



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

Remediation and Closure Report

Southern California 29 Federal 16H-18H
Incident# nAPP2222152069
Lea 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

September 15, 2022

Mrs. Jennifer Nobui
NMOCD
1220 S. St. Francis Drive
Santa Fe, NM 87505

Subject: **Remediation and Closure Report**
Southern California 29 Federal 16H-18H
Lea 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 Southern California 29 Federal 16H-18H is located approximately 42.9 miles West of Hobbs, New Mexico. The legal location for this release is Unit Letter E, Section 29, Township 19 South and Range 32 East in Lea County, New Mexico. More specifically the latitude and longitude for the release are 32.631924 North and -103.795200 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 Tonuco loamy fine sand, 0 to 3 percent slopes. The referenced soil data is attached in [Appendix II](#). Drainage courses in this area are typically dry. The project site is not 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 345-feet below ground surface (BGS). See [Appendix II](#) for the referenced groundwater data.

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

Approximate Depth to Groundwater	345 Feet/BGS
----------------------------------	--------------

<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

Due to groundwater information from the State Engineers office not being current as well as outside the recommended 0.5-mile range, an exploratory water bore was performed to a depth of 55-feet BGS on August 31, 2022. No groundwater was present on the date of drilling. On September 07, 2022, gauging was performed to determine any presence of groundwater and the results of the gauging determined no presence of groundwater.

As this is a remediation in an area with a depth to groundwater of greater than 50-feet BGS, the closure criteria for this site are 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	10,000 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	2,500 mg/kg
	GRO+DRO	EPA SW-846 Method 8015M	1,000 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg

Incident Description

On August 08, 2022, a hole was discovered in a 3" surface poly line which released a total of 27 barrels (bbls) of produced water into the pasture. Due to location of the release a total of 0 bbls were recovered. The water transfer pumps were shut in and a section of the surface poly line was replaced.

Site Assessment and Remediation Activities

H&R mobilized personnel to begin site assessment, sampling, and remediation activities of the pasture release area. Grab samples were obtained by way of test trenching 3 spots within the release area to achieve vertical delineation. Field chloride titrations were performed as well as transported to Cardinal Laboratories for analysis. Laboratory analysis results are presented in the following table. Initial test trench locations are illustrated on Test Trench Map, [Appendix I](#). After remediation was complete, 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: Initial Test 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	1000 mg/kg		2500 mg/kg	2500 mg/kg	mg/kg
TT-1	8/16/2022	0-1'	ND	ND	ND	ND	ND	0	7920
		2'	ND	ND	ND	ND	ND	0	14800
		3'	ND	ND	ND	ND	ND	0	17200
		4'	ND	ND	ND	ND	ND	0	13300
		6'	ND	ND	ND	ND	ND	0	1460
		8'	ND	ND	ND	ND	ND	0	128
TT-2	8/16/2022	0-1'	ND	ND	ND	ND	ND	0	3320
		2'	ND	ND	ND	ND	ND	0	14400
		3'	ND	ND	ND	ND	ND	0	4160
		4'	ND	ND	ND	ND	ND	0	1540
		6'	ND	ND	ND	ND	ND	0	192
TT-3	8/16/2022	0-1'	ND	ND	ND	ND	ND	0	10400
		2'	ND	ND	ND	ND	ND	0	10900
		3'	ND	ND	ND	ND	ND	0	8130
		4'	ND	ND	ND	ND	ND	0	7060
		6'	ND	ND	ND	ND	ND	0	192
ND = Analyte Not Detected TT = Test Trench									

Based on the results of our site assessment and upon client authorization, further excavation activities of the release 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	1000 mg/kg		2500 mg/kg	2500 mg/kg	10,000 mg/kg
S-1	8/25/2022	5'	ND	ND	ND	ND	ND	0	5840
S-2	8/25/2022	5'	ND	ND	ND	ND	ND	0	5200
S-3	8/25/2022	5'	ND	ND	ND	ND	ND	0	5520
S-4	8/25/2022	4'	ND	ND	ND	ND	ND	0	6320
S-5	8/25/2022	4'	ND	ND	ND	ND	ND	0	6000
S-6	8/25/2022	4'	ND	ND	ND	ND	ND	0	6080
S-7	8/25/2022	4'	ND	ND	ND	ND	ND	0	6560
S-8	8/25/2022	4'	ND	ND	ND	ND	ND	0	7520
S-9	8/25/2022	4'	ND	ND	ND	ND	ND	0	6800
S-10	8/25/2022	4'	ND	ND	ND	ND	ND	0	5760
S-11	8/25/2022	4'	ND	ND	ND	ND	ND	0	6320
S-12	8/25/2022	4'	ND	ND	ND	ND	ND	0	6800
S-13	8/25/2022	4'	ND	ND	ND	ND	ND	0	6320
S-14	8/25/2022	4'	ND	ND	ND	ND	ND	0	5920
S-15	8/25/2022	4'	ND	ND	ND	ND	ND	0	6320
S-16	8/25/2022	4'	ND	ND	ND	ND	ND	0	2880
S-17	8/25/2022	4'	ND	ND	ND	ND	ND	0	2720
S-18	8/25/2022	4'	ND	ND	ND	ND	ND	0	2960
S-19	8/25/2022	4'	ND	ND	ND	ND	ND	0	2600
S-20	8/25/2022	4'	ND	ND	ND	ND	ND	0	3400
S-21	8/25/2022	4'	ND	ND	ND	ND	ND	0	3400
S-22	8/25/2022	4'	ND	ND	ND	ND	ND	0	2720
S-23	8/25/2022	4'	ND	ND	ND	ND	ND	0	2720
S-24	8/25/2022	4'	ND	ND	ND	ND	ND	0	3240
S-25	8/25/2022	4'	ND	ND	ND	ND	ND	0	3560
S-26	8/25/2022	4'	ND	ND	ND	ND	ND	0	3240
S-27	8/25/2022	4'	ND	ND	ND	ND	ND	0	3560
S-28	8/25/2022	4'	ND	ND	ND	ND	ND	0	3080
S-29	8/25/2022	4'	ND	ND	ND	ND	ND	0	3320
S-30	8/25/2022	4'	ND	ND	ND	ND	ND	0	3040
S-31	8/25/2022	4'	ND	ND	ND	ND	ND	0	3000
S-32	8/25/2022	4'	ND	ND	ND	ND	ND	0	2800
ND = Analyte Not Detected									

Table 2: Confirmation Soil Sample Analysis Continued

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	1000 mg/kg		2500 mg/kg	2500 mg/kg	mg/kg
SW-1	8/25/2022	5'	ND	ND	ND	ND	ND	0	1400
	9/1/2022	5'	ND	ND	ND	ND	ND	0	80
SW-2	8/25/2022	5'	ND	ND	ND	ND	ND	0	1180
	9/1/2022	5'	ND	ND	ND	ND	ND	0	144
SW-3	8/25/2022	4'	ND	ND	ND	ND	ND	0	1570
	9/1/2022	4'	ND	ND	ND	ND	ND	0	32
SW-4	8/25/2022	4'	ND	ND	ND	ND	ND	0	1410
	9/1/2022	4'	ND	ND	ND	ND	ND	0	48
SW-5	8/25/2022	4'	ND	ND	ND	ND	ND	0	656
	9/1/2022	4'	ND	ND	ND	ND	ND	0	80
SW-6	8/25/2022	4'	ND	ND	ND	ND	ND	0	1540
	9/1/2022	4'	ND	ND	ND	ND	ND	0	224
SW-7	8/25/2022	4'	ND	ND	ND	ND	ND	0	1570
	9/1/2022	4'	ND	ND	ND	ND	ND	0	208
SW-8	8/25/2022	4'	ND	ND	ND	ND	ND	0	1490
	9/1/2022	4'	ND	ND	ND	ND	ND	0	240
SW-9	8/25/2022	5'	ND	ND	ND	ND	ND	0	128
BG-1	8/25/2022	0-1'	ND	ND	ND	ND	ND	0	16
BG-2	8/25/2022	0-1'	ND	ND	ND	ND	ND	0	32
BG-3	8/25/2022	0-1'	ND	ND	ND	ND	ND	0	16
BG-4	8/25/2022	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 through S-3 were excavated to a total depth of 5-feet BGS.
- The areas near sample points S-4 through S-32 were excavated to 4-feet BGS.
- Composite confirmation samples were obtained from the sidewalls and bottoms of the excavated areas to verify that all contaminants above closure criteria had been removed. Sidewall sample locations SW-1 through SW-8 were excavated 3-feet further horizontally and resampled. The results are shown on Table 2 and the corresponding lab reports may be found in [Appendix VI](#).
- All the excavated material (1,500yds) was hauled to Lea Land, a NMOCD approved solid waste disposal facility.
- The excavated area of the pasture was backfilled with clean topsoil 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

A handwritten signature in black ink, appearing to read "Michael Collier". The signature is fluid and cursive, with the first name "Michael" and last name "Collier" clearly distinguishable.

Michael Collier
Environmental Project Manager

Attachments:

Appendix I Site Maps

Appendix II Soil Survey, Groundwater Data, Exploratory Water Bore Log, FEMA Flood Zone

Appendix III Initial and Final C-141, NMOCD Correspondence

Appendix IV Photographic Documentation

Appendix V Laboratory Data

APPENDIX I

SITE MAPS

KARST MAP



TOPOGRAPHIC MAP

LOCATOR MAP

Southern California 29 Federal 16H-18H

Cimarex Energy Co. of Colorado
Incident# nAPP2222152069
Lea County, NM
Test Trench Map

Legend

-  Initial Spill Boundary
-  Test Trench





80 ft

Southern California 29 Federal 16H-18H

Cimarex Energy Co. of Colorado
Incident# nAPP2222152069
Lea County, NM
Confirmation Sample Map

Legend

-  4-5ft. Excavation
-  Composite Confirmation Sample



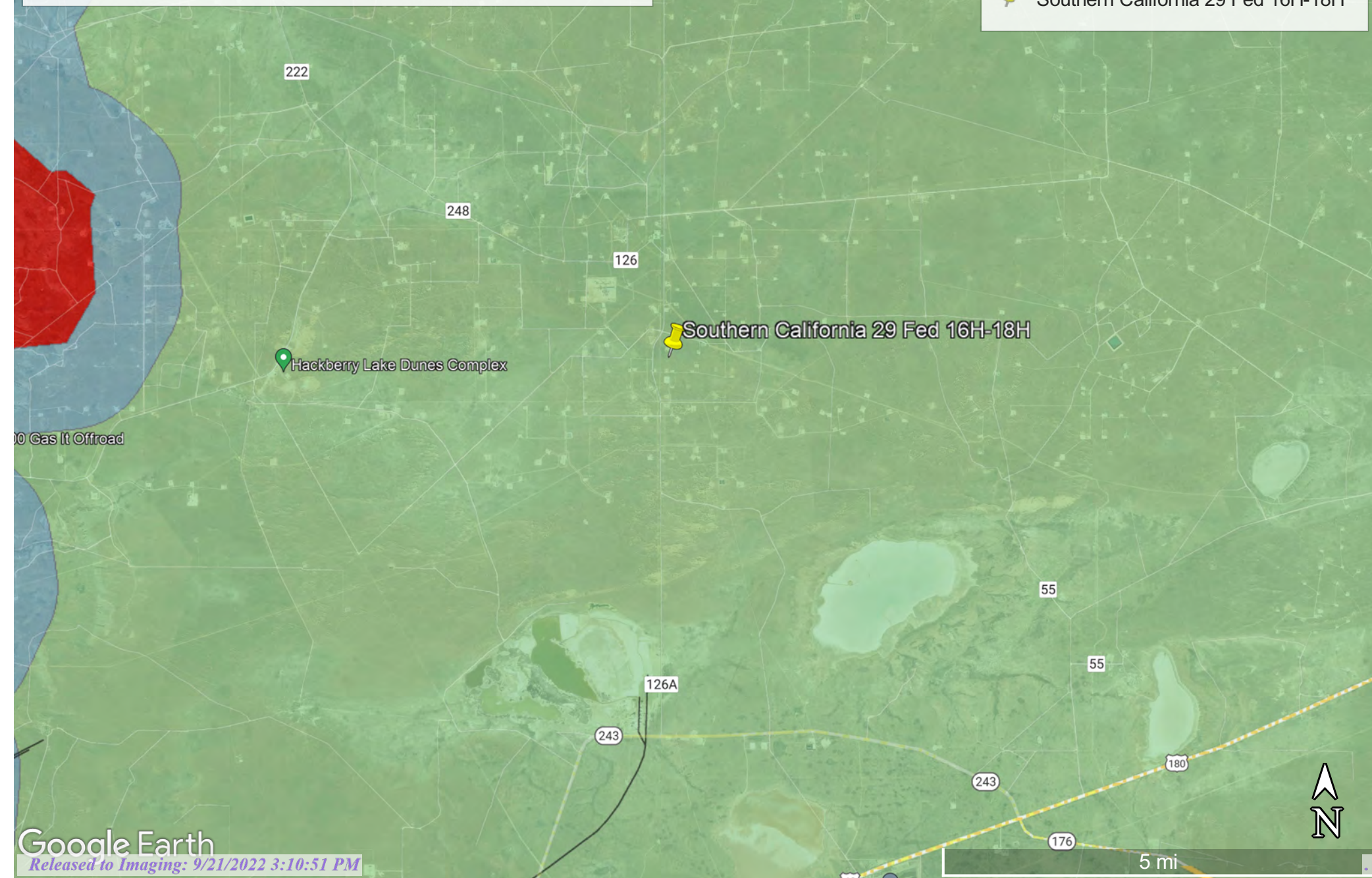
80 ft

Southern California 29 Federal 16H-18H

Cimarex Energy Co. of Colorado
Incident# nAPP2222152069
Lea County, NM
Karst Map

Legend

- High
- Low
- Medium
- Southern California 29 Fed 16H-18H

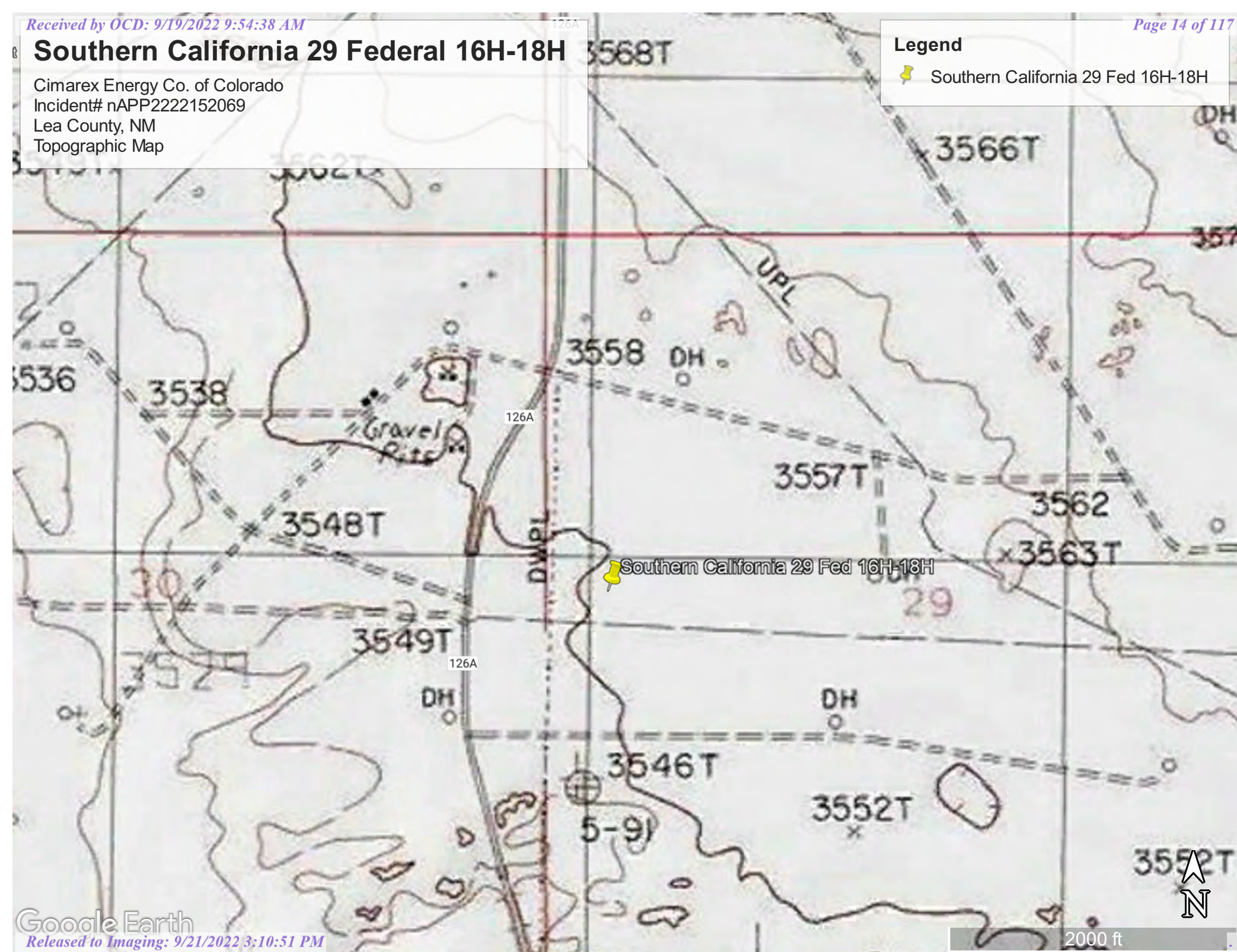


Southern California 29 Federal 16H-18H

Cimarex Energy Co. of Colorado
Incident# nAPP2222152069
Lea County, NM
Topographic Map

Legend


 Southern California 29 Fed 16H-18H

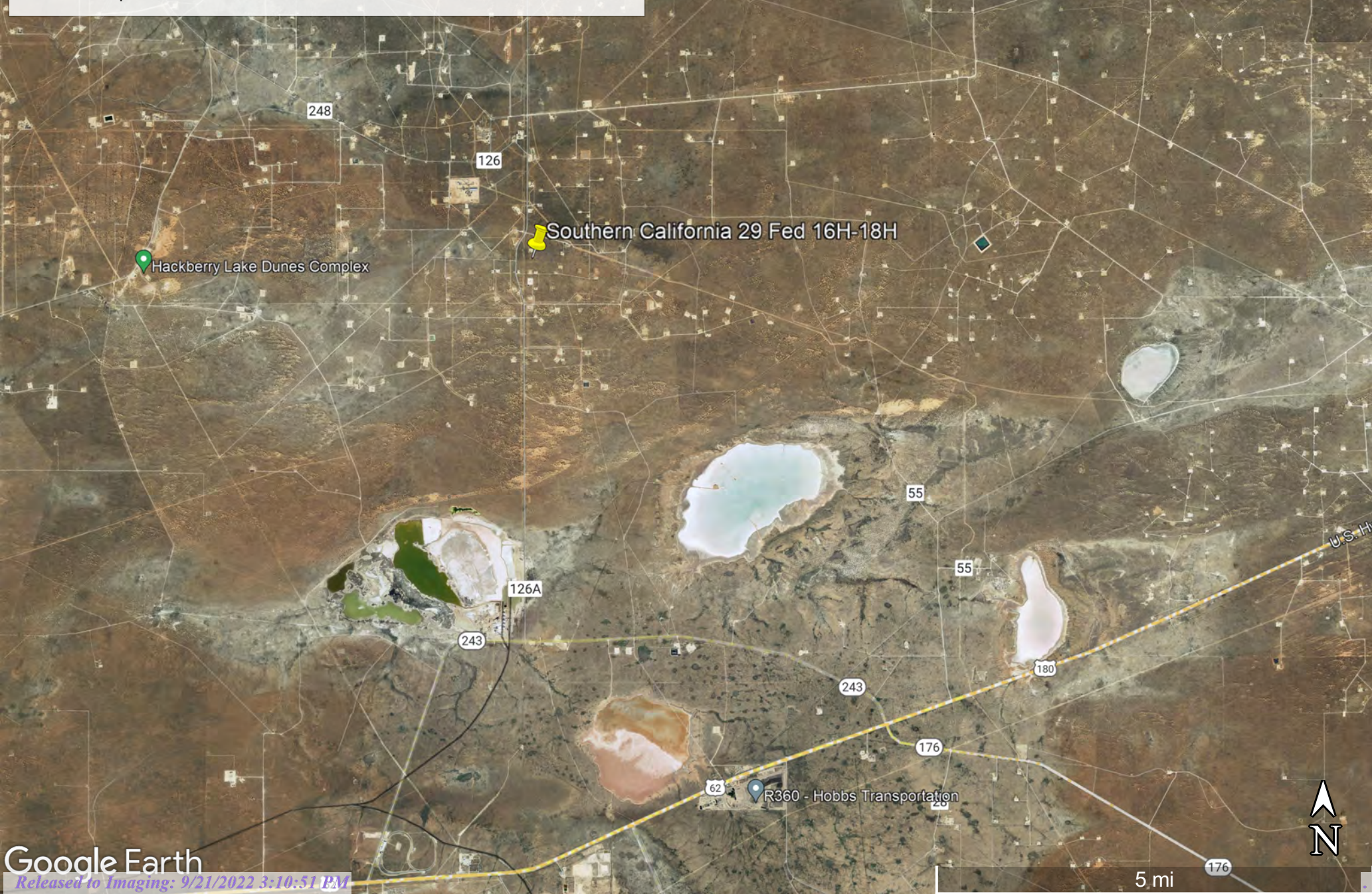


Southern California 29 Federal 16H-18H

Cimarex Energy Co. of Colorado
Incident# nAPP2222152069
Lea County, NM
Locator Map

Legend

 Southern California 29 Fed 16H-18H



APPENDIX II

GROUNDWATER DATA

SOIL SURVEY

FEMA FLOOD ZONE

WATER BORE MAP

SOIL BORE LOG



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
CP.00639 POD1		CP	LE	3	1	20	19S	32E	613029	3612880*		1765	350	345	5
CP.00640 POD1		CP	LE	2	2	19	19S	32E	612621	3613280*		2196	260	102	158
CP.00563 POD1		CP	LE	1	1	2	19S	32E	612118	3613376*		2423	300		
CP.01656 POD3		CP	LE	3	4	3	17	19S	32E	613374	3613633		2547	30	
CP.01656 POD1		CP	LE	3	4	3	17	19S	32E	613368	3613646		2559	70	
CP.01656 POD2		CP	LE	3	4	3	17	19S	32E	613364	3613648		2560	70	

Average Depth to Water: **223 feet**

Minimum Depth: **102 feet**

Maximum Depth: **345 feet**

Record Count: 6

Basin/County Search:

County: Lea

UTMNAD83 Radius Search (in meters):

Easting (X): 612990.59

Northing (Y): 3611114.83

Radius: 3000

*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.

9/8/22 11:26 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER

Map Unit Description: Tonuco loamy fine sand, 0 to 3 percent slopes---Lea County, New Mexico

Lea County, New Mexico

TF—Tonuco loamy fine sand, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 2tw3c

Elevation: 3,280 to 4,460 feet

Mean annual precipitation: 10 to 16 inches

Mean annual air temperature: 59 to 64 degrees F

Frost-free period: 180 to 220 days

Farmland classification: Not prime farmland

Map Unit Composition

Tonuco and similar soils: 70 percent

Minor components: 30 percent

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

Description of Tonuco

Setting

Landform: Ridges, plains

Landform position (two-dimensional): Shoulder

Landform position (three-dimensional): Rise

Down-slope shape: Convex, linear

Across-slope shape: Linear

Parent material: Sandy eolian deposits

Typical profile

A - 0 to 12 inches: loamy fine sand

Bw - 12 to 17 inches: loamy sand

Bkkm - 17 to 39 inches: cemented material

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: 12 to 20 inches to petrocalcic

Drainage class: Excessively drained

Runoff class: High

Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum content: 2 percent

Gypsum, maximum content: 1 percent

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

Sodium adsorption ratio, maximum: 2.0

Available water supply, 0 to 60 inches: Very low (about 1.4 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Map Unit Description: Tonuco loamy fine sand, 0 to 3 percent slopes---Lea County, New Mexico

Land capability classification (nonirrigated): 7e
Hydrologic Soil Group: D
Ecological site: R077DY048TX - Shallow 12-17" PZ
Hydric soil rating: No

Minor Components

Simona

Percent of map unit: 15 percent
Landform: Ridges, plains
Landform position (two-dimensional): Shoulder
Landform position (three-dimensional): Rise
Down-slope shape: Convex, linear
Across-slope shape: Linear
Ecological site: R042XC002NM - Shallow Sandy
Hydric soil rating: No

Berino

Percent of map unit: 10 percent
Landform: Ridges, plains
Landform position (two-dimensional): Shoulder
Landform position (three-dimensional): Rise
Down-slope shape: Convex, linear
Across-slope shape: Linear
Ecological site: R042XC003NM - Loamy Sand
Hydric soil rating: No

Cacique

Percent of map unit: 5 percent
Landform: Ridges, plains
Landform position (two-dimensional): Shoulder
Landform position (three-dimensional): Rise
Down-slope shape: Convex, linear
Across-slope shape: Linear
Ecological site: R042XC004NM - Sandy
Hydric soil rating: No




Data Source Information


Soil Survey Area: Lea County, New Mexico
Survey Area Data: Version 18, Sep 10, 2021

Southern California 29 Federal 16H-18H

Cimarex Energy Co. of Colorado
Incident# nAPP2222152069
Lea County, NM
Exploratory Water Bore Location Map

Legend

-  Exploratory Water Bore
-  Initial Spill Boundary
-  Southern California 29 Fed 16H-18H

 Exploratory Water Bore

 Southern California 29 Fed 16H-18H



400 ft

CARMONA RESOURCES



Project Name :	Southern California 29 Federal 16H	Date :	Wednesday, August 31, 2022
Project No. :	1122	Sampler :	A. Thielke
Location :	Lea County, New Mexico	Driller :	Scarborough Drilling
Coordinates :	32.63343, -103.77605	Method :	Air Rotary
Elevation :			

Depth (ft.)	WL	Soil Description	Lithology	Depth (ft.)	WL	Soil Description	Lithology
0		Light Brown/Red Silty Sand. Poorly Cemented.		50		Red Bed Clay w/Sand 70% Clay 30% Sand. Dark Red Dry. Poorly Sorted Poorly Cemented	
3							
5		Well Cemented White/Grey Medium grained Caliche/Gravel w/Silty Sand. Well Sorted.		55			
10		Well Cemented light brown Medium grained Caliche/Gravel w/Silty Sand. Well Sorted.		60		TD: 55'	
15		Red/Brown Silty Sand w/ 20% Caliche/Gravel Fragments. Poorly Cemented. Poorly Sorted.		65			
20				70			
25				75			
30		Light Brown/Pink Silt Sand Poorly Cemented. Poorly Sorted. Very Fine Grained.		80			
35				85			
40				90			
45				95			
50				105			

Comments : Boring terminated at 55' at 10:00 Central Time with no presence of groundwater or moisture, checked for moisture on 9/7/2022. No moisture present.

National Flood Hazard Layer FIRMette



103°48'1"W 32°38'10"N



Legend

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

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone D
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
		Area of Undetermined Flood Hazard Zone D
GENERAL STRUCTURES		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5 Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
		Profile 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 9/15/2022 at 8:06 AM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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

APPENDIX III

INITIAL C-141

FINAL C-141

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	nAPP2222152069
District RP	
Facility ID	
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) nAPP2222152069
Contact mailing address: 600 N Marienfeld Street, Ste. 600 Midland, TX 79701	

Location of Release Source

Latitude 32.631924 _____ Longitude -103.795200 _____
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Southern California 29 Federal 16H-18H	Site Type: Pasture
Date Release Discovered: 8/8/2022	API# (if applicable)

Unit Letter	Section	Township	Range	County
E	29	19S	32E	Lea

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) 27	Volume Recovered (bbls) 0
	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: Equipment Failure

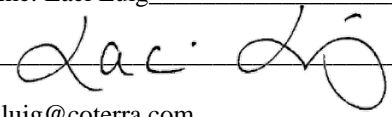
A 3" surface poly line developed a hole and released 27 barrels produced water into the pasture. We were unable to recover any impact due to the location of the spill. The water transfer pumps were shut in until the section of poly could be replaced. The impacted area is scheduled to be remediated immediately.

Incident ID	nAPP2222152069
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? Total amount of release greater than 25 barrels.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? By: Laci Luig 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: 8/9/2022
email: laci.luig@coterra.com	Telephone: (432) 208-3035
<u>OCD Only</u>	
Received by: Jocelyn Harimon	Date: 09/19/2022

Incident ID	nAPP2222152069
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>345</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 type="checkbox"/> Yes <input checked="" 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 not 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

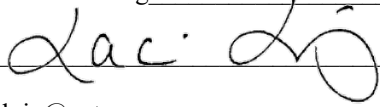
If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, 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	nAPP2222152069
District RP	
Facility ID	
Application ID	

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

Printed Name: Laci Luig _____ Title: ESH Specialist _____
Signature:  _____ Date: 9/16/2022 _____
email: laci.luig@coterra.com _____ Telephone: (432) 208-3035 _____

OCD Only

Received by: Jocelyn Harimon _____ Date: 09/19/2022 _____

Incident ID	nAPP2222152069
District RP	
Facility ID	
Application ID	

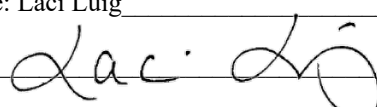
Closure

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

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

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

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

Printed Name: Laci Luig _____ Title: ESH Specialist _____
Signature:  _____ Date: 9/16/2022 _____
email: laci.luig@coterra.com _____ Telephone: (432) 208-3035 _____

OCD Only

Received by: Jocelyn Harimon _____ Date: 09/19/2022 _____

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:  _____ Date: 09/21/2022 _____
Printed Name: Jennifer Nobui _____ Title: Environmental Specialist A _____

From: [Laci Luig](#)
To: [NMOCD Spill Notifications](#); [BLM NM CFO Spill](#)
Cc: [Jim Hawley](#); [Michael Collier](#)
Subject: nAPP2213664988 - Irwin 23-14 Federal 3H confirmation sampling
Date: Thursday, September 1, 2022 1:45:09 PM

This email serves as notification for confirmation sampling on the Irwin 23-14 Federal 3H. Sampling is scheduled to begin as early as September 6th, weather and soil conditions permitting. H&R Enterprises will be onsite for confirmation sampling.

Thank you,



Laci Luig | Environmental Safety & Health Specialist
T: 432.571.7810 | M: 432.208.3035 | laci.luig@coterra.com | 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.

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APPENDIX IV

PHOTOGRAPHIC DOCUMENTATION

PHOTOGRAPHIC DOCUMENTATION



APPENDIX V

LABORATORY REPORTS



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

August 18, 2022

MICHAEL COLLIER

H & R ENTERPRISES

1010 GAMBLIN ROAD

HOBBS, NM 88240

RE: SOUTHERN CALI 29 FED 16

Enclosed are the results of analyses for samples received by the laboratory on 08/17/22 8:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/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: 08/17/2022
 Reported: 08/18/2022
 Project Name: SOUTHERN CALI 29 FED 16
 Project Number: NONE GIVEN
 Project Location: CIMAREX

Sampling Date: 08/16/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: TT - 1 0-1' (H223750-01)

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	08/17/2022	ND	2.11	105	2.00	9.48	
Toluene*	<0.050	0.050	08/17/2022	ND	2.05	102	2.00	9.73	
Ethylbenzene*	<0.050	0.050	08/17/2022	ND	2.00	99.8	2.00	9.71	
Total Xylenes*	<0.150	0.150	08/17/2022	ND	6.18	103	6.00	8.37	
Total BTEX	<0.300	0.300	08/17/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	7920	16.0	08/17/2022	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	08/17/2022	ND	212	106	200	5.28	
DRO >C10-C28*	<10.0	10.0	08/17/2022	ND	201	101	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	08/17/2022	ND					

Surrogate: 1-Chlorooctane 81.6 % 43-149

Surrogate: 1-Chlorooctadecane 98.2 % 42.5-161

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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: 08/17/2022
 Reported: 08/18/2022
 Project Name: SOUTHERN CALI 29 FED 16
 Project Number: NONE GIVEN
 Project Location: CIMAREX

Sampling Date: 08/16/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: TT - 1 2' (H223750-02)

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	08/17/2022	ND	2.11	105	2.00	9.48	
Toluene*	<0.050	0.050	08/17/2022	ND	2.05	102	2.00	9.73	
Ethylbenzene*	<0.050	0.050	08/17/2022	ND	2.00	99.8	2.00	9.71	
Total Xylenes*	<0.150	0.150	08/17/2022	ND	6.18	103	6.00	8.37	
Total BTX	<0.300	0.300	08/17/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	14800	16.0	08/17/2022	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	08/17/2022	ND	212	106	200	5.28	
DRO >C10-C28*	<10.0	10.0	08/17/2022	ND	201	101	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	08/17/2022	ND					

Surrogate: 1-Chlorooctane 81.9 % 43-149

Surrogate: 1-Chlorooctadecane 98.3 % 42.5-161

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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: 08/17/2022
 Reported: 08/18/2022
 Project Name: SOUTHERN CALI 29 FED 16
 Project Number: NONE GIVEN
 Project Location: CIMAREX

Sampling Date: 08/16/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: TT - 1 3' (H223750-03)

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	08/17/2022	ND	2.11	105	2.00	9.48	
Toluene*	<0.050	0.050	08/17/2022	ND	2.05	102	2.00	9.73	
Ethylbenzene*	<0.050	0.050	08/17/2022	ND	2.00	99.8	2.00	9.71	
Total Xylenes*	<0.150	0.150	08/17/2022	ND	6.18	103	6.00	8.37	
Total BTX	<0.300	0.300	08/17/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	17200	16.0	08/17/2022	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	08/17/2022	ND	212	106	200	5.28	
DRO >C10-C28*	<10.0	10.0	08/17/2022	ND	201	101	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	08/17/2022	ND					

Surrogate: 1-Chlorooctane 78.9 % 43-149

Surrogate: 1-Chlorooctadecane 95.4 % 42.5-161

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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: 08/17/2022
 Reported: 08/18/2022
 Project Name: SOUTHERN CALI 29 FED 16
 Project Number: NONE GIVEN
 Project Location: CIMAREX

Sampling Date: 08/16/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: TT - 1 4' (H223750-04)

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	08/17/2022	ND	2.11	105	2.00	9.48	
Toluene*	<0.050	0.050	08/17/2022	ND	2.05	102	2.00	9.73	
Ethylbenzene*	<0.050	0.050	08/17/2022	ND	2.00	99.8	2.00	9.71	
Total Xylenes*	<0.150	0.150	08/17/2022	ND	6.18	103	6.00	8.37	
Total BTX	<0.300	0.300	08/17/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	13300	16.0	08/17/2022	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	08/17/2022	ND	212	106	200	5.28	
DRO >C10-C28*	<10.0	10.0	08/17/2022	ND	201	101	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	08/17/2022	ND					

Surrogate: 1-Chlorooctane 74.9 % 43-149

Surrogate: 1-Chlorooctadecane 90.9 % 42.5-161

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*=Accredited Analyte

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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: 08/17/2022
 Reported: 08/18/2022
 Project Name: SOUTHERN CALI 29 FED 16
 Project Number: NONE GIVEN
 Project Location: CIMAREX

Sampling Date: 08/16/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: TT - 1 6' (H223750-05)

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	08/17/2022	ND	2.11	105	2.00	9.48	
Toluene*	<0.050	0.050	08/17/2022	ND	2.05	102	2.00	9.73	
Ethylbenzene*	<0.050	0.050	08/17/2022	ND	2.00	99.8	2.00	9.71	
Total Xylenes*	<0.150	0.150	08/17/2022	ND	6.18	103	6.00	8.37	
Total BTEX	<0.300	0.300	08/17/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1460	16.0	08/17/2022	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	08/17/2022	ND	212	106	200	5.28	
DRO >C10-C28*	<10.0	10.0	08/17/2022	ND	201	101	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	08/17/2022	ND					

Surrogate: 1-Chlorooctane 78.1 % 43-149

Surrogate: 1-Chlorooctadecane 94.8 % 42.5-161

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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: 08/17/2022
 Reported: 08/18/2022
 Project Name: SOUTHERN CALI 29 FED 16
 Project Number: NONE GIVEN
 Project Location: CIMAREX

Sampling Date: 08/16/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: TT - 1 8' (H223750-06)

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	08/17/2022	ND	2.11	105	2.00	9.48		
Toluene*	<0.050	0.050	08/17/2022	ND	2.05	102	2.00	9.73		
Ethylbenzene*	<0.050	0.050	08/17/2022	ND	2.00	99.8	2.00	9.71		
Total Xylenes*	<0.150	0.150	08/17/2022	ND	6.18	103	6.00	8.37		
Total BTEx	<0.300	0.300	08/17/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	08/17/2022	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	08/17/2022	ND	212	106	200	5.28	
DRO >C10-C28*	<10.0	10.0	08/17/2022	ND	201	101	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	08/17/2022	ND					

Surrogate: 1-Chlorooctane 84.8 % 43-149

Surrogate: 1-Chlorooctadecane 103 % 42.5-161

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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: 08/17/2022
 Reported: 08/18/2022
 Project Name: SOUTHERN CALI 29 FED 16
 Project Number: NONE GIVEN
 Project Location: CIMAREX

Sampling Date: 08/16/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: TT - 2 0-1' (H223750-07)

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	08/17/2022	ND	2.11	105	2.00	9.48	
Toluene*	<0.050	0.050	08/17/2022	ND	2.05	102	2.00	9.73	
Ethylbenzene*	<0.050	0.050	08/17/2022	ND	2.00	99.8	2.00	9.71	
Total Xylenes*	<0.150	0.150	08/17/2022	ND	6.18	103	6.00	8.37	
Total BTX	<0.300	0.300	08/17/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3320	16.0	08/17/2022	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	08/17/2022	ND	212	106	200	5.28	
DRO >C10-C28*	<10.0	10.0	08/17/2022	ND	201	101	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	08/17/2022	ND					

Surrogate: 1-Chlorooctane 83.5 % 43-149

Surrogate: 1-Chlorooctadecane 99.6 % 42.5-161

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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: 08/17/2022
 Reported: 08/18/2022
 Project Name: SOUTHERN CALI 29 FED 16
 Project Number: NONE GIVEN
 Project Location: CIMAREX

Sampling Date: 08/16/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: TT - 2 2' (H223750-08)

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	08/17/2022	ND	2.11	105	2.00	9.48	
Toluene*	<0.050	0.050	08/17/2022	ND	2.05	102	2.00	9.73	
Ethylbenzene*	<0.050	0.050	08/17/2022	ND	2.00	99.8	2.00	9.71	
Total Xylenes*	<0.150	0.150	08/17/2022	ND	6.18	103	6.00	8.37	
Total BTX	<0.300	0.300	08/17/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	14400	16.0	08/18/2022	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	08/17/2022	ND	212	106	200	5.28	
DRO >C10-C28*	<10.0	10.0	08/17/2022	ND	201	101	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	08/17/2022	ND					

Surrogate: 1-Chlorooctane 76.2 % 43-149

Surrogate: 1-Chlorooctadecane 91.2 % 42.5-161

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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: 08/17/2022
 Reported: 08/18/2022
 Project Name: SOUTHERN CALI 29 FED 16
 Project Number: NONE GIVEN
 Project Location: CIMAREX

Sampling Date: 08/16/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: TT - 2 3' (H223750-09)

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	08/17/2022	ND	2.11	105	2.00	9.48		
Toluene*	<0.050	0.050	08/17/2022	ND	2.05	102	2.00	9.73		
Ethylbenzene*	<0.050	0.050	08/17/2022	ND	2.00	99.8	2.00	9.71		
Total Xylenes*	<0.150	0.150	08/17/2022	ND	6.18	103	6.00	8.37		
Total BTEx	<0.300	0.300	08/17/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4160	16.0	08/18/2022	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	08/17/2022	ND	212	106	200	5.28	
DRO >C10-C28*	<10.0	10.0	08/17/2022	ND	201	101	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	08/17/2022	ND					

Surrogate: 1-Chlorooctane 76.6 % 43-149

Surrogate: 1-Chlorooctadecane 92.1 % 42.5-161

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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: 08/17/2022
 Reported: 08/18/2022
 Project Name: SOUTHERN CALI 29 FED 16
 Project Number: NONE GIVEN
 Project Location: CIMAREX

Sampling Date: 08/16/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: TT - 2 4' (H223750-10)

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	08/17/2022	ND	2.11	105	2.00	9.48	
Toluene*	<0.050	0.050	08/17/2022	ND	2.05	102	2.00	9.73	
Ethylbenzene*	<0.050	0.050	08/17/2022	ND	2.00	99.8	2.00	9.71	
Total Xylenes*	<0.150	0.150	08/17/2022	ND	6.18	103	6.00	8.37	
Total BTX	<0.300	0.300	08/17/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1540	16.0	08/18/2022	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	08/17/2022	ND	212	106	200	5.28	
DRO >C10-C28*	<10.0	10.0	08/17/2022	ND	201	101	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	08/17/2022	ND					

Surrogate: 1-Chlorooctane 80.8 % 43-149

Surrogate: 1-Chlorooctadecane 97.0 % 42.5-161

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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: 08/17/2022
 Reported: 08/18/2022
 Project Name: SOUTHERN CALI 29 FED 16
 Project Number: NONE GIVEN
 Project Location: CIMAREX

Sampling Date: 08/16/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: TT - 2 6' (H223750-11)

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	08/17/2022	ND	2.11	105	2.00	9.48	
Toluene*	<0.050	0.050	08/17/2022	ND	2.05	102	2.00	9.73	
Ethylbenzene*	<0.050	0.050	08/17/2022	ND	2.00	99.8	2.00	9.71	
Total Xylenes*	<0.150	0.150	08/17/2022	ND	6.18	103	6.00	8.37	
Total BTX	<0.300	0.300	08/17/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	08/18/2022	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	08/17/2022	ND	212	106	200	5.28	
DRO >C10-C28*	<10.0	10.0	08/17/2022	ND	201	101	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	08/17/2022	ND					

Surrogate: 1-Chlorooctane 81.8 % 43-149

Surrogate: 1-Chlorooctadecane 97.8 % 42.5-161

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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: 08/17/2022
 Reported: 08/18/2022
 Project Name: SOUTHERN CALI 29 FED 16
 Project Number: NONE GIVEN
 Project Location: CIMAREX

Sampling Date: 08/16/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: TT - 3 0-1' (H223750-12)

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	08/17/2022	ND	2.11	105	2.00	9.48	
Toluene*	<0.050	0.050	08/17/2022	ND	2.05	102	2.00	9.73	
Ethylbenzene*	<0.050	0.050	08/17/2022	ND	2.00	99.8	2.00	9.71	
Total Xylenes*	<0.150	0.150	08/17/2022	ND	6.18	103	6.00	8.37	
Total BTX	<0.300	0.300	08/17/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	10400	16.0	08/18/2022	ND	448	112	400	3.64	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	08/17/2022	ND	212	106	200	5.28	
DRO >C10-C28*	<10.0	10.0	08/17/2022	ND	201	101	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	08/17/2022	ND					

Surrogate: 1-Chlorooctane 79.3 % 43-149

Surrogate: 1-Chlorooctadecane 95.7 % 42.5-161

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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: 08/17/2022
 Reported: 08/18/2022
 Project Name: SOUTHERN CALI 29 FED 16
 Project Number: NONE GIVEN
 Project Location: CIMAREX

Sampling Date: 08/16/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: TT - 3 2' (H223750-13)

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	08/17/2022	ND	2.11	105	2.00	9.48	
Toluene*	<0.050	0.050	08/17/2022	ND	2.05	102	2.00	9.73	
Ethylbenzene*	<0.050	0.050	08/17/2022	ND	2.00	99.8	2.00	9.71	
Total Xylenes*	<0.150	0.150	08/17/2022	ND	6.18	103	6.00	8.37	
Total BTX	<0.300	0.300	08/17/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	10900	16.0	08/18/2022	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	08/17/2022	ND	212	106	200	5.28	
DRO >C10-C28*	<10.0	10.0	08/17/2022	ND	201	101	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	08/17/2022	ND					

Surrogate: 1-Chlorooctane 85.6 % 43-149

Surrogate: 1-Chlorooctadecane 102 % 42.5-161

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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: 08/17/2022
 Reported: 08/18/2022
 Project Name: SOUTHERN CALI 29 FED 16
 Project Number: NONE GIVEN
 Project Location: CIMAREX

Sampling Date: 08/16/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: TT - 3 3' (H223750-14)

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	08/17/2022	ND	2.11	105	2.00	9.48		
Toluene*	<0.050	0.050	08/17/2022	ND	2.05	102	2.00	9.73		
Ethylbenzene*	<0.050	0.050	08/17/2022	ND	2.00	99.8	2.00	9.71		
Total Xylenes*	<0.150	0.150	08/17/2022	ND	6.18	103	6.00	8.37		
Total BTEX	<0.300	0.300	08/17/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	8130	16.0	08/18/2022	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	08/17/2022	ND	212	106	200	5.28	
DRO >C10-C28*	<10.0	10.0	08/17/2022	ND	201	101	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	08/17/2022	ND					

Surrogate: 1-Chlorooctane 81.6 % 43-149

Surrogate: 1-Chlorooctadecane 98.3 % 42.5-161

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: 08/17/2022
 Reported: 08/18/2022
 Project Name: SOUTHERN CALI 29 FED 16
 Project Number: NONE GIVEN
 Project Location: CIMAREX

Sampling Date: 08/16/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: TT - 3 4' (H223750-15)

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	08/17/2022	ND	2.11	105	2.00	9.48	
Toluene*	<0.050	0.050	08/17/2022	ND	2.05	102	2.00	9.73	
Ethylbenzene*	<0.050	0.050	08/17/2022	ND	2.00	99.8	2.00	9.71	
Total Xylenes*	<0.150	0.150	08/17/2022	ND	6.18	103	6.00	8.37	
Total BTX	<0.300	0.300	08/17/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	7060	16.0	08/18/2022	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	08/17/2022	ND	212	106	200	5.28	
DRO >C10-C28*	<10.0	10.0	08/17/2022	ND	201	101	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	08/17/2022	ND					

Surrogate: 1-Chlorooctane 82.7 % 43-149

Surrogate: 1-Chlorooctadecane 99.9 % 42.5-161

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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: 08/17/2022
 Reported: 08/18/2022
 Project Name: SOUTHERN CALI 29 FED 16
 Project Number: NONE GIVEN
 Project Location: CIMAREX

Sampling Date: 08/16/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: TT - 3 6' (H223750-16)

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	08/17/2022	ND	2.11	105	2.00	9.48		
Toluene*	<0.050	0.050	08/17/2022	ND	2.05	102	2.00	9.73		
Ethylbenzene*	<0.050	0.050	08/17/2022	ND	2.00	99.8	2.00	9.71		
Total Xylenes*	<0.150	0.150	08/17/2022	ND	6.18	103	6.00	8.37		
Total BTEx	<0.300	0.300	08/17/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	08/18/2022	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	08/17/2022	ND	212	106	200	5.28	
DRO >C10-C28*	<10.0	10.0	08/17/2022	ND	201	101	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	08/17/2022	ND					

Surrogate: 1-Chlorooctane 78.8 % 43-149

Surrogate: 1-Chlorooctadecane 93.6 % 42.5-161

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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".

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: ABC ENTERPRISES		BILL TO		ANALYSIS REQUEST																	
Project Manager: MICHAEL COLLIER		P.O. #:																			
Address:		Company: CMARCO																			
City:		Attn: LAUREN																			
State:		Address:																			
Zip:		City:																			
Phone #:		State:																			
Fax #:		Zip:																			
Project #:		Phone #:																			
Project Name:		Fax #:																			
Project Location: SOUTHERN CAL. STATION 16																					
Sample Name: POY BSL																					
FOR LAB USE ONLY																					
Lab I.D. HA23750		Sample I.D.		(G)RAB OR (C)OMP.		MATRIX		PRESERV.		SAMPLING											
				# CONTAINERS																	
				GROUNDWATER																	
				WASTEWATER																	
				SOIL																	
				OIL																	
				SLUDGE																	
				OTHER :																	
				ACID/BASE:																	
				ICE / COOL																	
				OTHER :																	
				DATE		TIME															
TT-1 0-1'		<input checked="" type="checkbox"/>		8/16		9:00A						CL/10R/DSS									
TT-1 1-3'		<input checked="" type="checkbox"/>		8/16		9:05A						TPX									
TT-1 1-4'		<input checked="" type="checkbox"/>		8/16		9:10A						PTGX									
TT-1 1-6'		<input checked="" type="checkbox"/>		8/16		9:15A															
TT-1 1-8'		<input checked="" type="checkbox"/>		8/16		9:20A															
TT-2 0-1'		<input checked="" type="checkbox"/>		8/16		9:25A															
TT-2 2-3'		<input checked="" type="checkbox"/>		8/16		10:00A															
TT-2 3-4'		<input checked="" type="checkbox"/>		8/16		10:05															
TT-2 4-5'		<input checked="" type="checkbox"/>		8/16		10:10															
TT-2 5-6'		<input checked="" type="checkbox"/>		8/16		10:15															

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Relinquished By: [Signature]		Date: 8/17		Received By: [Signature]		Date: 8/17		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:	
Relinquished By: [Signature]		Time: 8:00am		Received By: [Signature]		Time: 8:00am		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:	
Delivered By: (Circle One) UPS		Time: 10:15		Sample Condition: Intact		CHECKED BY: [Signature]		REMARKS: 48 HR. EUSN!			
Sampler - UPS - Bus - Other: 5-52 #113		Cool Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Intact Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>							



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: ADR ENVIRONMENTAL		BILL TO		P.O. #:		ANALYSIS REQUEST	
Project Manager: MICHAEL COLLIER							
Address:		State:		Zip:		Company:	
City:		Attn:					
Phone #:		Fax #:				Address:	
Project #:		Project Owner: CIMARRON		City:			
Project Name: SOUTHERN CALI 29 FEA 1e				State:		Zip:	
Project Location:				Phone #:			
Sampler Name: ROY RILEY		Fax #:					
<small>FOR LAB USE ONLY</small>							
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX		PRESERV	SAMPLING
				GROUNDWATER			
				WASTEWATER			
				SOIL			
				OIL			
				SLUDGE			
				OTHER :			
				ACID/BASE:			
				ICE / COOL			
				OTHER :			
				DATE	TIME		
HBA3750	TT-2 6'	/		8/16	10:30	CL/HOR/DSS	
11	TT-3 0-1'	/		8/16	1:00P	TPH	
12	TT-3 2'	/		8/16	1:05P		
13	TT-3 3'	/		8/16	1:10P		
14	TT-3 4'	/		8/16	1:15P		
15	TT-3 5'	/		8/16	1:20P		
16	TT-3 6'	/		8/16	1:20P		
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Relinquished By:	Date: 8/17	Received By:	Time: 8:00am	Phone Result:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:	
Relinquished By:	Date:	Received By:	Time:	Fax Result:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Fax #:	
Delivered By: (Circle One) UPS - Other	Sample Condition:	CHECKED BY:	REMARKS:				
10:12 C.O.C.	Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	SR	48 HR PUSH!				

* Cardinal cannot accept verbal changes. Please fax written changes to (575) 223-2300.



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

August 29, 2022

MICHAEL COLLIER

H & R ENTERPRISES

1010 GAMBLIN ROAD

HOBBS, NM 88240

RE: SOUTHERN CALI 29 FED 16H

Enclosed are the results of analyses for samples received by the laboratory on 08/25/22 14:48.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/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: 08/25/2022
 Reported: 08/29/2022
 Project Name: SOUTHERN CALI 29 FED 16H
 Project Number: (SC - 29)
 Project Location: CIMAREX - LEA CO NM

Sampling Date: 08/25/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 1 5' (H223921-01)

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	08/26/2022	ND	2.15	107	2.00	4.03	
Toluene*	<0.050	0.050	08/26/2022	ND	2.08	104	2.00	4.40	
Ethylbenzene*	<0.050	0.050	08/26/2022	ND	2.03	101	2.00	4.08	
Total Xylenes*	<0.150	0.150	08/26/2022	ND	6.23	104	6.00	4.28	
Total BTEX	<0.300	0.300	08/26/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5840	16.0	08/26/2022	ND	416	104	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	08/25/2022	ND	206	103	200	4.27	
DRO >C10-C28*	<10.0	10.0	08/25/2022	ND	215	107	200	1.24	
EXT DRO >C28-C36	<10.0	10.0	08/25/2022	ND					

Surrogate: 1-Chlorooctane 92.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 97.4 % 46.3-178

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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: 08/25/2022
 Reported: 08/29/2022
 Project Name: SOUTHERN CALI 29 FED 16H
 Project Number: (SC - 29)
 Project Location: CIMAREX - LEA CO NM

Sampling Date: 08/25/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 2 5' (H223921-02)

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	08/26/2022	ND	2.15	107	2.00	4.03	
Toluene*	<0.050	0.050	08/26/2022	ND	2.08	104	2.00	4.40	
Ethylbenzene*	<0.050	0.050	08/26/2022	ND	2.03	101	2.00	4.08	
Total Xylenes*	<0.150	0.150	08/26/2022	ND	6.23	104	6.00	4.28	
Total BTEx	<0.300	0.300	08/26/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5200	16.0	08/26/2022	ND	416	104	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	08/25/2022	ND	206	103	200	4.27	
DRO >C10-C28*	<10.0	10.0	08/25/2022	ND	215	107	200	1.24	
EXT DRO >C28-C36	<10.0	10.0	08/25/2022	ND					

Surrogate: 1-Chlorooctane 94.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 98.5 % 46.3-178

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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: 08/25/2022
 Reported: 08/29/2022
 Project Name: SOUTHERN CALI 29 FED 16H
 Project Number: (SC - 29)
 Project Location: CIMAREX - LEA CO NM

Sampling Date: 08/25/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 3 5' (H223921-03)

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	08/26/2022	ND	2.15	107	2.00	4.03	
Toluene*	<0.050	0.050	08/26/2022	ND	2.08	104	2.00	4.40	
Ethylbenzene*	<0.050	0.050	08/26/2022	ND	2.03	101	2.00	4.08	
Total Xylenes*	<0.150	0.150	08/26/2022	ND	6.23	104	6.00	4.28	
Total BTX	<0.300	0.300	08/26/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5520	16.0	08/26/2022	ND	416	104	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	08/26/2022	ND	206	103	200	4.27	
DRO >C10-C28*	<10.0	10.0	08/26/2022	ND	215	107	200	1.24	
EXT DRO >C28-C36	<10.0	10.0	08/26/2022	ND					

Surrogate: 1-Chlorooctane 94.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 100 % 46.3-178

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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: 08/25/2022
 Reported: 08/29/2022
 Project Name: SOUTHERN CALI 29 FED 16H
 Project Number: (SC - 29)
 Project Location: CIMAREX - LEA CO NM

Sampling Date: 08/25/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 4 4' (H223921-04)

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	08/26/2022	ND	2.15	107	2.00	4.03	
Toluene*	<0.050	0.050	08/26/2022	ND	2.08	104	2.00	4.40	
Ethylbenzene*	<0.050	0.050	08/26/2022	ND	2.03	101	2.00	4.08	
Total Xylenes*	<0.150	0.150	08/26/2022	ND	6.23	104	6.00	4.28	
Total BTEx	<0.300	0.300	08/26/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6320	16.0	08/26/2022	ND	416	104	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	08/26/2022	ND	206	103	200	4.27	
DRO >C10-C28*	<10.0	10.0	08/26/2022	ND	215	107	200	1.24	
EXT DRO >C28-C36	<10.0	10.0	08/26/2022	ND					

Surrogate: 1-Chlorooctane 84.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 89.0 % 46.3-178

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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: 08/25/2022
 Reported: 08/29/2022
 Project Name: SOUTHERN CALI 29 FED 16H
 Project Number: (SC - 29)
 Project Location: CIMAREX - LEA CO NM

Sampling Date: 08/25/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 5 4' (H223921-05)

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	08/26/2022	ND	2.15	107	2.00	4.03		
Toluene*	<0.050	0.050	08/26/2022	ND	2.08	104	2.00	4.40		
Ethylbenzene*	<0.050	0.050	08/26/2022	ND	2.03	101	2.00	4.08		
Total Xylenes*	<0.150	0.150	08/26/2022	ND	6.23	104	6.00	4.28		
Total BTEx	<0.300	0.300	08/26/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6000	16.0	08/26/2022	ND	416	104	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	08/26/2022	ND	206	103	200	4.27	
DRO >C10-C28*	<10.0	10.0	08/26/2022	ND	215	107	200	1.24	
EXT DRO >C28-C36	<10.0	10.0	08/26/2022	ND					

Surrogate: 1-Chlorooctane 95.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 96.2 % 46.3-178

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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: 08/25/2022
 Reported: 08/29/2022
 Project Name: SOUTHERN CALI 29 FED 16H
 Project Number: (SC - 29)
 Project Location: CIMAREX - LEA CO NM

Sampling Date: 08/25/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 6 4' (H223921-06)

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	08/26/2022	ND	2.15	107	2.00	4.03	
Toluene*	<0.050	0.050	08/26/2022	ND	2.08	104	2.00	4.40	
Ethylbenzene*	<0.050	0.050	08/26/2022	ND	2.03	101	2.00	4.08	
Total Xylenes*	<0.150	0.150	08/26/2022	ND	6.23	104	6.00	4.28	
Total BTEx	<0.300	0.300	08/26/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6080	16.0	08/26/2022	ND	416	104	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	08/26/2022	ND	206	103	200	4.27	
DRO >C10-C28*	<10.0	10.0	08/26/2022	ND	215	107	200	1.24	
EXT DRO >C28-C36	<10.0	10.0	08/26/2022	ND					

Surrogate: 1-Chlorooctane 94.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 98.8 % 46.3-178

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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: 08/25/2022
 Reported: 08/29/2022
 Project Name: SOUTHERN CALI 29 FED 16H
 Project Number: (SC - 29)
 Project Location: CIMAREX - LEA CO NM

Sampling Date: 08/25/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 7 4' (H223921-07)

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	08/26/2022	ND	2.15	107	2.00	4.03	
Toluene*	<0.050	0.050	08/26/2022	ND	2.08	104	2.00	4.40	
Ethylbenzene*	<0.050	0.050	08/26/2022	ND	2.03	101	2.00	4.08	
Total Xylenes*	<0.150	0.150	08/26/2022	ND	6.23	104	6.00	4.28	
Total BTEX	<0.300	0.300	08/26/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6560	16.0	08/26/2022	ND	416	104	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	08/26/2022	ND	206	103	200	4.27	
DRO >C10-C28*	<10.0	10.0	08/26/2022	ND	215	107	200	1.24	
EXT DRO >C28-C36	<10.0	10.0	08/26/2022	ND					

Surrogate: 1-Chlorooctane 97.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 98.4 % 46.3-178

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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: 08/25/2022
 Reported: 08/29/2022
 Project Name: SOUTHERN CALI 29 FED 16H
 Project Number: (SC - 29)
 Project Location: CIMAREX - LEA CO NM

Sampling Date: 08/25/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 8 4' (H223921-08)

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	08/26/2022	ND	2.14	107	2.00	3.09	
Toluene*	<0.050	0.050	08/26/2022	ND	2.07	103	2.00	2.75	
Ethylbenzene*	<0.050	0.050	08/26/2022	ND	2.02	101	2.00	3.01	
Total Xylenes*	<0.150	0.150	08/26/2022	ND	6.27	104	6.00	3.30	
Total BTX	<0.300	0.300	08/26/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	7520	16.0	08/26/2022	ND	416	104	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	08/26/2022	ND	206	103	200	4.27	
DRO >C10-C28*	<10.0	10.0	08/26/2022	ND	215	107	200	1.24	
EXT DRO >C28-C36	<10.0	10.0	08/26/2022	ND					

Surrogate: 1-Chlorooctane 96.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 98.7 % 46.3-178

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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: 08/25/2022
 Reported: 08/29/2022
 Project Name: SOUTHERN CALI 29 FED 16H
 Project Number: (SC - 29)
 Project Location: CIMAREX - LEA CO NM

Sampling Date: 08/25/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 9 4' (H223921-09)

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	08/26/2022	ND	2.14	107	2.00	3.09	
Toluene*	<0.050	0.050	08/26/2022	ND	2.07	103	2.00	2.75	
Ethylbenzene*	<0.050	0.050	08/26/2022	ND	2.02	101	2.00	3.01	
Total Xylenes*	<0.150	0.150	08/26/2022	ND	6.27	104	6.00	3.30	
Total BTEX	<0.300	0.300	08/26/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6800	16.0	08/26/2022	ND	416	104	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	08/26/2022	ND	206	103	200	4.27	
DRO >C10-C28*	<10.0	10.0	08/26/2022	ND	215	107	200	1.24	
EXT DRO >C28-C36	<10.0	10.0	08/26/2022	ND					

Surrogate: 1-Chlorooctane 88.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 92.0 % 46.3-178

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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: 08/25/2022
 Reported: 08/29/2022
 Project Name: SOUTHERN CALI 29 FED 16H
 Project Number: (SC - 29)
 Project Location: CIMAREX - LEA CO NM

Sampling Date: 08/25/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 10 4' (H223921-10)

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	08/26/2022	ND	2.14	107	2.00	3.09		
Toluene*	<0.050	0.050	08/26/2022	ND	2.07	103	2.00	2.75		
Ethylbenzene*	<0.050	0.050	08/26/2022	ND	2.02	101	2.00	3.01		
Total Xylenes*	<0.150	0.150	08/26/2022	ND	6.27	104	6.00	3.30		
Total BTEx	<0.300	0.300	08/26/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5760	16.0	08/26/2022	ND	416	104	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	08/26/2022	ND	206	103	200	4.27	
DRO >C10-C28*	<10.0	10.0	08/26/2022	ND	215	107	200	1.24	
EXT DRO >C28-C36	<10.0	10.0	08/26/2022	ND					

Surrogate: 1-Chlorooctane 94.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 101 % 46.3-178

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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: 08/25/2022
 Reported: 08/29/2022
 Project Name: SOUTHERN CALI 29 FED 16H
 Project Number: (SC - 29)
 Project Location: CIMAREX - LEA CO NM

Sampling Date: 08/25/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 11 4' (H223921-11)

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	08/26/2022	ND	2.14	107	2.00	3.09		
Toluene*	<0.050	0.050	08/26/2022	ND	2.07	103	2.00	2.75		
Ethylbenzene*	<0.050	0.050	08/26/2022	ND	2.02	101	2.00	3.01		
Total Xylenes*	<0.150	0.150	08/26/2022	ND	6.27	104	6.00	3.30		
Total BTEx	<0.300	0.300	08/26/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6320	16.0	08/26/2022	ND	416	104	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	08/26/2022	ND	206	103	200	4.27	
DRO >C10-C28*	<10.0	10.0	08/26/2022	ND	215	107	200	1.24	
EXT DRO >C28-C36	<10.0	10.0	08/26/2022	ND					

Surrogate: 1-Chlorooctane 89.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 92.8 % 46.3-178

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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: 08/25/2022
 Reported: 08/29/2022
 Project Name: SOUTHERN CALI 29 FED 16H
 Project Number: (SC - 29)
 Project Location: CIMAREX - LEA CO NM

Sampling Date: 08/25/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 12 4' (H223921-12)

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	08/26/2022	ND	2.14	107	2.00	3.09		
Toluene*	<0.050	0.050	08/26/2022	ND	2.07	103	2.00	2.75		
Ethylbenzene*	<0.050	0.050	08/26/2022	ND	2.02	101	2.00	3.01		
Total Xylenes*	<0.150	0.150	08/26/2022	ND	6.27	104	6.00	3.30		
Total BTEx	<0.300	0.300	08/26/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6800	16.0	08/26/2022	ND	416	104	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	08/26/2022	ND	206	103	200	4.27	
DRO >C10-C28*	<10.0	10.0	08/26/2022	ND	215	107	200	1.24	
EXT DRO >C28-C36	<10.0	10.0	08/26/2022	ND					

Surrogate: 1-Chlorooctane 93.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 96.8 % 46.3-178

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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: 08/25/2022
 Reported: 08/29/2022
 Project Name: SOUTHERN CALI 29 FED 16H
 Project Number: (SC - 29)
 Project Location: CIMAREX - LEA CO NM

Sampling Date: 08/25/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 13 4' (H223921-13)

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	08/26/2022	ND	2.14	107	2.00	3.09	
Toluene*	<0.050	0.050	08/26/2022	ND	2.07	103	2.00	2.75	
Ethylbenzene*	<0.050	0.050	08/26/2022	ND	2.02	101	2.00	3.01	
Total Xylenes*	<0.150	0.150	08/26/2022	ND	6.27	104	6.00	3.30	
Total BTEX	<0.300	0.300	08/26/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6320	16.0	08/26/2022	ND	416	104	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	08/26/2022	ND	206	103	200	4.27	
DRO >C10-C28*	<10.0	10.0	08/26/2022	ND	215	107	200	1.24	
EXT DRO >C28-C36	<10.0	10.0	08/26/2022	ND					

Surrogate: 1-Chlorooctane 91.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 96.2 % 46.3-178

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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: 08/25/2022
 Reported: 08/29/2022
 Project Name: SOUTHERN CALI 29 FED 16H
 Project Number: (SC - 29)
 Project Location: CIMAREX - LEA CO NM

Sampling Date: 08/25/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 14 4' (H223921-14)

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	08/26/2022	ND	2.14	107	2.00	3.09		
Toluene*	<0.050	0.050	08/26/2022	ND	2.07	103	2.00	2.75		
Ethylbenzene*	<0.050	0.050	08/26/2022	ND	2.02	101	2.00	3.01		
Total Xylenes*	<0.150	0.150	08/26/2022	ND	6.27	104	6.00	3.30		
Total BTEx	<0.300	0.300	08/26/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5920	16.0	08/26/2022	ND	432	108	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	08/25/2022	ND	217	109	200	1.70	
DRO >C10-C28*	<10.0	10.0	08/25/2022	ND	222	111	200	2.00	
EXT DRO >C28-C36	<10.0	10.0	08/25/2022	ND					

Surrogate: 1-Chlorooctane 90.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 95.4 % 46.3-178

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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: 08/25/2022
 Reported: 08/29/2022
 Project Name: SOUTHERN CALI 29 FED 16H
 Project Number: (SC - 29)
 Project Location: CIMAREX - LEA CO NM

Sampling Date: 08/25/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 15 4' (H223921-15)

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	08/26/2022	ND	2.14	107	2.00	3.09	
Toluene*	<0.050	0.050	08/26/2022	ND	2.07	103	2.00	2.75	
Ethylbenzene*	<0.050	0.050	08/26/2022	ND	2.02	101	2.00	3.01	
Total Xylenes*	<0.150	0.150	08/26/2022	ND	6.27	104	6.00	3.30	
Total BTX	<0.300	0.300	08/26/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6320	16.0	08/26/2022	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	08/25/2022	ND	217	109	200	1.70	
DRO >C10-C28*	<10.0	10.0	08/25/2022	ND	222	111	200	2.00	
EXT DRO >C28-C36	<10.0	10.0	08/25/2022	ND					

Surrogate: 1-Chlorooctane 92.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 95.2 % 46.3-178

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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: 08/25/2022
 Reported: 08/29/2022
 Project Name: SOUTHERN CALI 29 FED 16H
 Project Number: (SC - 29)
 Project Location: CIMAREX - LEA CO NM

Sampling Date: 08/25/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 16 4' (H223921-16)

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	08/26/2022	ND	2.14	107	2.00	3.09		
Toluene*	<0.050	0.050	08/26/2022	ND	2.07	103	2.00	2.75		
Ethylbenzene*	<0.050	0.050	08/26/2022	ND	2.02	101	2.00	3.01		
Total Xylenes*	<0.150	0.150	08/26/2022	ND	6.27	104	6.00	3.30		
Total BTEX	<0.300	0.300	08/26/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2880	16.0	08/26/2022	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	08/25/2022	ND	217	109	200	1.70	
DRO >C10-C28*	<10.0	10.0	08/25/2022	ND	222	111	200	2.00	
EXT DRO >C28-C36	<10.0	10.0	08/25/2022	ND					

Surrogate: 1-Chlorooctane 96.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 102 % 46.3-178

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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: 08/25/2022
 Reported: 08/29/2022
 Project Name: SOUTHERN CALI 29 FED 16H
 Project Number: (SC - 29)
 Project Location: CIMAREX - LEA CO NM

Sampling Date: 08/25/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 17 4' (H223921-17)

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	08/26/2022	ND	2.14	107	2.00	3.09	
Toluene*	<0.050	0.050	08/26/2022	ND	2.07	103	2.00	2.75	
Ethylbenzene*	<0.050	0.050	08/26/2022	ND	2.02	101	2.00	3.01	
Total Xylenes*	<0.150	0.150	08/26/2022	ND	6.27	104	6.00	3.30	
Total BTX	<0.300	0.300	08/26/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2720	16.0	08/26/2022	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	08/25/2022	ND	217	109	200	1.70	
DRO >C10-C28*	<10.0	10.0	08/25/2022	ND	222	111	200	2.00	
EXT DRO >C28-C36	<10.0	10.0	08/25/2022	ND					

Surrogate: 1-Chlorooctane 96.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 101 % 46.3-178

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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: 08/25/2022
 Reported: 08/29/2022
 Project Name: SOUTHERN CALI 29 FED 16H
 Project Number: (SC - 29)
 Project Location: CIMAREX - LEA CO NM

Sampling Date: 08/25/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 18 4' (H223921-18)

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	08/26/2022	ND	2.14	107	2.00	3.09	
Toluene*	<0.050	0.050	08/26/2022	ND	2.07	103	2.00	2.75	
Ethylbenzene*	<0.050	0.050	08/26/2022	ND	2.02	101	2.00	3.01	
Total Xylenes*	<0.150	0.150	08/26/2022	ND	6.27	104	6.00	3.30	
Total BTX	<0.300	0.300	08/26/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2960	16.0	08/26/2022	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	08/25/2022	ND	217	109	200	1.70	
DRO >C10-C28*	<10.0	10.0	08/25/2022	ND	222	111	200	2.00	
EXT DRO >C28-C36	<10.0	10.0	08/25/2022	ND					

Surrogate: 1-Chlorooctane 84.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 88.4 % 46.3-178

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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: 08/25/2022
 Reported: 08/29/2022
 Project Name: SOUTHERN CALI 29 FED 16H
 Project Number: (SC - 29)
 Project Location: CIMAREX - LEA CO NM

Sampling Date: 08/25/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 19 4' (H223921-19)

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	08/26/2022	ND	2.14	107	2.00	3.09		
Toluene*	<0.050	0.050	08/26/2022	ND	2.07	103	2.00	2.75		
Ethylbenzene*	<0.050	0.050	08/26/2022	ND	2.02	101	2.00	3.01		
Total Xylenes*	<0.150	0.150	08/26/2022	ND	6.27	104	6.00	3.30		
Total BTEX	<0.300	0.300	08/26/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2600	16.0	08/26/2022	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	08/25/2022	ND	217	109	200	1.70	
DRO >C10-C28*	<10.0	10.0	08/25/2022	ND	222	111	200	2.00	
EXT DRO >C28-C36	<10.0	10.0	08/25/2022	ND					

Surrogate: 1-Chlorooctane 92.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 96.9 % 46.3-178

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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: 08/25/2022
 Reported: 08/29/2022
 Project Name: SOUTHERN CALI 29 FED 16H
 Project Number: (SC - 29)
 Project Location: CIMAREX - LEA CO NM

Sampling Date: 08/25/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 20 4' (H223921-20)

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	08/26/2022	ND	2.14	107	2.00	3.09		
Toluene*	<0.050	0.050	08/26/2022	ND	2.07	103	2.00	2.75		
Ethylbenzene*	<0.050	0.050	08/26/2022	ND	2.02	101	2.00	3.01		
Total Xylenes*	<0.150	0.150	08/26/2022	ND	6.27	104	6.00	3.30		
Total BTEx	<0.300	0.300	08/26/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3400	16.0	08/26/2022	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	08/25/2022	ND	217	109	200	1.70	
DRO >C10-C28*	<10.0	10.0	08/25/2022	ND	222	111	200	2.00	
EXT DRO >C28-C36	<10.0	10.0	08/25/2022	ND					

Surrogate: 1-Chlorooctane 79.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 83.0 % 46.3-178

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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: 08/25/2022
 Reported: 08/29/2022
 Project Name: SOUTHERN CALI 29 FED 16H
 Project Number: (SC - 29)
 Project Location: CIMAREX - LEA CO NM

Sampling Date: 08/25/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 21 4' (H223921-21)

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	08/26/2022	ND	2.14	107	2.00	3.09	
Toluene*	<0.050	0.050	08/26/2022	ND	2.07	103	2.00	2.75	
Ethylbenzene*	<0.050	0.050	08/26/2022	ND	2.02	101	2.00	3.01	
Total Xylenes*	<0.150	0.150	08/26/2022	ND	6.27	104	6.00	3.30	
Total BTX	<0.300	0.300	08/26/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3400	16.0	08/26/2022	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	08/26/2022	ND	217	109	200	1.70	
DRO >C10-C28*	<10.0	10.0	08/26/2022	ND	222	111	200	2.00	
EXT DRO >C28-C36	<10.0	10.0	08/26/2022	ND					

Surrogate: 1-Chlorooctane 92.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 98.5 % 46.3-178

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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: 08/25/2022
 Reported: 08/29/2022
 Project Name: SOUTHERN CALI 29 FED 16H
 Project Number: (SC - 29)
 Project Location: CIMAREX - LEA CO NM

Sampling Date: 08/25/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 22 4' (H223921-22)

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	08/26/2022	ND	2.14	107	2.00	3.09	
Toluene*	<0.050	0.050	08/26/2022	ND	2.07	103	2.00	2.75	
Ethylbenzene*	<0.050	0.050	08/26/2022	ND	2.02	101	2.00	3.01	
Total Xylenes*	<0.150	0.150	08/26/2022	ND	6.27	104	6.00	3.30	
Total BTX	<0.300	0.300	08/26/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2720	16.0	08/26/2022	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	08/26/2022	ND	217	109	200	1.70	
DRO >C10-C28*	<10.0	10.0	08/26/2022	ND	222	111	200	2.00	
EXT DRO >C28-C36	<10.0	10.0	08/26/2022	ND					

Surrogate: 1-Chlorooctane 86.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 90.9 % 46.3-178

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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: 08/25/2022
 Reported: 08/29/2022
 Project Name: SOUTHERN CALI 29 FED 16H
 Project Number: (SC - 29)
 Project Location: CIMAREX - LEA CO NM

Sampling Date: 08/25/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 23 4' (H223921-23)

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	08/26/2022	ND	2.14	107	2.00	3.09	
Toluene*	<0.050	0.050	08/26/2022	ND	2.07	103	2.00	2.75	
Ethylbenzene*	<0.050	0.050	08/26/2022	ND	2.02	101	2.00	3.01	
Total Xylenes*	<0.150	0.150	08/26/2022	ND	6.27	104	6.00	3.30	
Total BTEX	<0.300	0.300	08/26/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2720	16.0	08/26/2022	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	08/26/2022	ND	217	109	200	1.70	
DRO >C10-C28*	<10.0	10.0	08/26/2022	ND	222	111	200	2.00	
EXT DRO >C28-C36	<10.0	10.0	08/26/2022	ND					

Surrogate: 1-Chlorooctane 90.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 95.7 % 46.3-178

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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: 08/25/2022
 Reported: 08/29/2022
 Project Name: SOUTHERN CALI 29 FED 16H
 Project Number: (SC - 29)
 Project Location: CIMAREX - LEA CO NM

Sampling Date: 08/25/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 24 4' (H223921-24)

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	08/26/2022	ND	2.14	107	2.00	3.09	
Toluene*	<0.050	0.050	08/26/2022	ND	2.07	103	2.00	2.75	
Ethylbenzene*	<0.050	0.050	08/26/2022	ND	2.02	101	2.00	3.01	
Total Xylenes*	<0.150	0.150	08/26/2022	ND	6.27	104	6.00	3.30	
Total BTX	<0.300	0.300	08/26/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3240	16.0	08/26/2022	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	08/26/2022	ND	217	109	200	1.70	
DRO >C10-C28*	<10.0	10.0	08/26/2022	ND	222	111	200	2.00	
EXT DRO >C28-C36	<10.0	10.0	08/26/2022	ND					

Surrogate: 1-Chlorooctane 82.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 86.4 % 46.3-178

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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: 08/25/2022
 Reported: 08/29/2022
 Project Name: SOUTHERN CALI 29 FED 16H
 Project Number: (SC - 29)
 Project Location: CIMAREX - LEA CO NM

Sampling Date: 08/25/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 25 4' (H223921-25)

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	08/26/2022	ND	2.14	107	2.00	3.09	
Toluene*	<0.050	0.050	08/26/2022	ND	2.07	103	2.00	2.75	
Ethylbenzene*	<0.050	0.050	08/26/2022	ND	2.02	101	2.00	3.01	
Total Xylenes*	<0.150	0.150	08/26/2022	ND	6.27	104	6.00	3.30	
Total BTEX	<0.300	0.300	08/26/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3560	16.0	08/26/2022	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	08/26/2022	ND	217	109	200	1.70	
DRO >C10-C28*	<10.0	10.0	08/26/2022	ND	222	111	200	2.00	
EXT DRO >C28-C36	<10.0	10.0	08/26/2022	ND					

Surrogate: 1-Chlorooctane 88.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 93.0 % 46.3-178

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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: 08/25/2022
 Reported: 08/29/2022
 Project Name: SOUTHERN CALI 29 FED 16H
 Project Number: (SC - 29)
 Project Location: CIMAREX - LEA CO NM

Sampling Date: 08/25/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 26 4' (H223921-26)

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	08/26/2022	ND	2.14	107	2.00	3.09		
Toluene*	<0.050	0.050	08/26/2022	ND	2.07	103	2.00	2.75		
Ethylbenzene*	<0.050	0.050	08/26/2022	ND	2.02	101	2.00	3.01		
Total Xylenes*	<0.150	0.150	08/26/2022	ND	6.27	104	6.00	3.30		
Total BTEx	<0.300	0.300	08/26/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3240	16.0	08/26/2022	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	08/26/2022	ND	217	109	200	1.70	
DRO >C10-C28*	<10.0	10.0	08/26/2022	ND	222	111	200	2.00	
EXT DRO >C28-C36	<10.0	10.0	08/26/2022	ND					

Surrogate: 1-Chlorooctane 91.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 96.0 % 46.3-178

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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: 08/25/2022
 Reported: 08/29/2022
 Project Name: SOUTHERN CALI 29 FED 16H
 Project Number: (SC - 29)
 Project Location: CIMAREX - LEA CO NM

Sampling Date: 08/25/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 27 4' (H223921-27)

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	08/26/2022	ND	2.14	107	2.00	3.09		
Toluene*	<0.050	0.050	08/26/2022	ND	2.07	103	2.00	2.75		
Ethylbenzene*	<0.050	0.050	08/26/2022	ND	2.02	101	2.00	3.01		
Total Xylenes*	<0.150	0.150	08/26/2022	ND	6.27	104	6.00	3.30		
Total BTEx	<0.300	0.300	08/26/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3560	16.0	08/26/2022	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	08/26/2022	ND	217	109	200	1.70	
DRO >C10-C28*	<10.0	10.0	08/26/2022	ND	222	111	200	2.00	
EXT DRO >C28-C36	<10.0	10.0	08/26/2022	ND					

Surrogate: 1-Chlorooctane 92.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 96.6 % 46.3-178

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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: 08/25/2022
 Reported: 08/29/2022
 Project Name: SOUTHERN CALI 29 FED 16H
 Project Number: (SC - 29)
 Project Location: CIMAREX - LEA CO NM

Sampling Date: 08/25/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 28 4' (H223921-28)

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	08/26/2022	ND	2.16	108	2.00	1.41	
Toluene*	<0.050	0.050	08/26/2022	ND	2.09	104	2.00	1.83	
Ethylbenzene*	<0.050	0.050	08/26/2022	ND	2.05	102	2.00	1.59	
Total Xylenes*	<0.150	0.150	08/26/2022	ND	6.32	105	6.00	1.11	
Total BTEX	<0.300	0.300	08/26/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3080	16.0	08/26/2022	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	08/26/2022	ND	217	109	200	1.70	
DRO >C10-C28*	<10.0	10.0	08/26/2022	ND	222	111	200	2.00	
EXT DRO >C28-C36	<10.0	10.0	08/26/2022	ND					

Surrogate: 1-Chlorooctane 89.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 94.1 % 46.3-178

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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: 08/25/2022
 Reported: 08/29/2022
 Project Name: SOUTHERN CALI 29 FED 16H
 Project Number: (SC - 29)
 Project Location: CIMAREX - LEA CO NM

Sampling Date: 08/25/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 29 4' (H223921-29)

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	08/26/2022	ND	2.16	108	2.00	1.41	
Toluene*	<0.050	0.050	08/26/2022	ND	2.09	104	2.00	1.83	
Ethylbenzene*	<0.050	0.050	08/26/2022	ND	2.05	102	2.00	1.59	
Total Xylenes*	<0.150	0.150	08/26/2022	ND	6.32	105	6.00	1.11	
Total BTX	<0.300	0.300	08/26/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3320	16.0	08/26/2022	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	08/26/2022	ND	217	109	200	1.70	
DRO >C10-C28*	<10.0	10.0	08/26/2022	ND	222	111	200	2.00	
EXT DRO >C28-C36	<10.0	10.0	08/26/2022	ND					

Surrogate: 1-Chlorooctane 87.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 92.4 % 46.3-178

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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: 08/25/2022
 Reported: 08/29/2022
 Project Name: SOUTHERN CALI 29 FED 16H
 Project Number: (SC - 29)
 Project Location: CIMAREX - LEA CO NM

Sampling Date: 08/25/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 30 4' (H223921-30)

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	08/26/2022	ND	2.16	108	2.00	1.41		
Toluene*	<0.050	0.050	08/26/2022	ND	2.09	104	2.00	1.83		
Ethylbenzene*	<0.050	0.050	08/26/2022	ND	2.05	102	2.00	1.59		
Total Xylenes*	<0.150	0.150	08/26/2022	ND	6.32	105	6.00	1.11		
Total BTEx	<0.300	0.300	08/26/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3040	16.0	08/26/2022	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	08/26/2022	ND	217	109	200	1.70	
DRO >C10-C28*	<10.0	10.0	08/26/2022	ND	222	111	200	2.00	
EXT DRO >C28-C36	<10.0	10.0	08/26/2022	ND					

Surrogate: 1-Chlorooctane 85.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 89.2 % 46.3-178

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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: 08/25/2022
 Reported: 08/29/2022
 Project Name: SOUTHERN CALI 29 FED 16H
 Project Number: (SC - 29)
 Project Location: CIMAREX - LEA CO NM

Sampling Date: 08/25/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 31 4' (H223921-31)

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	08/26/2022	ND	2.16	108	2.00	1.41		
Toluene*	<0.050	0.050	08/26/2022	ND	2.09	104	2.00	1.83		
Ethylbenzene*	<0.050	0.050	08/26/2022	ND	2.05	102	2.00	1.59		
Total Xylenes*	<0.150	0.150	08/26/2022	ND	6.32	105	6.00	1.11		
Total BTEx	<0.300	0.300	08/26/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3000	16.0	08/26/2022	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	08/26/2022	ND	217	109	200	1.70	
DRO >C10-C28*	<10.0	10.0	08/26/2022	ND	222	111	200	2.00	
EXT DRO >C28-C36	<10.0	10.0	08/26/2022	ND					

Surrogate: 1-Chlorooctane 85.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 90.9 % 46.3-178

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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: 08/25/2022
 Reported: 08/29/2022
 Project Name: SOUTHERN CALI 29 FED 16H
 Project Number: (SC - 29)
 Project Location: CIMAREX - LEA CO NM

Sampling Date: 08/25/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 32 4' (H223921-32)

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	08/26/2022	ND	2.16	108	2.00	1.41	
Toluene*	<0.050	0.050	08/26/2022	ND	2.09	104	2.00	1.83	
Ethylbenzene*	<0.050	0.050	08/26/2022	ND	2.05	102	2.00	1.59	
Total Xylenes*	<0.150	0.150	08/26/2022	ND	6.32	105	6.00	1.11	
Total BTEX	<0.300	0.300	08/26/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2800	16.0	08/26/2022	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	08/26/2022	ND	217	109	200	1.70	
DRO >C10-C28*	<10.0	10.0	08/26/2022	ND	222	111	200	2.00	
EXT DRO >C28-C36	<10.0	10.0	08/26/2022	ND					

Surrogate: 1-Chlorooctane 86.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 92.2 % 46.3-178

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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: 08/25/2022
 Reported: 08/29/2022
 Project Name: SOUTHERN CALI 29 FED 16H
 Project Number: (SC - 29)
 Project Location: CIMAREX - LEA CO NM

Sampling Date: 08/25/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 1 5' (H223921-33)

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	08/26/2022	ND	2.16	108	2.00	1.41	
Toluene*	<0.050	0.050	08/26/2022	ND	2.09	104	2.00	1.83	
Ethylbenzene*	<0.050	0.050	08/26/2022	ND	2.05	102	2.00	1.59	
Total Xylenes*	<0.150	0.150	08/26/2022	ND	6.32	105	6.00	1.11	
Total BTEx	<0.300	0.300	08/26/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1400	16.0	08/26/2022	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	08/26/2022	ND	217	109	200	1.70	
DRO >C10-C28*	<10.0	10.0	08/26/2022	ND	222	111	200	2.00	
EXT DRO >C28-C36	<10.0	10.0	08/26/2022	ND					

Surrogate: 1-Chlorooctane 80.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 84.9 % 46.3-178

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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: 08/25/2022
 Reported: 08/29/2022
 Project Name: SOUTHERN CALI 29 FED 16H
 Project Number: (SC - 29)
 Project Location: CIMAREX - LEA CO NM

Sampling Date: 08/25/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 2 5' (H223921-34)

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	08/26/2022	ND	2.16	108	2.00	1.41		
Toluene*	<0.050	0.050	08/26/2022	ND	2.09	104	2.00	1.83		
Ethylbenzene*	<0.050	0.050	08/26/2022	ND	2.05	102	2.00	1.59		
Total Xylenes*	<0.150	0.150	08/26/2022	ND	6.32	105	6.00	1.11		
Total BTEX	<0.300	0.300	08/26/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1180	16.0	08/26/2022	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	08/25/2022	ND	249	124	200	3.16	
DRO >C10-C28*	<10.0	10.0	08/25/2022	ND	262	131	200	5.80	
EXT DRO >C28-C36	<10.0	10.0	08/25/2022	ND					

Surrogate: 1-Chlorooctane 80.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 90.2 % 46.3-178

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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: 08/25/2022
 Reported: 08/29/2022
 Project Name: SOUTHERN CALI 29 FED 16H
 Project Number: (SC - 29)
 Project Location: CIMAREX - LEA CO NM

Sampling Date: 08/25/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 3 4' (H223921-35)

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	08/26/2022	ND	2.16	108	2.00	1.41		
Toluene*	<0.050	0.050	08/26/2022	ND	2.09	104	2.00	1.83		
Ethylbenzene*	<0.050	0.050	08/26/2022	ND	2.05	102	2.00	1.59		
Total Xylenes*	<0.150	0.150	08/26/2022	ND	6.32	105	6.00	1.11		
Total BTX	<0.300	0.300	08/26/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1570	16.0	08/26/2022	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	08/25/2022	ND	249	124	200	3.16	
DRO >C10-C28*	<10.0	10.0	08/25/2022	ND	262	131	200	5.80	
EXT DRO >C28-C36	<10.0	10.0	08/25/2022	ND					

Surrogate: 1-Chlorooctane 82.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 94.5 % 46.3-178

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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: 08/25/2022
 Reported: 08/29/2022
 Project Name: SOUTHERN CALI 29 FED 16H
 Project Number: (SC - 29)
 Project Location: CIMAREX - LEA CO NM

Sampling Date: 08/25/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 4 4' (H223921-36)

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	08/26/2022	ND	2.16	108	2.00	1.41		
Toluene*	<0.050	0.050	08/26/2022	ND	2.09	104	2.00	1.83		
Ethylbenzene*	<0.050	0.050	08/26/2022	ND	2.05	102	2.00	1.59		
Total Xylenes*	<0.150	0.150	08/26/2022	ND	6.32	105	6.00	1.11		
Total BTEX	<0.300	0.300	08/26/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1410	16.0	08/26/2022	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	08/25/2022	ND	249	124	200	3.16	
DRO >C10-C28*	<10.0	10.0	08/25/2022	ND	262	131	200	5.80	
EXT DRO >C28-C36	<10.0	10.0	08/25/2022	ND					

Surrogate: 1-Chlorooctane 93.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 110 % 46.3-178

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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: 08/25/2022
 Reported: 08/29/2022
 Project Name: SOUTHERN CALI 29 FED 16H
 Project Number: (SC - 29)
 Project Location: CIMAREX - LEA CO NM

Sampling Date: 08/25/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 5 4' (H223921-37)

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	08/26/2022	ND	2.16	108	2.00	1.41		
Toluene*	<0.050	0.050	08/26/2022	ND	2.09	104	2.00	1.83		
Ethylbenzene*	<0.050	0.050	08/26/2022	ND	2.05	102	2.00	1.59		
Total Xylenes*	<0.150	0.150	08/26/2022	ND	6.32	105	6.00	1.11		
Total BTEx	<0.300	0.300	08/26/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	656	16.0	08/26/2022	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	08/25/2022	ND	249	124	200	3.16	
DRO >C10-C28*	<10.0	10.0	08/25/2022	ND	262	131	200	5.80	
EXT DRO >C28-C36	<10.0	10.0	08/25/2022	ND					

Surrogate: 1-Chlorooctane 81.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 94.2 % 46.3-178

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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: 08/25/2022
 Reported: 08/29/2022
 Project Name: SOUTHERN CALI 29 FED 16H
 Project Number: (SC - 29)
 Project Location: CIMAREX - LEA CO NM

Sampling Date: 08/25/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 6 4' (H223921-38)

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	08/26/2022	ND	2.16	108	2.00	1.41		
Toluene*	<0.050	0.050	08/26/2022	ND	2.09	104	2.00	1.83		
Ethylbenzene*	<0.050	0.050	08/26/2022	ND	2.05	102	2.00	1.59		
Total Xylenes*	<0.150	0.150	08/26/2022	ND	6.32	105	6.00	1.11		
Total BTEX	<0.300	0.300	08/26/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1540	16.0	08/26/2022	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	08/25/2022	ND	249	124	200	3.16	
DRO >C10-C28*	<10.0	10.0	08/25/2022	ND	262	131	200	5.80	
EXT DRO >C28-C36	<10.0	10.0	08/25/2022	ND					

Surrogate: 1-Chlorooctane 82.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 94.9 % 46.3-178

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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: 08/25/2022
 Reported: 08/29/2022
 Project Name: SOUTHERN CALI 29 FED 16H
 Project Number: (SC - 29)
 Project Location: CIMAREX - LEA CO NM

Sampling Date: 08/25/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 7 4' (H223921-39)

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	08/26/2022	ND	2.16	108	2.00	1.41		
Toluene*	<0.050	0.050	08/26/2022	ND	2.09	104	2.00	1.83		
Ethylbenzene*	<0.050	0.050	08/26/2022	ND	2.05	102	2.00	1.59		
Total Xylenes*	<0.150	0.150	08/26/2022	ND	6.32	105	6.00	1.11		
Total BTEx	<0.300	0.300	08/26/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1570	16.0	08/26/2022	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	08/26/2022	ND	249	124	200	3.16	
DRO >C10-C28*	<10.0	10.0	08/26/2022	ND	262	131	200	5.80	
EXT DRO >C28-C36	<10.0	10.0	08/26/2022	ND					

Surrogate: 1-Chlorooctane 85.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 96.3 % 46.3-178

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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: 08/25/2022
 Reported: 08/29/2022
 Project Name: SOUTHERN CALI 29 FED 16H
 Project Number: (SC - 29)
 Project Location: CIMAREX - LEA CO NM

Sampling Date: 08/25/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 8 4' (H223921-40)

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	08/26/2022	ND	2.16	108	2.00	1.41		
Toluene*	<0.050	0.050	08/26/2022	ND	2.09	104	2.00	1.83		
Ethylbenzene*	<0.050	0.050	08/26/2022	ND	2.05	102	2.00	1.59		
Total Xylenes*	<0.150	0.150	08/26/2022	ND	6.32	105	6.00	1.11		
Total BTEx	<0.300	0.300	08/26/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1490	16.0	08/26/2022	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	08/26/2022	ND	249	124	200	3.16	
DRO >C10-C28*	<10.0	10.0	08/26/2022	ND	262	131	200	5.80	
EXT DRO >C28-C36	<10.0	10.0	08/26/2022	ND					

Surrogate: 1-Chlorooctane 83.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 95.0 % 46.3-178

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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: 08/25/2022
 Reported: 08/29/2022
 Project Name: SOUTHERN CALI 29 FED 16H
 Project Number: (SC - 29)
 Project Location: CIMAREX - LEA CO NM

Sampling Date: 08/25/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 9 5' (H223921-41)

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	08/26/2022	ND	2.16	108	2.00	1.41		
Toluene*	<0.050	0.050	08/26/2022	ND	2.09	104	2.00	1.83		
Ethylbenzene*	<0.050	0.050	08/26/2022	ND	2.05	102	2.00	1.59		
Total Xylenes*	<0.150	0.150	08/26/2022	ND	6.32	105	6.00	1.11		
Total BTX	<0.300	0.300	08/26/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	08/26/2022	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	08/26/2022	ND	249	124	200	3.16	
DRO >C10-C28*	<10.0	10.0	08/26/2022	ND	262	131	200	5.80	
EXT DRO >C28-C36	<10.0	10.0	08/26/2022	ND					

Surrogate: 1-Chlorooctane 82.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 97.3 % 46.3-178

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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: 08/25/2022
 Reported: 08/29/2022
 Project Name: SOUTHERN CALI 29 FED 16H
 Project Number: (SC - 29)
 Project Location: CIMAREX - LEA CO NM

Sampling Date: 08/25/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BG - 1 0-1' (H223921-42)

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	08/26/2022	ND	2.16	108	2.00	1.41	
Toluene*	<0.050	0.050	08/26/2022	ND	2.09	104	2.00	1.83	
Ethylbenzene*	<0.050	0.050	08/26/2022	ND	2.05	102	2.00	1.59	
Total Xylenes*	<0.150	0.150	08/26/2022	ND	6.32	105	6.00	1.11	
Total BTX	<0.300	0.300	08/26/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	08/26/2022	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	08/26/2022	ND	249	124	200	3.16	
DRO >C10-C28*	<10.0	10.0	08/26/2022	ND	262	131	200	5.80	
EXT DRO >C28-C36	<10.0	10.0	08/26/2022	ND					

Surrogate: 1-Chlorooctane 78.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 89.3 % 46.3-178

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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: 08/25/2022
 Reported: 08/29/2022
 Project Name: SOUTHERN CALI 29 FED 16H
 Project Number: (SC - 29)
 Project Location: CIMAREX - LEA CO NM

Sampling Date: 08/25/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BG - 2 0-1' (H223921-43)

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	08/26/2022	ND	2.16	108	2.00	1.41		
Toluene*	<0.050	0.050	08/26/2022	ND	2.09	104	2.00	1.83		
Ethylbenzene*	<0.050	0.050	08/26/2022	ND	2.05	102	2.00	1.59		
Total Xylenes*	<0.150	0.150	08/26/2022	ND	6.32	105	6.00	1.11		
Total BTEx	<0.300	0.300	08/26/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	08/26/2022	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	08/26/2022	ND	249	124	200	3.16	
DRO >C10-C28*	<10.0	10.0	08/26/2022	ND	262	131	200	5.80	
EXT DRO >C28-C36	<10.0	10.0	08/26/2022	ND					

Surrogate: 1-Chlorooctane 83.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 95.0 % 46.3-178

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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: 08/25/2022
 Reported: 08/29/2022
 Project Name: SOUTHERN CALI 29 FED 16H
 Project Number: (SC - 29)
 Project Location: CIMAREX - LEA CO NM

Sampling Date: 08/25/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BG - 3 0-1' (H223921-44)

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	08/27/2022	ND	2.16	108	2.00	1.41		
Toluene*	<0.050	0.050	08/27/2022	ND	2.09	104	2.00	1.83		
Ethylbenzene*	<0.050	0.050	08/27/2022	ND	2.05	102	2.00	1.59		
Total Xylenes*	<0.150	0.150	08/27/2022	ND	6.32	105	6.00	1.11		
Total BTX	<0.300	0.300	08/27/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	08/26/2022	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	08/26/2022	ND	249	124	200	3.16	
DRO >C10-C28*	<10.0	10.0	08/26/2022	ND	262	131	200	5.80	
EXT DRO >C28-C36	<10.0	10.0	08/26/2022	ND					

Surrogate: 1-Chlorooctane 82.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 94.4 % 46.3-178

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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: 08/25/2022
 Reported: 08/29/2022
 Project Name: SOUTHERN CALI 29 FED 16H
 Project Number: (SC - 29)
 Project Location: CIMAREX - LEA CO NM

Sampling Date: 08/25/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BG - 4 0-1' (H223921-45)

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	08/27/2022	ND	2.16	108	2.00	1.41	
Toluene*	<0.050	0.050	08/27/2022	ND	2.09	104	2.00	1.83	
Ethylbenzene*	<0.050	0.050	08/27/2022	ND	2.05	102	2.00	1.59	
Total Xylenes*	<0.150	0.150	08/27/2022	ND	6.32	105	6.00	1.11	
Total BTEx	<0.300	0.300	08/27/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	08/26/2022	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	08/26/2022	ND	249	124	200	3.16	
DRO >C10-C28*	<10.0	10.0	08/26/2022	ND	262	131	200	5.80	
EXT DRO >C28-C36	<10.0	10.0	08/26/2022	ND					

Surrogate: 1-Chlorooctane 77.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 90.0 % 46.3-178

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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.
BS1	Blank spike recovery above laboratory acceptance criteria. Results for analyte potentially biased high.
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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: H&R Enterprises				BILL TO				ANALYSIS REQUEST			
Project Manager: Michael Collier				P.O. #:							
Address:				Company: Cimarex Energy							
City:				Attn: Laci Luiig							
State:				Address:							
Phone #:				City:							
Fax #:				State:							
Project #:				Zip:							
Project Name: Southern California 29 Federal 16H (SC-29)				Phone #:							
Project Location: Lea County, NM				Fax #:							
Sampler Name: Roy Bell				MATRIX				PRESERV.			
Lab I.D.				SAMPLING							

FOR LAB USE ONLY		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER :		ACID/BASE:		ICE / COOL		OTHER :		DATE		TIME		BTX		TPH		Chlorides	
Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		X		X		X		X		X		X		X		X		X		X		X		X	
S-1 5'		C		1		X		X		X		X		X		X		X		X		X		X		X		X	
S-2 5'		C		1		X		X		X		X		X		X		X		X		X		X		X		X	
S-3 5'		C		1		X		X		X		X		X		X		X		X		X		X		X		X	
S-4 4'		C		1		X		X		X		X		X		X		X		X		X		X		X		X	
S-5 4'		C		1		X		X		X		X		X		X		X		X		X		X		X		X	
S-6 4'		C		1		X		X		X		X		X		X		X		X		X		X		X		X	
S-7 4'		C		1		X		X		X		X		X		X		X		X		X		X		X		X	
S-8 4'		C		1		X		X		X		X		X		X		X		X		X		X		X		X	
S-9 4'		C		1		X		X		X		X		X		X		X		X		X		X		X		X	
S-10 4'		C		1		X		X		X		X		X		X		X		X		X		X		X		X	

Relinquished By:				Date: 8-25-22				Received By:				Date:			
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ANALYSIS REQUEST

[illegible]

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: H&R Enterprises		BILL TO		ANALYSIS REQUEST																																	
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: Southern California 29 Federal 16H (SC-29)		City:																																			
Project Location: Lea County, NM		State:																																			
Sampler Name: Roy Bell		Phone #:																																			
Fax #:																																					
Lab I.D.																																					
Sample I.D.		(G)RAB OR (C)OMP.		MATRIX		PRESERV.		SAMPLING																													
		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER : ACID/BASE:		ICE / COOL		OTHER :		DATE		TIME		BTEX		TPH		Chlorides									
41 SW-9 5'		C 1		X		X		X		X		X		X		X		X		8-15-22		X		X		X											
42 BG-1 0-1'		X		X		X		X		X		X		X		X		X		X		X		X		X											
43 BG-2 0-1'		X		X		X		X		X		X		X		X		X		X		X		X		X											
44 BG-3 0-1'		X		X		X		X		X		X		X		X		X		X		X		X		X											
45 BG-4 0-1'		X		X		X		X		X		X		X		X		X		X		X		X		X											
Relinquished By:		Date: 8-25-22		Received By:		Date: 8-15-22		Time: 1448		Time: 1448		Time: 1448		Time: 1448		Time: 1448		Time: 1448		Time: 1448		Time: 1448		Time: 1448		Time: 1448											
Bathquished By:		Date: 8-25-22		Received By:		Date: 8-15-22		Time: 1448		Time: 1448		Time: 1448		Time: 1448		Time: 1448		Time: 1448		Time: 1448		Time: 1448		Time: 1448		Time: 1448											
Delivered By: (Circle One)		Observed Temp. °C		Corrected Temp. °C		Sample Condition		Cool / Intact		Checked By: (Initials)		Thermometer ID		Correction Factor		Thermometer ID		Correction Factor		Thermometer ID		Correction Factor		Thermometer ID		Correction Factor											
Sampler - UPS - Bus - Other:		0.8		0.2		Cool / Intact		Cool / Intact		V-E		#113		-0.5°C		#113		-0.5°C		#113		-0.5°C		#113		-0.5°C											

FORM-006 R 3.2 10/07/21

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



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

September 02, 2022

MICHAEL COLLIER

H & R ENTERPRISES

1010 GAMBLIN ROAD

HOBBS, NM 88240

RE: SOUTHERN CALI 29 FED 16H

Enclosed are the results of analyses for samples received by the laboratory on 09/01/22 12:08.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/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: 09/01/2022
 Reported: 09/02/2022
 Project Name: SOUTHERN CALI 29 FED 16H
 Project Number: (SC - 29)
 Project Location: CIMAREX - LEA CO NM

Sampling Date: 09/01/2022
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: SW - 1 5' (H224021-01)

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	09/02/2022	ND	1.88	94.1	2.00	2.37	
Toluene*	<0.050	0.050	09/02/2022	ND	1.86	92.9	2.00	3.74	
Ethylbenzene*	<0.050	0.050	09/02/2022	ND	1.84	91.9	2.00	4.50	
Total Xylenes*	<0.150	0.150	09/02/2022	ND	5.72	95.4	6.00	3.35	
Total BTX	<0.300	0.300	09/02/2022	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	80.0	16.0	09/02/2022	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	09/02/2022	ND	196	98.2	200	0.701	
DRO >C10-C28*	<10.0	10.0	09/02/2022	ND	194	96.8	200	7.14	
EXT DRO >C28-C36	<10.0	10.0	09/02/2022	ND					

Surrogate: 1-Chlorooctane 86.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 89.1 % 46.3-178

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: 09/01/2022
 Reported: 09/02/2022
 Project Name: SOUTHERN CALI 29 FED 16H
 Project Number: (SC - 29)
 Project Location: CIMAREX - LEA CO NM

Sampling Date: 09/01/2022
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: SW - 2 5' (H224021-02)

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	09/02/2022	ND	1.88	94.1	2.00	2.37		
Toluene*	<0.050	0.050	09/02/2022	ND	1.86	92.9	2.00	3.74		
Ethylbenzene*	<0.050	0.050	09/02/2022	ND	1.84	91.9	2.00	4.50		
Total Xylenes*	<0.150	0.150	09/02/2022	ND	5.72	95.4	6.00	3.35		
Total BTX	<0.300	0.300	09/02/2022	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	144	16.0	09/02/2022	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	09/02/2022	ND	196	98.2	200	0.701	
DRO >C10-C28*	<10.0	10.0	09/02/2022	ND	194	96.8	200	7.14	
EXT DRO >C28-C36	<10.0	10.0	09/02/2022	ND					

Surrogate: 1-Chlorooctane 82.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 85.1 % 46.3-178

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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: 09/01/2022
 Reported: 09/02/2022
 Project Name: SOUTHERN CALI 29 FED 16H
 Project Number: (SC - 29)
 Project Location: CIMAREX - LEA CO NM

Sampling Date: 09/01/2022
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: SW - 3 4' (H224021-03)

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	09/02/2022	ND	1.88	94.1	2.00	2.37		
Toluene*	<0.050	0.050	09/02/2022	ND	1.86	92.9	2.00	3.74		
Ethylbenzene*	<0.050	0.050	09/02/2022	ND	1.84	91.9	2.00	4.50		
Total Xylenes*	<0.150	0.150	09/02/2022	ND	5.72	95.4	6.00	3.35		
Total BTEx	<0.300	0.300	09/02/2022	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	32.0	16.0	09/02/2022	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	09/02/2022	ND	196	98.2	200	0.701	
DRO >C10-C28*	<10.0	10.0	09/02/2022	ND	194	96.8	200	7.14	
EXT DRO >C28-C36	<10.0	10.0	09/02/2022	ND					

Surrogate: 1-Chlorooctane 75.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 77.5 % 46.3-178

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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: 09/01/2022
 Reported: 09/02/2022
 Project Name: SOUTHERN CALI 29 FED 16H
 Project Number: (SC - 29)
 Project Location: CIMAREX - LEA CO NM

Sampling Date: 09/01/2022
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: SW - 4 4' (H224021-04)

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	09/02/2022	ND	1.88	94.1	2.00	2.37		
Toluene*	<0.050	0.050	09/02/2022	ND	1.86	92.9	2.00	3.74		
Ethylbenzene*	<0.050	0.050	09/02/2022	ND	1.84	91.9	2.00	4.50		
Total Xylenes*	<0.150	0.150	09/02/2022	ND	5.72	95.4	6.00	3.35		
Total BTEX	<0.300	0.300	09/02/2022	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	48.0	16.0	09/02/2022	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	09/02/2022	ND	196	98.2	200	0.701	
DRO >C10-C28*	<10.0	10.0	09/02/2022	ND	194	96.8	200	7.14	
EXT DRO >C28-C36	<10.0	10.0	09/02/2022	ND					

Surrogate: 1-Chlorooctane 85.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 87.2 % 46.3-178

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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: 09/01/2022
 Reported: 09/02/2022
 Project Name: SOUTHERN CALI 29 FED 16H
 Project Number: (SC - 29)
 Project Location: CIMAREX - LEA CO NM

Sampling Date: 09/01/2022
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: SW - 5 4' (H224021-05)

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	09/02/2022	ND	1.88	94.1	2.00	2.37		
Toluene*	<0.050	0.050	09/02/2022	ND	1.86	92.9	2.00	3.74		
Ethylbenzene*	<0.050	0.050	09/02/2022	ND	1.84	91.9	2.00	4.50		
Total Xylenes*	<0.150	0.150	09/02/2022	ND	5.72	95.4	6.00	3.35		
Total BTEX	<0.300	0.300	09/02/2022	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	80.0	16.0	09/02/2022	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	09/02/2022	ND	196	98.2	200	0.701	
DRO >C10-C28*	<10.0	10.0	09/02/2022	ND	194	96.8	200	7.14	
EXT DRO >C28-C36	<10.0	10.0	09/02/2022	ND					

Surrogate: 1-Chlorooctane 90.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 93.0 % 46.3-178

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: 09/01/2022
 Reported: 09/02/2022
 Project Name: SOUTHERN CALI 29 FED 16H
 Project Number: (SC - 29)
 Project Location: CIMAREX - LEA CO NM

Sampling Date: 09/01/2022
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: SW - 6 4' (H224021-06)

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	09/02/2022	ND	1.88	94.1	2.00	2.37		
Toluene*	<0.050	0.050	09/02/2022	ND	1.86	92.9	2.00	3.74		
Ethylbenzene*	<0.050	0.050	09/02/2022	ND	1.84	91.9	2.00	4.50		
Total Xylenes*	<0.150	0.150	09/02/2022	ND	5.72	95.4	6.00	3.35		
Total BTEX	<0.300	0.300	09/02/2022	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	224	16.0	09/02/2022	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	09/02/2022	ND	196	98.2	200	0.701	
DRO >C10-C28*	<10.0	10.0	09/02/2022	ND	194	96.8	200	7.14	
EXT DRO >C28-C36	<10.0	10.0	09/02/2022	ND					

Surrogate: 1-Chlorooctane 88.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 90.2 % 46.3-178

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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: 09/01/2022
 Reported: 09/02/2022
 Project Name: SOUTHERN CALI 29 FED 16H
 Project Number: (SC - 29)
 Project Location: CIMAREX - LEA CO NM

Sampling Date: 09/01/2022
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: SW - 7 4' (H224021-07)

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	09/02/2022	ND	1.88	94.1	2.00	2.37		
Toluene*	<0.050	0.050	09/02/2022	ND	1.86	92.9	2.00	3.74		
Ethylbenzene*	<0.050	0.050	09/02/2022	ND	1.84	91.9	2.00	4.50		
Total Xylenes*	<0.150	0.150	09/02/2022	ND	5.72	95.4	6.00	3.35		
Total BTEx	<0.300	0.300	09/02/2022	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	208	16.0	09/02/2022	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	09/02/2022	ND	196	98.2	200	0.701	
DRO >C10-C28*	<10.0	10.0	09/02/2022	ND	194	96.8	200	7.14	
EXT DRO >C28-C36	<10.0	10.0	09/02/2022	ND					

Surrogate: 1-Chlorooctane 89.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 90.9 % 46.3-178

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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: 09/01/2022
 Reported: 09/02/2022
 Project Name: SOUTHERN CALI 29 FED 16H
 Project Number: (SC - 29)
 Project Location: CIMAREX - LEA CO NM

Sampling Date: 09/01/2022
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: SW - 8 4' (H224021-08)

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	09/02/2022	ND	1.88	94.1	2.00	2.37		
Toluene*	<0.050	0.050	09/02/2022	ND	1.86	92.9	2.00	3.74		
Ethylbenzene*	<0.050	0.050	09/02/2022	ND	1.84	91.9	2.00	4.50		
Total Xylenes*	<0.150	0.150	09/02/2022	ND	5.72	95.4	6.00	3.35		
Total BTEx	<0.300	0.300	09/02/2022	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	09/02/2022	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	09/02/2022	ND	196	98.2	200	0.701	
DRO >C10-C28*	<10.0	10.0	09/02/2022	ND	194	96.8	200	7.14	
EXT DRO >C28-C36	<10.0	10.0	09/02/2022	ND					

Surrogate: 1-Chlorooctane 84.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 86.8 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

BILL TO

ANALYSIS REQUEST

Company Name: <u>H&R Enterprises</u>		P.O. #:		
Project Manager: <u>M. Collier</u>		Company:		
Address:		Attn:		
City:	State:	Zip:		
Phone #:	Fax #:	City:		
Project #:	Project Owner: <u>Cinquest Energy</u>	State:		
Project Name: <u>Southern California 29 Feb. 16H (SC-29)</u>		Zip:		
Project Location: <u>Lea County, NM</u>		Phone #:		
Sample Name: <u>R. Bell</u>		Fax #:		

Lab I.D.	Sample I.D.	FOR LAB USE ONLY		MATRIX		PRESERV.		DATE	TIME	ANALYSIS REQUEST	
		(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL			SLUDGE	OTHER:
19240A1	SW-1					X					X BTEX
2	SW-2										X TPH
3	SW-3										X Chlorides
4	SW-4										
5	SW-5										
6	SW-6										
7	SW-7										
8	SW-8										

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Relinquished By: R. Bell Date: 9/1/22 Time: 1208 Received By: Stockingers

Delivered By: (Circle One) Observed Temp. °C 14.4 Sample Condition Intact CHECKED BY: (Initials) SC

Sampler - UPS - Bus - Other: Corrected Temp. °C 13.8 ☐ Yes ☒ No

Turnaround Time: Standard ☐ Rush ☒ Bacteria (only) Sample Condition ☐ Cool ☐ Intact ☐ Yes ☐ No ☐ Corrected Temp. °C

Thermometer ID #113 Correction Factor -0.5°C

Verbal Result: ☐ Yes ☐ No Add'l Phone #: All Results are emailed. Please provide Email address:

REMARKS:

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

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 144416

CONDITIONS

Operator: CIMAREX ENERGY CO. OF COLORADO 600 N. Marienfeld Street Midland, TX 79701	OGRID: 162683
	Action Number: 144416
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Closure Report Approved. Please note the latitude and longitude of the dtw boring placed the boring 1.1 miles east of this release. Going forward, please state the surface will be seeded to match previous site conditions as mandated by 19.15.29.13 NMAC.	9/21/2022