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## Remediation and Closure Report

Empire A Federal Com 3H  
Eddy County, New Mexico  
**Incident # nAPP2220223048**

### Prepared For:

Cimarex Energy Company  
600 N. Marienfeld Street, Ste. 600  
Midland, TX 79701

### Prepared By:

Talon/LPE  
408 W. Texas Avenue  
Artesia, New Mexico 88210

**September 29, 2022**



Mike Bratcher  
**NMOCD**  
506 W. Texas  
Artesia, NM 88210

Subject: **Remediation and Work Plan**  
Empire A Federal Com 3H  
Eddy County, New Mexico  
**Incident #nAPP2220223048**

Dear Mr. Bratcher,

Cimarex Energy, Co. contracted Talon/LPE (Talon) to perform soil assessment and remediation services at the above referenced location. The incident description, soil sampling results, remedial actions and work variance request is presented herein.

### Site Information

The Empire A Federal Com 3H is located approximately twenty-one (21) miles southeast of Artesia, New Mexico. The legal location for this release is Unit Letter M, Section 27, Township 18 South and Range 29 East in Eddy County, New Mexico. More specifically the latitude and longitude for the release are 32.71205 and -104.06822. A Site Location Map is presented in [Appendix I](#).

According to the soil survey provided by the United States Department of Agriculture National Resources Conservation Services, the soil in this area is made up of Berino-Dune land complex with 0-3 percent slopes. The referenced soil data is presented in [Appendix II](#). Per the New Mexico Bureau of Geology and Mineral Resources, the local surface and shallow geology consists of Eolian Deposits, Holocene to Middle Pleistocene in age. This area has slight salinity (2.0 to 4.0 mmhos/cm). Drainage courses in this area are typically well drained.

### Ground Water and Site Characterization

The New Mexico Office of the State Engineer Database indicates the nearest reported depth to groundwater is 180-feet below ground surface (bgs). See [Appendix II](#) for the referenced groundwater depth. Further research of the Bureau of Land Management Karst data indicates that this site is not situated within a potential Karst area.

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

<b>Approximate Depth to Groundwater</b>	<b>180 Feet/bgs</b>
---	---------------------

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

Because the release occurred in an area where the referenced groundwater exceeds .5-mile radius the cleanup criteria for this site is as follows.

Table I Closure Criteria for Soils Impacted by a Release			
Depth below horizontal extents of release to ground water less than 10,000 mg/l TDS	Constituent	Method	Limit
≤ 50 feet	Total Chlorides	EPA 300.0 or SM4500 Cl B	600 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	100 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg

## Incident Description

According to the C-141 Release Notification, on July 20, 2022 a release was discovered, whereby the well had a dramatic increase in fluid made and ran over the tanks that were in service. Cimarex Energy was able to recover 404 barrels from the containment. The majority of the fluid remained inside the containment. However, some fluid escaped the containment, traversed the pad and pasture area. C-141 is presented in [Appendix III](#). A site Location Map is presented in [Appendix I](#).

On September 14, 2022 upon client authorization and New Mexico line locate clearance respectively, Talon personnel and equipment were mobilized to the site in order to remediate the contaminated area and confirmation sample, map and photo document the excavated areas of the pad and pasture. Field titrations were used to guide the excavation in the pad and pasture area to depths of 1 foot to 10 feet in depth, Hydro-vacs were mobilized for contaminated soil removal around electrical lines. Complete site plans with sample positions are attached in [Appendix I](#). All soil samples were properly collected, and preserved for transport to Cardinal Laboratories via chain of custody for analysis of Total Chlorides (Method SM4500Cl-B), TPH (Method 8015M), and BTEX (Method 8021B) in order to confirm that NMOCD clean-up criteria had been achieved. The confirmation results from the laboratory are tabulated below.

**Table I**  
*Confirmation Soil Sample Laboratory Results*

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	Chlorides mg/kg
NMOCD Table 1 Closure Criteria 19.15.29 NMAC			50 mg/kg	10 mg/kg	DRO + GRO + MRO combined = 100 mg/kg			100 mg/kg	600 mg/kg
S-1	9/15/2022	0-1'	ND	ND	ND	ND	ND	-	48
	9/15/2022	2'	ND	ND	ND	ND	ND	-	64
S-2	9/15/2022	0-1'	ND	ND	ND	280	ND	280	320
	9/15/2022	2'	ND	ND	ND	ND	ND	-	80
S-3	9/15/2022	0-1'	ND	ND	ND	129	ND	129	496
	9/15/2022	2'	ND	ND	ND	ND	ND	-	272
S-4	9/15/2022	0-1'	ND	ND	ND	418	120	538	1720
	9/15/2022	2'	ND	ND	ND	ND	10.3	10.3	1360
	9/15/2022	3'	ND	ND	ND	ND	ND	-	896
	9/15/2022	4'	ND	ND	ND	ND	ND	-	16
S-5	9/19/2022	0-1'	ND	ND	ND	ND	ND	-	496
	9/19/2022	2'	ND	ND	ND	ND	ND	-	1020
	9/19/2022	3'	ND	ND	ND	ND	ND	-	80
S-6	9/19/2022	0-1'	ND	ND	ND	ND	ND	-	3280
	9/19/2022	2'	ND	ND	ND	ND	ND	-	656
	9/19/2022	3'	ND	ND	ND	ND	ND	-	304



S-7	9/16/2022	0-1'	47.8	ND	622	4180	841	5643	64
	9/16/2022	2'	41.9	ND	425	3530	815	4770	32
	9/16/2022	4'	9.58	ND	64	592	122	778	224
	9/16/2022	6'	ND	ND	ND	ND	ND	0	208
	9/16/2022	8'	ND	ND	ND	10	ND	10	144
	9/16/2022	10'	ND	ND	ND	ND	ND	-	64
S-8	9/19/2022	0-1'	ND	ND	ND	534	119	653	224
	9/19/2022	2'	ND	ND	ND	ND	ND	-	128
S-9	9/19/2022	0-1'	ND	ND	ND	1160	228	1388	272
	9/19/2022	2'	ND	ND	ND	ND	ND	-	160
S-10	9/19/2022	0-1'	ND	ND	ND	32.7	10.9	43.6	448
S-11	9/19/2022	0-1'	ND	ND	ND	ND	ND	-	64
N.SW-1	9/15/2022	2'	ND	ND	ND	ND	ND	-	32
N.SW-2	9/15/2022	2'	ND	ND	ND	ND	ND	-	224
N.SW-3	9/19/2022	2'	ND	ND	ND	ND	ND	-	208
S.SW-1	9/15/2022	2'	ND	ND	ND	ND	ND	-	128
S.SW-2	9/15/2022	2'	ND	ND	ND	ND	ND	-	176
S.SW-3	9/19/2022	10'	ND	ND	ND	16.6	ND	16.6	16
S.SW-4	9/19/2022	1'	ND	ND	ND	ND	ND	-	32
S.SW-5	9/19/2022	3'	ND	ND	ND	ND	ND	-	112
W.SW-1	9/15/2022	2'	ND	ND	ND	ND	ND	-	96
W.SW-2	9/15/2022	2'	ND	ND	ND	ND	ND	-	112
W.SW-3	9/15/2022	4'	ND	ND	ND	ND	ND	-	736
W.SW-3A*	9/23/2022	4'	ND	ND	ND	ND	ND	-	272
W.SW-4	9/19/2022	3'	ND	ND	ND	ND	ND	-	96
E.SW-1	9/19/2022	10'	ND	ND	ND	25.6	ND	25.6	32
E.SW-2	9/19/2022	3'	ND	ND	ND	ND	ND	-	176
E.SW-3	9/19/2022	3'	ND	ND	ND	30.6	ND	30.6	32
BG-1	9/20/2022	0'	ND	ND	ND	ND	ND	-	16
BG-2	9/20/2022	0'	ND	ND	ND	ND	ND	-	32
BG-3	9/20/2022	0'	ND	ND	ND	ND	ND	-	16
BG-4	9/20/2022	0'	ND	ND	ND	ND	ND	-	16
ND = Analyte Not Detected SW = Sidewall Sample * = Extended horizontally 1'									

See [Appendix VI](#) for the complete report of laboratory results.

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### Remedial Actions

- The spill footprint area for the pad was excavated from depths of 1 to 4 feet bgs., and to the horizontal extent that all sidewalls and bottoms of excavated areas were remediated to Table I Standards. All samples were collected on a 5-point composite basis. Laboratory analysis confirms that NMOCD remediation guidelines for soil remediation were achieved in these areas.
- Sidewall and background samples were obtained in order to confirm horizontal delineation.
- The impacted pasture area was excavated to a depth of 10 feet, vertical and horizontal delineation were achieved to NMOCD Table 1 clean up criteria, backfilled with native clean sand, restored to Dunal like features, terraced to prevent erosion, and seeded with BLM LPC seed mixture ([Appendix V](#)), as can be seen in photographic photo documentation ([Appendix IV](#))
- All contaminated soil was transported to Lea Land, LLC (146 yards), and R360 Environmental Solutions, NMOCD approved disposal facilities.
- On September 27, 2022, upon client authorization and 48 hour notification, Talon personel along with a Cimarex representative, were mobilized to the site in order to conduct a Liner Integrity Certification ([Appendix VII](#)).

## Closure

Based on this site characterization, remedial actions completed, and analytical results, we request that no further actions be required and that closure of the regulatory file with regard to this incident be granted.

Should you have any questions or if further information is required, please do not hesitate to contact our office at 575-746-8768.

Respectfully submitted,

Talon/LPE

James W.  
Carnes

Digitally signed by James W. Carnes  
DN: cn=James W. Carnes, o=Talon  
LPE, ou=Environmental Scientist,  
email=jcarnes@talonlpe.com, c=US  
Date: 2022.10.05 09:19:14 -0600

James W. Carnes  
Environmental Scientist

Rebecca S. Pons

Digitally signed by Rebecca S. Pons  
DN: cn=Rebecca S. Pons, o=TalonLPE, ou=Senior  
Environmental Project Manager,  
email=Rebecca@talonlpe.com, c=US  
Date: 2022.10.05 10:07:04 -0600

Rebecca S. Pons  
Senior Environmental Project Manager

### Attachments:

- Appendix I Site Maps
- Appendix II Groundwater Data, Soil Survey, Karst Map, FEMA Map
- Appendix III C-141 Forms – NMOCD Correspondence
- Appendix IV Photographic Documentation
- Appendix V Seed Tag
- Appendix VI Laboratory Data
- Appendix VII Liner Integrity Certification



## Appendix I

### Site Maps



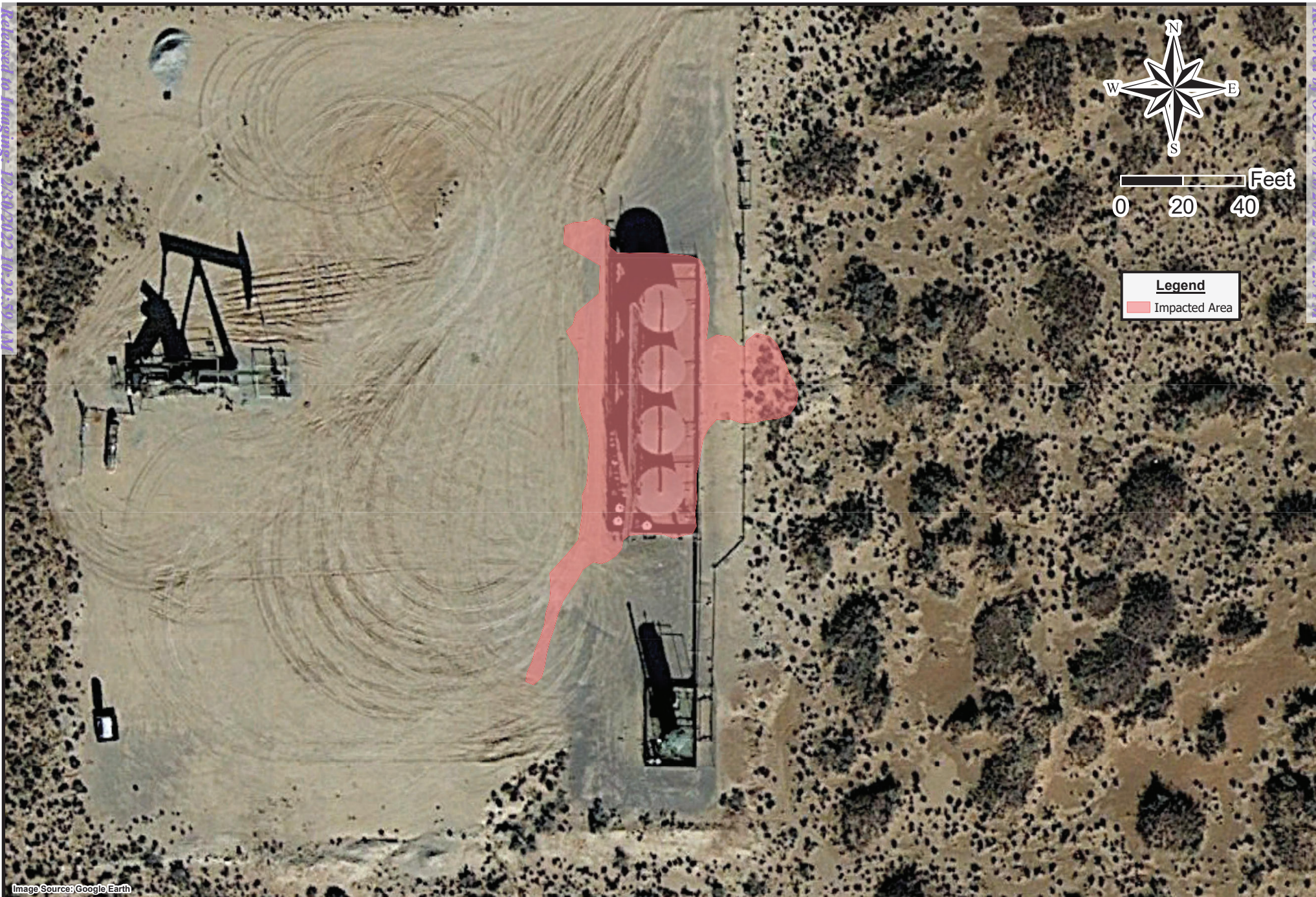


Image Source: Google Earth



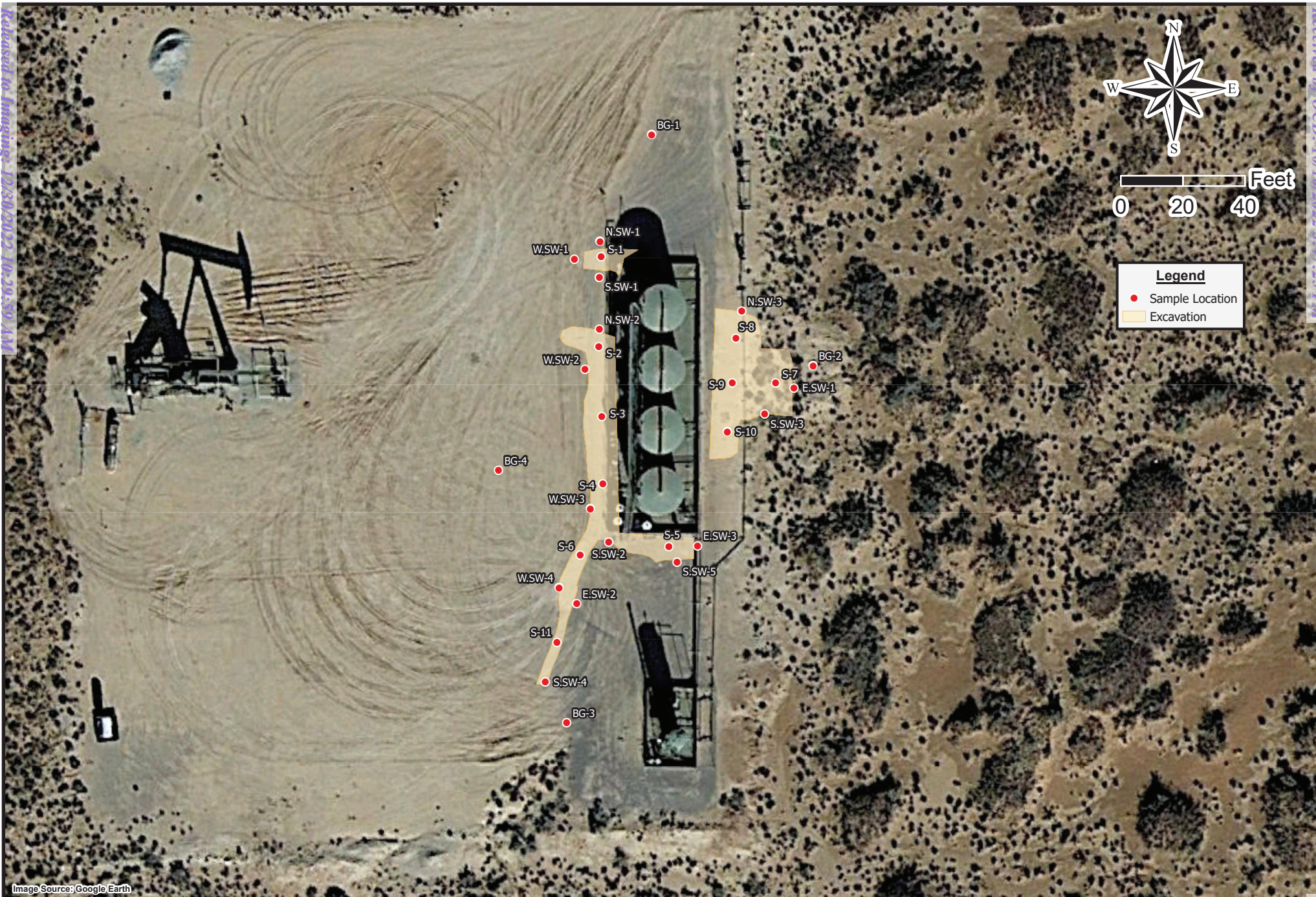
Drafted: 10/4/2022

1 in = 40 ft

Drafted By: JAI

Cimarex Energy Co.  
Empire A Federal Com #003H  
Eddy County, New Mexico  
Figure 1 - Site Assessment Map

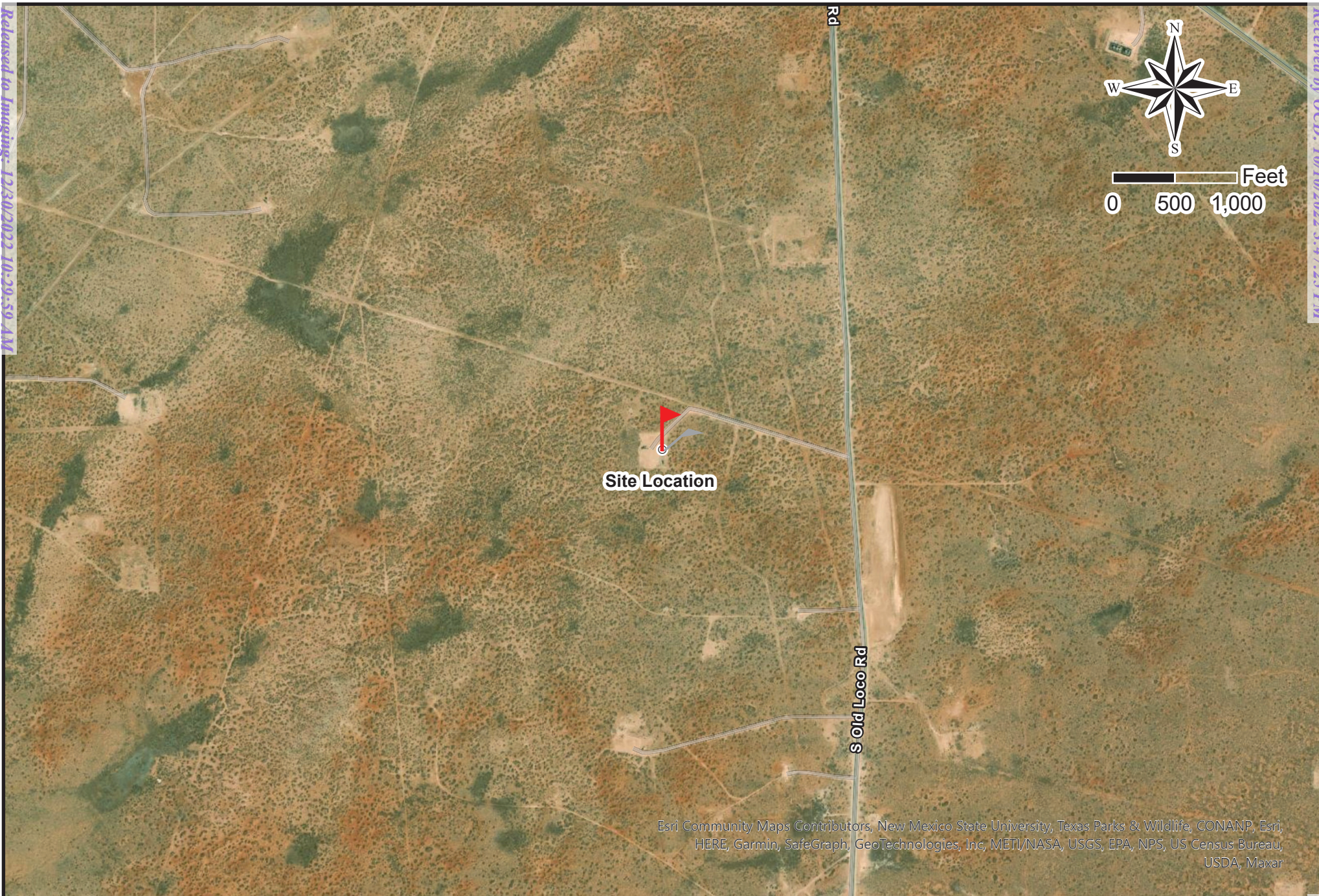




Drafted: 10/4/2022  
1 in = 40 ft  
Drafted By: JAI

Cimarex Energy Co.  
Empire A Federal Com #003H  
Eddy County, New Mexico  
Figure 2 - Confirmation Map





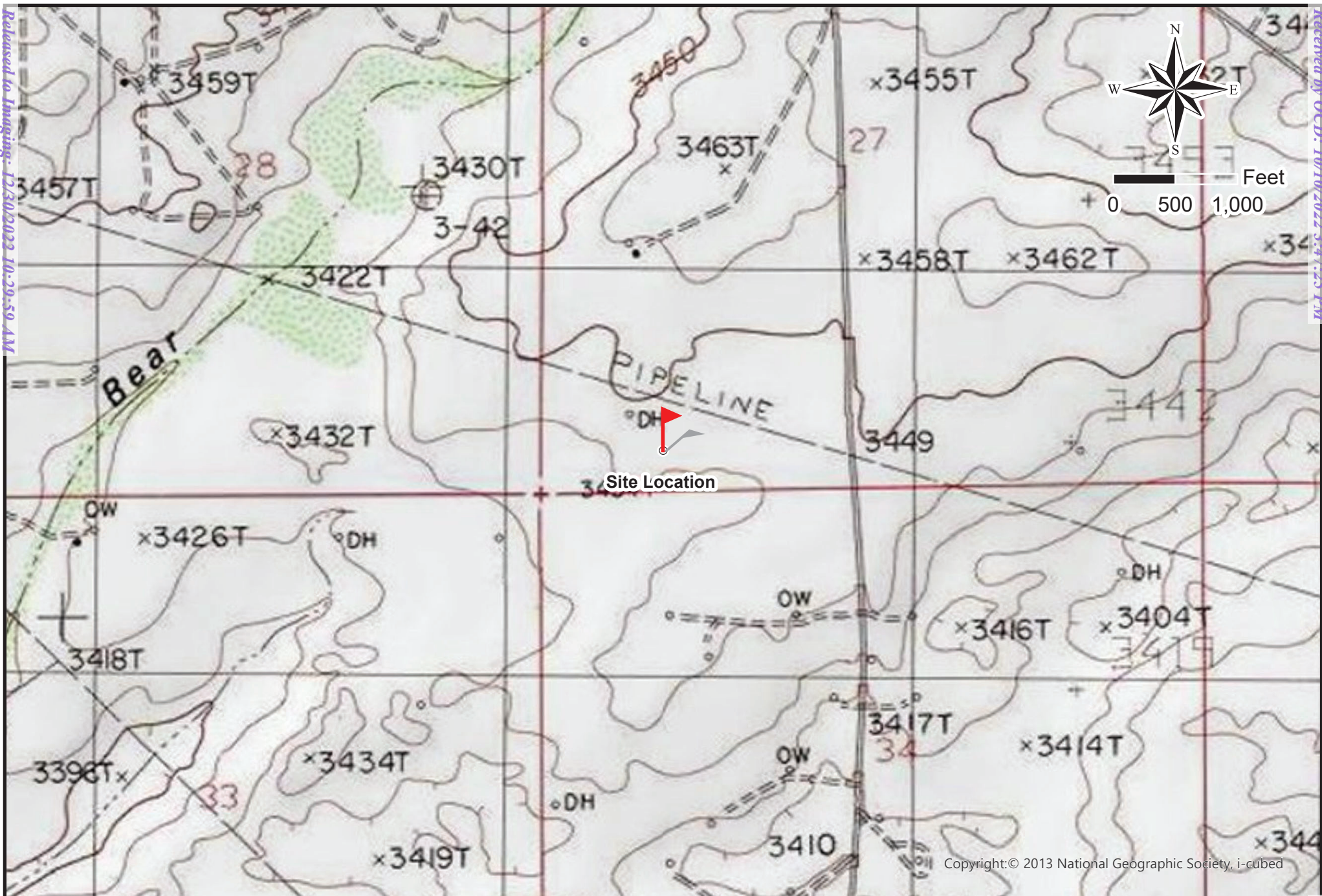
Esri Community Maps Contributors, New Mexico State University, Texas Parks & Wildlife, CONANP, Esri, HERE, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA, Maxar



Drafted: 10/4/2022  
1 in = 1,000 ft  
Drafted By: JAI

Cimarex Energy Co.  
Empire A Federal Com #003H  
Eddy County, New Mexico  
Figure 3 - Location Map

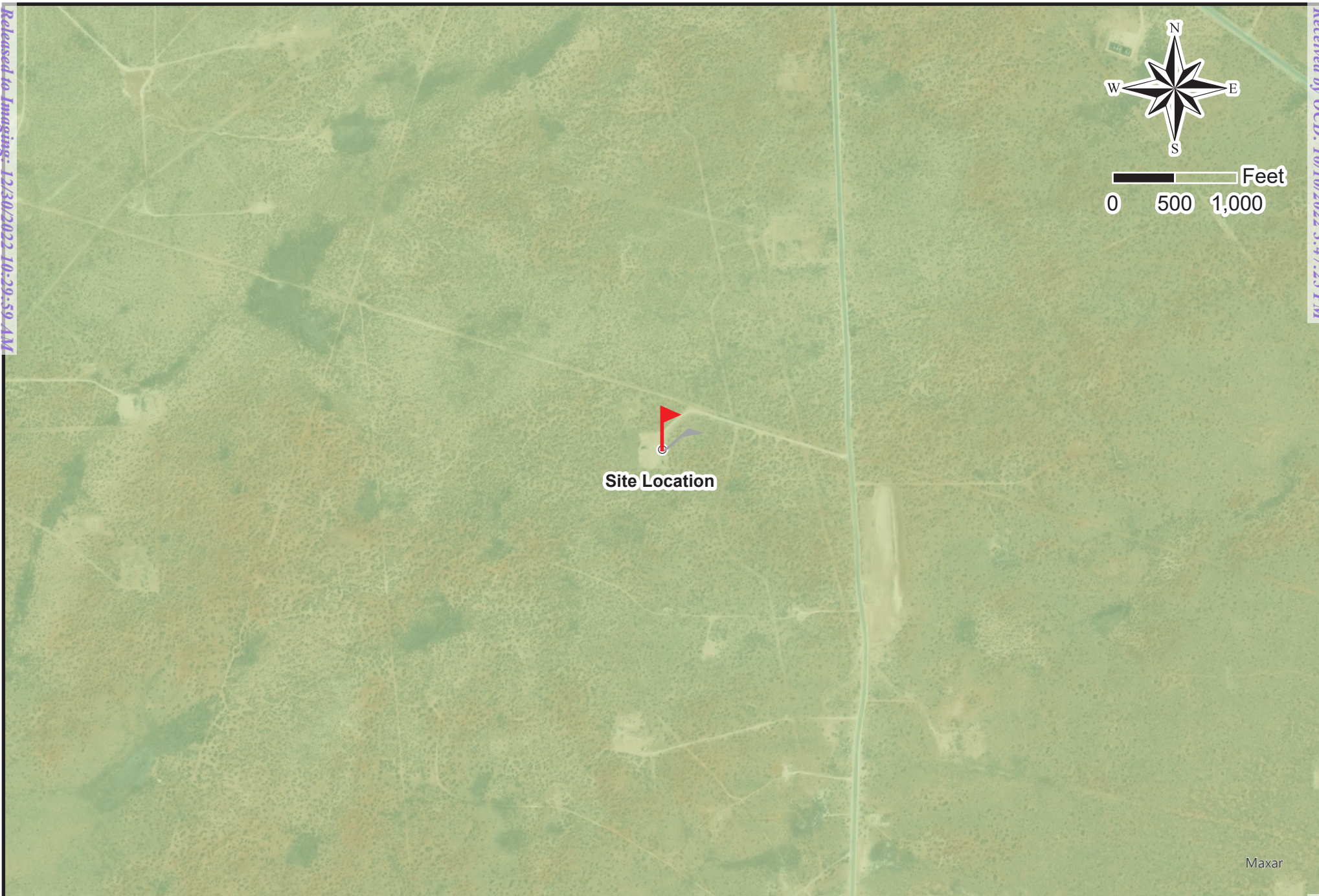




Drafted: 10/4/2022  
1 in = 1,000 ft  
Drafted By: JAI

Cimarex Energy Co.  
Empire A Federal Com #003H  
Eddy County, New Mexico  
Figure 4 - Topographic Map





Maxar



Drafted: 10/4/2022  
1 in = 1,000 ft  
Drafted By: JAI

Cimarex Energy Co.  
Empire A Federal Com #003H  
Eddy County, New Mexico  
Figure 5 - Karst Map



## Appendix II

### Groundwater Data, & Soil Survey, Wetlands Map



# New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

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

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

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
<a href="#">CP 00863</a>		CP	ED	1	4	2	27	18S	29E	588341	3620768*	1437	320		
<a href="#">CP 00626 POD2</a>		CP	ED	3	2	1	03	19S	29E	587660	3617880	1898	240	195	45
<a href="#">CP 00626 POD1</a>		CP	ED	2	3	1	03	19S	29E	587360	3617575	2174	286	247	39
<a href="#">CP 01618 POD1</a>		CP	ED	3	4	2	29	18S	29E	585120	3620554	2349	240	180	60
<a href="#">CP 00582 POD1</a>		CP	ED				24	18S	29E	591048	3622096*	4399	150		

Average Depth to Water: **207 feet**

Minimum Depth: **180 feet**

Maximum Depth: **247 feet**

Record Count: 5

### UTM NAD83 Radius Search (in meters):

Easting (X): 587326.26

Northing (Y): 3619749.27

Radius: 5000

\*UTM location was derived from PLSS - see Help

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

7/20/22 3:35 PM

WATER COLUMN/ AVERAGE DEPTH TO  
WATER






# New Mexico Office of the State Engineer

## Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

<b>Well Tag</b>	<b>POD Number</b>	<b>Q64</b>	<b>Q16</b>	<b>Q4</b>	<b>Sec</b>	<b>Tws</b>	<b>Rng</b>	<b>X</b>	<b>Y</b>
	CP 01618 POD1	3	4	2	29	18S	29E	585120	3620554 

x

**Driller License:** 1058      **Driller Company:** KEY'S DRILLING & PUMP SERVICE

**Driller Name:** DON KUEHN III

**Drill Start Date:** 08/23/2016      **Drill Finish Date:** 08/26/2016      **Plug Date:**

**Log File Date:** 09/12/2016      **PCW Rcv Date:**      **Source:** Shallow

**Pump Type:**      **Pipe Discharge Size:**      **Estimated Yield:** 2 GPM

**Casing Size:** 4.50      **Depth Well:** 240 feet      **Depth Water:** 180 feet

x

<b>Water Bearing Stratifications:</b>	<b>Top</b>	<b>Bottom</b>	<b>Description</b>
	140	200	Sandstone/Gravel/Conglomerate
	200	240	Sandstone/Gravel/Conglomerate

x

<b>Casing Perforations:</b>	<b>Top</b>	<b>Bottom</b>
	200	240

x

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.

9/29/22 12:30 PM

POINT OF DIVERSION SUMMARY


# Custom Soil Resource Report Soil Map



Custom Soil Resource Report

MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)

Soils

 Soil Map Unit Polygons

 Soil Map Unit Lines


 Soil Map Unit Points

Special Point Features

 Blowout

 Borrow Pit

 Clay Spot

 Closed Depression

 Gravel Pit

 Gravelly Spot

 Landfill

 Lava Flow

 Marsh or swamp

 Mine or Quarry

 Miscellaneous Water


 Perennial Water


 Rock Outcrop


 Saline Spot

 Sandy Spot

 Severely Eroded Spot

 Sinkhole

 Slide or Slip

 Sodic Spot

 Spoil Area

 Stony Spot

 Very Stony Spot

 Wet Spot

 Other

 Special Line Features

Water Features

 Streams and Canals


Transportation

 Rails

 Interstate Highways

 US Routes

 Major Roads

 Local Roads

Background

 Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service  
Web Soil Survey URL:  
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Eddy Area, New Mexico  
Survey Area Data: Version 17, Sep 12, 2021

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Feb 27, 2020—Feb 28, 2020

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.



## Custom Soil Resource Report

**Eddy Area, New Mexico****BD—Berino-Dune land complex, 0 to 3 percent slopes****Map Unit Setting***National map unit symbol: 1w44**Elevation: 2,450 to 5,500 feet**Mean annual precipitation: 8 to 15 inches**Mean annual air temperature: 57 to 70 degrees F**Frost-free period: 180 to 230 days**Farmland classification: Not prime farmland***Map Unit Composition***Berino and similar soils: 45 percent**Dune land: 40 percent**Minor components: 15 percent**Estimates are based on observations, descriptions, and transects of the mapunit.***Description of Berino****Setting***Landform: Plains, fan piedmonts**Landform position (three-dimensional): Riser**Down-slope shape: Convex**Across-slope shape: Linear**Parent material: Mixed alluvium and/or eolian sands***Typical profile***H1 - 0 to 17 inches: fine sandy loam**H2 - 17 to 50 inches: sandy clay loam**H3 - 50 to 60 inches: loamy sand***Properties and qualities***Slope: 0 to 3 percent**Depth to restrictive feature: More than 80 inches**Drainage class: Well drained**Runoff class: Low**Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high  
(0.60 to 2.00 in/hr)**Depth to water table: More than 80 inches**Frequency of flooding: None**Frequency of ponding: None**Calcium carbonate, maximum content: 40 percent**Maximum salinity: Very slightly saline to slightly saline (2.0 to 4.0 mmhos/cm)**Sodium adsorption ratio, maximum: 1.0**Available water supply, 0 to 60 inches: Moderate (about 7.7 inches)***Interpretive groups***Land capability classification (irrigated): 3e**Land capability classification (nonirrigated): 7e**Hydrologic Soil Group: B**Ecological site: R042XC007NM - Loamy**Hydric soil rating: No*

## Custom Soil Resource Report

### Description of Dune Land

#### Setting

*Landform:* Dune fields

*Landform position (two-dimensional):* Shoulder, backslope, footslope

*Landform position (three-dimensional):* Talf

*Down-slope shape:* Convex, linear

*Across-slope shape:* Convex, linear

*Parent material:* Mixed alluvium and/or eolian sands

#### Typical profile

*H1 - 0 to 6 inches:* sandy loam

*H2 - 6 to 60 inches:* sandy loam

#### Interpretive groups

*Land capability classification (irrigated):* None specified

*Land capability classification (nonirrigated):* 7e

*Hydric soil rating:* No

### Minor Components

#### Kermit

*Percent of map unit:* 5 percent

*Ecological site:* R042XC005NM - Deep Sand

*Hydric soil rating:* No

#### Cacique

*Percent of map unit:* 5 percent

*Ecological site:* R042XC004NM - Sandy

*Hydric soil rating:* No

#### Active dune land

*Percent of map unit:* 5 percent

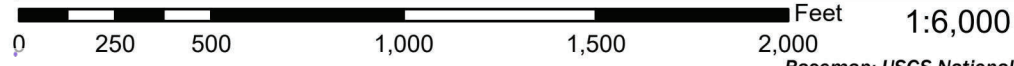
*Hydric soil rating:* No



# National Flood Hazard Layer FIRMette



104°4'24"W 32°42'58"N



Basemap: USGS National Map: Orthoimagery: Data refreshed October, 2020

## Legend

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

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile
		Future Conditions 1% Annual Chance Flood Hazard
		Area with Reduced Flood Risk due to Levee. See Notes.
		Area with Flood Risk due to Levee
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard
		Effective LOMRs
		Area of Undetermined Flood Hazard
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 9/22/2022 at 1:28 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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

Released to Imaging: 12/30/2022 10:29:59 AM

Received by OCD: 10/20/2022 3:47:25 PM

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## Appendix III

NMOCD

C-141



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

State of New Mexico  
Energy Minerals and Natural  
Resources 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	nAPP2220223048
District RP	
Facility ID	fAPP2202537405
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) nAPP2220223048
Contact mailing address: 600 N Marienfeld Street, Ste. 600 Midland, TX 79701	

### Location of Release Source

Latitude 32.71205 \_\_\_\_\_ Longitude -104.06822 \_\_\_\_\_  
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Empire A Federal Com 3H	Site Type: Battery
Date Release Discovered: 7/20/2022	API# (if applicable)

Unit Letter	Section	Township	Range	County
M	27	18S	29E	Eddy

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

### Nature and Volume of Release

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

<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls) 54	Volume Recovered (bbls) 53
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 357	Volume Recovered (bbls) 351
	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: Overflow - Tank

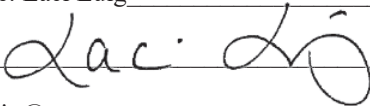
The well had a dramatic increase in fluid made and ran over the tanks that were in service. A total of 411 bbls of produced fluid was released into the containment, 7 barrels seeped out of the containment and onto the pad. Not all fluids remained on pad, some ran 16' off pad. Vacuum trucks recovered 404 bbls from containment and a hydrovac will remove impacted soils on pad. An environmental company will remediate the impacted area.

Incident ID	nAPP2220223048
District RP	
Facility ID	fAPP2202537405
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 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: Tell Montoya To: OCD Enviro, Jim Griswold, 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: 7/21/2022
email: laci.luig@coterra.com	Telephone: (432) 208-3035
<b><u>OCD Only</u></b>	
Received by: Jocelyn Harimon	Date: 10/10/2022

Incident ID	nAPP2220223048
District RP	
Facility ID	fAPP2202537405
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>180</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 <b>not</b> on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

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

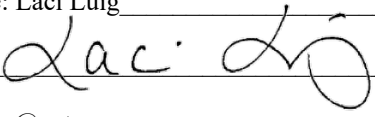
- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☐ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within ½-mile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

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



Incident ID	nAPP2220223048
District RP	
Facility ID	fAPP2202537405
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: 10/10/2022 \_\_\_\_\_  
email: laci.luig@coterra.com \_\_\_\_\_ Telephone: (432) 208-3035 \_\_\_\_\_

**OCD Only**

Received by: Jocelyn Harimon \_\_\_\_\_ Date: 10/10/2022 \_\_\_\_\_

Incident ID	nAPP2220223048
District RP	
Facility ID	fAPP2202537405
Application ID	

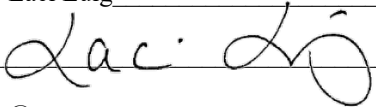
## Closure

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: 10/10/2022  
email: laci.luig@coterra.com Telephone: (432) 208-3035

**OCD Only**

Received by: Jocelyn Harimon Date: 10/10/2022

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: 12/30/2022  
Printed Name: Jocelyn Harimon Title: Environmental Specialist

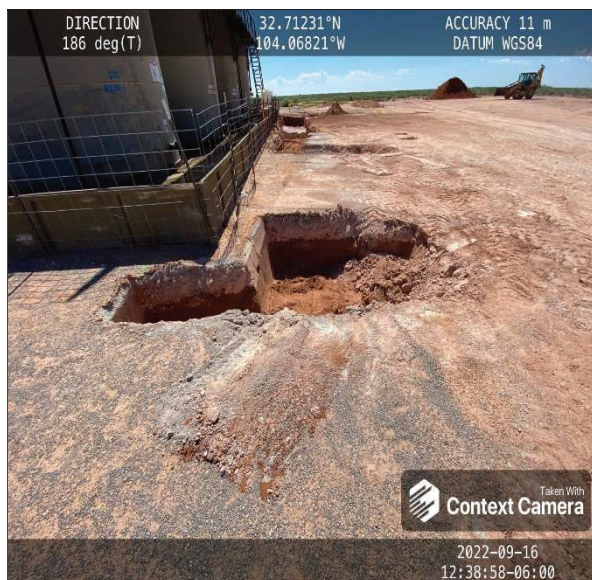


## Appendix IV

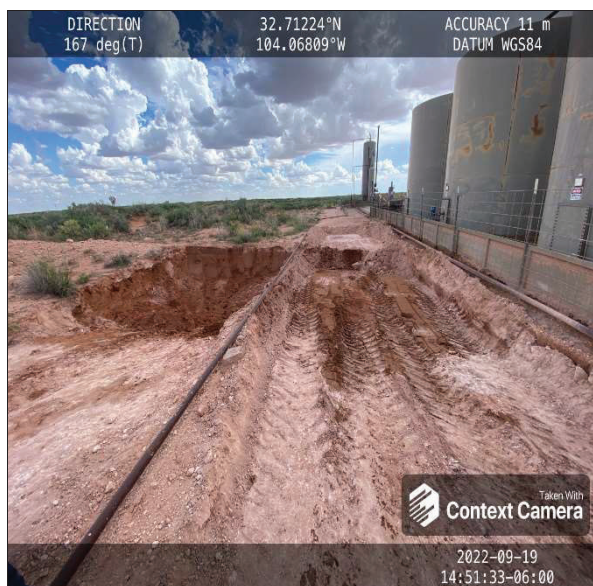
### Photographic Documentation

**Photograph No.1 Description:**

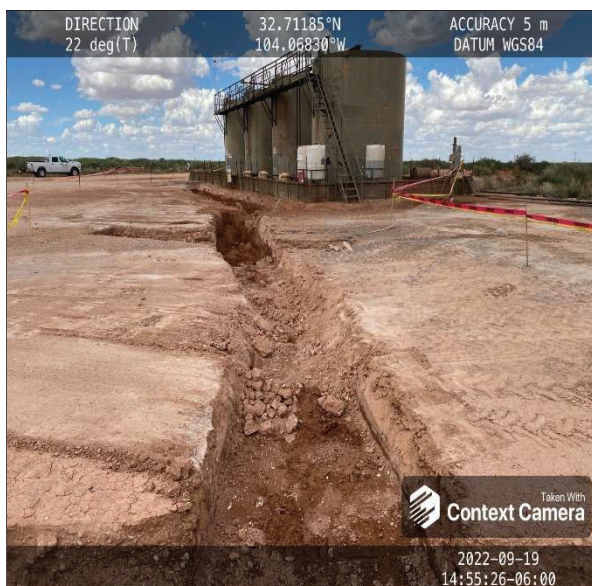
Aerial of release and impacted soil.

**Photograph No.2 Description:**

Excavation on west side of containment.

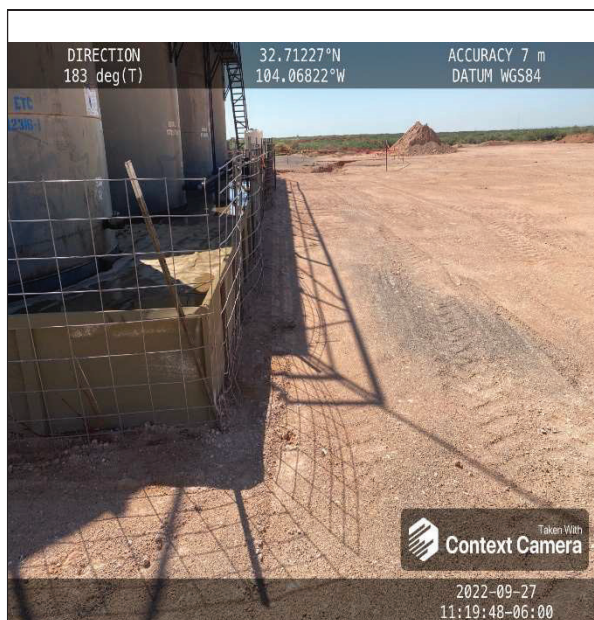
**Photograph No.3 Description:**

Excavation on east side-pasture of containment.

**Photograph No.4 Description:**

Excavation on south side of containment.



**Photograph No.5 Description:**

Backfill on west side of containment.

**Photograph No.6 Description:**

Backfilled east side-pasture area.

**Photograph No.7 Description:**

Backfilled to grade south side of containment.

**Photograph No.8 Description:**

Backfilled east side of containment to grade.



## Appendix V

### Seed Tag

**Artis Seed**  
ROUSLY

**BLM 2 Mixture**  
**Lot #: 2599**

Bag Wt: 20.37

	% Mix	Origin	Purity	Germ	Dormant	Total Germ:	Test Date
Legume, Variety Not Stated	50.95%	Oklahoma	99.47%	0.00%	0.00%	88.00%	7/2022
Seed, Variety Not Stated	24.39%	Colorado	98.63%	21.00%	77.00%	98.00%	5/2022
grass, Bend	24.01%	Texas	99.85%	77.00%	21.00%	98.00%	5/2022
Seed Mix	0.00%		99.35%	32.42%	44.58%	77.00%	7/2022
	99.35%						
er:	0.63%						
ed:	0.01%						
op:	0.01%						

Is Weed: None

Texas Permit: 2772

Bagged into 1) 2.25 acre broadcasted bag  
@ 20.367 bulk pounds. Plant at 9.052

com

4500 North Prince, Clovis, NM 88101  
pounds per acre and 2.263 pounds per  
(575) 762-4759





## Appendix VI

### Laboratory Data

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

---

September 22, 2022

REBECCA PONS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: EMPIRE A FEDERAL COM 3H

Enclosed are the results of analyses for samples received by the laboratory on 09/19/22 13:35.

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](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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,

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

TALON LPE  
408 W. TEXAS AVE.  
ARTESIA NM, 88210

Project: EMPIRE A FEDERAL COM 3H  
Project Number: 701162.116.01  
Project Manager: REBECCA PONS  
Fax To: (575) 745-8905

Reported:  
22-Sep-22 11:26

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S - 1 0-1'	H224319-01	Soil	15-Sep-22 09:00	19-Sep-22 13:35
S - 1 2'	H224319-02	Soil	15-Sep-22 09:05	19-Sep-22 13:35
S - 2 0-1'	H224319-03	Soil	15-Sep-22 09:20	19-Sep-22 13:35
S - 2 2'	H224319-04	Soil	15-Sep-22 09:25	19-Sep-22 13:35
S - 3 0-1'	H224319-05	Soil	15-Sep-22 09:40	19-Sep-22 13:35
S - 3 2'	H224319-06	Soil	15-Sep-22 09:45	19-Sep-22 13:35
S - 4 0-1'	H224319-07	Soil	15-Sep-22 10:00	19-Sep-22 13:35
S - 4 2'	H224319-08	Soil	15-Sep-22 10:05	19-Sep-22 13:35
S - 4 3'	H224319-09	Soil	15-Sep-22 10:10	19-Sep-22 13:35
S - 4 4'	H224319-10	Soil	15-Sep-22 10:15	19-Sep-22 13:35
N.SW - 1	H224319-11	Soil	15-Sep-22 10:30	19-Sep-22 13:35
N.SW - 2	H224319-12	Soil	15-Sep-22 11:00	19-Sep-22 13:35
S.SW - 1	H224319-13	Soil	15-Sep-22 10:35	19-Sep-22 13:35
S.SW - 2	H224319-14	Soil	15-Sep-22 11:05	19-Sep-22 13:35
W.SW - 1	H224319-15	Soil	15-Sep-22 10:40	19-Sep-22 13:35
W.SW - 2	H224319-16	Soil	15-Sep-22 11:10	19-Sep-22 13:35
W.SW - 3	H224319-17	Soil	15-Sep-22 12:05	19-Sep-22 13:35

09/22/22 - The client clarified the date for samples 11-17 as 09/15/22. This is the revised report to reflect that and will replace the report sent earlier 09/22/22.

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:**

TALON LPE  
408 W. TEXAS AVE.  
ARTESIA NM, 88210

Project: EMPIRE A FEDERAL COM 3H  
Project Number: 701162.116.01  
Project Manager: REBECCA PONS  
Fax To: (575) 745-8905

Reported:  
22-Sep-22 11:26

**S - 1 0-1'**  
**H224319-01 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	48.0		16.0	mg/kg	4	2092017	GM	20-Sep-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2091931	JH	20-Sep-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2091931	JH	20-Sep-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2091931	JH	20-Sep-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2091931	JH	20-Sep-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2091931	JH	20-Sep-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 97.3 % 69.9-140 2091931 JH 20-Sep-22 8021B

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2091917	CK	20-Sep-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2091917	CK	20-Sep-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2091917	CK	20-Sep-22	8015B	

Surrogate: 1-Chlorooctane 104 % 45.3-161 2091917 CK 20-Sep-22 8015B

Surrogate: 1-Chlorooctadecane 122 % 46.3-178 2091917 CK 20-Sep-22 8015B

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:**

TALON LPE  
408 W. TEXAS AVE.  
ARTESIA NM, 88210

Project: EMPIRE A FEDERAL COM 3H  
Project Number: 701162.116.01  
Project Manager: REBECCA PONS  
Fax To: (575) 745-8905

Reported:  
22-Sep-22 11:26

**S - 1 2'**  
**H224319-02 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>64.0</b>		16.0	mg/kg	4	2092017	GM	20-Sep-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2091931	JH	20-Sep-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2091931	JH	20-Sep-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2091931	JH	20-Sep-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2091931	JH	20-Sep-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2091931	JH	20-Sep-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)		96.8 %	69.9-140		2091931	JH	20-Sep-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2091917	CK	20-Sep-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2091917	CK	20-Sep-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2091917	CK	20-Sep-22	8015B	

Surrogate: 1-Chlorooctane		104 %	45.3-161		2091917	CK	20-Sep-22	8015B	
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Surrogate: 1-Chlorooctadecane		120 %	46.3-178		2091917	CK	20-Sep-22	8015B	
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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:**

TALON LPE  
408 W. TEXAS AVE.  
ARTESIA NM, 88210

Project: EMPIRE A FEDERAL COM 3H  
Project Number: 701162.116.01  
Project Manager: REBECCA PONS  
Fax To: (575) 745-8905

Reported:  
22-Sep-22 11:26

**S - 2 0-1'**  
**H224319-03 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----	-----------------	-------	----------	-------	---------	----------	--------	-------

**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>320</b>		16.0	mg/kg	4	2092017	GM	20-Sep-22	4500-Cl-B	
-----------------	------------	--	------	-------	---	---------	----	-----------	-----------	--

**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2091931	JH	20-Sep-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2091931	JH	20-Sep-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2091931	JH	20-Sep-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2091931	JH	20-Sep-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2091931	JH	20-Sep-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			96.1 %		69.9-140	2091931	JH	20-Sep-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2091917	CK	20-Sep-22	8015B	
DRO >C10-C28*	<b>280</b>		10.0	mg/kg	1	2091917	CK	20-Sep-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2091917	CK	20-Sep-22	8015B	

Surrogate: 1-Chlorooctane			98.7 %		45.3-161	2091917	CK	20-Sep-22	8015B	
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Surrogate: 1-Chlorooctadecane			128 %		46.3-178	2091917	CK	20-Sep-22	8015B	
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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:**

TALON LPE  
408 W. TEXAS AVE.  
ARTESIA NM, 88210

Project: EMPIRE A FEDERAL COM 3H  
Project Number: 701162.116.01  
Project Manager: REBECCA PONS  
Fax To: (575) 745-8905

Reported:  
22-Sep-22 11:26

S - 2 2'  
H224319-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	80.0		16.0	mg/kg	4	2092017	GM	20-Sep-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2092001	JH/	20-Sep-22	8021B	QR-03
Toluene*	<0.050		0.050	mg/kg	50	2092001	JH/	20-Sep-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2092001	JH/	20-Sep-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2092001	JH/	20-Sep-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2092001	JH/	20-Sep-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)		106 %	69.9-140		2092001	JH/	20-Sep-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2091917	CK	20-Sep-22	8015B
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2091917	CK	20-Sep-22	8015B
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2091917	CK	20-Sep-22	8015B

Surrogate: 1-Chlorooctane		101 %	45.3-161		2091917	CK	20-Sep-22	8015B
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Surrogate: 1-Chlorooctadecane		119 %	46.3-178		2091917	CK	20-Sep-22	8015B
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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

TALON LPE  
408 W. TEXAS AVE.  
ARTESIA NM, 88210

Project: EMPIRE A FEDERAL COM 3H  
Project Number: 701162.116.01  
Project Manager: REBECCA PONS  
Fax To: (575) 745-8905

Reported:  
22-Sep-22 11:26

**S - 3 0-1'**  
**H224319-05 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>496</b>		16.0	mg/kg	4	2092017	GM	20-Sep-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2092001	JH/	20-Sep-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2092001	JH/	20-Sep-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2092001	JH/	20-Sep-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2092001	JH/	20-Sep-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2092001	JH/	20-Sep-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			107 %		69.9-140	2092001	JH/	20-Sep-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2091917	CK	20-Sep-22	8015B	
DRO >C10-C28*	<b>129</b>		10.0	mg/kg	1	2091917	CK	20-Sep-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2091917	CK	20-Sep-22	8015B	

Surrogate: 1-Chlorooctane			97.9 %		45.3-161	2091917	CK	20-Sep-22	8015B	
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Surrogate: 1-Chlorooctadecane			126 %		46.3-178	2091917	CK	20-Sep-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TALON LPE  
408 W. TEXAS AVE.  
ARTESIA NM, 88210

Project: EMPIRE A FEDERAL COM 3H  
Project Number: 701162.116.01  
Project Manager: REBECCA PONS  
Fax To: (575) 745-8905

Reported:  
22-Sep-22 11:26

**S - 3 2'**  
**H224319-06 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>272</b>		16.0	mg/kg	4	2092017	GM	20-Sep-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2092001	JH/	20-Sep-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2092001	JH/	20-Sep-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2092001	JH/	20-Sep-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2092001	JH/	20-Sep-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2092001	JH/	20-Sep-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			107 %	69.9-140		2092001	JH/	20-Sep-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2091917	CK	20-Sep-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2091917	CK	20-Sep-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2091917	CK	20-Sep-22	8015B	

Surrogate: 1-Chlorooctane			99.4 %	45.3-161		2091917	CK	20-Sep-22	8015B	
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Surrogate: 1-Chlorooctadecane			115 %	46.3-178		2091917	CK	20-Sep-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TALON LPE  
408 W. TEXAS AVE.  
ARTESIA NM, 88210

Project: EMPIRE A FEDERAL COM 3H  
Project Number: 701162.116.01  
Project Manager: REBECCA PONS  
Fax To: (575) 745-8905

Reported:  
22-Sep-22 11:26

**S - 4 0-1'**  
**H224319-07 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>1720</b>		16.0	mg/kg	4	2092017	GM	20-Sep-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2092001	JH/	20-Sep-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2092001	JH/	20-Sep-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2092001	JH/	20-Sep-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2092001	JH/	20-Sep-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2092001	JH/	20-Sep-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			104 %	69.9-140		2092001	JH/	20-Sep-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2091917	CK	20-Sep-22	8015B	
DRO >C10-C28*	<b>418</b>		10.0	mg/kg	1	2091917	CK	20-Sep-22	8015B	
EXT DRO >C28-C36	<b>120</b>		10.0	mg/kg	1	2091917	CK	20-Sep-22	8015B	

Surrogate: 1-Chlorooctane			94.4 %	45.3-161		2091917	CK	20-Sep-22	8015B	
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Surrogate: 1-Chlorooctadecane			140 %	46.3-178		2091917	CK	20-Sep-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

TALON LPE  
408 W. TEXAS AVE.  
ARTESIA NM, 88210

Project: EMPIRE A FEDERAL COM 3H  
Project Number: 701162.116.01  
Project Manager: REBECCA PONS  
Fax To: (575) 745-8905

Reported:  
22-Sep-22 11:26

S - 4 2'  
H224319-08 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>1360</b>		16.0	mg/kg	4	2092017	GM	20-Sep-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2092001	JH/	20-Sep-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2092001	JH/	20-Sep-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2092001	JH/	20-Sep-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2092001	JH/	20-Sep-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2092001	JH/	20-Sep-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			106 %	69.9-140		2092001	JH/	20-Sep-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2091917	CK	20-Sep-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2091917	CK	20-Sep-22	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>10.3</b>		10.0	mg/kg	1	2091917	CK	20-Sep-22	8015B	

Surrogate: 1-Chlorooctane			88.9 %	45.3-161		2091917	CK	20-Sep-22	8015B	
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Surrogate: 1-Chlorooctadecane			106 %	46.3-178		2091917	CK	20-Sep-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TALON LPE  
408 W. TEXAS AVE.  
ARTESIA NM, 88210

Project: EMPIRE A FEDERAL COM 3H  
Project Number: 701162.116.01  
Project Manager: REBECCA PONS  
Fax To: (575) 745-8905

Reported:  
22-Sep-22 11:26

S - 4 3'  
H224319-09 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	896		16.0	mg/kg	4	2092017	GM	20-Sep-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2092001	JH/	20-Sep-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2092001	JH/	20-Sep-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2092001	JH/	20-Sep-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2092001	JH/	20-Sep-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2092001	JH/	20-Sep-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			107 %	69.9-140		2092001	JH/	20-Sep-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2091917	CK	20-Sep-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2091917	CK	20-Sep-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2091917	CK	20-Sep-22	8015B	

Surrogate: 1-Chlorooctane			90.0 %	45.3-161		2091917	CK	20-Sep-22	8015B	
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Surrogate: 1-Chlorooctadecane			105 %	46.3-178		2091917	CK	20-Sep-22	8015B	
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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TALON LPE  
408 W. TEXAS AVE.  
ARTESIA NM, 88210

Project: EMPIRE A FEDERAL COM 3H  
Project Number: 701162.116.01  
Project Manager: REBECCA PONS  
Fax To: (575) 745-8905

Reported:  
22-Sep-22 11:26

**S - 4 4'**  
**H224319-10 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>16.0</b>		16.0	mg/kg	4	2092017	GM	20-Sep-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2092001	JH/	20-Sep-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2092001	JH/	20-Sep-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2092001	JH/	20-Sep-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2092001	JH/	20-Sep-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2092001	JH/	20-Sep-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			106 %	69.9-140		2092001	JH/	20-Sep-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2091917	CK	20-Sep-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2091917	CK	20-Sep-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2091917	CK	20-Sep-22	8015B	

Surrogate: 1-Chlorooctane			96.9 %	45.3-161		2091917	CK	20-Sep-22	8015B	
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Surrogate: 1-Chlorooctadecane			117 %	46.3-178		2091917	CK	20-Sep-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

TALON LPE  
408 W. TEXAS AVE.  
ARTESIA NM, 88210

Project: EMPIRE A FEDERAL COM 3H  
Project Number: 701162.116.01  
Project Manager: REBECCA PONS  
Fax To: (575) 745-8905

Reported:  
22-Sep-22 11:26

**N.SW - 1**  
**H224319-11 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	32.0		16.0	mg/kg	4	2092017	GM	20-Sep-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2092001	JH/	20-Sep-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2092001	JH/	20-Sep-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2092001	JH/	20-Sep-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2092001	JH/	20-Sep-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2092001	JH/	20-Sep-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			105 %	69.9-140		2092001	JH/	20-Sep-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2091917	CK	20-Sep-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2091917	CK	20-Sep-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2091917	CK	20-Sep-22	8015B	

Surrogate: 1-Chlorooctane			96.4 %	45.3-161		2091917	CK	20-Sep-22	8015B	
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Surrogate: 1-Chlorooctadecane			111 %	46.3-178		2091917	CK	20-Sep-22	8015B	
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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:**

TALON LPE  
408 W. TEXAS AVE.  
ARTESIA NM, 88210

Project: EMPIRE A FEDERAL COM 3H  
Project Number: 701162.116.01  
Project Manager: REBECCA PONS  
Fax To: (575) 745-8905

Reported:  
22-Sep-22 11:26

**N.SW - 2**  
**H224319-12 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>224</b>		16.0	mg/kg	4	2092017	GM	20-Sep-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2092001	JH/	20-Sep-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2092001	JH/	20-Sep-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2092001	JH/	20-Sep-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2092001	JH/	20-Sep-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2092001	JH/	20-Sep-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)		105 %		69.9-140		2092001	JH/	20-Sep-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2091917	CK	20-Sep-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2091917	CK	20-Sep-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2091917	CK	20-Sep-22	8015B	

Surrogate: 1-Chlorooctane		97.6 %		45.3-161		2091917	CK	20-Sep-22	8015B	
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Surrogate: 1-Chlorooctadecane		114 %		46.3-178		2091917	CK	20-Sep-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

TALON LPE  
408 W. TEXAS AVE.  
ARTESIA NM, 88210

Project: EMPIRE A FEDERAL COM 3H  
Project Number: 701162.116.01  
Project Manager: REBECCA PONS  
Fax To: (575) 745-8905

Reported:  
22-Sep-22 11:26

**S.SW - 1**  
**H224319-13 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	128		16.0	mg/kg	4	2092018	GM	20-Sep-22	4500-Cl-B	QR-03
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2092001	JH/	20-Sep-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2092001	JH/	20-Sep-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2092001	JH/	20-Sep-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2092001	JH/	20-Sep-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2092001	JH/	20-Sep-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140 2092001 JH/ 20-Sep-22 8021B

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2091917	CK	20-Sep-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2091917	CK	20-Sep-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2091917	CK	20-Sep-22	8015B	

Surrogate: 1-Chlorooctane 101 % 45.3-161 2091917 CK 20-Sep-22 8015B

Surrogate: 1-Chlorooctadecane 118 % 46.3-178 2091917 CK 20-Sep-22 8015B

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

TALON LPE  
408 W. TEXAS AVE.  
ARTESIA NM, 88210

Project: EMPIRE A FEDERAL COM 3H  
Project Number: 701162.116.01  
Project Manager: REBECCA PONS  
Fax To: (575) 745-8905

Reported:  
22-Sep-22 11:26

**S.SW - 2**  
**H224319-14 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>176</b>		16.0	mg/kg	4	2092018	GM	20-Sep-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2092001	JH/	20-Sep-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2092001	JH/	20-Sep-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2092001	JH/	20-Sep-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2092001	JH/	20-Sep-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2092001	JH/	20-Sep-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			107 %	69.9-140		2092001	JH/	20-Sep-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2091917	CK	20-Sep-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2091917	CK	20-Sep-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2091917	CK	20-Sep-22	8015B	

Surrogate: 1-Chlorooctane			82.3 %	45.3-161		2091917	CK	20-Sep-22	8015B	
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Surrogate: 1-Chlorooctadecane			96.0 %	46.3-178		2091917	CK	20-Sep-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TALON LPE  
408 W. TEXAS AVE.  
ARTESIA NM, 88210

Project: EMPIRE A FEDERAL COM 3H  
Project Number: 701162.116.01  
Project Manager: REBECCA PONS  
Fax To: (575) 745-8905

Reported:  
22-Sep-22 11:26

**W.SW - 1**  
**H224319-15 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>96.0</b>		16.0	mg/kg	4	2092018	GM	20-Sep-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2092001	JH/	20-Sep-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2092001	JH/	20-Sep-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2092001	JH/	20-Sep-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2092001	JH/	20-Sep-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2092001	JH/	20-Sep-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			107 %	69.9-140		2092001	JH/	20-Sep-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2091917	CK	20-Sep-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2091917	CK	20-Sep-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2091917	CK	20-Sep-22	8015B	

Surrogate: 1-Chlorooctane			97.4 %	45.3-161		2091917	CK	20-Sep-22	8015B	
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Surrogate: 1-Chlorooctadecane			113 %	46.3-178		2091917	CK	20-Sep-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TALON LPE  
408 W. TEXAS AVE.  
ARTESIA NM, 88210

Project: EMPIRE A FEDERAL COM 3H  
Project Number: 701162.116.01  
Project Manager: REBECCA PONS  
Fax To: (575) 745-8905

Reported:  
22-Sep-22 11:26

**W.SW - 2**  
**H224319-16 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>112</b>		16.0	mg/kg	4	2092018	GM	20-Sep-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2092001	JH/	20-Sep-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2092001	JH/	20-Sep-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2092001	JH/	20-Sep-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2092001	JH/	20-Sep-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2092001	JH/	20-Sep-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)		107 %		69.9-140		2092001	JH/	20-Sep-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2091917	CK	20-Sep-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2091917	CK	20-Sep-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2091917	CK	20-Sep-22	8015B	

Surrogate: 1-Chlorooctane		96.4 %		45.3-161		2091917	CK	20-Sep-22	8015B	
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Surrogate: 1-Chlorooctadecane		115 %		46.3-178		2091917	CK	20-Sep-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

TALON LPE  
408 W. TEXAS AVE.  
ARTESIA NM, 88210

Project: EMPIRE A FEDERAL COM 3H  
Project Number: 701162.116.01  
Project Manager: REBECCA PONS  
Fax To: (575) 745-8905

Reported:  
22-Sep-22 11:26

**W.SW - 3**  
**H224319-17 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	736		16.0	mg/kg	4	2092018	GM	20-Sep-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2092001	JH/	20-Sep-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2092001	JH/	20-Sep-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2092001	JH/	20-Sep-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2092001	JH/	20-Sep-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2092001	JH/	20-Sep-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			105 %	69.9-140		2092001	JH/	20-Sep-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2091917	CK	20-Sep-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2091917	CK	20-Sep-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2091917	CK	20-Sep-22	8015B	

Surrogate: 1-Chlorooctane			98.3 %	45.3-161		2091917	CK	20-Sep-22	8015B	
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Surrogate: 1-Chlorooctadecane			116 %	46.3-178		2091917	CK	20-Sep-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TALON LPE  
408 W. TEXAS AVE.  
ARTESIA NM, 88210

Project: EMPIRE A FEDERAL COM 3H  
Project Number: 701162.116.01  
Project Manager: REBECCA PONS  
Fax To: (575) 745-8905

Reported:  
22-Sep-22 11:26

**Inorganic Compounds - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 2092017 - 1:4 DI Water****Blank (2092017-BLK1)**

Prepared &amp; Analyzed: 20-Sep-22

Chloride	ND	16.0	mg/kg							
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**LCS (2092017-BS1)**

Prepared &amp; Analyzed: 20-Sep-22

Chloride	416	16.0	mg/kg	400		104	80-120			
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**LCS Dup (2092017-BSD1)**

Prepared &amp; Analyzed: 20-Sep-22

Chloride	432	16.0	mg/kg	400		108	80-120	3.77	20	
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**Batch 2092018 - 1:4 DI Water****Blank (2092018-BLK1)**

Prepared &amp; Analyzed: 20-Sep-22

Chloride	ND	16.0	mg/kg							
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**LCS (2092018-BS1)**

Prepared &amp; Analyzed: 20-Sep-22

Chloride	416	16.0	mg/kg	400		104	80-120			
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**LCS Dup (2092018-BSD1)**

Prepared &amp; Analyzed: 20-Sep-22

Chloride	400	16.0	mg/kg	400		100	80-120	3.92	20	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TALON LPE  
408 W. TEXAS AVE.  
ARTESIA NM, 88210

Project: EMPIRE A FEDERAL COM 3H  
Project Number: 701162.116.01  
Project Manager: REBECCA PONS  
Fax To: (575) 745-8905

Reported:  
22-Sep-22 11:26

**Volatile Organic Compounds by EPA Method 8021 - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 2091931 - Volatiles****Blank (2091931-BLK1)**

Prepared: 19-Sep-22 Analyzed: 20-Sep-22

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	ND		mg/kg	0.0500		95.3	69.9-140			

**LCS (2091931-BS1)**

Prepared: 19-Sep-22 Analyzed: 20-Sep-22

Benzene	2.07	0.050	mg/kg	2.00		103	83.4-122			
Toluene	2.00	0.050	mg/kg	2.00		100	84.2-126			
Ethylbenzene	1.92	0.050	mg/kg	2.00		95.8	84.2-121			
m,p-Xylene	3.98	0.100	mg/kg	4.00		99.5	89.9-126			
o-Xylene	1.89	0.050	mg/kg	2.00		94.6	84.3-123			
Total Xylenes	5.87	0.150	mg/kg	6.00		97.9	89.1-124			
Surrogate: 4-Bromofluorobenzene (PID)	0.0464		mg/kg	0.0500		92.7	69.9-140			

**LCS Dup (2091931-BSD1)**

Prepared: 19-Sep-22 Analyzed: 20-Sep-22

Benzene	2.05	0.050	mg/kg	2.00		102	83.4-122	1.02	12.6	
Toluene	1.99	0.050	mg/kg	2.00		99.4	84.2-126	0.740	13.3	
Ethylbenzene	1.91	0.050	mg/kg	2.00		95.5	84.2-121	0.370	13.9	
m,p-Xylene	3.98	0.100	mg/kg	4.00		99.5	89.9-126	0.0484	13.6	
o-Xylene	1.88	0.050	mg/kg	2.00		94.2	84.3-123	0.426	14.1	
Total Xylenes	5.86	0.150	mg/kg	6.00		97.7	89.1-124	0.170	13.4	
Surrogate: 4-Bromofluorobenzene (PID)	0.0464		mg/kg	0.0500		92.8	69.9-140			

**Batch 2092001 - Volatiles****Blank (2092001-BLK1)**

Prepared &amp; Analyzed: 20-Sep-22

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							

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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:**

TALON LPE  
408 W. TEXAS AVE.  
ARTESIA NM, 88210

Project: EMPIRE A FEDERAL COM 3H  
Project Number: 701162.116.01  
Project Manager: REBECCA PONS  
Fax To: (575) 745-8905

Reported:  
22-Sep-22 11:26

**Volatile Organic Compounds by EPA Method 8021 - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 2092001 - Volatiles****Blank (2092001-BLK1)**

Prepared &amp; Analyzed: 20-Sep-22

Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0519		mg/kg	0.0500		104	69.9-140			

**LCS (2092001-BS1)**

Prepared &amp; Analyzed: 20-Sep-22

Benzene	1.96	0.050	mg/kg	2.00		98.2	83.4-122			
Toluene	1.93	0.050	mg/kg	2.00		96.6	84.2-126			
Ethylbenzene	1.87	0.050	mg/kg	2.00		93.6	84.2-121			
m,p-Xylene	3.91	0.100	mg/kg	4.00		97.8	89.9-126			
o-Xylene	1.90	0.050	mg/kg	2.00		95.2	84.3-123			
Total Xylenes	5.82	0.150	mg/kg	6.00		97.0	89.1-124			
Surrogate: 4-Bromofluorobenzene (PID)	0.0506		mg/kg	0.0500		101	69.9-140			

**LCS Dup (2092001-BS1)**

Prepared &amp; Analyzed: 20-Sep-22

Benzene	2.04	0.050	mg/kg	2.00		102	83.4-122	3.94	12.6	
Toluene	2.04	0.050	mg/kg	2.00		102	84.2-126	5.34	13.3	
Ethylbenzene	1.97	0.050	mg/kg	2.00		98.4	84.2-121	5.00	13.9	
m,p-Xylene	4.10	0.100	mg/kg	4.00		102	89.9-126	4.55	13.6	
o-Xylene	2.03	0.050	mg/kg	2.00		101	84.3-123	6.32	14.1	
Total Xylenes	6.13	0.150	mg/kg	6.00		102	89.1-124	5.13	13.4	
Surrogate: 4-Bromofluorobenzene (PID)	0.0514		mg/kg	0.0500		103	69.9-140			

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TALON LPE  
408 W. TEXAS AVE.  
ARTESIA NM, 88210

Project: EMPIRE A FEDERAL COM 3H  
Project Number: 701162.116.01  
Project Manager: REBECCA PONS  
Fax To: (575) 745-8905

Reported:  
22-Sep-22 11:26

**Petroleum Hydrocarbons by GC FID - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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**Batch 2091917 - General Prep - Organics****Blank (2091917-BLK1)**

Prepared: 19-Sep-22 Analyzed: 20-Sep-22

GRO C6-C10	ND	10.0	mg/kg						
DRO >C10-C28	ND	10.0	mg/kg						
EXT DRO >C28-C36	ND	10.0	mg/kg						
Surrogate: 1-Chlorooctane	48.8		mg/kg	50.0		97.7	45.3-161		
Surrogate: 1-Chlorooctadecane	57.3		mg/kg	50.0		115	46.3-178		

**LCS (2091917-BS1)**

Prepared: 19-Sep-22 Analyzed: 20-Sep-22

GRO C6-C10	194	10.0	mg/kg	200		97.2	76.8-124		
DRO >C10-C28	205	10.0	mg/kg	200		102	74.9-127		
Total TPH C6-C28	399	10.0	mg/kg	400		99.8	77.5-124		
Surrogate: 1-Chlorooctane	52.0		mg/kg	50.0		104	45.3-161		
Surrogate: 1-Chlorooctadecane	65.3		mg/kg	50.0		131	46.3-178		

**LCS Dup (2091917-BS1)**

Prepared: 19-Sep-22 Analyzed: 20-Sep-22

GRO C6-C10	195	10.0	mg/kg	200		97.5	76.8-124	0.336	17.2
DRO >C10-C28	189	10.0	mg/kg	200		94.7	74.9-127	7.78	18.6
Total TPH C6-C28	384	10.0	mg/kg	400		96.1	77.5-124	3.75	17.6
Surrogate: 1-Chlorooctane	57.4		mg/kg	50.0		115	45.3-161		
Surrogate: 1-Chlorooctadecane	65.5		mg/kg	50.0		131	46.3-178		

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Celey D. Keene, Lab Director/Quality Manager

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### Notes and Definitions

QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
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: Talon LPE

Project Manager: R. Pons

Address: 408 W. Texas Ave

City: Artesia

State: NM zip: 88210

Phone #: 575.746.8768

Fax #:

Project #: 701162.116.01

Project Owner: Cimarex

Project Name: Empire A Federal Com 3H

Project Location: Eddy County, NM

Sampler Name: J. Carnes

## BILL TO

## ANALYSIS REQUEST

P.O. #:	
Company:	
Attn:	
Address:	
City:	
State:	zip:
Phone #:	
Fax #:	

FOR LAB USE ONLY

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	Chlorides	TPH	BTEX
1004319	S-1 0-1'		1										9-15-22	9:00	X	X	X
2	S-1 2'		1										9:05				
3	S-2 0-1'		1										9:20				
4	S-2 2'		1										9:25				
5	S-3 0-1'		1										9:40				
6	S-3 2'		1										9:45				
7	S-4 0-1'		1										10:00				
8	S-4 2'		1										10:05				
9	S-4 3'		1										10:10				
10	S-4 4'		1										10:15				

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Relinquished By:

Date: 9-19-22

Received By: S. Rodriguez

Phone Result:

Fax Result:

Yes

No

Add'l Phone #:

Add'l Fax #:

REMARKS:

3 day rush added

9/19/22 @ 1545

Relinquished By:

Date: 9-19-22

Received By: S. Rodriguez

Phone Result:

Fax Result:

Yes

No

Add'l Phone #:

Add'l Fax #:

REMARKS:

3 day rush added

9/19/22 @ 1545

Delivered By: (Circle One)

2022-09-19

Sample Condition

CHECKED BY: (initials)

Phone Result:

Fax Result:

Yes

No

Add'l Phone #:

Add'l Fax #:

REMARKS:

3 day rush added

9/19/22 @ 1545

Sampler - UPS - Bus - Other:

2022-09-19

Sample Condition

CHECKED BY: (initials)

Phone Result:

Fax Result:

Yes

No

Add'l Phone #:

Add'l Fax #:

REMARKS:

3 day rush added

9/19/22 @ 1545

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

pg 1 of 2

9/19/22 @ 1545





## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

**(575) 393-2326 FAX (575) 393-2476**

[illegible]



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

September 22, 2022

REBECCA PONS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: EMPIRE A FEDERAL COM 3H

Enclosed are the results of analyses for samples received by the laboratory on 09/19/22 13:35.

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](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

TALON LPE  
 REBECCA PONS  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received:	09/19/2022	Sampling Date:	09/16/2022
Reported:	09/22/2022	Sampling Type:	Soil
Project Name:	EMPIRE A FEDERAL COM 3H	Sampling Condition:	Cool & Intact
Project Number:	701162.116.01	Sample Received By:	Shalyn Rodriguez
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: S - 7 0-1' (H224318-01)**

BTX 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	09/20/2022	ND	2.07	103	2.00	1.02	QR-03
<b>Toluene*</b>	<b>2.48</b>	0.200	09/20/2022	ND	2.00	100	2.00	0.740	QM-07
<b>Ethylbenzene*</b>	<b>5.33</b>	0.200	09/20/2022	ND	1.92	95.8	2.00	0.370	
<b>Total Xylenes*</b>	<b>40.0</b>	0.600	09/20/2022	ND	5.87	97.9	6.00	0.170	
<b>Total BTX</b>	<b>47.8</b>	1.20	09/20/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 157 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>64.0</b>	16.0	09/20/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: CK				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10*</b>	<b>622</b>	10.0	09/20/2022	ND	190	95.1	200	4.73	
<b>DRO &gt;C10-C28*</b>	<b>4180</b>	10.0	09/20/2022	ND	200	99.9	200	2.39	
<b>EXT DRO &gt;C28-C36</b>	<b>841</b>	10.0	09/20/2022	ND					

Surrogate: 1-Chlorooctane 147 % 45.3-161

Surrogate: 1-Chlorooctadecane 192 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TALON LPE  
 REBECCA PONS  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received: 09/19/2022  
 Reported: 09/22/2022  
 Project Name: EMPIRE A FEDERAL COM 3H  
 Project Number: 701162.116.01  
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 09/16/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: S - 7 2' (H224318-02)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	09/20/2022	ND	2.07	103	2.00	1.02	
Toluene*	2.94	0.200	09/20/2022	ND	2.00	100	2.00	0.740	
Ethylbenzene*	4.87	0.200	09/20/2022	ND	1.92	95.8	2.00	0.370	
Total Xylenes*	34.1	0.600	09/20/2022	ND	5.87	97.9	6.00	0.170	
Total BTX	41.9	1.20	09/20/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 140 % 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	09/20/2022	ND	416	104	400	3.77		

TPH 8015M	mg/kg		Analyzed By: CK					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	425	10.0	09/20/2022	ND	190	95.1	200	4.73	
DRO >C10-C28*	3530	10.0	09/20/2022	ND	200	99.9	200	2.39	
EXT DRO >C28-C36	815	10.0	09/20/2022	ND					

Surrogate: 1-Chlorooctane 147 % 45.3-161

Surrogate: 1-Chlorooctadecane 241 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

TALON LPE  
 REBECCA PONS  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received: 09/19/2022  
 Reported: 09/22/2022  
 Project Name: EMPIRE A FEDERAL COM 3H  
 Project Number: 701162.116.01  
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 09/16/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: S - 7 4' (H224318-03)**

BTEx 8021B			mg/kg					Analyzed By: JH		S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Benzene*	<0.050	0.050	09/20/2022	ND	2.07	103	2.00	1.02			
Toluene*	0.851	0.050	09/20/2022	ND	2.00	100	2.00	0.740			
Ethylbenzene*	2.31	0.050	09/20/2022	ND	1.92	95.8	2.00	0.370			
Total Xylenes*	6.42	0.150	09/20/2022	ND	5.87	97.9	6.00	0.170			
Total BTEX	9.58	0.300	09/20/2022	ND							

Surrogate: 4-Bromofluorobenzene (PID) 146 % 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	224	16.0	09/20/2022	ND	416	104	400	3.77			

TPH 8015M			mg/kg					Analyzed By: CK			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
GRO C6-C10*	64.0	10.0	09/20/2022	ND	190	95.1	200	4.73			
DRO >C10-C28*	592	10.0	09/20/2022	ND	200	99.9	200	2.39			
EXT DRO >C28-C36	122	10.0	09/20/2022	ND							

Surrogate: 1-Chlorooctane 98.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 117 % 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:**

TALON LPE  
 REBECCA PONS  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received: 09/19/2022  
 Reported: 09/22/2022  
 Project Name: EMPIRE A FEDERAL COM 3H  
 Project Number: 701162.116.01  
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 09/16/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: S - 7 6' (H224318-04)**

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	09/20/2022	ND	2.07	103	2.00	1.02		
Toluene*	<0.050	0.050	09/20/2022	ND	2.00	100	2.00	0.740		
Ethylbenzene*	<0.050	0.050	09/20/2022	ND	1.92	95.8	2.00	0.370		
Total Xylenes*	<0.150	0.150	09/20/2022	ND	5.87	97.9	6.00	0.170		
Total BTEX	<0.300	0.300	09/20/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.3 % 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	208	16.0	09/20/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/20/2022	ND	190	95.1	200	4.73	
DRO >C10-C28*	<10.0	10.0	09/20/2022	ND	200	99.9	200	2.39	
EXT DRO >C28-C36	<10.0	10.0	09/20/2022	ND					

Surrogate: 1-Chlorooctane 86.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 92.3 % 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:**

TALON LPE  
 REBECCA PONS  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received: 09/19/2022  
 Reported: 09/22/2022  
 Project Name: EMPIRE A FEDERAL COM 3H  
 Project Number: 701162.116.01  
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 09/16/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: S - 7 8' (H224318-05)**

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	09/20/2022	ND	2.07	103	2.00	1.02		
Toluene*	<0.050	0.050	09/20/2022	ND	2.00	100	2.00	0.740		
Ethylbenzene*	<0.050	0.050	09/20/2022	ND	1.92	95.8	2.00	0.370		
Total Xylenes*	<0.150	0.150	09/20/2022	ND	5.87	97.9	6.00	0.170		
Total BTEX	<0.300	0.300	09/20/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.2 % 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	144	16.0	09/20/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/20/2022	ND	194	97.2	200	0.336	
DRO >C10-C28*	10.0	10.0	09/20/2022	ND	205	102	200	7.78	
EXT DRO >C28-C36	<10.0	10.0	09/20/2022	ND					

Surrogate: 1-Chlorooctane 99.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 118 % 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:**

TALON LPE  
REBECCA PONS  
408 W. TEXAS AVE.  
ARTESIA NM, 88210  
Fax To: (575) 745-8905

Received: 09/19/2022  
Reported: 09/22/2022  
Project Name: EMPIRE A FEDERAL COM 3H  
Project Number: 701162.116.01  
Project Location: CIMAREX - EDDY CO NM

Sampling Date: 09/16/2022  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: S - 7 10' (H224318-06)**

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	09/20/2022	ND	2.07	103	2.00	1.02		
Toluene*	<0.050	0.050	09/20/2022	ND	2.00	100	2.00	0.740		
Ethylbenzene*	<0.050	0.050	09/20/2022	ND	1.92	95.8	2.00	0.370		
Total Xylenes*	<0.150	0.150	09/20/2022	ND	5.87	97.9	6.00	0.170		
Total BTEX	<0.300	0.300	09/20/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.2 % 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	64.0	16.0	09/20/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/20/2022	ND	194	97.2	200	0.336	
DRO >C10-C28*	<10.0	10.0	09/20/2022	ND	205	102	200	7.78	
EXT DRO >C28-C36	<10.0	10.0	09/20/2022	ND					

Surrogate: 1-Chlorooctane 93.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 109 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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### Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
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", is written over a horizontal line.

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: Talon LPE		<b>BILL TO</b>		ANALYSIS REQUEST																																									
Project Manager: R. Pons		P.O. #:																																											
Address: 408 W. Texas Ave		Company:																																											
City: Artesia		Attn:																																											
State: NM zip: 88210		Address:																																											
Phone #: 575.746.8768		City:																																											
Fax #: 575.746.8768		State:																																											
Project #: 701162.116.01		Zip:																																											
Project Owner: Cimarex																																													
Project Name: Empire A Federal Com 3H																																													
Project Location: Eddy County, NM																																													
Sample Name: J. Carnes		Fax #:																																											
FOR LAB USE ONLY		PRESERV.		SAMPLING																																									
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER :		ACID/BASE:		ICE / COOL		OTHER :		DATE		TIME		Chlorides		TPH		BTEX											
1024318		S-7 0-1'		C-1		1		X		X		9-16-22		9:00		X		X		X		X		X		X		X		X		X		X											
1		S-7 2'		C-1		1		X		X		9-16-22		9:10		X		X		X		X		X		X		X		X		X		X											
2		S-7 4'		C-1		1		X		X		9-16-22		9:20		X		X		X		X		X		X		X		X		X		X											
3		S-7 6'		C-1		1		X		X		9-16-22		10:00		X		X		X		X		X		X		X		X		X		X											
4		S-7 8'		C-1		1		X		X		9-16-22		10:15		X		X		X		X		X		X		X		X		X		X											
5		S-7 10'		C-1		1		X		X		9-16-22		10:45		X		X		X		X		X		X		X		X		X		X											
6		S-7 10'		C-1		1		X		X		9-16-22		10:45		X		X		X		X		X		X		X		X		X		X											
7		S-7 10'		C-1		1		X		X		9-16-22		10:45		X		X		X		X		X		X		X		X		X		X											
8		S-7 10'		C-1		1		X		X		9-16-22		10:45		X		X		X		X		X		X		X		X		X		X											
9		S-7 10'		C-1		1		X		X		9-16-22		10:45		X		X		X		X		X		X		X		X		X		X											
10		S-7 10'		C-1		1		X		X		9-16-22		10:45		X		X		X		X		X		X		X		X		X		X											
11		S-7 10'		C-1		1		X		X		9-16-22		10:45		X		X		X		X		X		X		X		X		X		X											
12		S-7 10'		C-1		1		X		X		9-16-22		10:45		X		X		X		X		X		X		X		X		X		X											
13		S-7 10'		C-1		1		X		X		9-16-22		10:45		X		X		X		X		X		X		X		X		X		X											
14		S-7 10'		C-1		1		X		X		9-16-22		10:45		X		X		X		X		X		X		X		X		X		X											
15		S-7 10'		C-1		1		X		X		9-16-22		10:45		X		X		X		X		X		X		X		X		X		X											
16		S-7 10'		C-1		1		X		X		9-16-22		10:45		X		X		X		X		X		X		X		X		X		X											
17		S-7 10'		C-1		1		X		X		9-16-22		10:45		X		X		X		X		X		X		X		X		X		X											
18		S-7 10'		C-1		1		X		X		9-16-22		10:45		X		X		X		X		X		X		X		X		X		X											
19		S-7 10'		C-1		1		X		X		9-16-22		10:45		X		X		X		X		X		X		X		X		X		X											
20		S-7 10'		C-1		1		X		X		9-16-22		10:45		X		X		X		X		X		X		X		X		X		X											
21		S-7 10'		C-1		1		X		X		9-16-22		10:45		X		X		X		X		X		X		X		X		X		X											
22		S-7 10'		C-1		1		X		X		9-16-22		10:45		X		X		X		X		X		X		X		X		X		X											
23		S-7 10'		C-1		1		X		X		9-16-22		10:45		X		X		X		X		X		X		X		X		X		X											
24		S-7 10'		C-1		1		X		X		9-16-22		10:45		X		X		X		X		X		X		X		X		X		X											
25		S-7 10'		C-1		1		X		X		9-16-22		10:45		X		X		X		X		X		X		X		X		X		X											
26		S-7 10'		C-1		1		X		X		9-16-22		10:45		X		X		X		X		X		X		X		X		X		X											
27		S-7 10'		C-1		1		X		X		9-16-22		10:45		X		X		X		X		X		X		X		X		X		X											
28		S-7 10'		C-1		1		X		X		9-16-22		10:45		X		X		X		X		X		X		X		X		X		X											
29		S-7 10'		C-1		1		X		X		9-16-22		10:45		X		X		X		X		X		X		X		X		X		X											
30		S-7 10'		C-1		1		X		X		9-16-22		10:45		X		X		X		X		X		X		X		X		X		X											
31		S-7 10'		C-1		1		X		X		9-16-22		10:45		X		X		X		X		X		X		X		X		X		X											
32		S-7 10'		C-1		1		X		X		9-16-22		10:45		X		X		X		X		X		X		X		X		X		X											
33		S-7 10'		C-1		1		X		X		9-16-22		10:45		X		X		X		X		X		X		X		X		X		X											
34		S-7 10'		C-1		1		X		X		9-16-22		10:45		X		X		X		X		X		X		X		X		X		X											
35		S-7 10'		C-1		1		X		X		9-16-22		10:45		X		X		X		X		X		X		X		X		X		X											
36		S-7 10'		C-1		1		X		X		9-16-22		10:45		X		X		X		X		X		X		X		X		X		X											
37		S-7 10'		C-1		1		X		X		9-16-22		10:45		X		X		X		X		X		X		X		X		X		X											
38		S-7 10'		C-1		1		X		X		9-16-22		10:45		X		X		X		X		X		X		X		X		X		X											
39		S-7 10'		C-1		1		X		X		9-16-22		10:45		X		X		X		X		X		X		X		X		X		X											
40		S-7 10'		C-1		1		X		X		9-16-22		10:45		X		X		X		X		X		X		X		X		X		X											
41		S-7 10'		C-1		1		X		X		9-16-22		10:45		X		X		X		X		X		X		X		X		X		X											
42		S-7 10'		C-1		1		X		X		9-16-22		10:45		X		X		X		X		X		X		X		X		X		X											
43		S-7 10'		C-1		1		X		X		9-16-22		10:45		X		X		X		X		X		X		X		X		X		X											
44		S-7 10'		C-1		1		X		X		9-16-22		10:45		X		X		X		X		X		X		X		X		X		X											
45		S-7 10'		C-1		1		X		X		9-16-22		10:45		X		X		X		X		X		X		X		X		X		X											
46		S-7 10'		C-1		1		X		X		9-16-22		10:45		X		X		X		X		X		X		X		X		X		X											
47		S-7 10'		C-1		1		X		X		9-16-22		10:45		X		X		X		X		X		X		X		X		X		X											
48		S-7 10'		C-1		1		X		X		9-16-22		10:45		X		X		X		X		X		X		X		X		X		X											
49		S-7 10'		C-1		1		X		X		9-16-22		10:45		X		X		X		X		X		X		X		X		X		X											
50		S-7 10'		C-1		1		X		X		9-16-22		10:45		X		X		X		X		X		X		X		X		X		X											
51		S-7 10'		C-1		1		X		X		9-16-22		10:45		X		X		X		X		X		X		X		X		X		X											
52		S-7 10'		C-1		1		X		X		9-16-22		10:45		X		X		X		X		X		X		X		X		X		X											
53		S-7 10'		C-1		1		X		X		9-16-22		10:45		X		X		X		X		X		X		X		X		X		X											
54		S-7 10'		C-1		1		X		X		9-16-22		10:45		X		X		X		X		X		X		X		X		X		X											
55		S-7 10'		C-1		1		X		X		9-16-22		10:45		X		X		X		X		X		X		X		X		X		X											
56		S-7 10'		C-1		1		X		X		9-16-22		10:45		X		X		X		X		X		X		X		X		X		X											
57		S-7 10'		C-1		1		X		X		9-16-22		10:45		X		X		X		X		X		X		X		X		X		X											
58		S-7 10'		C-1		1		X		X		9-16-22		10:45		X		X		X		X		X		X		X		X		X		X											
59		S-7 10'		C-1		1		X																																					



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

---

September 26, 2022

REBECCA PONS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: EMPIRE A FEDERAL COM 3H

Enclosed are the results of analyses for samples received by the laboratory on 09/21/22 14:40.

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](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

TALON LPE  
 REBECCA PONS  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received:	09/21/2022	Sampling Date:	09/19/2022
Reported:	09/26/2022	Sampling Type:	Soil
Project Name:	EMPIRE A FEDERAL COM 3H	Sampling Condition:	Cool & Intact
Project Number:	701162.116.01	Sample Received By:	Shalyn Rodriguez
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: S - 5 0-1' (H224386-01)**

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	09/23/2022	ND	1.95	97.5	2.00	8.56	
Toluene*	<0.050	0.050	09/23/2022	ND	1.94	97.1	2.00	8.00	
Ethylbenzene*	<0.050	0.050	09/23/2022	ND	1.89	94.6	2.00	8.40	
Total Xylenes*	<0.150	0.150	09/23/2022	ND	5.91	98.5	6.00	9.07	
Total BTX	<0.300	0.300	09/23/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	496	16.0	09/22/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/22/2022	ND	191	95.5	200	5.19	
DRO >C10-C28*	<10.0	10.0	09/22/2022	ND	190	94.8	200	0.431	
EXT DRO >C28-C36	<10.0	10.0	09/22/2022	ND					

Surrogate: 1-Chlorooctane 108 % 45.3-161

Surrogate: 1-Chlorooctadecane 127 % 46.3-178

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

TALON LPE  
 REBECCA PONS  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received: 09/21/2022  
 Reported: 09/26/2022  
 Project Name: EMPIRE A FEDERAL COM 3H  
 Project Number: 701162.116.01  
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 09/19/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: S - 5 2' (H224386-02)**

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	09/23/2022	ND	1.95	97.5	2.00	8.56		
Toluene*	<0.050	0.050	09/23/2022	ND	1.94	97.1	2.00	8.00		
Ethylbenzene*	<0.050	0.050	09/23/2022	ND	1.89	94.6	2.00	8.40		
Total Xylenes*	<0.150	0.150	09/23/2022	ND	5.91	98.5	6.00	9.07		
Total BTEX	<0.300	0.300	09/23/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	1020	16.0	09/22/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/22/2022	ND	191	95.5	200	5.19	
DRO >C10-C28*	<10.0	10.0	09/22/2022	ND	190	94.8	200	0.431	
EXT DRO >C28-C36	<10.0	10.0	09/22/2022	ND					

Surrogate: 1-Chlorooctane 105 % 45.3-161

Surrogate: 1-Chlorooctadecane 122 % 46.3-178

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TALON LPE  
 REBECCA PONS  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received: 09/21/2022  
 Reported: 09/26/2022  
 Project Name: EMPIRE A FEDERAL COM 3H  
 Project Number: 701162.116.01  
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 09/19/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: S - 5 3' (H224386-03)**

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	09/22/2022	ND	2.13	106	2.00	9.73		
Toluene*	<0.050	0.050	09/22/2022	ND	2.05	103	2.00	9.33		
Ethylbenzene*	<0.050	0.050	09/22/2022	ND	1.99	99.6	2.00	9.64		
Total Xylenes*	<0.150	0.150	09/22/2022	ND	6.08	101	6.00	8.64		
Total BTX	<0.300	0.300	09/22/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.7 % 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	80.0	16.0	09/22/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/23/2022	ND	168	84.0	200	7.29	
DRO >C10-C28*	<10.0	10.0	09/23/2022	ND	174	87.2	200	10.3	
EXT DRO >C28-C36	<10.0	10.0	09/23/2022	ND					

Surrogate: 1-Chlorooctane 98.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 119 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TALON LPE  
 REBECCA PONS  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received: 09/21/2022  
 Reported: 09/26/2022  
 Project Name: EMPIRE A FEDERAL COM 3H  
 Project Number: 701162.116.01  
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 09/19/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: S - 6 0-1' (H224386-04)**

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	09/22/2022	ND	2.13	106	2.00	9.73		
Toluene*	<0.050	0.050	09/22/2022	ND	2.05	103	2.00	9.33		
Ethylbenzene*	<0.050	0.050	09/22/2022	ND	1.99	99.6	2.00	9.64		
Total Xylenes*	<0.150	0.150	09/22/2022	ND	6.08	101	6.00	8.64		
Total BTEX	<0.300	0.300	09/22/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.2 % 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	3280	16.0	09/22/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/23/2022	ND	168	84.0	200	7.29	
DRO >C10-C28*	<10.0	10.0	09/23/2022	ND	174	87.2	200	10.3	
EXT DRO >C28-C36	<10.0	10.0	09/23/2022	ND					

Surrogate: 1-Chlorooctane 110 % 45.3-161

Surrogate: 1-Chlorooctadecane 130 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TALON LPE  
 REBECCA PONS  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received: 09/21/2022  
 Reported: 09/26/2022  
 Project Name: EMPIRE A FEDERAL COM 3H  
 Project Number: 701162.116.01  
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 09/19/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: S - 6 2' (H224386-05)**

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	09/22/2022	ND	2.13	106	2.00	9.73		
Toluene*	<0.050	0.050	09/22/2022	ND	2.05	103	2.00	9.33		
Ethylbenzene*	<0.050	0.050	09/22/2022	ND	1.99	99.6	2.00	9.64		
Total Xylenes*	<0.150	0.150	09/22/2022	ND	6.08	101	6.00	8.64		
Total BTX	<0.300	0.300	09/22/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.8 % 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	09/22/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/22/2022	ND	168	84.0	200	7.29	
DRO >C10-C28*	<10.0	10.0	09/22/2022	ND	174	87.2	200	10.3	
EXT DRO >C28-C36	<10.0	10.0	09/22/2022	ND					

Surrogate: 1-Chlorooctane 92.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 111 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

TALON LPE  
 REBECCA PONS  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received: 09/21/2022  
 Reported: 09/26/2022  
 Project Name: EMPIRE A FEDERAL COM 3H  
 Project Number: 701162.116.01  
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 09/19/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: S - 6 3' (H224386-06)**

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	09/22/2022	ND	2.13	106	2.00	9.73		
Toluene*	<0.050	0.050	09/22/2022	ND	2.05	103	2.00	9.33		
Ethylbenzene*	<0.050	0.050	09/22/2022	ND	1.99	99.6	2.00	9.64		
Total Xylenes*	<0.150	0.150	09/22/2022	ND	6.08	101	6.00	8.64		
Total BTEX	<0.300	0.300	09/22/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.9 % 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	304	16.0	09/22/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/22/2022	ND	168	84.0	200	7.29	
DRO >C10-C28*	<10.0	10.0	09/22/2022	ND	174	87.2	200	10.3	
EXT DRO >C28-C36	<10.0	10.0	09/22/2022	ND					

Surrogate: 1-Chlorooctane 96.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 117 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TALON LPE  
 REBECCA PONS  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received: 09/21/2022  
 Reported: 09/26/2022  
 Project Name: EMPIRE A FEDERAL COM 3H  
 Project Number: 701162.116.01  
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 09/19/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: S - 8 0-1' (H224386-07)**

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	09/22/2022	ND	2.13	106	2.00	9.73	
Toluene*	<0.050	0.050	09/22/2022	ND	2.05	103	2.00	9.33	
Ethylbenzene*	<0.050	0.050	09/22/2022	ND	1.99	99.6	2.00	9.64	
Total Xylenes*	<0.150	0.150	09/22/2022	ND	6.08	101	6.00	8.64	
Total BTEx	<0.300	0.300	09/22/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.5 % 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	224	16.0	09/22/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/22/2022	ND	168	84.0	200	7.29	
DRO >C10-C28*	534	10.0	09/22/2022	ND	174	87.2	200	10.3	
EXT DRO >C28-C36	119	10.0	09/22/2022	ND					

Surrogate: 1-Chlorooctane 86.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 141 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TALON LPE  
 REBECCA PONS  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received:	09/21/2022	Sampling Date:	09/19/2022
Reported:	09/26/2022	Sampling Type:	Soil
Project Name:	EMPIRE A FEDERAL COM 3H	Sampling Condition:	Cool & Intact
Project Number:	701162.116.01	Sample Received By:	Shalyn Rodriguez
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: S - 8 2' (H224386-08)**

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	09/22/2022	ND	2.13	106	2.00	9.73		
Toluene*	<0.050	0.050	09/22/2022	ND	2.05	103	2.00	9.33		
Ethylbenzene*	<0.050	0.050	09/22/2022	ND	1.99	99.6	2.00	9.64		
Total Xylenes*	<0.150	0.150	09/22/2022	ND	6.08	101	6.00	8.64		
Total BTX	<0.300	0.300	09/22/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.0 % 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	09/22/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/23/2022	ND	168	84.0	200	7.29	
DRO >C10-C28*	<10.0	10.0	09/23/2022	ND	174	87.2	200	10.3	
EXT DRO >C28-C36	<10.0	10.0	09/23/2022	ND					

Surrogate: 1-Chlorooctane 91.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 109 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TALON LPE  
 REBECCA PONS  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received: 09/21/2022  
 Reported: 09/26/2022  
 Project Name: EMPIRE A FEDERAL COM 3H  
 Project Number: 701162.116.01  
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 09/19/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: S - 9 0-1' (H224386-09)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/22/2022	ND	2.13	106	2.00	9.73	
Toluene*	<0.050	0.050	09/22/2022	ND	2.05	103	2.00	9.33	
Ethylbenzene*	<0.050	0.050	09/22/2022	ND	1.99	99.6	2.00	9.64	
Total Xylenes*	<0.150	0.150	09/22/2022	ND	6.08	101	6.00	8.64	
Total BTX	<0.300	0.300	09/22/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.9 % 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	272	16.0	09/22/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/22/2022	ND	168	84.0	200	7.29	
DRO >C10-C28*	1160	10.0	09/22/2022	ND	174	87.2	200	10.3	
EXT DRO >C28-C36	228	10.0	09/22/2022	ND					

Surrogate: 1-Chlorooctane 77.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 169 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TALON LPE  
 REBECCA PONS  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received: 09/21/2022  
 Reported: 09/26/2022  
 Project Name: EMPIRE A FEDERAL COM 3H  
 Project Number: 701162.116.01  
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 09/19/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: S - 9 2' (H224386-10)**

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	09/22/2022	ND	2.13	106	2.00	9.73		
Toluene*	<0.050	0.050	09/22/2022	ND	2.05	103	2.00	9.33		
Ethylbenzene*	<0.050	0.050	09/22/2022	ND	1.99	99.6	2.00	9.64		
Total Xylenes*	<0.150	0.150	09/22/2022	ND	6.08	101	6.00	8.64		
Total BTEX	<0.300	0.300	09/22/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.6 % 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	160	16.0	09/22/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/23/2022	ND	168	84.0	200	7.29	
DRO >C10-C28*	<10.0	10.0	09/23/2022	ND	174	87.2	200	10.3	
EXT DRO >C28-C36	<10.0	10.0	09/23/2022	ND					

Surrogate: 1-Chlorooctane 108 % 45.3-161

Surrogate: 1-Chlorooctadecane 128 % 46.3-178

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**Analytical Results For:**

TALON LPE  
 REBECCA PONS  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received: 09/21/2022  
 Reported: 09/26/2022  
 Project Name: EMPIRE A FEDERAL COM 3H  
 Project Number: 701162.116.01  
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 09/19/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: S - 10 0-1' (H224386-11)**

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	09/22/2022	ND	2.13	106	2.00	9.73	
Toluene*	<0.050	0.050	09/22/2022	ND	2.05	103	2.00	9.33	
Ethylbenzene*	<0.050	0.050	09/22/2022	ND	1.99	99.6	2.00	9.64	
Total Xylenes*	<0.150	0.150	09/22/2022	ND	6.08	101	6.00	8.64	
Total BTX	<0.300	0.300	09/22/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.5 % 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	448	16.0	09/22/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/22/2022	ND	168	84.0	200	7.29	
DRO >C10-C28*	32.7	10.0	09/22/2022	ND	174	87.2	200	10.3	
EXT DRO >C28-C36	10.9	10.0	09/22/2022	ND					

Surrogate: 1-Chlorooctane 78.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 96.2 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TALON LPE  
 REBECCA PONS  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received: 09/21/2022  
 Reported: 09/26/2022  
 Project Name: EMPIRE A FEDERAL COM 3H  
 Project Number: 701162.116.01  
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 09/19/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: S - 11 0-1' (H224386-12)**

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	09/22/2022	ND	2.13	106	2.00	9.73		
Toluene*	<0.050	0.050	09/22/2022	ND	2.05	103	2.00	9.33		
Ethylbenzene*	<0.050	0.050	09/22/2022	ND	1.99	99.6	2.00	9.64		
Total Xylenes*	<0.150	0.150	09/22/2022	ND	6.08	101	6.00	8.64		
Total BTEX	<0.300	0.300	09/22/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.1 % 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	64.0	16.0	09/22/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/22/2022	ND	168	84.0	200	7.29	
DRO >C10-C28*	<10.0	10.0	09/22/2022	ND	174	87.2	200	10.3	
EXT DRO >C28-C36	<10.0	10.0	09/22/2022	ND					

Surrogate: 1-Chlorooctane 86.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 103 % 46.3-178

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**Analytical Results For:**

TALON LPE  
 REBECCA PONS  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received: 09/21/2022  
 Reported: 09/26/2022  
 Project Name: EMPIRE A FEDERAL COM 3H  
 Project Number: 701162.116.01  
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 09/19/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: E. SW - 1 (H224386-13)**

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	09/23/2022	ND	2.13	106	2.00	9.73	
Toluene*	<0.050	0.050	09/23/2022	ND	2.05	103	2.00	9.33	
Ethylbenzene*	<0.050	0.050	09/23/2022	ND	1.99	99.6	2.00	9.64	
Total Xylenes*	<0.150	0.150	09/23/2022	ND	6.08	101	6.00	8.64	
Total BTEX	<0.300	0.300	09/23/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.8 % 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	09/22/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/23/2022	ND	168	84.0	200	7.29	
DRO >C10-C28*	25.6	10.0	09/23/2022	ND	174	87.2	200	10.3	
EXT DRO >C28-C36	<10.0	10.0	09/23/2022	ND					

Surrogate: 1-Chlorooctane 81.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 97.8 % 46.3-178

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**Analytical Results For:**

TALON LPE  
 REBECCA PONS  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received: 09/21/2022  
 Reported: 09/26/2022  
 Project Name: EMPIRE A FEDERAL COM 3H  
 Project Number: 701162.116.01  
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 09/19/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: E. SW - 2 (H224386-14)**

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	09/23/2022	ND	2.13	106	2.00	9.73	
Toluene*	<0.050	0.050	09/23/2022	ND	2.05	103	2.00	9.33	
Ethylbenzene*	<0.050	0.050	09/23/2022	ND	1.99	99.6	2.00	9.64	
Total Xylenes*	<0.150	0.150	09/23/2022	ND	6.08	101	6.00	8.64	
Total BTEX	<0.300	0.300	09/23/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.9 % 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	176	16.0	09/22/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/22/2022	ND	168	84.0	200	7.29	
DRO >C10-C28*	<10.0	10.0	09/22/2022	ND	174	87.2	200	10.3	
EXT DRO >C28-C36	<10.0	10.0	09/22/2022	ND					

Surrogate: 1-Chlorooctane 92.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 111 % 46.3-178

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**Analytical Results For:**

TALON LPE  
 REBECCA PONS  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received: 09/21/2022  
 Reported: 09/26/2022  
 Project Name: EMPIRE A FEDERAL COM 3H  
 Project Number: 701162.116.01  
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 09/19/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: E. SW - 3 (H224386-15)**

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	09/23/2022	ND	2.13	106	2.00	9.73		
Toluene*	<0.050	0.050	09/23/2022	ND	2.05	103	2.00	9.33		
Ethylbenzene*	<0.050	0.050	09/23/2022	ND	1.99	99.6	2.00	9.64		
Total Xylenes*	<0.150	0.150	09/23/2022	ND	6.08	101	6.00	8.64		
Total BTX	<0.300	0.300	09/23/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.2 % 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	09/22/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/23/2022	ND	168	84.0	200	7.29	
DRO >C10-C28*	30.6	10.0	09/23/2022	ND	174	87.2	200	10.3	
EXT DRO >C28-C36	<10.0	10.0	09/23/2022	ND					

Surrogate: 1-Chlorooctane 88.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 107 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

TALON LPE  
 REBECCA PONS  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received: 09/21/2022  
 Reported: 09/26/2022  
 Project Name: EMPIRE A FEDERAL COM 3H  
 Project Number: 701162.116.01  
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 09/19/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: W. SW - 4 (H224386-16)**

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	09/23/2022	ND	2.13	106	2.00	9.73		
Toluene*	<0.050	0.050	09/23/2022	ND	2.05	103	2.00	9.33		
Ethylbenzene*	<0.050	0.050	09/23/2022	ND	1.99	99.6	2.00	9.64		
Total Xylenes*	<0.150	0.150	09/23/2022	ND	6.08	101	6.00	8.64		
Total BTEX	<0.300	0.300	09/23/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.0 % 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	96.0	16.0	09/22/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/22/2022	ND	168	84.0	200	7.29	
DRO >C10-C28*	<10.0	10.0	09/22/2022	ND	174	87.2	200	10.3	
EXT DRO >C28-C36	<10.0	10.0	09/22/2022	ND					

Surrogate: 1-Chlorooctane 108 % 45.3-161

Surrogate: 1-Chlorooctadecane 128 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TALON LPE  
 REBECCA PONS  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received: 09/21/2022  
 Reported: 09/26/2022  
 Project Name: EMPIRE A FEDERAL COM 3H  
 Project Number: 701162.116.01  
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 09/19/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: N. SW - 3 (H224386-17)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/23/2022	ND	2.13	106	2.00	9.73		
Toluene*	<0.050	0.050	09/23/2022	ND	2.05	103	2.00	9.33		
Ethylbenzene*	<0.050	0.050	09/23/2022	ND	1.99	99.6	2.00	9.64		
Total Xylenes*	<0.150	0.150	09/23/2022	ND	6.08	101	6.00	8.64		
Total BTEX	<0.300	0.300	09/23/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.4 % 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	208	16.0	09/22/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/22/2022	ND	191	95.5	200	5.19	
DRO >C10-C28*	<10.0	10.0	09/22/2022	ND	190	94.8	200	0.431	
EXT DRO >C28-C36	<10.0	10.0	09/22/2022	ND					

Surrogate: 1-Chlorooctane 104 % 45.3-161

Surrogate: 1-Chlorooctadecane 120 % 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:**

TALON LPE  
 REBECCA PONS  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received: 09/21/2022  
 Reported: 09/26/2022  
 Project Name: EMPIRE A FEDERAL COM 3H  
 Project Number: 701162.116.01  
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 09/19/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: S. SW - 3 (H224386-18)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/23/2022	ND	2.13	106	2.00	9.73		
Toluene*	<0.050	0.050	09/23/2022	ND	2.05	103	2.00	9.33		
Ethylbenzene*	<0.050	0.050	09/23/2022	ND	1.99	99.6	2.00	9.64		
Total Xylenes*	<0.150	0.150	09/23/2022	ND	6.08	101	6.00	8.64		
Total BTEX	<0.300	0.300	09/23/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.7 % 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	09/22/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/22/2022	ND	191	95.5	200	5.19	
DRO >C10-C28*	16.6	10.0	09/22/2022	ND	190	94.8	200	0.431	
EXT DRO >C28-C36	<10.0	10.0	09/22/2022	ND					

Surrogate: 1-Chlorooctane 101 % 45.3-161

Surrogate: 1-Chlorooctadecane 118 % 46.3-178

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TALON LPE  
 REBECCA PONS  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received: 09/21/2022  
 Reported: 09/26/2022  
 Project Name: EMPIRE A FEDERAL COM 3H  
 Project Number: 701162.116.01  
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 09/19/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: S. SW - 4 (H224386-19)**

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	09/23/2022	ND	2.13	106	2.00	9.73		
Toluene*	<0.050	0.050	09/23/2022	ND	2.05	103	2.00	9.33		
Ethylbenzene*	<0.050	0.050	09/23/2022	ND	1.99	99.6	2.00	9.64		
Total Xylenes*	<0.150	0.150	09/23/2022	ND	6.08	101	6.00	8.64		
Total BTEx	<0.300	0.300	09/23/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.9 % 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	09/22/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/22/2022	ND	191	95.5	200	5.19	
DRO >C10-C28*	<10.0	10.0	09/22/2022	ND	190	94.8	200	0.431	
EXT DRO >C28-C36	<10.0	10.0	09/22/2022	ND					

Surrogate: 1-Chlorooctane 84.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 98.4 % 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:**

TALON LPE  
 REBECCA PONS  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received: 09/21/2022  
 Reported: 09/26/2022  
 Project Name: EMPIRE A FEDERAL COM 3H  
 Project Number: 701162.116.01  
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 09/19/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: S. SW - 5 (H224386-20)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/23/2022	ND	2.13	106	2.00	9.73	
Toluene*	<0.050	0.050	09/23/2022	ND	2.05	103	2.00	9.33	
Ethylbenzene*	<0.050	0.050	09/23/2022	ND	1.99	99.6	2.00	9.64	
Total Xylenes*	<0.150	0.150	09/23/2022	ND	6.08	101	6.00	8.64	
Total BTX	<0.300	0.300	09/23/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.3 % 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	112	16.0	09/22/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/22/2022	ND	191	95.5	200	5.19	
DRO >C10-C28*	<10.0	10.0	09/22/2022	ND	190	94.8	200	0.431	
EXT DRO >C28-C36	<10.0	10.0	09/22/2022	ND					

Surrogate: 1-Chlorooctane 98.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 113 % 46.3-178

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\*=Accredited Analyte

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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", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager



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

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

<b>BILL TO</b>	<b>ANALYSIS REQUEST</b>								
Company Name: Talon LPE Project Manager: R. Pons Address: 408 W. Texas Ave City: Artesia Phone #: 575.746.8768 Fax #: State: NM zip: 88210	P.O. #:	Company:							
Attn: Address: City: State: Zip: Phone #:	Fax #:								
Sampler Name: J. Carnes									
FOR LAB USE ONLY	MATRIX	PRESERV.	SAMPLING						
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP. # CONTAINERS	GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER :	ACID/BASE: ICE / COOL OTHER :	DATE	TIME	Chlorides	TPH	BTEX
H224386	1 S-5 0-1'	C1	X	X	9-19-22	1:05	X	X	X
	2 S-5 2'					2:00	X	X	X
	3 S-5 3'					2:05			
	4 S-6 0-1'					8:15			
	5 S-6 2'					8:20			
	6 S-6 3'					8:25			
	7 S-8 0-1'					11:00			
	8 S-8 2'					11:05			
	9 S-9 0-1'					11:19			
	10 S-9 2'					12:50			
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Relinquished By: [Signature]	Date: 9/20/22	Received By: [Signature]							
Time: 14:40	Date:	Time:							
Delivered By: (Circle One) <input checked="" type="checkbox"/> UPS - Bus <input type="checkbox"/> Other: -0.4%/-1.0%	#113	Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY: [Initials]						
REMARKS:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:							
3-Dug vush									
pg 1 of 2									



## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

**(575) 393-2326 FAX (575) 393-2476**

Company Name: Talon LPE							<b>BILL TO</b>								ANALYSIS REQUEST										
Project Manager: R. Pons							P.O. #:																		
Address: 408 W. Texas Ave							Company:																		
City: Artesia							Attn:																		
Phone #: 575.746.8768							Fax #:																		
Project #: 701162.116.01							Project Owner: Cimarex																		
Project Name: Empire A Fed Com 3H							City:																		
Project Location: Eddy County, NM							State:							Zip:											
Sampler Name: J. Carnes							Phone #:																		
FOR LAB USE ONLY							Fax #:																		
Lab I.D.							Sample I.D.																		
#224386							(G)RAB OR (C)OMP.																		
							# CONTAINERS																		
							GROUNDWATER																		
							WASTEWATER																		
							SOIL																		
							OIL																		
							SLUDGE																		
							OTHER :																		
							ACID/BASE:																		
							ICE / COOL																		
							OTHER :																		
							DATE							TIME											
11							S-10 0-1'							9-19-28 11:15											
12							S-11 0-1'							1:40											
13							E.S.W-1							10:05											
14							E.S.W-2							10:10											
15							E.S.W-3							10:15											
16							W.S.W-4							10:20											
17							N.S.W-3							10:00											
18							S.S.W-3							10:25											
19							S.S.W-4							10:30											
20							S.S.W-5							10:35											
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Relinquished By:							Date: 9-19-28							Time: 14:40											
Received By:							Date: 9-19-28							Time: 14:40											
Delivered By: (Circle One)							Sample Condition							CHECKED BY: (Initials)											
Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>																									
Yes <input type="checkbox"/> No <input type="checkbox"/>																									
No <input type="checkbox"/> Yes <input type="checkbox"/>																									
No <input type="checkbox"/>																									
Remarks:							3-Day Rush																		
Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No							Add'l Phone #:																		
Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No							Add'l Fax #:																		
REMARKS:							pg 2 of 2																		



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

September 23, 2022

REBECCA PONS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: EMPIRE A FEDERAL COM 3H

Enclosed are the results of analyses for samples received by the laboratory on 09/21/22 14:40.

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](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager





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

**Analytical Results For:**

TALON LPE  
 REBECCA PONS  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received:	09/21/2022	Sampling Date:	09/20/2022
Reported:	09/23/2022	Sampling Type:	Soil
Project Name:	EMPIRE A FEDERAL COM 3H	Sampling Condition:	Cool & Intact
Project Number:	701162.116.01	Sample Received By:	Shalyn Rodriguez
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: BG - 1 0' (H224385-01)**

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	09/22/2022	ND	1.95	97.5	2.00	8.56	
Toluene*	<0.050	0.050	09/22/2022	ND	1.94	97.1	2.00	8.00	
Ethylbenzene*	<0.050	0.050	09/22/2022	ND	1.89	94.6	2.00	8.40	
Total Xylenes*	<0.150	0.150	09/22/2022	ND	5.91	98.5	6.00	9.07	
Total BTX	<0.300	0.300	09/22/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	16.0	16.0	09/22/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/22/2022	ND	183	91.3	200	2.81	
DRO >C10-C28*	<10.0	10.0	09/22/2022	ND	196	97.8	200	7.23	
EXT DRO >C28-C36	<10.0	10.0	09/22/2022	ND					

Surrogate: 1-Chlorooctane 95.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 106 % 46.3-178

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

TALON LPE  
 REBECCA PONS  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received: 09/21/2022  
 Reported: 09/23/2022  
 Project Name: EMPIRE A FEDERAL COM 3H  
 Project Number: 701162.116.01  
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 09/20/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: BG - 2 0' (H224385-02)**

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	09/22/2022	ND	1.95	97.5	2.00	8.56		
Toluene*	<0.050	0.050	09/22/2022	ND	1.94	97.1	2.00	8.00		
Ethylbenzene*	<0.050	0.050	09/22/2022	ND	1.89	94.6	2.00	8.40		
Total Xylenes*	<0.150	0.150	09/22/2022	ND	5.91	98.5	6.00	9.07		
Total BTEX	<0.300	0.300	09/22/2022	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	32.0	16.0	09/22/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/22/2022	ND	183	91.3	200	2.81	
DRO >C10-C28*	<10.0	10.0	09/22/2022	ND	196	97.8	200	7.23	
EXT DRO >C28-C36	<10.0	10.0	09/22/2022	ND					

Surrogate: 1-Chlorooctane 99.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 106 % 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:**

TALON LPE  
 REBECCA PONS  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received: 09/21/2022  
 Reported: 09/23/2022  
 Project Name: EMPIRE A FEDERAL COM 3H  
 Project Number: 701162.116.01  
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 09/20/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: BG - 3 0' (H224385-03)**

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	09/22/2022	ND	1.95	97.5	2.00	8.56		
Toluene*	<0.050	0.050	09/22/2022	ND	1.94	97.1	2.00	8.00		
Ethylbenzene*	<0.050	0.050	09/22/2022	ND	1.89	94.6	2.00	8.40		
Total Xylenes*	<0.150	0.150	09/22/2022	ND	5.91	98.5	6.00	9.07		
Total BTEX	<0.300	0.300	09/22/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	16.0	16.0	09/22/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/22/2022	ND	191	95.5	200	5.19	
DRO >C10-C28*	<10.0	10.0	09/22/2022	ND	190	94.8	200	0.431	
EXT DRO >C28-C36	<10.0	10.0	09/22/2022	ND					

Surrogate: 1-Chlorooctane 110 % 45.3-161

Surrogate: 1-Chlorooctadecane 130 % 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:**

TALON LPE  
 REBECCA PONS  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received: 09/21/2022  
 Reported: 09/23/2022  
 Project Name: EMPIRE A FEDERAL COM 3H  
 Project Number: 701162.116.01  
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 09/20/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: BG - 4 0' (H224385-04)**

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	09/23/2022	ND	1.95	97.5	2.00	8.56		
Toluene*	<0.050	0.050	09/23/2022	ND	1.94	97.1	2.00	8.00		
Ethylbenzene*	<0.050	0.050	09/23/2022	ND	1.89	94.6	2.00	8.40		
Total Xylenes*	<0.150	0.150	09/23/2022	ND	5.91	98.5	6.00	9.07		
Total BTEX	<0.300	0.300	09/23/2022	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	16.0	16.0	09/22/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/22/2022	ND	191	95.5	200	5.19	
DRO >C10-C28*	<10.0	10.0	09/22/2022	ND	190	94.8	200	0.431	
EXT DRO >C28-C36	<10.0	10.0	09/22/2022	ND					

Surrogate: 1-Chlorooctane 109 % 45.3-161

Surrogate: 1-Chlorooctadecane 129 % 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.
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", is written over a horizontal line.

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: Talon LPE		P.O. #:		BILL TO										ANALYSIS REQUEST									
Project Manager: R. Pons		Company:																					
Address: 408 W. Texas Ave		Attn:																					
City: Artesia		Address:																					
State: NM		City:																					
zip: 88210		State:																					
Phone #: 575.746.8768		Fax #:																					
Project #: 701162.116.01		Project Owner: Cimarex																					
Project Name: Empire A Fed Com 3H		City:																					
State: NM		Zip:																					
Project Location: Eddy County, NM		Phone #:																					
Fax #:																							
Sampler Name: J. Carnes		MATRIV		PRESERV										SAMPLING									

[illegible]

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<small>service. In no event shall Cardinal be liable for incidental or consequential damages, including attorney's fees, arising out of or related to the performance of services hereunder by Cardinal. Regardless of whether such claim is based upon any of the above stated reasons or otherwise.</small>				Add'l Phone #: Add'l Fax #:	
<b>Reinquished By:</b> Date: 4/21/02 Time: 1:45		<b>Received By:</b> (Signature)		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	
<b>Reinquished By:</b> Date: Time:		<b>Received By:</b> (Signature)		<b>REMARKS:</b> 3 Day Rush	
Delivered By: (Circle One) Sampler - UPS - Bus - Other: -0.46/-1.00		Sample Condition Cool <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Impact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		CHECKED BY: (Initials) (Signature)	

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





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September 26, 2022

REBECCA PONS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: EMPIRE A FEDERAL COM 3H

Enclosed are the results of analyses for samples received by the laboratory on 09/23/22 11:31.

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](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

TALON LPE  
 REBECCA PONS  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received:	09/23/2022	Sampling Date:	09/23/2022
Reported:	09/26/2022	Sampling Type:	Soil
Project Name:	EMPIRE A FEDERAL COM 3H	Sampling Condition:	** (See Notes)
Project Number:	701162.116.01	Sample Received By:	Shalyn Rodriguez
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: W.SW - 3A (H224432-01)**

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	09/23/2022	ND	2.07	103	2.00	0.646	
Toluene*	<0.050	0.050	09/23/2022	ND	2.01	100	2.00	0.774	
Ethylbenzene*	<0.050	0.050	09/23/2022	ND	1.94	96.9	2.00	0.466	
Total Xylenes*	<0.150	0.150	09/23/2022	ND	5.92	98.6	6.00	0.750	
Total BTEX	<0.300	0.300	09/23/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.5 % 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	272	16.0	09/26/2022	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/23/2022	ND	204	102	200	1.13	
DRO >C10-C28*	<10.0	10.0	09/23/2022	ND	213	106	200	1.66	
EXT DRO >C28-C36	<10.0	10.0	09/23/2022	ND					

Surrogate: 1-Chlorooctane 86.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 91.6 % 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

[illegible]



## **Appendix VII**

### Liner Integrity Certification



# Liner Integrity Certification

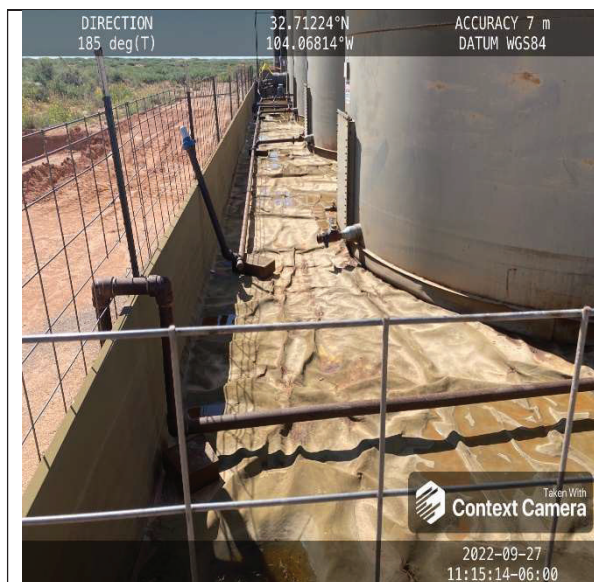
The following serves to verify that the affected liner has been inspected and found to be in serviceable condition in accordance with 19.15.29.11 A.(5)(a)(i-ii) of the New Mexico Administrative Code.

Facility ID: 30-015-38659

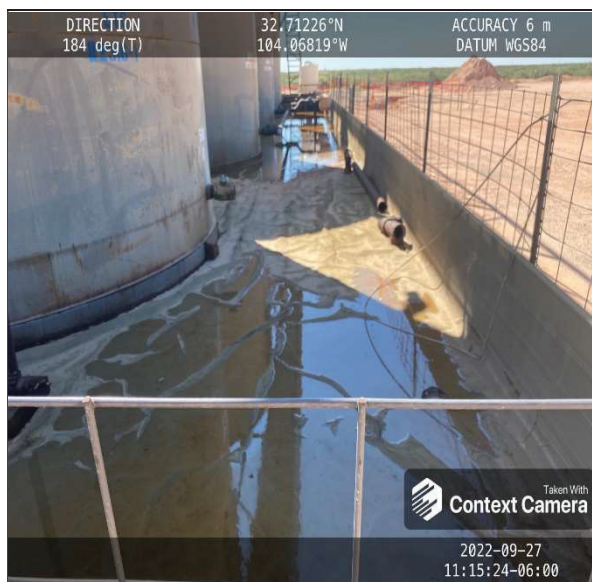
Date: 9/27/2022

Incident ID(s): nAPP2220223048

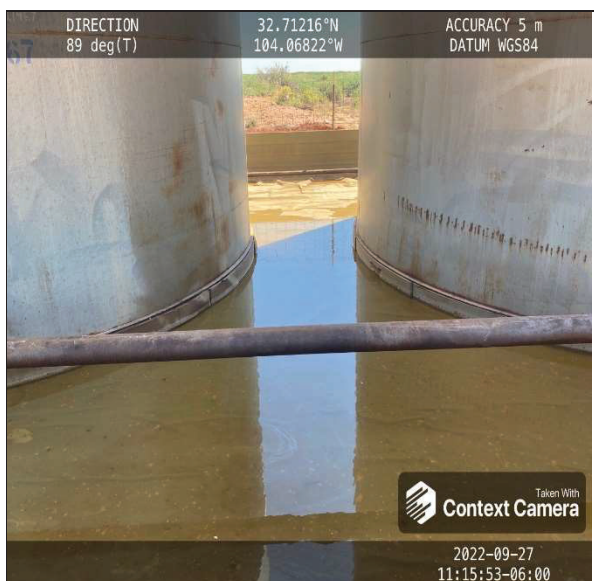
- ☒ Responsible Party has visually inspected the liner.
- ☒ Liner remains intact and was able to contain the leak in question.
- ☒ At least two business days' notice was given to the appropriate division district office before conducting the liner inspection.
- ☒ Photographs illustrating liner integrity are included.

**Photograph No.1 Description:**

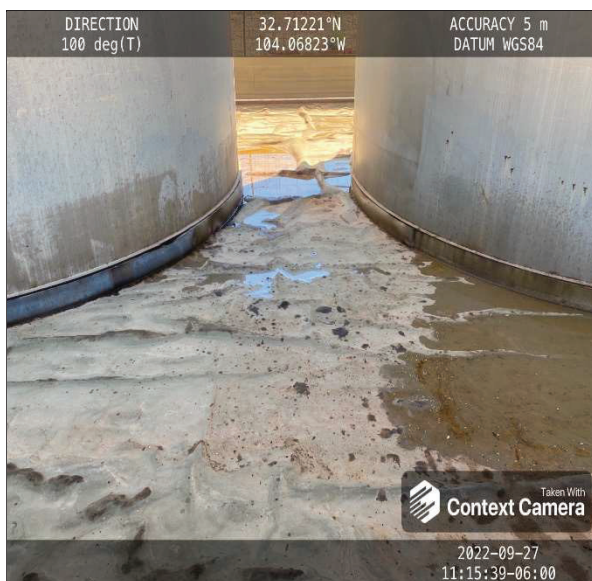
East side containment liner.

**Photograph No.2 Description:**

West Side of containment liner.

**Photograph No.3 Description:**

Liner between tanks.

**Photograph No.4 Description:**

Liner between tanks.

**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 149991

CONDITIONS

Operator: CIMAREX ENERGY CO. OF COLORADO 600 N. Marienfeld Street Midland, TX 79701	OGRID: 162683
	Action Number: 149991
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jharimon	None	12/30/2022