):** 3555859.94**Radius:** 8000

\*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.

5/9/22 10:33 AM

WATER COLUMN/ AVERAGE DEPTH TO  
WATER

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

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## 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

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*Hydrologic Soil Group:* B  
*Ecological site:* R070DY153NM - 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:* R070DY159NM - Shallow Loamy  
*Hydric soil rating:* No

### Minor Components

#### Atoka

*Percent of map unit:* 3 percent  
*Ecological site:* R042XC007NM - Loamy  
*Hydric soil rating:* No

#### Pima

*Percent of map unit:* 2 percent  
*Ecological site:* R042XC017NM - 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 17, Sep 12, 2021

# National Flood Hazard Layer FIRMette



104°14'8"W 32°8'28"N



Released to Imaging: 11/4/2022 9:01:30 AM  
Basemap: USGS National Map: Orthoimagery: Data refreshed October, 2020

## 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 Cross Sections with 1% Annual Chance Water Surface Elevation
		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 5/9/2022 at 12:36 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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

# **APPENDIX III**

**INITIAL C-141**

**FINAL C-141**

**NMOCD CORRESPONDENCE**



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

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

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

Incident ID	nAPP2212419463
District RP	
Facility ID	fAPP2201748223
Application ID	

## Release Notification

### Responsible Party

Responsible Party: Cimarex Energy Co. of Colorado	OGRID: 162683
Contact Name: Laci Luig	Contact Telephone: (432) 571-7800
Contact email: laci.luig@coterra.com	Incident # (assigned by OCD) nAPP2212419463
Contact mailing address: 600 N Marienfeld Street, Ste. 600 Midland, TX 79701	

### Location of Release Source

Latitude 32.13681 \_\_\_\_\_ Longitude -104.23047 \_\_\_\_\_  
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Gadwall 18 Federal Com 2H	Site Type: Battery
Date Release Discovered: 5/3/2022	API# (if applicable)

Unit Letter	Section	Township	Range	County
C	18	25S	27E	Eddy

Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private (Name: \_\_\_\_\_)

### Nature and Volume of Release

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

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 11.25	Volume Recovered (bbls) 2
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release: Human Error

A well service unit was rigged up on the well pad and during the safety meeting a valve on the Reverse Unit was left cracked open. This inadvertent release resulted in 11.25 barrels of 10lb brine water being released on the ground on location. 2 barrels were recovered with a vacuum transport. We will begin the process of delineation and remediation when the well service operation is complete.

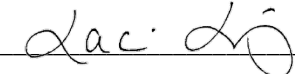


Incident ID	nAPP2212419463
District RP	
Facility ID	fAPP2201748223
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?  <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? By: Tell Montoya To: OCD Enviro, BLM By: Email	

### Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: Laci Luig	Title: ESH Specialist
Signature: 	Date: 5/4/2022
email: laci.luig@coterra.com	Telephone: (432) 208-3035
<b><u>OCD Only</u></b>	
Received by: Jocelyn Harimon	Date: 07/13/2022

Incident ID	nAPP2212419463
District RP	
Facility ID	fAPP2201748223
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?	<u>14</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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

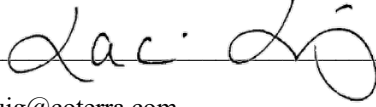
If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, 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	nAPP2212419463
District RP	
Facility ID	fAPP2201748223
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: Laci Luig \_\_\_\_\_ Title: ESH Specialist \_\_\_\_\_  
Signature:  \_\_\_\_\_ Date: 6/20/2022 \_\_\_\_\_  
email: laci.luig@coterra.com \_\_\_\_\_ Telephone: (432) 208-3035 \_\_\_\_\_

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

Incident ID	nAPP2212419463
District RP	
Facility ID	fAPP2201748223
Application ID	

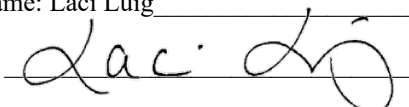
## Closure

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: Laci Luig \_\_\_\_\_ Title: ESH Specialist \_\_\_\_\_  
Signature:  \_\_\_\_\_ Date: 6/20/2022 \_\_\_\_\_  
email: laci.luig@coterra.com \_\_\_\_\_ Telephone: (432) 208-3035 \_\_\_\_\_

**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: \_\_\_\_\_

## Michael Collier

---

**From:** Laci Luig <Laci.Luig@coterra.com>  
**Sent:** Thursday, June 2, 2022 4:15 PM  
**To:** NMOCD Spill Notifications; BLM NM CFO Spill  
**Cc:** Jim Hawley; Michael Collier  
**Subject:** nAPP2212419463 - Gadwall 18 Federal sample notification

This email serves as notification for excavation and confirmation sampling on the Gadwall 18 Federal 2H. Sampling is scheduled to begin June 6<sup>th</sup>. H&R Enterprises will be onsite for field and confirmation sampling.

Thank you,



**Laci Luig** | Environmental Safety & Health Specialist  
T: 432.571.7810 | M: 432.208.3035 | [laci.luig@coterra.com](mailto:laci.luig@coterra.com) | [www.coterra.com](http://www.coterra.com)  
Coterra Energy Inc. | 600 N. Marienfeld Street, Suite 600 | Midland, TX 79701

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

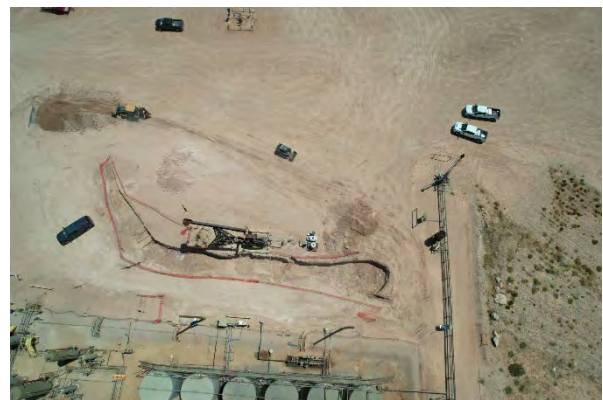
This message may contain confidential and/or privileged information. If you are not the addressee or authorized to receive this for the addressee, you must not use, copy, disclose or take any action based on this message or any information herein. If you have received this message in error, please advise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

## **APPENDIX IV**

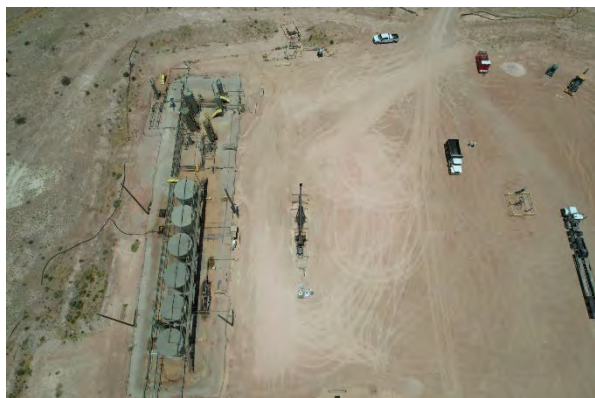
# **PHOTOGRAPHIC DOCUMENTATION**



PHOTOGRAPHIC DOCUMENTATION



PHOTOGRAPHIC DOCUMENTATION





# **APPENDIX V**

## **LABORATORY REPORTS**



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

June 16, 2022

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

RE: GADWALL 18 FED COM #002H ( GADWALL 18-2 )

Enclosed are the results of analyses for samples received by the laboratory on 06/13/22 16:01.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. 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](http://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:**

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

Received:	06/13/2022	Sampling Date:	06/12/2022
Reported:	06/16/2022	Sampling Type:	Soil
Project Name:	GADWALL 18 FED COM #002H ( GADWA	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: DT - 1 0-1' (H222523-01)**

BTX 8021B			mg/kg		Analyzed By: JH/				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/14/2022	ND	2.17	109	2.00	0.275	
Toluene*	<0.050	0.050	06/14/2022	ND	2.14	107	2.00	1.67	
Ethylbenzene*	<0.050	0.050	06/14/2022	ND	2.09	104	2.00	2.04	
Total Xylenes*	<0.150	0.150	06/14/2022	ND	6.48	108	6.00	2.20	
Total BTX	<0.300	0.300	06/14/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.5 % 69.9-140

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7120	16.0	06/14/2022	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	06/14/2022	ND	185	92.4	200	1.01	
DRO >C10-C28*	<10.0	10.0	06/14/2022	ND	192	95.9	200	5.70	
EXT DRO >C28-C36	<10.0	10.0	06/14/2022	ND					

Surrogate: 1-Chlorooctane 120 % 66.9-136

Surrogate: 1-Chlorooctadecane 123 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	06/13/2022	Sampling Date:	06/12/2022
Reported:	06/16/2022	Sampling Type:	Soil
Project Name:	GADWALL 18 FED COM #002H ( GADWA	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: DT - 1 2' (H222523-02)**

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/14/2022	ND	2.17	109	2.00	0.275		
Toluene*	<0.050	0.050	06/14/2022	ND	2.14	107	2.00	1.67		
Ethylbenzene*	<0.050	0.050	06/14/2022	ND	2.09	104	2.00	2.04		
Total Xylenes*	<0.150	0.150	06/14/2022	ND	6.48	108	6.00	2.20		
Total BTX	<0.300	0.300	06/14/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	416	16.0	06/14/2022	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	06/14/2022	ND	185	92.4	200	1.01	
DRO >C10-C28*	<10.0	10.0	06/14/2022	ND	192	95.9	200	5.70	
EXT DRO >C28-C36	<10.0	10.0	06/14/2022	ND					

Surrogate: 1-Chlorooctane 121 % 66.9-136

Surrogate: 1-Chlorooctadecane 124 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	06/13/2022	Sampling Date:	06/12/2022
Reported:	06/16/2022	Sampling Type:	Soil
Project Name:	GADWALL 18 FED COM #002H ( GADWA	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: DT - 1 3' (H22523-03)**

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/14/2022	ND	2.17	109	2.00	0.275		
Toluene*	<0.050	0.050	06/14/2022	ND	2.14	107	2.00	1.67		
Ethylbenzene*	<0.050	0.050	06/14/2022	ND	2.09	104	2.00	2.04		
Total Xylenes*	<0.150	0.150	06/14/2022	ND	6.48	108	6.00	2.20		
Total BTX	<0.300	0.300	06/14/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.9 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	06/14/2022	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	06/14/2022	ND	185	92.4	200	1.01	
DRO >C10-C28*	<10.0	10.0	06/14/2022	ND	192	95.9	200	5.70	
EXT DRO >C28-C36	<10.0	10.0	06/14/2022	ND					

Surrogate: 1-Chlorooctane 118 % 66.9-136

Surrogate: 1-Chlorooctadecane 122 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	06/13/2022	Sampling Date:	06/12/2022
Reported:	06/16/2022	Sampling Type:	Soil
Project Name:	GADWALL 18 FED COM #002H ( GADWA	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: DT - 1 4' (H22523-04)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/14/2022	ND	2.17	109	2.00	0.275		
Toluene*	<0.050	0.050	06/14/2022	ND	2.14	107	2.00	1.67		
Ethylbenzene*	<0.050	0.050	06/14/2022	ND	2.09	104	2.00	2.04		
Total Xylenes*	<0.150	0.150	06/14/2022	ND	6.48	108	6.00	2.20		
Total BTEx	<0.300	0.300	06/14/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.2 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	06/14/2022	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	06/14/2022	ND	185	92.4	200	1.01	
DRO >C10-C28*	<10.0	10.0	06/14/2022	ND	192	95.9	200	5.70	
EXT DRO >C28-C36	<10.0	10.0	06/14/2022	ND					

Surrogate: 1-Chlorooctane 116 % 66.9-136

Surrogate: 1-Chlorooctadecane 120 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	06/13/2022	Sampling Date:	06/12/2022
Reported:	06/16/2022	Sampling Type:	Soil
Project Name:	GADWALL 18 FED COM #002H ( GADWA	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: DT - 2 0-1' (H222523-05)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/14/2022	ND	2.17	109	2.00	0.275		
Toluene*	<0.050	0.050	06/14/2022	ND	2.14	107	2.00	1.67		
Ethylbenzene*	<0.050	0.050	06/14/2022	ND	2.09	104	2.00	2.04		
Total Xylenes*	<0.150	0.150	06/14/2022	ND	6.48	108	6.00	2.20		
Total BTEx	<0.300	0.300	06/14/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	36000	16.0	06/14/2022	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	06/14/2022	ND	185	92.4	200	1.01	
DRO >C10-C28*	13.6	10.0	06/14/2022	ND	192	95.9	200	5.70	
EXT DRO >C28-C36	<10.0	10.0	06/14/2022	ND					

Surrogate: 1-Chlorooctane 113 % 66.9-136

Surrogate: 1-Chlorooctadecane 118 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	06/13/2022	Sampling Date:	06/12/2022
Reported:	06/16/2022	Sampling Type:	Soil
Project Name:	GADWALL 18 FED COM #002H ( GADWA	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: DT - 2 2' (H222523-06)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/14/2022	ND	2.17	109	2.00	0.275		
Toluene*	<0.050	0.050	06/14/2022	ND	2.14	107	2.00	1.67		
Ethylbenzene*	<0.050	0.050	06/14/2022	ND	2.09	104	2.00	2.04		
Total Xylenes*	<0.150	0.150	06/14/2022	ND	6.48	108	6.00	2.20		
Total BTEX	<0.300	0.300	06/14/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6400	16.0	06/14/2022	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	06/14/2022	ND	185	92.4	200	1.01	
DRO >C10-C28*	<10.0	10.0	06/14/2022	ND	192	95.9	200	5.70	
EXT DRO >C28-C36	<10.0	10.0	06/14/2022	ND					

Surrogate: 1-Chlorooctane 121 % 66.9-136

Surrogate: 1-Chlorooctadecane 125 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received:	06/13/2022	Sampling Date:	06/12/2022
Reported:	06/16/2022	Sampling Type:	Soil
Project Name:	GADWALL 18 FED COM #002H ( GADWA	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: DT - 2 3' (H222523-07)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/14/2022	ND	2.17	109	2.00	0.275		
Toluene*	<0.050	0.050	06/14/2022	ND	2.14	107	2.00	1.67		
Ethylbenzene*	<0.050	0.050	06/14/2022	ND	2.09	104	2.00	2.04		
Total Xylenes*	<0.150	0.150	06/14/2022	ND	6.48	108	6.00	2.20		
Total BTEx	<0.300	0.300	06/14/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1840	16.0	06/14/2022	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	06/14/2022	ND	185	92.4	200	1.01	
DRO >C10-C28*	<10.0	10.0	06/14/2022	ND	192	95.9	200	5.70	
EXT DRO >C28-C36	<10.0	10.0	06/14/2022	ND					

Surrogate: 1-Chlorooctane 120 % 66.9-136

Surrogate: 1-Chlorooctadecane 125 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	06/13/2022	Sampling Date:	06/12/2022
Reported:	06/16/2022	Sampling Type:	Soil
Project Name:	GADWALL 18 FED COM #002H ( GADWA	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: DT - 2 4' (H222523-08)**

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/14/2022	ND	2.17	109	2.00	0.275	
Toluene*	<0.050	0.050	06/14/2022	ND	2.14	107	2.00	1.67	
Ethylbenzene*	<0.050	0.050	06/14/2022	ND	2.09	104	2.00	2.04	
Total Xylenes*	<0.150	0.150	06/14/2022	ND	6.48	108	6.00	2.20	
Total BTEx	<0.300	0.300	06/14/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.3 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1280	16.0	06/14/2022	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	06/14/2022	ND	185	92.4	200	1.01	
DRO >C10-C28*	<10.0	10.0	06/14/2022	ND	192	95.9	200	5.70	
EXT DRO >C28-C36	<10.0	10.0	06/14/2022	ND					

Surrogate: 1-Chlorooctane 117 % 66.9-136

Surrogate: 1-Chlorooctadecane 121 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	06/13/2022	Sampling Date:	06/12/2022
Reported:	06/16/2022	Sampling Type:	Soil
Project Name:	GADWALL 18 FED COM #002H ( GADWA	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: DT - 2 6' (H22523-09)**

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/14/2022	ND	2.17	109	2.00	0.275	
Toluene*	<0.050	0.050	06/14/2022	ND	2.14	107	2.00	1.67	
Ethylbenzene*	<0.050	0.050	06/14/2022	ND	2.09	104	2.00	2.04	
Total Xylenes*	<0.150	0.150	06/14/2022	ND	6.48	108	6.00	2.20	
Total BTX	<0.300	0.300	06/14/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.5 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	06/14/2022	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	06/14/2022	ND	185	92.4	200	1.01	
DRO >C10-C28*	<10.0	10.0	06/14/2022	ND	192	95.9	200	5.70	
EXT DRO >C28-C36	<10.0	10.0	06/14/2022	ND					

Surrogate: 1-Chlorooctane 116 % 66.9-136

Surrogate: 1-Chlorooctadecane 121 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	06/13/2022	Sampling Date:	06/12/2022
Reported:	06/16/2022	Sampling Type:	Soil
Project Name:	GADWALL 18 FED COM #002H ( GADWA	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: DT - 3 0-1' (H222523-10)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/14/2022	ND	2.17	109	2.00	0.275		
Toluene*	<0.050	0.050	06/14/2022	ND	2.14	107	2.00	1.67		
Ethylbenzene*	<0.050	0.050	06/14/2022	ND	2.09	104	2.00	2.04		
Total Xylenes*	<0.150	0.150	06/14/2022	ND	6.48	108	6.00	2.20		
Total BTEx	<0.300	0.300	06/14/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.4 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	10200	16.0	06/14/2022	ND	416	104	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	06/14/2022	ND	185	92.4	200	1.01	
DRO >C10-C28*	<10.0	10.0	06/14/2022	ND	192	95.9	200	5.70	
EXT DRO >C28-C36	<10.0	10.0	06/14/2022	ND					

Surrogate: 1-Chlorooctane 121 % 66.9-136

Surrogate: 1-Chlorooctadecane 124 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	06/13/2022	Sampling Date:	06/12/2022
Reported:	06/16/2022	Sampling Type:	Soil
Project Name:	GADWALL 18 FED COM #002H ( GADWA	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: DT - 3 2' (H222523-11)**

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/14/2022	ND	2.17	109	2.00	0.275	
Toluene*	<0.050	0.050	06/14/2022	ND	2.14	107	2.00	1.67	
Ethylbenzene*	<0.050	0.050	06/14/2022	ND	2.09	104	2.00	2.04	
Total Xylenes*	<0.150	0.150	06/14/2022	ND	6.48	108	6.00	2.20	
Total BTEx	<0.300	0.300	06/14/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.2 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	8260	16.0	06/14/2022	ND	416	104	400	0.00	QM-07	

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	06/14/2022	ND	185	92.4	200	1.01	
DRO >C10-C28*	<10.0	10.0	06/14/2022	ND	192	95.9	200	5.70	
EXT DRO >C28-C36	<10.0	10.0	06/14/2022	ND					

Surrogate: 1-Chlorooctane 109 % 66.9-136

Surrogate: 1-Chlorooctadecane 112 % 59.5-142

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	06/13/2022	Sampling Date:	06/12/2022
Reported:	06/16/2022	Sampling Type:	Soil
Project Name:	GADWALL 18 FED COM #002H ( GADWA	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: DT - 3 3' (H222523-12)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/14/2022	ND	2.06	103	2.00	2.00		
Toluene*	<0.050	0.050	06/14/2022	ND	2.15	108	2.00	3.45		
Ethylbenzene*	<0.050	0.050	06/14/2022	ND	2.05	102	2.00	0.0186		
Total Xylenes*	<0.150	0.150	06/14/2022	ND	6.09	101	6.00	0.687		
Total BTEx	<0.300	0.300	06/14/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2880	16.0	06/14/2022	ND	416	104	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	06/14/2022	ND	185	92.4	200	1.01	
DRO >C10-C28*	<10.0	10.0	06/14/2022	ND	192	95.9	200	5.70	
EXT DRO >C28-C36	<10.0	10.0	06/14/2022	ND					

Surrogate: 1-Chlorooctane 114 % 66.9-136

Surrogate: 1-Chlorooctadecane 118 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	06/13/2022	Sampling Date:	06/12/2022
Reported:	06/16/2022	Sampling Type:	Soil
Project Name:	GADWALL 18 FED COM #002H ( GADWA	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: DT - 3 4' (H222523-13)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/14/2022	ND	2.06	103	2.00	2.00		
Toluene*	<0.050	0.050	06/14/2022	ND	2.15	108	2.00	3.45		
Ethylbenzene*	<0.050	0.050	06/14/2022	ND	2.05	102	2.00	0.0186		
Total Xylenes*	<0.150	0.150	06/14/2022	ND	6.09	101	6.00	0.687		
Total BTEX	<0.300	0.300	06/14/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2560	16.0	06/14/2022	ND	416	104	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	06/14/2022	ND	185	92.4	200	1.01	
DRO >C10-C28*	<10.0	10.0	06/14/2022	ND	192	95.9	200	5.70	
EXT DRO >C28-C36	<10.0	10.0	06/14/2022	ND					

Surrogate: 1-Chlorooctane 118 % 66.9-136

Surrogate: 1-Chlorooctadecane 121 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	06/13/2022	Sampling Date:	06/12/2022
Reported:	06/16/2022	Sampling Type:	Soil
Project Name:	GADWALL 18 FED COM #002H ( GADWA	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: DT - 3 6' (H222523-14)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/14/2022	ND	2.06	103	2.00	2.00		
Toluene*	<0.050	0.050	06/14/2022	ND	2.15	108	2.00	3.45		
Ethylbenzene*	<0.050	0.050	06/14/2022	ND	2.05	102	2.00	0.0186		
Total Xylenes*	<0.150	0.150	06/14/2022	ND	6.09	101	6.00	0.687		
Total BTEx	<0.300	0.300	06/14/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3600	16.0	06/14/2022	ND	416	104	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	06/14/2022	ND	185	92.4	200	1.01	
DRO >C10-C28*	<10.0	10.0	06/14/2022	ND	192	95.9	200	5.70	
EXT DRO >C28-C36	<10.0	10.0	06/14/2022	ND					

Surrogate: 1-Chlorooctane 118 % 66.9-136

Surrogate: 1-Chlorooctadecane 123 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received:	06/13/2022	Sampling Date:	06/12/2022
Reported:	06/16/2022	Sampling Type:	Soil
Project Name:	GADWALL 18 FED COM #002H ( GADWA	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: DT - 3 8' (H22523-15)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/14/2022	ND	2.06	103	2.00	2.00		
Toluene*	<0.050	0.050	06/14/2022	ND	2.15	108	2.00	3.45		
Ethylbenzene*	<0.050	0.050	06/14/2022	ND	2.05	102	2.00	0.0186		
Total Xylenes*	<0.150	0.150	06/14/2022	ND	6.09	101	6.00	0.687		
Total BTX	<0.300	0.300	06/14/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3080	16.0	06/14/2022	ND	416	104	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	06/14/2022	ND	185	92.4	200	1.01	
DRO >C10-C28*	<10.0	10.0	06/14/2022	ND	192	95.9	200	5.70	
EXT DRO >C28-C36	<10.0	10.0	06/14/2022	ND					

Surrogate: 1-Chlorooctane 118 % 66.9-136

Surrogate: 1-Chlorooctadecane 121 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	06/13/2022	Sampling Date:	06/12/2022
Reported:	06/16/2022	Sampling Type:	Soil
Project Name:	GADWALL 18 FED COM #002H ( GADWA	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: DT - 3 10' (H222523-16)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/14/2022	ND	2.06	103	2.00	2.00	
Toluene*	<0.050	0.050	06/14/2022	ND	2.15	108	2.00	3.45	
Ethylbenzene*	<0.050	0.050	06/14/2022	ND	2.05	102	2.00	0.0186	
Total Xylenes*	<0.150	0.150	06/14/2022	ND	6.09	101	6.00	0.687	
Total BTX	<0.300	0.300	06/14/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2080	16.0	06/14/2022	ND	416	104	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	06/14/2022	ND	185	92.4	200	1.01	
DRO >C10-C28*	<10.0	10.0	06/14/2022	ND	192	95.9	200	5.70	
EXT DRO >C28-C36	<10.0	10.0	06/14/2022	ND					

Surrogate: 1-Chlorooctane 118 % 66.9-136

Surrogate: 1-Chlorooctadecane 123 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	06/13/2022	Sampling Date:	06/12/2022
Reported:	06/16/2022	Sampling Type:	Soil
Project Name:	GADWALL 18 FED COM #002H ( GADWA	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: DT - 3 12' (H222523-17)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/14/2022	ND	2.06	103	2.00	2.00	
Toluene*	<0.050	0.050	06/14/2022	ND	2.15	108	2.00	3.45	
Ethylbenzene*	<0.050	0.050	06/14/2022	ND	2.05	102	2.00	0.0186	
Total Xylenes*	<0.150	0.150	06/14/2022	ND	6.09	101	6.00	0.687	
Total BTX	<0.300	0.300	06/14/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	992	16.0	06/14/2022	ND	416	104	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	06/14/2022	ND	185	92.4	200	1.01	
DRO >C10-C28*	<10.0	10.0	06/14/2022	ND	192	95.9	200	5.70	
EXT DRO >C28-C36	<10.0	10.0	06/14/2022	ND					

Surrogate: 1-Chlorooctane 117 % 66.9-136

Surrogate: 1-Chlorooctadecane 119 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	06/13/2022	Sampling Date:	06/12/2022
Reported:	06/16/2022	Sampling Type:	Soil
Project Name:	GADWALL 18 FED COM #002H ( GADWA	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: DT - 3 13' (H222523-18)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/14/2022	ND	2.06	103	2.00	2.00		
Toluene*	<0.050	0.050	06/14/2022	ND	2.15	108	2.00	3.45		
Ethylbenzene*	<0.050	0.050	06/14/2022	ND	2.05	102	2.00	0.0186		
Total Xylenes*	<0.150	0.150	06/14/2022	ND	6.09	101	6.00	0.687		
Total BTEx	<0.300	0.300	06/14/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	06/14/2022	ND	416	104	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	06/14/2022	ND	185	92.4	200	1.01	
DRO >C10-C28*	<10.0	10.0	06/14/2022	ND	192	95.9	200	5.70	
EXT DRO >C28-C36	<10.0	10.0	06/14/2022	ND					

Surrogate: 1-Chlorooctane 115 % 66.9-136

Surrogate: 1-Chlorooctadecane 118 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	06/13/2022	Sampling Date:	06/12/2022
Reported:	06/16/2022	Sampling Type:	Soil
Project Name:	GADWALL 18 FED COM #002H ( GADWA	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: DT - 4 0-1' (H222523-19)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/14/2022	ND	2.06	103	2.00	2.00		
Toluene*	<0.050	0.050	06/14/2022	ND	2.15	108	2.00	3.45		
Ethylbenzene*	<0.050	0.050	06/14/2022	ND	2.05	102	2.00	0.0186		
Total Xylenes*	<0.150	0.150	06/14/2022	ND	6.09	101	6.00	0.687		
Total BTEX	<0.300	0.300	06/14/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	15200	16.0	06/14/2022	ND	416	104	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	06/14/2022	ND	185	92.4	200	1.01	
DRO >C10-C28*	57.4	10.0	06/14/2022	ND	192	95.9	200	5.70	
EXT DRO >C28-C36	36.6	10.0	06/14/2022	ND					

Surrogate: 1-Chlorooctane 121 % 66.9-136

Surrogate: 1-Chlorooctadecane 126 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	06/13/2022	Sampling Date:	06/12/2022
Reported:	06/16/2022	Sampling Type:	Soil
Project Name:	GADWALL 18 FED COM #002H ( GADWA	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: DT - 4 2' (H222523-20)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/14/2022	ND	2.06	103	2.00	2.00		
Toluene*	<0.050	0.050	06/14/2022	ND	2.15	108	2.00	3.45		
Ethylbenzene*	<0.050	0.050	06/14/2022	ND	2.05	102	2.00	0.0186		
Total Xylenes*	<0.150	0.150	06/14/2022	ND	6.09	101	6.00	0.687		
Total BTEX	<0.300	0.300	06/14/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3360	16.0	06/14/2022	ND	416	104	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	06/14/2022	ND	185	92.4	200	1.01	
DRO >C10-C28*	<10.0	10.0	06/14/2022	ND	192	95.9	200	5.70	
EXT DRO >C28-C36	<10.0	10.0	06/14/2022	ND					

Surrogate: 1-Chlorooctane 125 % 66.9-136

Surrogate: 1-Chlorooctadecane 127 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	06/13/2022	Sampling Date:	06/12/2022
Reported:	06/16/2022	Sampling Type:	Soil
Project Name:	GADWALL 18 FED COM #002H ( GADWA	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: DT - 4 3' (H22523-21)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/14/2022	ND	2.06	103	2.00	2.00		
Toluene*	<0.050	0.050	06/14/2022	ND	2.15	108	2.00	3.45		
Ethylbenzene*	<0.050	0.050	06/14/2022	ND	2.05	102	2.00	0.0186		
Total Xylenes*	<0.150	0.150	06/14/2022	ND	6.09	101	6.00	0.687		
Total BTEx	<0.300	0.300	06/14/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	448	16.0	06/14/2022	ND	416	104	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	06/14/2022	ND	170	84.9	200	1.84	
DRO >C10-C28*	<10.0	10.0	06/14/2022	ND	179	89.7	200	0.935	
EXT DRO >C28-C36	<10.0	10.0	06/14/2022	ND					

Surrogate: 1-Chlorooctane 87.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 95.6 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	06/13/2022	Sampling Date:	06/12/2022
Reported:	06/16/2022	Sampling Type:	Soil
Project Name:	GADWALL 18 FED COM #002H ( GADWA	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: DT - 4 4' (H222523-22)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/14/2022	ND	2.06	103	2.00	2.00		
Toluene*	<0.050	0.050	06/14/2022	ND	2.15	108	2.00	3.45		
Ethylbenzene*	<0.050	0.050	06/14/2022	ND	2.05	102	2.00	0.0186		
Total Xylenes*	<0.150	0.150	06/14/2022	ND	6.09	101	6.00	0.687		
Total BTEX	<0.300	0.300	06/14/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1060	16.0	06/14/2022	ND	416	104	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	06/14/2022	ND	170	84.9	200	1.84	
DRO >C10-C28*	<10.0	10.0	06/14/2022	ND	179	89.7	200	0.935	
EXT DRO >C28-C36	<10.0	10.0	06/14/2022	ND					

Surrogate: 1-Chlorooctane 90.2 % 66.9-136

Surrogate: 1-Chlorooctadecane 98.4 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received:	06/13/2022	Sampling Date:	06/12/2022
Reported:	06/16/2022	Sampling Type:	Soil
Project Name:	GADWALL 18 FED COM #002H ( GADWA	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: DT - 4 6' (H222523-23)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/14/2022	ND	2.06	103	2.00	2.00		
Toluene*	<0.050	0.050	06/14/2022	ND	2.15	108	2.00	3.45		
Ethylbenzene*	<0.050	0.050	06/14/2022	ND	2.05	102	2.00	0.0186		
Total Xylenes*	<0.150	0.150	06/14/2022	ND	6.09	101	6.00	0.687		
Total BTEx	<0.300	0.300	06/14/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	06/14/2022	ND	416	104	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	06/14/2022	ND	170	84.9	200	1.84	
DRO >C10-C28*	<10.0	10.0	06/14/2022	ND	179	89.7	200	0.935	
EXT DRO >C28-C36	<10.0	10.0	06/14/2022	ND					

Surrogate: 1-Chlorooctane 88.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 97.8 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager

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### Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "C. D. Keene", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager



ANALYSIS REQUEST

 $\frac{1}{3}$



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2/3

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

Company Name: H&R Enterprises

Project Manager: Michael Collier

Address:

City:

State:

Zip:

Phone #:

Fax #:

Project #:

Project Owner: Cimarex Energy

Project Name: Gadwall 18 Fed Com #002H (Gadwall 18-2)

Project Location: Eddy County, NM

Sample Name: M. Collier

Lab I.D.

Sample I.D.

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					DATE	TIME	ANALYSIS REQUEST				
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE			BTEX	TPH	Chlorides		
1122523	DT-3 2'		G 1			X					X	X	X		
12	DT-3 3'								6-12-22						
13	DT-3 4'														
14	DT-3 6'														
15	DT-3 8'														
16	DT-3 10'														
17	DT-3 12'														
18	DT-3 13'														
19	DT-4 0-1'														
20	DT-4 2'														

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Relinquished By:

Date: 6-13-22

Received By:

Verbal Result: ☐ Yes ☐ No

Add'l Phone #:

Relinquished By:

Date:

Received By:

REMARKS: Pg 2 of 3

Delivered By: (Circle One)  
Sampler - UPS - Bus - Other:

Observed Temp. °C  
Corrected Temp. °C

Sample Condition  
Cool Intact ☒ Yes  
No ☐ No

CHECKED BY:  
(Initials)

Thermometer Type: ☐ Standard ☒ Bacteria (only) Sample Condition  
Cool Intact ☒ Yes  
No ☐ No

Thermometer ID #113  
Correction Factor -0.5°C

Yes ☐ No ☐

Corrected Temp. °C

FORM-006 R 3.2 10/07/21

† Cardinal cannot accept verbal changes. Please email changes to cely.keene@cardinalabnm.com





CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: H&R Enterprises		<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>									
Project Manager: Michael Collier		P.O. #:											
Address:		Company: Cimarex Energy											
City:		Attn: Laci Luig											
State:		Address:											
Zip:		City:											
Phone #:		State:											
Fax #:		Zip:											
Project #:		Project Owner: Cimarex Energy											
Project Name: Gadsden 18 Fed Com #002H (Gadsden 18-2)		City:											
Project Location: Eddy County, NM		State:											
Sampler Name: M. Collier		Phone #:											
Fax #:													
FOR LAB USE ONLY													
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													
BTEX													
TPH													
Chlorides													
DT-4 3'													
DT-4 4'													
DT-4 6'													
21													
22													
23													
Relinquished By: <i>M. Collier</i>													
Date: 6/13/22													
Time: 11:01													
Relinquished By: <i>Stedinger</i>													
Date:													
Time:													
Received By:													
Delivered By: (Circle One)													
Sampler - UPS - Bus - Other:													
Observed Temp. °C													
Corrected Temp. °C													
Sample Condition													
Cool Intact													
Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>													
CHECKED BY: (Initials)													
Thermometer ID #113													
Correction Factor .05°C													
Standard													
Cool Intact													
Observed Temp. °C													
Bacteria (only) Sample Condition													
Yes <input type="checkbox"/> No <input type="checkbox"/>													
Corrected Temp. °C													
Yes <input type="checkbox"/> No <input type="checkbox"/>													
Vertical Result: <input type="checkbox"/> Yes <input type="checkbox"/> No													
Add'l Phone #:													
All Results are emailed. Please provide Email address:													
REMARKS: Pg 3 of 3													

FORM-006 R 3.2 10/07/21

† Cardinal cannot accept verbal changes. Please email changes to cely.keene@cardinalabnm.com

3/3



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

---

June 14, 2022

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

RE: GADWALL 18 FED COM #002H ( GADWALL 18-2 )

Enclosed are the results of analyses for samples received by the laboratory on 06/13/22 16:01.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. 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](http://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:**

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

Received:	06/13/2022	Sampling Date:	06/13/2022
Reported:	06/14/2022	Sampling Type:	Soil
Project Name:	GADWALL 18 FED COM #002H ( GADWA	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: S - 1 2' (H222522-01)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/13/2022	ND	2.18	109	2.00	11.5	
Toluene*	<0.050	0.050	06/13/2022	ND	2.18	109	2.00	12.1	
Ethylbenzene*	<0.050	0.050	06/13/2022	ND	2.07	104	2.00	12.3	
Total Xylenes*	<0.150	0.150	06/13/2022	ND	6.48	108	6.00	13.3	
Total BTEX	<0.300	0.300	06/13/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	06/14/2022	ND	416	104	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	06/13/2022	ND	234	117	200	1.19	
DRO >C10-C28*	<10.0	10.0	06/13/2022	ND	235	118	200	2.51	
EXT DRO >C28-C36	<10.0	10.0	06/13/2022	ND					

Surrogate: 1-Chlorooctane 128 % 66.9-136

Surrogate: 1-Chlorooctadecane 130 % 59.5-142

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	06/13/2022	Sampling Date:	06/13/2022
Reported:	06/14/2022	Sampling Type:	Soil
Project Name:	GADWALL 18 FED COM #002H ( GADWA	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: S - 2 2' (H222522-02)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/13/2022	ND	2.18	109	2.00	11.5		
Toluene*	<0.050	0.050	06/13/2022	ND	2.18	109	2.00	12.1		
Ethylbenzene*	<0.050	0.050	06/13/2022	ND	2.07	104	2.00	12.3		
Total Xylenes*	<0.150	0.150	06/13/2022	ND	6.48	108	6.00	13.3		
Total BTEx	<0.300	0.300	06/13/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	400	16.0	06/14/2022	ND	416	104	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	06/14/2022	ND	234	117	200	1.19	
DRO >C10-C28*	<10.0	10.0	06/14/2022	ND	235	118	200	2.51	
EXT DRO >C28-C36	<10.0	10.0	06/14/2022	ND					

Surrogate: 1-Chlorooctane 132 % 66.9-136

Surrogate: 1-Chlorooctadecane 134 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received:	06/13/2022	Sampling Date:	06/13/2022
Reported:	06/14/2022	Sampling Type:	Soil
Project Name:	GADWALL 18 FED COM #002H ( GADWA	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: S - 3 4' (H222522-03)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/14/2022	ND	2.18	109	2.00	11.5		
Toluene*	<0.050	0.050	06/14/2022	ND	2.18	109	2.00	12.1		
Ethylbenzene*	<0.050	0.050	06/14/2022	ND	2.07	104	2.00	12.3		
Total Xylenes*	<0.150	0.150	06/14/2022	ND	6.48	108	6.00	13.3		
Total BTEx	<0.300	0.300	06/14/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	560	16.0	06/14/2022	ND	416	104	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	06/14/2022	ND	234	117	200	1.19	
DRO >C10-C28*	12.8	10.0	06/14/2022	ND	235	118	200	2.51	
EXT DRO >C28-C36	<10.0	10.0	06/14/2022	ND					

Surrogate: 1-Chlorooctane 114 % 66.9-136

Surrogate: 1-Chlorooctadecane 118 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	06/13/2022	Sampling Date:	06/13/2022
Reported:	06/14/2022	Sampling Type:	Soil
Project Name:	GADWALL 18 FED COM #002H ( GADWA	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: S - 4 6' (H222522-04)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/14/2022	ND	2.18	109	2.00	11.5		
Toluene*	<0.050	0.050	06/14/2022	ND	2.18	109	2.00	12.1		
Ethylbenzene*	<0.050	0.050	06/14/2022	ND	2.07	104	2.00	12.3		
Total Xylenes*	<0.150	0.150	06/14/2022	ND	6.48	108	6.00	13.3		
Total BTEx	<0.300	0.300	06/14/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	560	16.0	06/14/2022	ND	416	104	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	06/14/2022	ND	234	117	200	1.19	
DRO >C10-C28*	<10.0	10.0	06/14/2022	ND	235	118	200	2.51	
EXT DRO >C28-C36	<10.0	10.0	06/14/2022	ND					

Surrogate: 1-Chlorooctane 129 % 66.9-136

Surrogate: 1-Chlorooctadecane 134 % 59.5-142

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	06/13/2022	Sampling Date:	06/13/2022
Reported:	06/14/2022	Sampling Type:	Soil
Project Name:	GADWALL 18 FED COM #002H ( GADWA	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: S - 5 6' (H222522-05)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/14/2022	ND	2.18	109	2.00	11.5		
Toluene*	<0.050	0.050	06/14/2022	ND	2.18	109	2.00	12.1		
Ethylbenzene*	<0.050	0.050	06/14/2022	ND	2.07	104	2.00	12.3		
Total Xylenes*	<0.150	0.150	06/14/2022	ND	6.48	108	6.00	13.3		
Total BTEX	<0.300	0.300	06/14/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1010	16.0	06/14/2022	ND	416	104	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	06/14/2022	ND	234	117	200	1.19	
DRO >C10-C28*	14.0	10.0	06/14/2022	ND	235	118	200	2.51	
EXT DRO >C28-C36	<10.0	10.0	06/14/2022	ND					

Surrogate: 1-Chlorooctane 129 % 66.9-136

Surrogate: 1-Chlorooctadecane 134 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	06/13/2022	Sampling Date:	06/13/2022
Reported:	06/14/2022	Sampling Type:	Soil
Project Name:	GADWALL 18 FED COM #002H ( GADWA	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: S - 6 13' (H222522-06)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/14/2022	ND	2.18	109	2.00	11.5	
Toluene*	<0.050	0.050	06/14/2022	ND	2.18	109	2.00	12.1	
Ethylbenzene*	<0.050	0.050	06/14/2022	ND	2.07	104	2.00	12.3	
Total Xylenes*	<0.150	0.150	06/14/2022	ND	6.48	108	6.00	13.3	
Total BTX	<0.300	0.300	06/14/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	06/14/2022	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	06/14/2022	ND	234	117	200	1.19	
DRO >C10-C28*	<10.0	10.0	06/14/2022	ND	235	118	200	2.51	
EXT DRO >C28-C36	<10.0	10.0	06/14/2022	ND					

Surrogate: 1-Chlorooctane 130 % 66.9-136

Surrogate: 1-Chlorooctadecane 135 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	06/13/2022	Sampling Date:	06/13/2022
Reported:	06/14/2022	Sampling Type:	Soil
Project Name:	GADWALL 18 FED COM #002H ( GADWA	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: S - 7 6' (H222522-07)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/14/2022	ND	2.18	109	2.00	11.5	
Toluene*	<0.050	0.050	06/14/2022	ND	2.18	109	2.00	12.1	
Ethylbenzene*	<0.050	0.050	06/14/2022	ND	2.07	104	2.00	12.3	
Total Xylenes*	<0.150	0.150	06/14/2022	ND	6.48	108	6.00	13.3	
Total BTX	<0.300	0.300	06/14/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	880	16.0	06/14/2022	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	06/14/2022	ND	234	117	200	1.19	
DRO >C10-C28*	10.5	10.0	06/14/2022	ND	235	118	200	2.51	
EXT DRO >C28-C36	<10.0	10.0	06/14/2022	ND					

Surrogate: 1-Chlorooctane 132 % 66.9-136

Surrogate: 1-Chlorooctadecane 136 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	06/13/2022	Sampling Date:	06/13/2022
Reported:	06/14/2022	Sampling Type:	Soil
Project Name:	GADWALL 18 FED COM #002H ( GADWA	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: S - 8 6' (H222522-08)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/14/2022	ND	2.18	109	2.00	11.5	
Toluene*	<0.050	0.050	06/14/2022	ND	2.18	109	2.00	12.1	
Ethylbenzene*	<0.050	0.050	06/14/2022	ND	2.07	104	2.00	12.3	
Total Xylenes*	<0.150	0.150	06/14/2022	ND	6.48	108	6.00	13.3	
Total BTEX	<0.300	0.300	06/14/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	06/14/2022	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	06/14/2022	ND	234	117	200	1.19	
DRO >C10-C28*	<10.0	10.0	06/14/2022	ND	235	118	200	2.51	
EXT DRO >C28-C36	<10.0	10.0	06/14/2022	ND					

Surrogate: 1-Chlorooctane 122 % 66.9-136

Surrogate: 1-Chlorooctadecane 129 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	06/13/2022	Sampling Date:	06/13/2022
Reported:	06/14/2022	Sampling Type:	Soil
Project Name:	GADWALL 18 FED COM #002H ( GADWA	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: S - 9 6' (H222522-09)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/14/2022	ND	2.18	109	2.00	11.5		
Toluene*	<0.050	0.050	06/14/2022	ND	2.18	109	2.00	12.1		
Ethylbenzene*	<0.050	0.050	06/14/2022	ND	2.07	104	2.00	12.3		
Total Xylenes*	<0.150	0.150	06/14/2022	ND	6.48	108	6.00	13.3		
Total BTEx	<0.300	0.300	06/14/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	06/14/2022	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	06/14/2022	ND	234	117	200	1.19	
DRO >C10-C28*	<10.0	10.0	06/14/2022	ND	235	118	200	2.51	
EXT DRO >C28-C36	<10.0	10.0	06/14/2022	ND					

Surrogate: 1-Chlorooctane 128 % 66.9-136

Surrogate: 1-Chlorooctadecane 136 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	06/13/2022	Sampling Date:	06/13/2022
Reported:	06/14/2022	Sampling Type:	Soil
Project Name:	GADWALL 18 FED COM #002H ( GADWA	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: S - 10 6' (H222522-10)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/14/2022	ND	2.18	109	2.00	11.5	
Toluene*	<0.050	0.050	06/14/2022	ND	2.18	109	2.00	12.1	
Ethylbenzene*	<0.050	0.050	06/14/2022	ND	2.07	104	2.00	12.3	
Total Xylenes*	<0.150	0.150	06/14/2022	ND	6.48	108	6.00	13.3	
Total BTX	<0.300	0.300	06/14/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	06/14/2022	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	06/14/2022	ND	234	117	200	1.19	
DRO >C10-C28*	<10.0	10.0	06/14/2022	ND	235	118	200	2.51	
EXT DRO >C28-C36	<10.0	10.0	06/14/2022	ND					

Surrogate: 1-Chlorooctane 131 % 66.9-136

Surrogate: 1-Chlorooctadecane 136 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received:	06/13/2022	Sampling Date:	06/13/2022
Reported:	06/14/2022	Sampling Type:	Soil
Project Name:	GADWALL 18 FED COM #002H ( GADWA	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: SW - 1 2' (H222522-11)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/14/2022	ND	2.18	109	2.00	11.5	
Toluene*	<0.050	0.050	06/14/2022	ND	2.18	109	2.00	12.1	
Ethylbenzene*	<0.050	0.050	06/14/2022	ND	2.07	104	2.00	12.3	
Total Xylenes*	<0.150	0.150	06/14/2022	ND	6.48	108	6.00	13.3	
Total BTX	<0.300	0.300	06/14/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	06/14/2022	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	06/14/2022	ND	234	117	200	1.19	
DRO >C10-C28*	<10.0	10.0	06/14/2022	ND	235	118	200	2.51	
EXT DRO >C28-C36	<10.0	10.0	06/14/2022	ND					

Surrogate: 1-Chlorooctane 113 % 66.9-136

Surrogate: 1-Chlorooctadecane 118 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	06/13/2022	Sampling Date:	06/13/2022
Reported:	06/14/2022	Sampling Type:	Soil
Project Name:	GADWALL 18 FED COM #002H ( GADWA	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: SW - 2 2' (H222522-12)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/14/2022	ND	2.18	109	2.00	11.5		
Toluene*	<0.050	0.050	06/14/2022	ND	2.18	109	2.00	12.1		
Ethylbenzene*	<0.050	0.050	06/14/2022	ND	2.07	104	2.00	12.3		
Total Xylenes*	<0.150	0.150	06/14/2022	ND	6.48	108	6.00	13.3		
Total BTEx	<0.300	0.300	06/14/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	06/14/2022	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	06/14/2022	ND	234	117	200	1.19	
DRO >C10-C28*	<10.0	10.0	06/14/2022	ND	235	118	200	2.51	
EXT DRO >C28-C36	<10.0	10.0	06/14/2022	ND					

Surrogate: 1-Chlorooctane 127 % 66.9-136

Surrogate: 1-Chlorooctadecane 133 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	06/13/2022	Sampling Date:	06/13/2022
Reported:	06/14/2022	Sampling Type:	Soil
Project Name:	GADWALL 18 FED COM #002H ( GADWA	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: SW - 3 2' (H222522-13)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/14/2022	ND	2.18	109	2.00	11.5	
Toluene*	<0.050	0.050	06/14/2022	ND	2.18	109	2.00	12.1	
Ethylbenzene*	<0.050	0.050	06/14/2022	ND	2.07	104	2.00	12.3	
Total Xylenes*	<0.150	0.150	06/14/2022	ND	6.48	108	6.00	13.3	
Total BTEx	<0.300	0.300	06/14/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	06/14/2022	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	06/14/2022	ND	234	117	200	1.19	
DRO >C10-C28*	<10.0	10.0	06/14/2022	ND	235	118	200	2.51	
EXT DRO >C28-C36	<10.0	10.0	06/14/2022	ND					

Surrogate: 1-Chlorooctane 124 % 66.9-136

Surrogate: 1-Chlorooctadecane 128 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	06/13/2022	Sampling Date:	06/13/2022
Reported:	06/14/2022	Sampling Type:	Soil
Project Name:	GADWALL 18 FED COM #002H ( GADWA	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: SW - 4 4-6' (H222522-14)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/14/2022	ND	2.18	109	2.00	11.5	
Toluene*	<0.050	0.050	06/14/2022	ND	2.18	109	2.00	12.1	
Ethylbenzene*	<0.050	0.050	06/14/2022	ND	2.07	104	2.00	12.3	
Total Xylenes*	<0.150	0.150	06/14/2022	ND	6.48	108	6.00	13.3	
Total BTEX	<0.300	0.300	06/14/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	06/14/2022	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	06/14/2022	ND	234	117	200	1.19	
DRO >C10-C28*	<10.0	10.0	06/14/2022	ND	235	118	200	2.51	
EXT DRO >C28-C36	<10.0	10.0	06/14/2022	ND					

Surrogate: 1-Chlorooctane 126 % 66.9-136

Surrogate: 1-Chlorooctadecane 131 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	06/13/2022	Sampling Date:	06/13/2022
Reported:	06/14/2022	Sampling Type:	Soil
Project Name:	GADWALL 18 FED COM #002H ( GADWA	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: SW - 5 4-6' (H222522-15)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/14/2022	ND	2.18	109	2.00	11.5		
Toluene*	<0.050	0.050	06/14/2022	ND	2.18	109	2.00	12.1		
Ethylbenzene*	<0.050	0.050	06/14/2022	ND	2.07	104	2.00	12.3		
Total Xylenes*	<0.150	0.150	06/14/2022	ND	6.48	108	6.00	13.3		
Total BTEx	<0.300	0.300	06/14/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	06/14/2022	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	06/14/2022	ND	234	117	200	1.19	
DRO >C10-C28*	<10.0	10.0	06/14/2022	ND	235	118	200	2.51	
EXT DRO >C28-C36	<10.0	10.0	06/14/2022	ND					

Surrogate: 1-Chlorooctane 128 % 66.9-136

Surrogate: 1-Chlorooctadecane 133 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received:	06/13/2022	Sampling Date:	06/13/2022
Reported:	06/14/2022	Sampling Type:	Soil
Project Name:	GADWALL 18 FED COM #002H ( GADWA	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: SW - 6' (H222522-16)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/14/2022	ND	2.18	109	2.00	11.5		
Toluene*	<0.050	0.050	06/14/2022	ND	2.18	109	2.00	12.1		
Ethylbenzene*	<0.050	0.050	06/14/2022	ND	2.07	104	2.00	12.3		
Total Xylenes*	<0.150	0.150	06/14/2022	ND	6.48	108	6.00	13.3		
Total BTX	<0.300	0.300	06/14/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	06/14/2022	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	06/14/2022	ND	234	117	200	1.19	
DRO >C10-C28*	<10.0	10.0	06/14/2022	ND	235	118	200	2.51	
EXT DRO >C28-C36	<10.0	10.0	06/14/2022	ND					

Surrogate: 1-Chlorooctane 121 % 66.9-136

Surrogate: 1-Chlorooctadecane 125 % 59.5-142

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	06/13/2022	Sampling Date:	06/13/2022
Reported:	06/14/2022	Sampling Type:	Soil
Project Name:	GADWALL 18 FED COM #002H ( GADWA	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: SW - 7 6' (H222522-17)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/14/2022	ND	2.18	109	2.00	11.5		
Toluene*	<0.050	0.050	06/14/2022	ND	2.18	109	2.00	12.1		
Ethylbenzene*	<0.050	0.050	06/14/2022	ND	2.07	104	2.00	12.3		
Total Xylenes*	<0.150	0.150	06/14/2022	ND	6.48	108	6.00	13.3		
Total BTEx	<0.300	0.300	06/14/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	06/14/2022	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	06/14/2022	ND	234	117	200	1.19	
DRO >C10-C28*	<10.0	10.0	06/14/2022	ND	235	118	200	2.51	
EXT DRO >C28-C36	<10.0	10.0	06/14/2022	ND					

Surrogate: 1-Chlorooctane 129 % 66.9-136

Surrogate: 1-Chlorooctadecane 134 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	06/13/2022	Sampling Date:	06/13/2022
Reported:	06/14/2022	Sampling Type:	Soil
Project Name:	GADWALL 18 FED COM #002H ( GADWA	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: SW - 8 13' (H222522-18)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/14/2022	ND	2.18	109	2.00	11.5		
Toluene*	<0.050	0.050	06/14/2022	ND	2.18	109	2.00	12.1		
Ethylbenzene*	<0.050	0.050	06/14/2022	ND	2.07	104	2.00	12.3		
Total Xylenes*	<0.150	0.150	06/14/2022	ND	6.48	108	6.00	13.3		
Total BTEX	<0.300	0.300	06/14/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	06/14/2022	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	06/14/2022	ND	234	117	200	1.19	
DRO >C10-C28*	<10.0	10.0	06/14/2022	ND	235	118	200	2.51	
EXT DRO >C28-C36	<10.0	10.0	06/14/2022	ND					

Surrogate: 1-Chlorooctane 127 % 66.9-136

Surrogate: 1-Chlorooctadecane 134 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	06/13/2022	Sampling Date:	06/13/2022
Reported:	06/14/2022	Sampling Type:	Soil
Project Name:	GADWALL 18 FED COM #002H ( GADWA	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: SW - 9 13' (H222522-19)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/14/2022	ND	2.18	109	2.00	11.5		
Toluene*	<0.050	0.050	06/14/2022	ND	2.18	109	2.00	12.1		
Ethylbenzene*	<0.050	0.050	06/14/2022	ND	2.07	104	2.00	12.3		
Total Xylenes*	<0.150	0.150	06/14/2022	ND	6.48	108	6.00	13.3		
Total BTEX	<0.300	0.300	06/14/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	06/14/2022	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	06/14/2022	ND	234	117	200	1.19	
DRO >C10-C28*	<10.0	10.0	06/14/2022	ND	235	118	200	2.51	
EXT DRO >C28-C36	<10.0	10.0	06/14/2022	ND					

Surrogate: 1-Chlorooctane 120 % 66.9-136

Surrogate: 1-Chlorooctadecane 124 % 59.5-142

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	06/13/2022	Sampling Date:	06/13/2022
Reported:	06/14/2022	Sampling Type:	Soil
Project Name:	GADWALL 18 FED COM #002H ( GADWA	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: SW - 10 6' (H222522-20)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/14/2022	ND	2.18	109	2.00	11.5		
Toluene*	<0.050	0.050	06/14/2022	ND	2.18	109	2.00	12.1		
Ethylbenzene*	<0.050	0.050	06/14/2022	ND	2.07	104	2.00	12.3		
Total Xylenes*	<0.150	0.150	06/14/2022	ND	6.48	108	6.00	13.3		
Total BTX	<0.300	0.300	06/14/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	06/14/2022	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	06/14/2022	ND	214	107	200	3.87	
DRO >C10-C28*	<10.0	10.0	06/14/2022	ND	227	113	200	1.46	
EXT DRO >C28-C36	<10.0	10.0	06/14/2022	ND					

Surrogate: 1-Chlorooctane 84.5 % 66.9-136

Surrogate: 1-Chlorooctadecane 91.7 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received:	06/13/2022	Sampling Date:	06/13/2022
Reported:	06/14/2022	Sampling Type:	Soil
Project Name:	GADWALL 18 FED COM #002H ( GADWA	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: SW - 11 6' (H222522-21)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/13/2022	ND	1.92	96.2	2.00	5.00		
Toluene*	<0.050	0.050	06/13/2022	ND	1.92	96.2	2.00	5.70		
Ethylbenzene*	<0.050	0.050	06/13/2022	ND	1.88	94.1	2.00	4.96		
Total Xylenes*	<0.150	0.150	06/13/2022	ND	5.90	98.4	6.00	4.20		
Total BTEx	<0.300	0.300	06/13/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.2 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	06/14/2022	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	06/14/2022	ND	214	107	200	3.87	
DRO >C10-C28*	<10.0	10.0	06/14/2022	ND	227	113	200	1.46	
EXT DRO >C28-C36	<10.0	10.0	06/14/2022	ND					

Surrogate: 1-Chlorooctane 81.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 86.3 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	06/13/2022	Sampling Date:	06/13/2022
Reported:	06/14/2022	Sampling Type:	Soil
Project Name:	GADWALL 18 FED COM #002H ( GADWA	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: SW - 12 6' (H222522-22)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/13/2022	ND	1.92	96.2	2.00	5.00		
Toluene*	<0.050	0.050	06/13/2022	ND	1.92	96.2	2.00	5.70		
Ethylbenzene*	<0.050	0.050	06/13/2022	ND	1.88	94.1	2.00	4.96		
Total Xylenes*	<0.150	0.150	06/13/2022	ND	5.90	98.4	6.00	4.20		
Total BTEx	<0.300	0.300	06/13/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.0 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	06/14/2022	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	06/14/2022	ND	214	107	200	3.87	
DRO >C10-C28*	<10.0	10.0	06/14/2022	ND	227	113	200	1.46	
EXT DRO >C28-C36	<10.0	10.0	06/14/2022	ND					

Surrogate: 1-Chlorooctane 85.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 94.0 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	06/13/2022	Sampling Date:	06/13/2022
Reported:	06/14/2022	Sampling Type:	Soil
Project Name:	GADWALL 18 FED COM #002H ( GADWA	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: SW - 13 6' (H222522-23)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/13/2022	ND	1.92	96.2	2.00	5.00		
Toluene*	<0.050	0.050	06/13/2022	ND	1.92	96.2	2.00	5.70		
Ethylbenzene*	<0.050	0.050	06/13/2022	ND	1.88	94.1	2.00	4.96		
Total Xylenes*	<0.150	0.150	06/13/2022	ND	5.90	98.4	6.00	4.20		
Total BTEx	<0.300	0.300	06/13/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.0 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	06/14/2022	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	06/14/2022	ND	214	107	200	3.87	
DRO >C10-C28*	<10.0	10.0	06/14/2022	ND	227	113	200	1.46	
EXT DRO >C28-C36	<10.0	10.0	06/14/2022	ND					

Surrogate: 1-Chlorooctane 86.2 % 66.9-136

Surrogate: 1-Chlorooctadecane 89.6 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	06/13/2022	Sampling Date:	06/13/2022
Reported:	06/14/2022	Sampling Type:	Soil
Project Name:	GADWALL 18 FED COM #002H ( GADWA	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: SW - 14 6' (H222522-24)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/13/2022	ND	1.92	96.2	2.00	5.00		
Toluene*	<0.050	0.050	06/13/2022	ND	1.92	96.2	2.00	5.70		
Ethylbenzene*	<0.050	0.050	06/13/2022	ND	1.88	94.1	2.00	4.96		
Total Xylenes*	<0.150	0.150	06/13/2022	ND	5.90	98.4	6.00	4.20		
Total BTEX	<0.300	0.300	06/13/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.5 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	06/14/2022	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	06/14/2022	ND	214	107	200	3.87		
DRO >C10-C28*	<10.0	10.0	06/14/2022	ND	227	113	200	1.46		
EXT DRO >C28-C36	<10.0	10.0	06/14/2022	ND						

Surrogate: 1-Chlorooctane 90.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 96.9 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	06/13/2022	Sampling Date:	06/13/2022
Reported:	06/14/2022	Sampling Type:	Soil
Project Name:	GADWALL 18 FED COM #002H ( GADWA	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: BG - 1 0-1' (H222522-25)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/13/2022	ND	1.92	96.2	2.00	5.00		
Toluene*	<0.050	0.050	06/13/2022	ND	1.92	96.2	2.00	5.70		
Ethylbenzene*	<0.050	0.050	06/13/2022	ND	1.88	94.1	2.00	4.96		
Total Xylenes*	<0.150	0.150	06/13/2022	ND	5.90	98.4	6.00	4.20		
Total BTEX	<0.300	0.300	06/13/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.2 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	06/14/2022	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	06/14/2022	ND	214	107	200	3.87		
DRO >C10-C28*	<10.0	10.0	06/14/2022	ND	227	113	200	1.46		
EXT DRO >C28-C36	<10.0	10.0	06/14/2022	ND						

Surrogate: 1-Chlorooctane 81.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 85.9 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received:	06/13/2022	Sampling Date:	06/13/2022
Reported:	06/14/2022	Sampling Type:	Soil
Project Name:	GADWALL 18 FED COM #002H ( GADWA	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: BG - 2 0-1' (H222522-26)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/14/2022	ND	1.92	96.2	2.00	5.00		
Toluene*	<0.050	0.050	06/14/2022	ND	1.92	96.2	2.00	5.70		
Ethylbenzene*	<0.050	0.050	06/14/2022	ND	1.88	94.1	2.00	4.96		
Total Xylenes*	<0.150	0.150	06/14/2022	ND	5.90	98.4	6.00	4.20		
Total BTEX	<0.300	0.300	06/14/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.1 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	06/14/2022	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	06/14/2022	ND	214	107	200	3.87	
DRO >C10-C28*	<10.0	10.0	06/14/2022	ND	227	113	200	1.46	
EXT DRO >C28-C36	<10.0	10.0	06/14/2022	ND					

Surrogate: 1-Chlorooctane 88.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 92.4 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	06/13/2022	Sampling Date:	06/13/2022
Reported:	06/14/2022	Sampling Type:	Soil
Project Name:	GADWALL 18 FED COM #002H ( GADWA	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: BG - 3 0-1' (H222522-27)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/14/2022	ND	1.92	96.2	2.00	5.00		
Toluene*	<0.050	0.050	06/14/2022	ND	1.92	96.2	2.00	5.70		
Ethylbenzene*	<0.050	0.050	06/14/2022	ND	1.88	94.1	2.00	4.96		
Total Xylenes*	<0.150	0.150	06/14/2022	ND	5.90	98.4	6.00	4.20		
Total BTEx	<0.300	0.300	06/14/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.6 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	06/14/2022	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	06/14/2022	ND	214	107	200	3.87	
DRO >C10-C28*	<10.0	10.0	06/14/2022	ND	227	113	200	1.46	
EXT DRO >C28-C36	<10.0	10.0	06/14/2022	ND					

Surrogate: 1-Chlorooctane 82.4 % 66.9-136

Surrogate: 1-Chlorooctadecane 86.5 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	06/13/2022	Sampling Date:	06/13/2022
Reported:	06/14/2022	Sampling Type:	Soil
Project Name:	GADWALL 18 FED COM #002H ( GADWA	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: BG - 4 0-1' (H222522-28)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/14/2022	ND	1.92	96.2	2.00	5.00		
Toluene*	<0.050	0.050	06/14/2022	ND	1.92	96.2	2.00	5.70		
Ethylbenzene*	<0.050	0.050	06/14/2022	ND	1.88	94.1	2.00	4.96		
Total Xylenes*	<0.150	0.150	06/14/2022	ND	5.90	98.4	6.00	4.20		
Total BTEX	<0.300	0.300	06/14/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	06/14/2022	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	06/14/2022	ND	214	107	200	3.87	
DRO >C10-C28*	<10.0	10.0	06/14/2022	ND	227	113	200	1.46	
EXT DRO >C28-C36	<10.0	10.0	06/14/2022	ND					

Surrogate: 1-Chlorooctane 86.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 92.8 % 59.5-142

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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### Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-04	The RPD for the BS/BSD was outside of historical limits.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

---

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

---

Celey D. Keene, Lab Director/Quality Manager



101 East Marland, Hobbs, NM 88240  
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### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: H&R Enterprises Project Manager: Michael Collier Address: City: State: Zip: Phone #: Fax #: Project #: Project Owner: Cimarex Energy Project Name: Gadowall 18 Fed Com #002H (Gadowall 18-2) Project Location: Eddy County, NM Sampler Name: M. Collier				<b>BILL TO</b> P.O. #: Company: Cimarex Energy Attn: Laci Luing Address: City: State: Zip: Phone #: Fax #:				<b>ANALYSIS REQUEST</b>			
FOR LAB USE ONLY Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER :		MATRIX PRESERV.		SAMPLING			
S-1 2' S-2 2' S-3 4' S-4 6' S-5 6' S-6 13' S-7 6' S-8 6' S-9 6' S-10 6'		C I X X X X X X X X		DATE 4-13-24		TIME 1:15 PM		BTEX TPH Chlorides			
Relinquished By: <i>[Signature]</i> Date: 4-13-24 Time: 1:15 PM		Received By: <i>[Signature]</i> Date: 4-13-24 Time: 1:15 PM		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:		REMARKS: Pg 1 of 3 RUSH			
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Observed Temp. °C 0.7 Corrected Temp. °C 0.2		Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		CHECKED BY: <i>[Signature]</i> (Initials)		Turnaround Time: Standard <input type="checkbox"/> Express (only) Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Thermometer ID #113 Correction Factor 0.5°C 24 Hrs <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No Corrected Temp. °C			





### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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[illegible]



## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

5/3

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

Company Name: H&R Enterprises

Project Manager: Michael Collier

Address:

City: State: Zip:

Phone #: Fax #:

Project #: Project Owner: Cimarex Energy

Project Name: Gadowall 18 Fed Com #002H (Gadowall 18-2)

Project Location: Eddy County, NM

Sample Name: M. Collier

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

21 SW-11 6' (G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER: DATE TIME

22 SW-12 6' C 1

23 SW-13 6' X

24 SW-14 6' X

25 B6-1 0-1' X

26 B6-2 0-1' X

27 B6-3 0-1' X

28 B6-4 0-1' X

6-13-22

BTEX TPH Chlorides

Verbal Result: ☐ Yes ☐ No Add'l Phone #:

REMARKS: Pg 3 of 3 RUSH

Thermometer Trace: ☒ Cool Inlet ☐ Backfill (only) Sample Condition

Thermometer ID #113

Correction Factor -0.5°C

Observed Temp. °C

Corrected Temp. °C

24HR

FORM-008 R 3.2 10/07/21

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



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June 17, 2022

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

RE: GADWALL 18 FED COM #002H ( GADWALL 18-2 )

Enclosed are the results of analyses for samples received by the laboratory on 06/16/22 14:59.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. 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](http://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".

Celey D. Keene  
Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received:	06/16/2022	Sampling Date:	06/16/2022
Reported:	06/17/2022	Sampling Type:	Soil
Project Name:	GADWALL 18 FED COM #002H ( GADWA	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: S - 5 7' (H222581-01)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/16/2022	ND	2.08	104	2.00	1.57	
Toluene*	0.063	0.050	06/16/2022	ND	2.07	104	2.00	0.666	
Ethylbenzene*	<0.050	0.050	06/16/2022	ND	1.97	98.7	2.00	1.49	
Total Xylenes*	<0.150	0.150	06/16/2022	ND	6.17	103	6.00	2.17	
Total BTX	<0.300	0.300	06/16/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	06/17/2022	ND	448	112	400	3.64		

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	06/16/2022	ND	179	89.4	200	0.586	
DRO >C10-C28*	<10.0	10.0	06/16/2022	ND	170	84.9	200	2.00	
EXT DRO >C28-C36	<10.0	10.0	06/16/2022	ND					

Surrogate: 1-Chlorooctane 111 % 66.9-136

Surrogate: 1-Chlorooctadecane 111 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	06/16/2022	Sampling Date:	06/16/2022
Reported:	06/17/2022	Sampling Type:	Soil
Project Name:	GADWALL 18 FED COM #002H ( GADWA	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: S - 7 7' (H222581-02)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/16/2022	ND	2.08	104	2.00	1.57	
Toluene*	<0.050	0.050	06/16/2022	ND	2.07	104	2.00	0.666	
Ethylbenzene*	<0.050	0.050	06/16/2022	ND	1.97	98.7	2.00	1.49	
Total Xylenes*	<0.150	0.150	06/16/2022	ND	6.17	103	6.00	2.17	
Total BTEx	<0.300	0.300	06/16/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	06/17/2022	ND	448	112	400	3.64	

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	06/16/2022	ND	179	89.4	200	0.586	
DRO >C10-C28*	<10.0	10.0	06/16/2022	ND	170	84.9	200	2.00	
EXT DRO >C28-C36	<10.0	10.0	06/16/2022	ND					

Surrogate: 1-Chlorooctane 125 % 66.9-136

Surrogate: 1-Chlorooctadecane 120 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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### Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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

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Celey D. Keene, Lab Director/Quality Manager



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## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

**District I**

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

**District II**

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

**District III**

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

**District IV**

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

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

CONDITIONS

Action 124825

**CONDITIONS**

Operator: CIMAREX ENERGY CO. OF COLORADO 600 N. Marienfeld Street Midland, TX 79701	OGRID: 162683
	Action Number: 124825
	Action Type: [C-141] Release Corrective Action (C-141)

**CONDITIONS**

Created By	Condition	Condition Date
rhamlet	We have received your closure report and final C-141 for Incident #NAPP2212419463 GADWALL 18 FEDERAL COM 2H, thank you. This closure is approved.	11/4/2022