



---

## REMEDIATION CLOSURE REPORT

---

Incident ID: NAPP2423962613

**Ragin Cajun 12 CTB 3**

Facility ID: fAPP2423338309

Prepared By:  
Pima Environmental Services, LLC

Prepared For:  
Devon Energy Production, LP

November 6, 2024  
Pima Environmental Services, LLC  
5614 N Lovington Hwy, Hobbs, NM 88240

Pima Environmental Services

5614 N Lovington Hwy  
Hobbs, NM 88240  
575-964-7740

**Pima Environmental Services**  
**5614 N. Lovington Highway**  
**Hobbs, NM 88240**  
**575-964-7740**

November 6, 2024

NMOCD District 2  
 811 S. First Street  
 Artesia, NM 88210

**Re: Site Assessment, Remediation, and Closure Report**  
**Ragin Cajun 12 CTB 3**  
**Facility ID: fAPP2423338309**  
**GPS: Latitude 32.0614366 Longitude -103.419365**  
**UL - H, Section 12, T26S, R34E**  
**Lea County, NM**  
**NMOCD Ref. No. NAPP2423962613**

Pima Environmental Services, LLC (Pima) has been contracted by Devon Energy Production Company, LP (Devon) to prepare this Site Assessment, Remediation, Liner Inspection and Closure Report for a produced water spill at the Ragin Cajun 12 CTB 3 (Ragin Cajun). The New Mexico Oil Conservation Division (NMOCD) assigned the following incident ID: NAPP2423962613.

#### Site Characterization

The Ragin Cajun is located approximately fourteen (14) miles southwest of Jal, NM. This spill site is in Unit H, Section 12, Township 26S, Range 34E, Latitude 32.0614366 Longitude -103.419365, Lea County, NM. Figure 1 references a Location Map.

Per the New Mexico Bureau of Geology and Mineral Resources, the geology is made up Interlayered eolian sands and piedmont-slope deposits along the eastern flank of the Pecos River valley, primarily between Roswell and Carlsbad. Typically capped by thin eolian deposits. The soil in this area is made up of Pyote and Maljamar fine sands, according to the United States Department of Agriculture Natural Resources Conservation Service soil survey (Appendix B). The drainage class in this area is well drained. There is a low potential for karst geology to be present around the Ragin Cajun (Figure 3). Reference Figure 2 for a Topographic Map.

Based upon New Mexico Office of the State Engineer ( C-04820 POD 1) well water data, depth to the nearest groundwater in this area is 55 feet below grade surface (BGS) located approximately 0.91 miles from the Ragin Cajun According to the United States Geological Survey (USGS 320419103302201 26S.34E.06.21414) well water data, depth to the nearest groundwater in this area is 174 feet BGS. See Appendix A for referenced water surveys and water related maps.

Table 1 NMAC and Closure Criteria 19.15.29

Depth to Groundwater (Appendix A)	Constituent & Limits				
	Chlorides	Total TPH	GRO+DRO	BTEX	Benzene
<50'	600 mg/kg	100 mg/kg		50 mg/kg	10 mg/kg
51-100' C-04820 POD 1	10,000 mg/kg	2,500 mg/kg	1,000 mg/kg	50 mg/kg	10 mg/kg
>100'	20,000 mg/kg	2,500 mg/kg	1,000 mg/kg	50 mg/kg	10 mg/kg

Ragin Cajun 12 CTB 3 | Devon Energy

Pima Environmental Services

5614 N Lovington Hwy

Hobbs, NM 88240

575-964-7740

**Release Information**

**NAPP2423962613:** On August 26, 2024, a 3" poly weld on the downstream leg of the facility WTP's broke apart, water was released into two lined containments. The released fluids were calculated to be approximately 92 barrels (bbls) of produced water. A vacuum truck was able to recover approximately 90 bbls of produced water from the containment, and 0.03 barrels spilled onto pad. The remaining 2 barrels were recovered during the cleanup of the liner.

**Remediation Activities, Site Assessment, and Soil Sampling Results**

On August 29, 2024, Pima mobilized personnel to the site to collect soil samples from the spill area using a hand auger. The laboratory results of these sampling events are provided in the following data table. A Site Map is available in Figure 4.

8-29-2024 Soil Sample Results

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is <50)								
DEVON ENERGY Ragin Cajun 12 CTB 3-NAPP2423962613								
Date: 8-29-24		NM Approved Laboratory Results						
Sample ID	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg
S1	1'	ND	ND	ND	ND	ND	0	877
	2'	ND	ND	ND	ND	ND	0	85.4
	3'	ND	ND	ND	ND	ND	0	42.5
	4'	ND	ND	ND	ND	ND	0	ND
SW1	0-4' comp	ND	ND	ND	ND	ND	0	ND
SW2	0-4' comp	ND	ND	ND	ND	ND	0	ND
SW3	0-4' comp	ND	ND	ND	ND	ND	0	ND
SW4	0-4' comp	ND	ND	ND	ND	ND	0	ND
S2	1'	ND	ND	ND	37.3	ND	37.3	73.8
	2'	ND	ND	ND	ND	ND	0	26.8
	3'	ND	ND	ND	ND	ND	0	24.4
	4'	ND	ND	ND	ND	ND	0	ND
SW5	0-4' comp	ND	ND	ND	ND	ND	0	ND
SW6	0-4' comp	ND	ND	ND	ND	ND	0	ND
SW7	0-4' comp	ND	ND	ND	ND	ND	0	ND
S3	1'	ND	ND	ND	ND	ND	0	29.9
	2'	ND	ND	ND	ND	ND	0	ND
	3'	ND	ND	ND	ND	ND	0	ND
	4'	ND	ND	ND	ND	ND	0	ND
S4	1'	ND	ND	ND	ND	ND	0	31.3
	2'	ND	ND	ND	ND	ND	0	50.9
	3'	ND	ND	ND	ND	ND	0	ND
	4'	ND	ND	ND	ND	ND	0	ND
SW8	0-4' comp	ND	ND	ND	ND	ND	0	ND
SW9	0-4' comp	ND	ND	ND	ND	ND	0	ND
SW10	0-4' comp	ND	ND	ND	ND	ND	0	ND
SW11	0-4' comp	ND	ND	ND	ND	ND	0	ND
BG1	1'	ND	ND	ND	ND	ND	0	ND

ND- Analyte Not Detected

On October 28, 2024, the Devon Construction Department mobilized personnel and equipment to initiate immediate remediation activities. They began excavating to a depth of 1 foot below ground surface (BGS). A total of 7 cubic yards of contaminated soil was hauled to R360 Antelope draw an approved, lined disposal facility.

On October 31, 2024, after sending a 48-hour notification (application ID: 396945, Appendix C), Pima returned to the site to collect 5-point confirmation samples from the excavation. The 5-point composite samples were taken from the exposed excavation sidewalls and bottom sample was collected at 1 foot deep. The samples were Immediately put on ice, jarred, and delivered to Envirotech Inc. for official testing. All samples were analyzed for all constituents listed on Table 1 19.15.29.12 NMAC. The results of this sampling event are provided in the following data table, and a Confirmation Sample Map can be found in Figure 5.

Pima Environmental Services

5614 N Lovington Hwy

Hobbs, NM 88240

575-964-7740

## 10-31-24 Confirmation Sample Results

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is <50')								
DEVON ENERGY Ragin Cajun 12 CTB 3-NAPP2423962613								
Date: 10-31-24		NM Approved Laboratory Results						
Sample ID	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg
CS1	1'	ND	ND	ND	ND	ND	0	23.6
CSW1	1'	ND	ND	ND	ND	ND	0	ND
CSW2	1'	ND	ND	ND	ND	ND	0	ND
CSW3	1'	ND	ND	ND	ND	ND	0	ND
CSW4	1'	ND	ND	ND	ND	ND	0	ND

ND/0- Analyte Not Detected

Complete Laboratory Reports can be found in Appendix E.

**Liner Inspection**

**NAPP2423962613:** On September 6, 2024, Pima personnel mobilized equipment to the site to perform power washing of the liner and containment. A vacuum truck accompanied the crew to recover the power washing fluids.

On September 11, 2024, after submitting the 48-hour notification application ID: 381653 to the OCD, Pima Environmental conducted a liner inspection at this location. Pima concluded that the liner and containment maintained their integrity and successfully retained the fluids. The Liner Inspection Form and Photographic Documentation can be found in Appendix C.

**Closure Request**

After careful review, Pima requests that this incident, NAPP2423962613, be closed. Devon has complied with the applicable closure requirements set forth in rule 19.15.19.12 NMAC.

Should you have any questions or need additional information, please feel free to contact:

Devon Energy – Jim Raley at 575-689-7597 or [Jim.raley@dvn.com](mailto:Jim.raley@dvn.com).

Pima Environmental – Gio Gomez at 806-782-1151 or [Gio@pimaoil.com](mailto:Gio@pimaoil.com).

Respectfully,



Gio Gomez

Project Manager

Pima Environmental Services, LLC



### **Attachments**

#### Figures:

- 1- Location Map
- 2- Topographic Map
- 3- Karst Map
- 4- Site Map and Liner Map
- 5- Confirmation Sample Map

#### Appendices:

Appendix A – Referenced Water Surveys

Appendix B – Soil Survey, Geological Data, FEMA, and Wetlands Map

Appendix C – 48 Hour Notifications & Liner Inspection Form

Appendix D – Photographic Documentation

Appendix E – Laboratory Reports

## Figures:

Figure 1- Location Map

Figure 2- Topographic Map

Figure 3- Karst Map

Figure 4- Site Map & Liner Map



Figure 5- Confirmation Sample Map

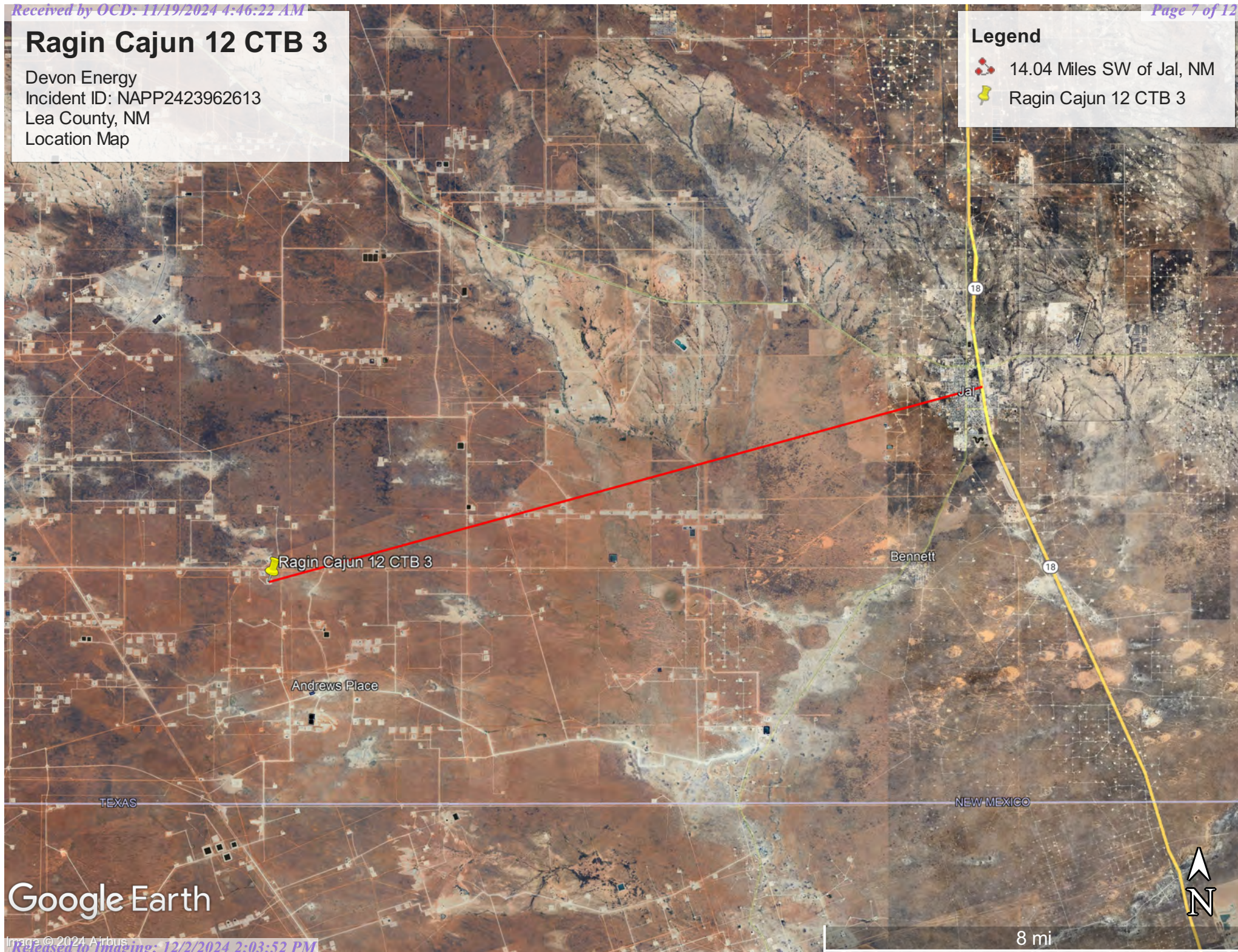


# Ragin Cajun 12 CTB 3

Devon Energy  
Incident ID: NAPP2423962613  
Lea County, NM  
Location Map

## Legend

-  14.04 Miles SW of Jal, NM
-  Ragin Cajun 12 CTB 3




Google Earth

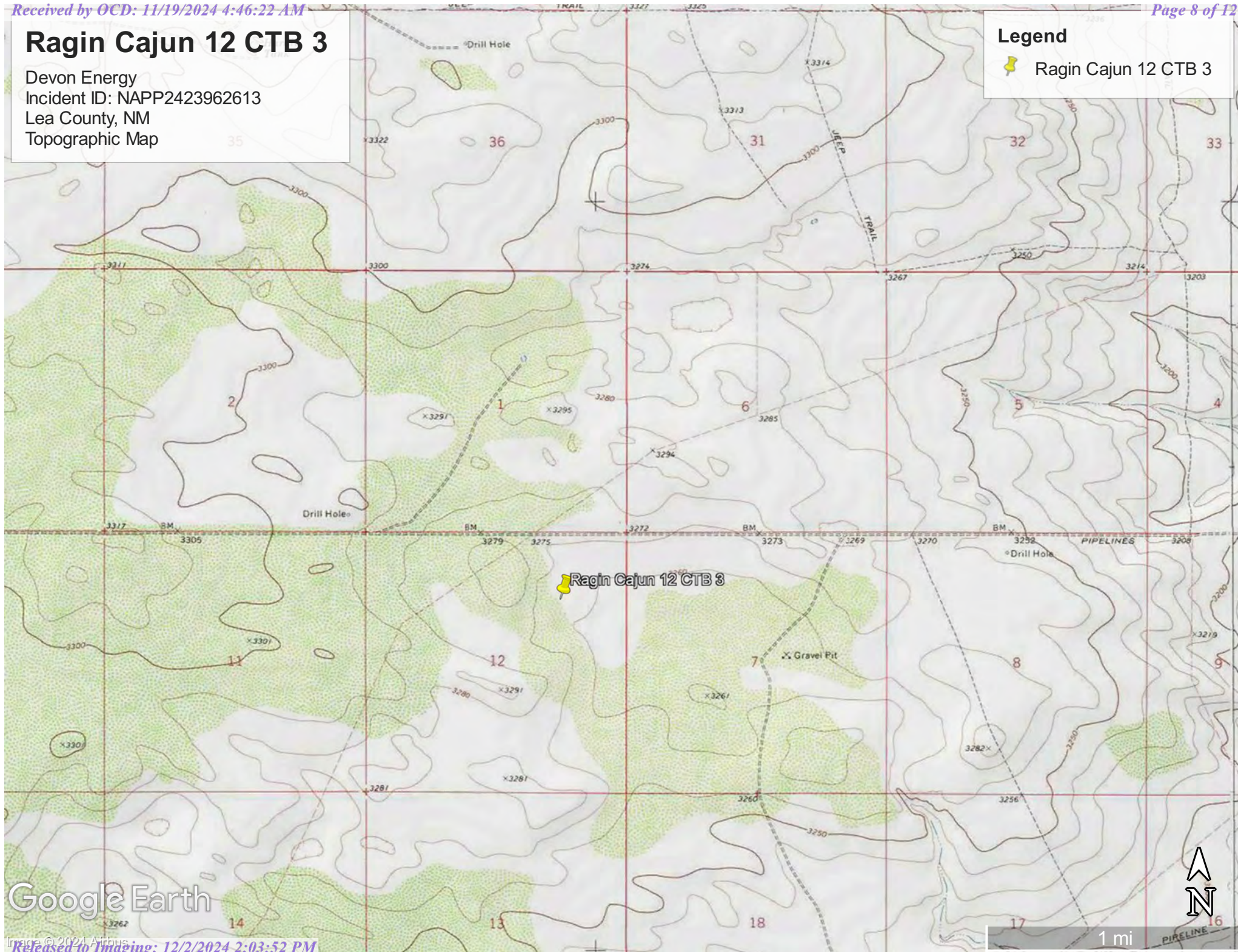


# Ragin Cajun 12 CTB 3

Devon Energy  
Incident ID: NAPP2423962613  
Lea County, NM  
Topographic Map

## Legend

 Ragin Cajun 12 CTB 3



Google Earth

Released to Imaging: 12/2/2024 2:03:52 PM



1 mi



# Ragin Cajun 12 CTB 3

Devon Energy  
Incident ID: NAPP2423962613  
Lea County, NM  
Karst Map

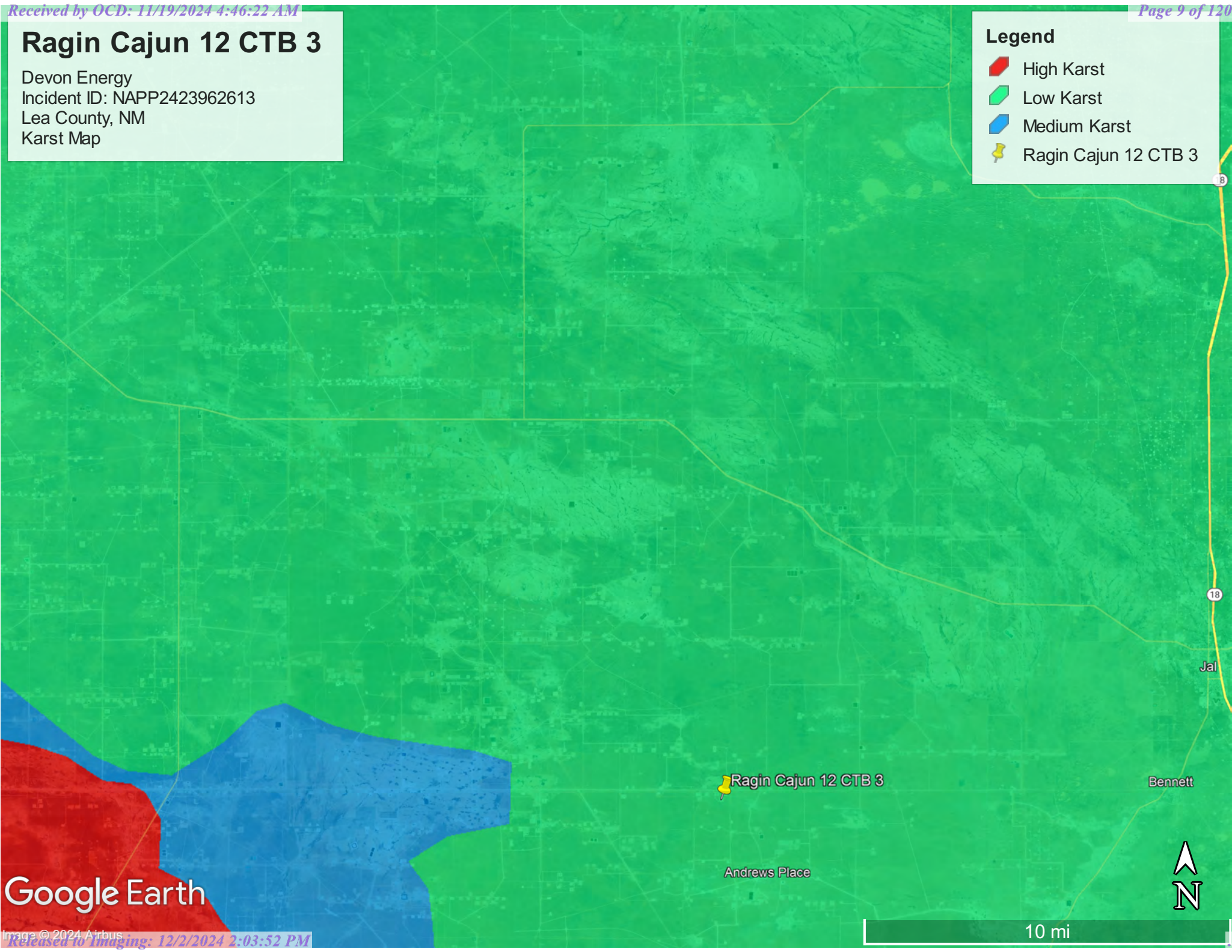
Legend

High Karst

Low Karst

Medium Karst

Ragin Cajun 12 CTB 3



Google Earth



# Ragin Cajun 12 CTB 3

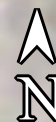
Devon Energy  
Incident ID: NAPP2423962613  
Lea County, NM  
Site Map

## Legend

- Sidewalls/Background
- 📌 Ragin Cajun 12 CTB 3
- Ragin Cajun 12 CTB 3 5,950 Sqft
- Samples

Ragin Cajun 12 CTB 3

BG1






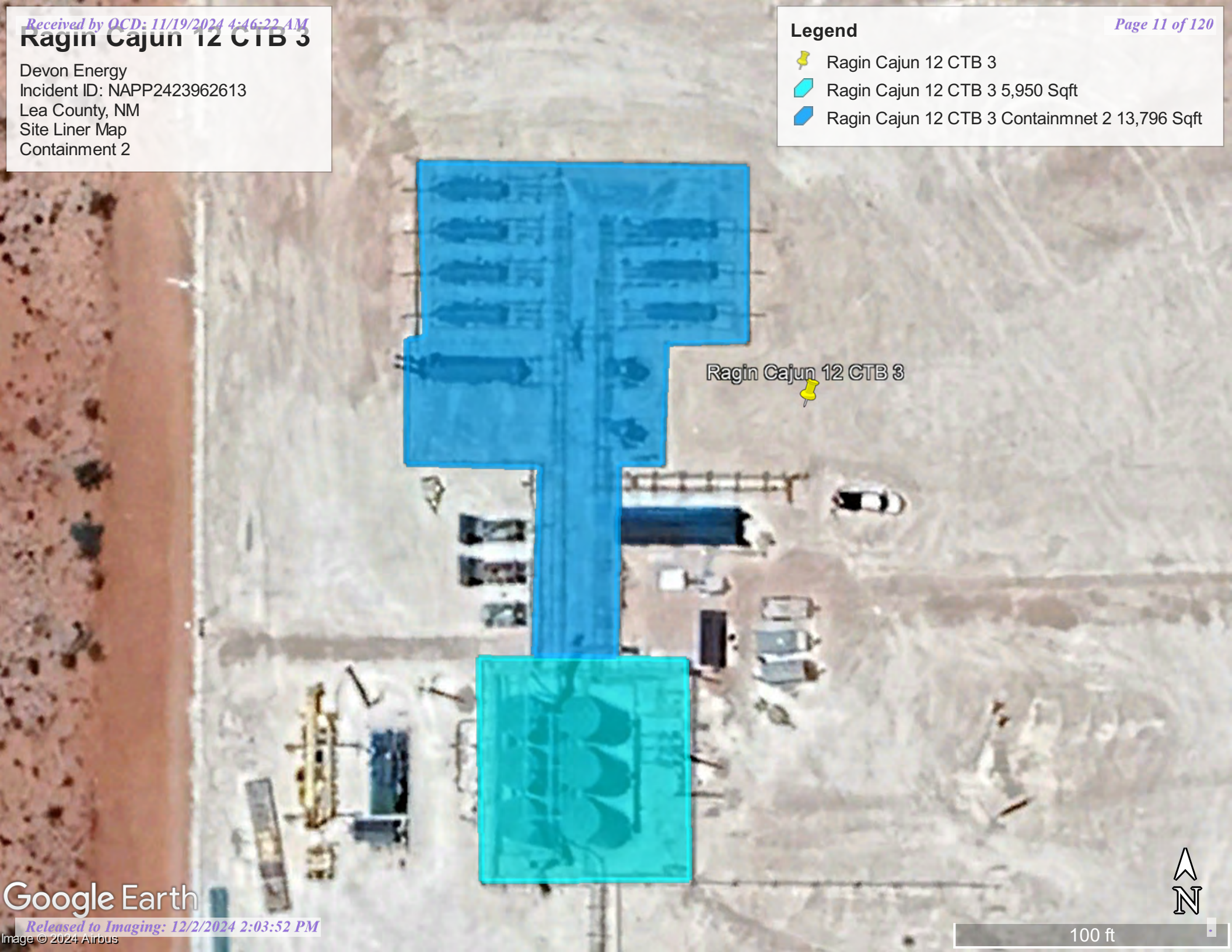


# Ragin Cajun 12 CTB 3

Devon Energy  
Incident ID: NAPP2423962613  
Lea County, NM  
Site Liner Map  
Containment 2

## Legend

-  Ragin Cajun 12 CTB 3
-  Ragin Cajun 12 CTB 3 5,950 Sqft
-  Ragin Cajun 12 CTB 3 Containmnet 2 13,796 Sqft





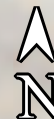
## Ragin Cajun 12 CTB 3

Devon Energy  
Incident ID: NAPP2423962613  
Lea County, NM  
Confirmation Sample Map

### Legend

- Confirmation Sidewall Samples
- Confirmation Sample
- Ragin Cajun 12 CTB 3

Ragin Cajun 12 CTB 3



40 ft

Google Earth












## Appendix A

### Water Surveys:

- OSE
- USGS
- Surface Water Map

# Water Column/Average Depth to Water

<div>(A CLW##### in the POD suffix indicates the POD has been replaced &amp; no longer serves a water right file.)</div> <div>(R=POD has been replaced, O=orphaned, C=the file is closed)</div> <div>(quarters are smallest to largest)</div> <div>(NAD83 UTM in meters)</div> <div>(In feet)</div>														
POD Number	Code	Sub basin	County	Q64	Q16	Q4	Sec	Tws	Range	X	Y	Map	Distance	Well Depth
<a href="#">C 04820 POD1</a>		CUB	LE	NE	NW	NW	13	26S	34E	648389.9	3547088.9		1493	55
<a href="#">C 04846 POD1</a>		CUB	LE	SW	NE	NW	06	26S	35E	650048.2	3550110.5		1961	
<a href="#">C 04601 POD1</a>		CUB	LE	SW	SE	SW	05	26S	35E	651709.8	3548919.7		2567	
<a href="#">C 04817 POD1</a>		CUB	LE	SW	SE	SW	13	26S	34E	648499.2	3545657.3		2772	105
<a href="#">C 04791 POD1</a>		CUB	LE	SE	SE	SE	13	26S	34E	649598.8	3545568.0		2796	60
<a href="#">C 04852 POD1</a>		CUB	LE	NE	NW	NE	24	26S	34E	649057.5	3545374.4		2967	55
<a href="#">C 04856 POD1</a>		CUB	LE	NE	SW	NE	23	26S	34E	647550.6	3544940.3		3780	105

Average

Minimum

Maximum

Record Count: 7

Basin/County Search:

Basin: C  
Subbasin: CUB

UTM Filters (in meters):

Easting: 649208.88  
Northing: 3548337.61  
Radius: 5000.0


\* 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.

# Point of Diversion Summary

quarters are 1=NW 2=NE 3=SW 4=SE  
quarters are smallest to largest

NAD83 UTM in meters

Well Tag	POD Nbr	Q64	Q16	Q4	Sec	Tws	Rng	X	Y	Map
NA	C 04820 POD1	NE	NW	NW	13	26S	34E	648389.9	3547088.9	

\* UTM location was derived from PLSS - see Help

Driller License:	1833	Driller Company:	VISION RESOURCES, INC		
Driller Name:	JASON MALEY				
Drill Start Date:	2024-04-17	Drill Finish Date:	2024-04-17	Plug Date:	2024-04-22
Log File Date:	2024-04-25	PCW Rcv Date:		Source:	
Pump Type:		Pipe Discharge Size:		Estimated Yield:	
Casing Size:		Depth Well:	55	Depth Water:	

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.



# Ragin Cajun 12 CTB 3

Devon Energy  
Incident ID: NAPP2423962613  
Lea County, NM  
OSE Pod Map

## Legend

- 0.91 of a mile
- C-04820-POD 1
- Ragin Cajun 12 CTB 3

Google Earth

Image © 2024 Airbus  
Released to Imaging: 12/2/2024 2:03:52 PM

3000 ft







[USGS Home](#)  
[Contact USGS](#)  
[Search USGS](#)

## National Water Information System: Web Interface

USGS Water Resources

Data Category:

Groundwater

Geographic Area:

United States

GO

Click to hide News Bulletins

- Explore the *NEW* [USGS National Water Dashboard](#) interactive map to access real-time water data from over 13,500 stations nationwide.

Groundwater levels for the Nation

 Important: [Next Generation Monitoring Location Page](#)

### Search Results -- 1 sites found

site\_no list =

- 320419103302201

Minimum number of levels = 1

[Save file of selected sites](#) to local disk for future upload

### USGS 320419103302201 26S.34E.06.21414

Available data for this site

Groundwater: Field measurements

GO

Lea County, New Mexico

Hydrologic Unit Code 13070007

Latitude 32°04'37.9", Longitude 103°30'20.5" NAD83

Land-surface elevation 3,319.00 feet above NGVD29

The depth of the well is 360 feet below land surface.

This well is completed in the Other aquifers (N9999OTHER) national aquifer.

This well is completed in the Chinle Formation (231CHNL) local aquifer.

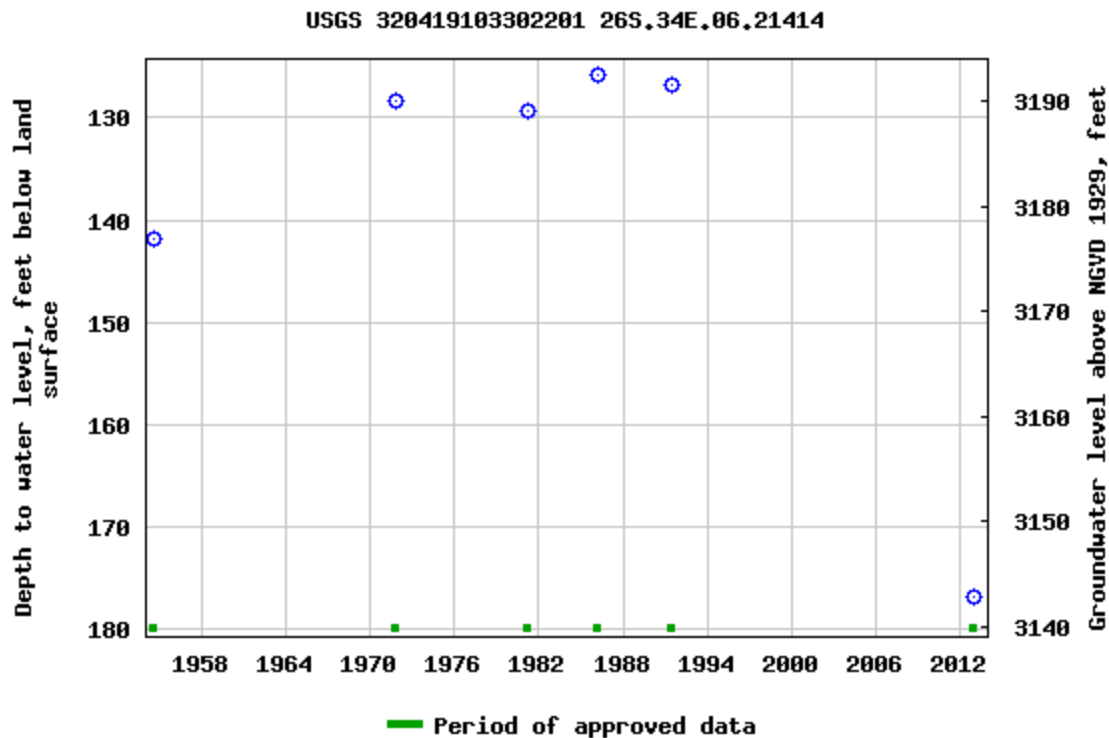
#### Output formats

[Table of data](#)

[Tab-separated data](#)

[Graph of data](#)

[Reselect period](#)



Breaks in the plot represent a gap of at least one year between field measurements.  
[Download a presentation-quality graph](#)

[Questions or Comments](#)

[Help](#)

[Data Tips](#)

[Explanation of terms](#)

[Subscribe for system changes](#)

[Accessibility](#)

[FOIA](#)

[Privacy](#)

[Policies and Notices](#)

[U.S. Department of the Interior](#) | [U.S. Geological Survey](#)

**Title: Groundwater for USA: Water Levels**

**URL: <https://nwis.waterdata.usgs.gov/nwis/gwlevels?>**



Page Contact Information: [USGS Water Data Support Team](#)

Page Last Modified: 2024-08-28 12:00:40 EDT

0.77 0.55 nadww01



# Ragin Cajun 12 CTB 3

Devon Energy  
Incident ID: NAPP2423962613  
Lea County, NM  
USGS Map

## Legend

- 5.15 Miles
- Ragin Cajun 12 CTB 3
- USGS 320419103302201

USGS 320419103302201

Ragin Cajun 12 CTB 3

Google Earth

Image © 2024 Airbus  
Released to Imaging: 12/2/2024 2:03:52 PM

Andrews Place 3 mi








# Ragin Cajun 12 CTB 3

Devon Energy  
Incident ID: NAPP2423962613  
Lea County, NM  
Surface Water Map

## Legend

-  17.13 Miles
-  Ragin Cajun 12 CTB 3
-  Salt Playa

Google Earth

Released to Imaging: 12/2/2024 2:03:52 PM

Ragin Cajun 12 CTB 3

Salt Playa

Bennett

10 mi







## Appendix B

- Soil Survey & Soil Maps
- Geological Data
- FEMA Flood Map
- Wetlands Map

Map Unit Description: Pyote and Maljamar fine sands---Lea County, New Mexico

---

## Lea County, New Mexico

### PU—Pyote and Maljamar fine sands

#### Map Unit Setting

*National map unit symbol:* dmqq

*Elevation:* 3,000 to 3,900 feet

*Mean annual precipitation:* 10 to 12 inches

*Mean annual air temperature:* 60 to 62 degrees F

*Frost-free period:* 190 to 205 days

*Farmland classification:* Not prime farmland

#### Map Unit Composition

*Pyote and similar soils:* 46 percent

*Maljamar and similar soils:* 44 percent

*Minor components:* 10 percent

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

#### Description of Pyote

##### Setting

*Landform:* Plains

*Landform position (three-dimensional):* Rise

*Down-slope shape:* Linear

*Across-slope shape:* Linear

*Parent material:* Sandy eolian deposits derived from sedimentary rock

##### Typical profile

*A - 0 to 30 inches:* fine sand

*Bt - 30 to 60 inches:* fine sandy loam

##### Properties and qualities

*Slope:* 0 to 3 percent

*Depth to restrictive feature:* More than 80 inches

*Drainage class:* Well drained

*Runoff class:* Negligible

*Capacity of the most limiting layer to transmit water (Ksat):* High  
(2.00 to 6.00 in/hr)

*Depth to water table:* More than 80 inches

*Frequency of flooding:* None

*Frequency of ponding:* None

*Calcium carbonate, maximum content:* 5 percent

*Gypsum, maximum content:* 1 percent

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

*Sodium adsorption ratio, maximum:* 2.0

*Available water supply, 0 to 60 inches:* Low (about 5.1 inches)

##### Interpretive groups

*Land capability classification (irrigated):* 6e

Map Unit Description: Pyote and Maljamar fine sands---Lea County, New Mexico

---

*Land capability classification (nonirrigated): 7s*  
*Hydrologic Soil Group: A*  
*Ecological site: R070BD003NM - Loamy Sand*  
*Hydric soil rating: No*

## Description of Maljamar

### Setting

*Landform: Plains*  
*Landform position (three-dimensional): Rise*  
*Down-slope shape: Linear*  
*Across-slope shape: Linear*  
*Parent material: Sandy eolian deposits derived from sedimentary rock*

### Typical profile

*A - 0 to 24 inches: fine sand*  
*Bt - 24 to 50 inches: sandy clay loam*  
*Bkm - 50 to 60 inches: cemented material*

### Properties and qualities

*Slope: 0 to 3 percent*  
*Depth to restrictive feature: 40 to 60 inches to petrocalcic*  
*Drainage class: Well drained*  
*Runoff class: Very low*  
*Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)*  
*Depth to water table: More than 80 inches*  
*Frequency of flooding: None*  
*Frequency of ponding: None*  
*Calcium carbonate, maximum content: 5 percent*  
*Gypsum, maximum content: 1 percent*  
*Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)*  
*Sodium adsorption ratio, maximum: 2.0*  
*Available water supply, 0 to 60 inches: Low (about 5.6 inches)*

### Interpretive groups

*Land capability classification (irrigated): 6e*  
*Land capability classification (nonirrigated): 7e*  
*Hydrologic Soil Group: B*  
*Ecological site: R070BD003NM - Loamy Sand*  
*Hydric soil rating: No*

## Minor Components

### Kermit

*Percent of map unit: 10 percent*  
*Ecological site: R070BC022NM - Sandhills*

Map Unit Description: Pyote and Maljamar fine sands---Lea County, New Mexico

---

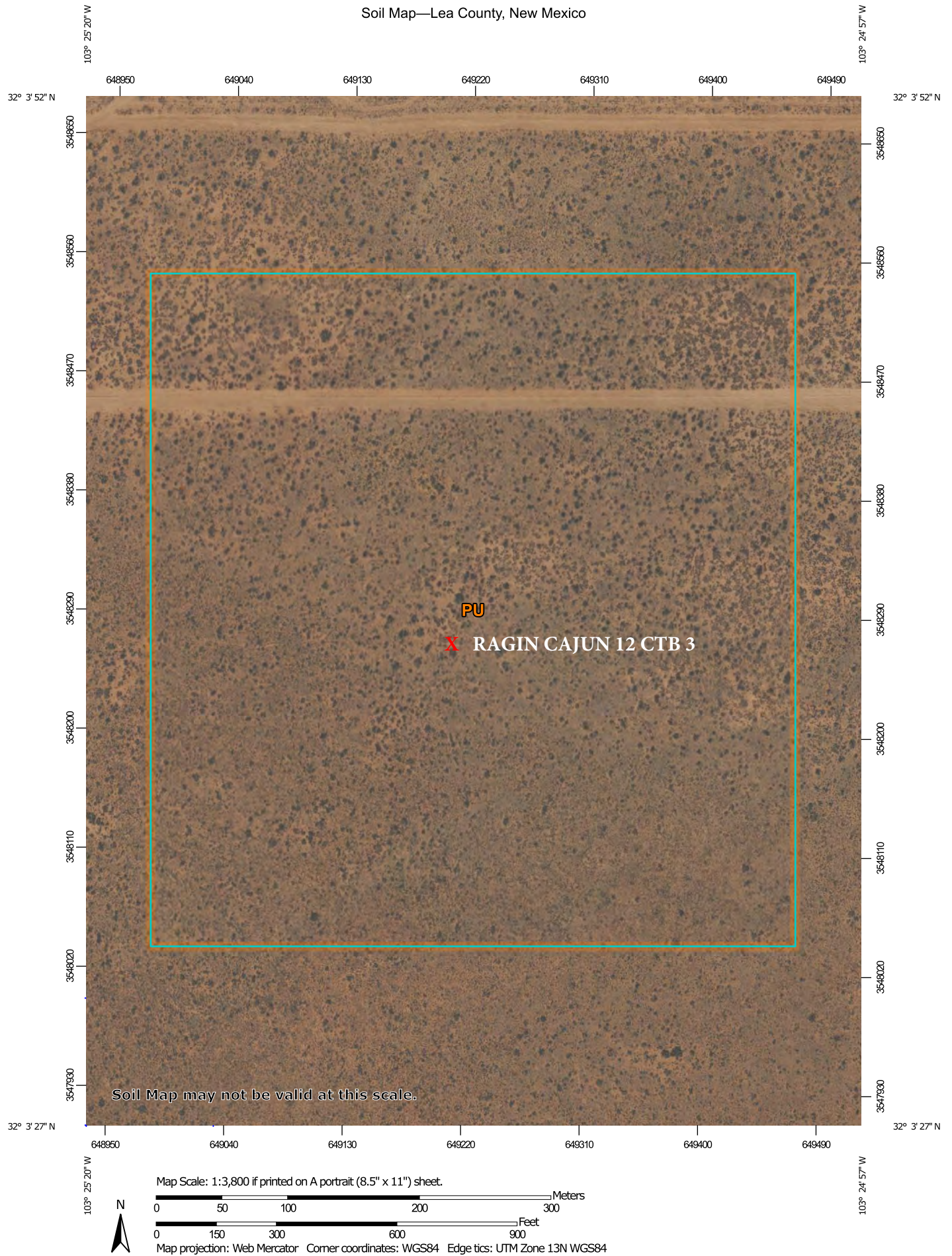
*Hydric soil rating:* No

## Data Source Information

Soil Survey Area: Lea County, New Mexico

Survey Area Data: Version 20, Sep 6, 2023

Soil Map—Lea County, New Mexico



Natural Resources  
Conservation Service


Web Soil Survey  
National Cooperative Soil Survey

8/28/2024  
Page 1 of 3



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: Lea County, New Mexico  
Survey Area Data: Version 20, Sep 6, 2023

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

Date(s) aerial images were photographed: Feb 7, 2020—May 12, 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.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
PU	Pyote and Maljamar fine sands	61.7	100.0%
Totals for Area of Interest		61.7	100.0%

(<https://www.usgs.gov/>)

Mineral Resources (<https://www.usgs.gov/energy-and-minerals/mineral-resources-program>)  
/ Online Spatial Data (/) / Geology (/geology/) / by state (/geology/state/)  
/ New Mexico (/geology/state/state.php?state=NM)

## Eolian and piedmont deposits

XML (/geology/state/xml/NMQep;0)	JSON (/geology/state/json/NMQep;0)
Shapefile (/geology/state/unit-shape.php?unit=NMQep;0)	

*Interlayered eolian sands and piedmont-slope deposits along the eastern flank of the Pecos River valley, primarily between Roswell and Carlsbad. Typically capped by thin eolian deposits.*

State	New Mexico (/geology/state/state.php?state=NM)
Name	Eolian and piedmont deposits
Geologic age	Holocene to middle Pleistocene
Lithologic constituents	Major Unconsolidated (Eolian) Interlayered eolian sands and piedmont-slope deposits
References	New Mexico Bureau of Geology and Mineral Resources, 2003, Geologic Map of New Mexico, scale 1:500,000 (includes some new polygons, faults, and attributes not in NM001 - heads up digitizing by JHorton).
NGMDB product	NGMDB product page for 22974 ( <a href="https://ngmdb.usgs.gov/Prodesc/proddesc_22974.htm">https://ngmdb.usgs.gov/Prodesc/proddesc_22974.htm</a> )
Counties	Chaves (/geology/state/fips-unit.php?code=f35005) - DeBaca (/geology/state/fips-unit.php?code=f35011) - Eddy (/geology/state/fips-unit.php?code=f35015) - Lea (/geology/state/fips-unit.php?code=f35025) - Roosevelt (/geology/state/fips-unit.php?code=f35041)

DOI Privacy Policy (<https://www.doi.gov/privacy>) | Legal ([https://www.usgs.gov/laws/policies\\_notices.html](https://www.usgs.gov/laws/policies_notices.html)) |  
Accessibility (<https://www2.usgs.gov/laws/accessibility.html>) | Site Map (<https://www.usgs.gov/sitemap.html>) |  
Contact USGS (<https://answers.usgs.gov/>)

U.S. Department of the Interior (<https://www.doi.gov/>) | DOI Inspector General (<https://www.doiig.gov/>) |

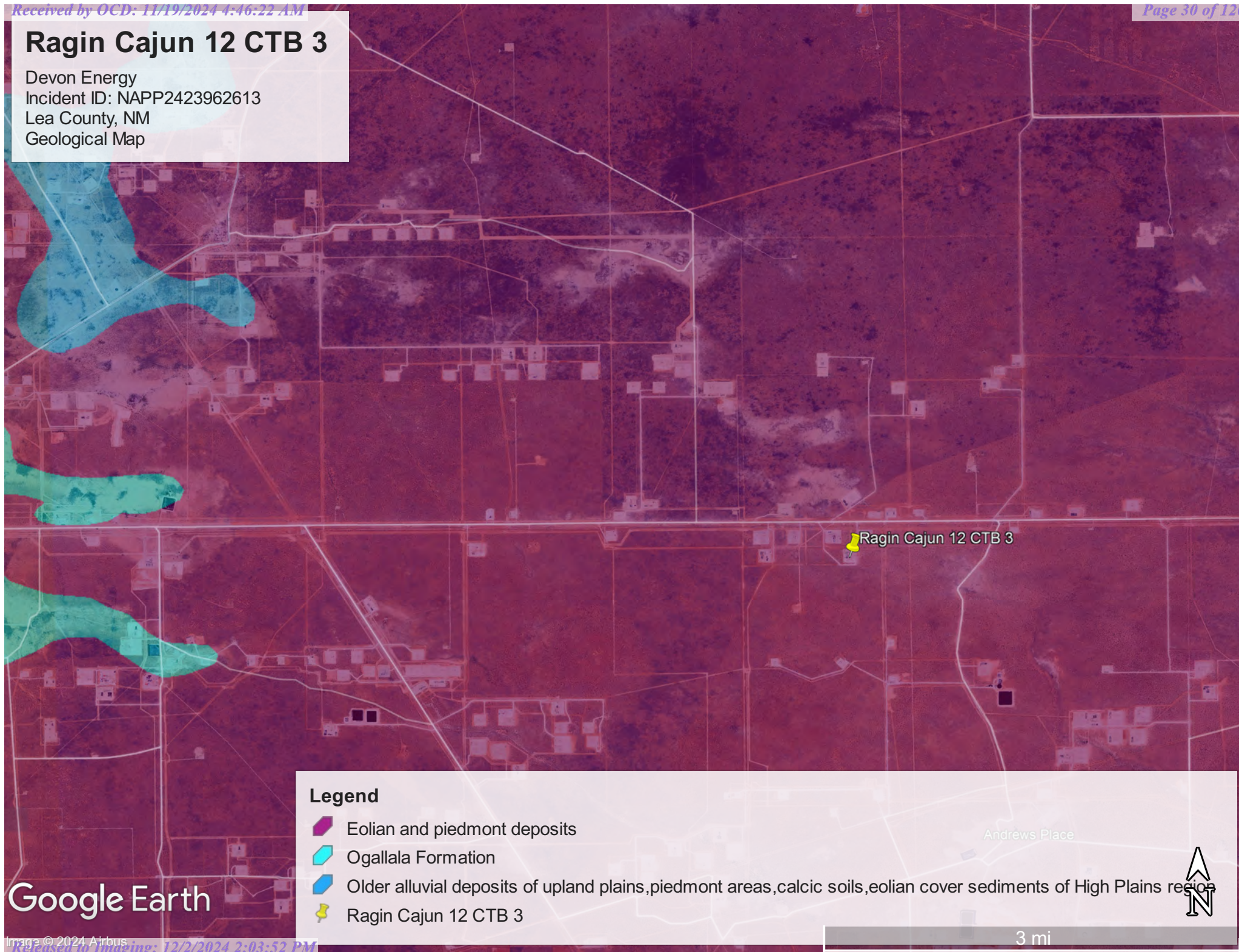


White House (<https://www.whitehouse.gov/>) | E-gov (<https://www.whitehouse.gov/omb/management/egov/>) |





No Fear Act (<https://www.doi.gov/pmb/eeo/no-fear-act>) | FOIA (<https://www2.usgs.gov/foia>)

# Ragin Cajun 12 CTB 3

Devon Energy  
Incident ID: NAPP2423962613  
Lea County, NM  
Geological Map



## Legend

-  Eolian and piedmont deposits
-  Ogallala Formation
-  Older alluvial deposits of upland plains, piedmont areas, calcic soils, eolian cover sediments of High Plains region
-  Ragin Cajun 12 CTB 3

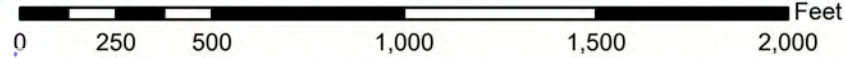
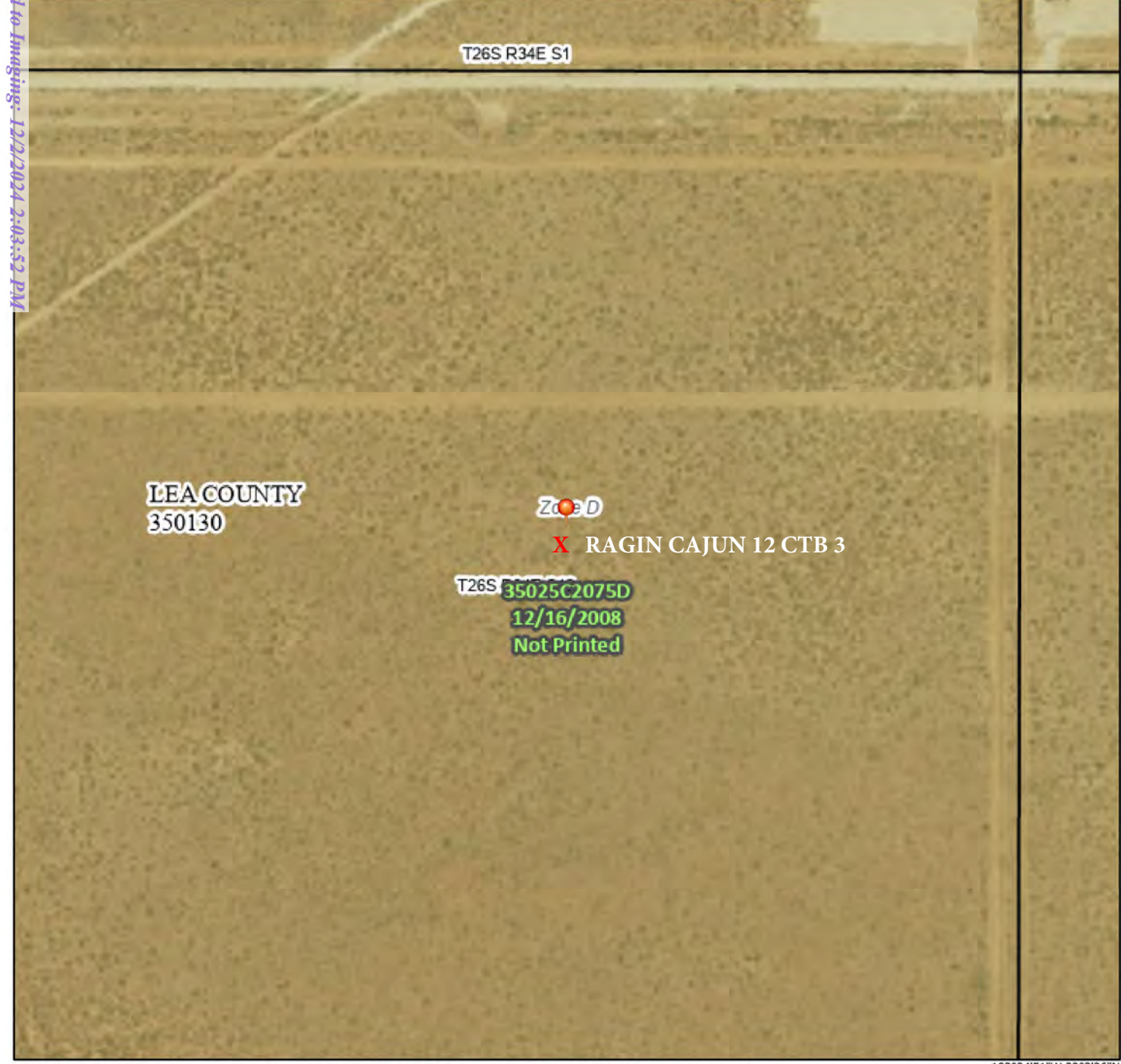
Google Earth



# National Flood Hazard Layer FIRMette



103°25'28"W 32°3'56"N



1:6,000

103°24'51"W 32°3'26"N

Basemap Imagery Source: USGS National Map 2023

## Legend

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

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone X
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
		Area of Undetermined Flood Hazard Zone D
GENERAL STRUCTURES		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance
		17.5 Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
		Profile Baseline
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 8/28/2024 at 12:05 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: 12/2/2024 2:03:52 PM

Received by OCD: 11/29/2024 4:46:22 AM

Page 31 of 120





August 28, 2024

Wetlands

- |   |                                |   |                                   |   |          |
|---|--------------------------------|---|-----------------------------------|---|----------|
|  | Estuarine and Marine Deepwater |  | Freshwater Emergent Wetland       |  | Lake     |
|  | Estuarine and Marine Wetland   |  | Freshwater Forested/Shrub Wetland |  | Other    |
|  |                                |  | Freshwater Pond                   |  | Riverine |

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.



## Appendix C

- 48-Hour Notification
- Liner Inspection Form

**District I**

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

**District II**

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

**District III**

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

**District IV**

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

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

QUESTIONS

Action 396945

**QUESTIONS**

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 396945
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

**QUESTIONS**

Prerequisites	
Incident ID (n#)	nAPP2423962613
Incident Name	NAPP2423962613 RAGIN CAJUN 12 CTB 3 @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Plan Approved
Incident Facility	[fAPP2423338309] RAGIN CAJUN 12 CTB 3

**Location of Release Source**

Site Name	RAGIN CAJUN 12 CTB 3
Date Release Discovered	08/26/2024
Surface Owner	Federal

**Sampling Event General Information***Please answer all the questions in this group.*

What is the sampling surface area in square feet	200
What is the estimated number of samples that will be gathered	5
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	10/31/2024
Time sampling will commence	09:30 AM
Please provide any information necessary for observers to contact samplers	Andrew Franco -806-200-0054
Please provide any information necessary for navigation to sampling site	From the intersection of NM 128 and County Rd 2, Travel southwest on County Rd 2 for 11. 56 miles, turn East on Anthony Rd for 7. 26 miles, turn southeast for 0.32 of a mile arriving at the location.

**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 396945

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 396945
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jraleay	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	10/29/2024

**lynsey@pimaoil.com**

---

**From:** Woodall, Dale <Dale.Woodall@dvn.com>  
**Sent:** Monday, September 9, 2024 11:04 AM  
**To:** 'Gio PimaOil'; Lynsey Pima Oil  
**Subject:** FW: [EXTERNAL] The Oil Conservation Division (OCD) has accepted the application, Application ID: 381653

Dale Woodall  
**Environmental Professional**  
**Hobbs, NM**  
Office: 575-748-1838  
Mobile: 405-318-4697  
[Dale.Woodall@dvn.com](mailto:Dale.Woodall@dvn.com)

---

**From:** OCDOnline@state.nm.us <OCDOnline@state.nm.us>  
**Sent:** Monday, September 9, 2024 11:03 AM  
**To:** Woodall, Dale <Dale.Woodall@dvn.com>  
**Subject:** [EXTERNAL] The Oil Conservation Division (OCD) has accepted the application, Application ID: 381653

To whom it may concern (c/o Dale Woodall for DEVON ENERGY PRODUCTION COMPANY, LP),

The OCD has received the submitted *Notification for Liner Inspection for a Release* (C-141L), for incident ID (n#) nAPP2423962613.

The liner inspection is expected to take place:

**When:** 09/11/2024 @ 12:00

**Where:** H-12-26S-34E 1324 FNL 1297 FEL (32.0614366,-103.419365)

**Additional Information:** Andrew Franco 806-200-0054

**Additional Instructions:** H-12-26S-34E (32.0614366,-103.419365 NAD83)

From the intersection of NM 128 and County Rd 2, Travel southwest on County Rd 2 for 11.56 miles, turn East on Anthony Rd for 7.26 miles, turn southeast for 0.32 of a mile arriving at the location.

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, liner inspection pursuant to 19.15.29.11.A(5)(a) NMAC is required. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of liner inspections including any changes in date/time per the requirements of 19.15.29.11.A(5)(a)(ii) NMAC, may result in the inspection not being accepted.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.



**New Mexico Energy, Minerals and Natural Resources Department**

1220 South St. Francis Drive

Santa Fe, NM 87505

Confidentiality Warning: This message and any attachments are intended only for the use of the intended recipient(s), are confidential, and may be privileged. If you are not the intended recipient, you are hereby notified that any review, retransmission, conversion to hard copy, copying, circulation or other use of all or any portion of this message and any attachments is strictly prohibited. If you are not the intended recipient, please notify the sender immediately by return e-mail, and delete this message and any attachments from your system.



Pima Environmental Services, LLC

**Liner Inspection Form**Company Name: Devon EnergySite: Ragin Cajun 12 CTB 3Lat/Long: 32.0614366, -103.419365

NMOCD Incident ID

& Incident Date: NAPP2423962613 8/26/2024

2-Day Notification

Sent: Submitted on OCD portal 9/9/2024 application ID: 381653.Inspection Date: 9/11/2024

Liner Type: Earthen w/liner Earthen no liner Polystar

**Steel w/poly liner** Steel w/spray epoxy No Liner

Other: \_\_\_\_\_

Visualization	Yes	No	Comments
Is there a tear in the liner?		X	
Are there holes in the liner?		X	
Is the liner retaining any fluids?	X		Fluid from power washing the Liner
Does the liner have integrity to contain a leak?	X		

Comments: \_\_\_\_\_

Inspector Name: Andrew Franco Inspector Signature: Andrew Franco





## Appendix D

### ○ Photographic Documentation

## PHOTOGRAPHIC DOCUMENTATION

SITE NAME: Ragin Cajun12 CTB 3

### Assessment:



Site information sign.



Photo taken during assessment, taken facing South.



Photo taken during assessment, taken facing Northwest.



Photo taken during assessment, taken facing Southwest.





Photo taken during assessment, taken facing Northwest.



Photo taken during assessment, taken facing Northwest.





## PHOTOGRAPHIC DOCUMENTATION

**SITE NAME: Ragin Cajun12 CTB 3**

### Pre-Excavation:



Photo taken prior to excavation, taken facing Southwest.



Photo taken prior to excavation, taken facing Northwest.



Photo taken prior to excavation, taken facing South



Photo taken prior to excavation, taken facing North.



## PHOTOGRAPHIC DOCUMENTATION

**SITE NAME: Ragin Cajun12 CTB 3**

### Excavation:



Pictures taken during excavation, Facing Northeast.



Pictures taken during excavation, Facing Northwest.



Pictures taken during excavation, Facing East.



Pictures taken during excavation, Facing Southwest.



## PHOTOGRAPHIC DOCUMENTATION

**SITE NAME: Ragin Cajun12 CTB 3**

### Post- Excavation:



Photo taken pursuant to excavation, taken facing West.



Photo taken pursuant to excavation, taken facing North



Photo taken pursuant to excavation, taken facing Southwest.



## PHOTOGRAPHIC DOCUMENTATION

SITE NAME: Ragin Cajun12 CTB 3

### Intial Liner Inspection:



Photo of liner taken prior to power washing.  
Facing Northeast.



Photo of liner taken prior to power washing.  
Facing North.

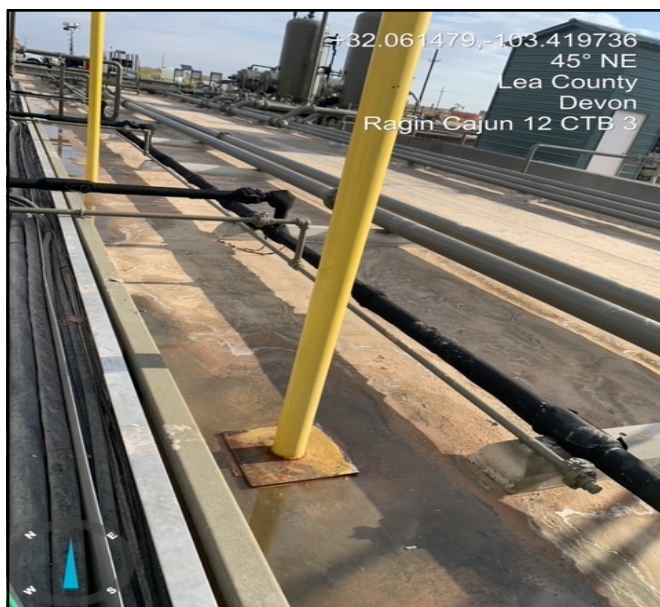


Photo of liner taken prior to power washing.  
Facing Northeast.



## PHOTOGRAPHIC DOCUMENTATION

SITE NAME: Ragin Cajun12 CTB 3

### Liner Inspection:



Photo taken pursuant to power washing.



Photo taken pursuant to power washing.



Photo taken pursuant to power washing.



Photo taken pursuant to power washing.





Photo taken pursuant to power washing.



Photo taken pursuant to power washing.



Photo taken pursuant to power washing.



Photo taken pursuant to power washing.



## PHOTOGRAPHIC DOCUMENTATION

SITE NAME: Ragin Cajun12 CTB 3

### Aerial Photos:



Aerial photo of liner.



Aerial photo of liner.



Aerial photo of liner.



Aerial photo of liner.





Aerial photo of liner.



Aerial photo of liner.



Aerial photo of liner.



Aerial photo of liner.



## Appendix E

### ○ Laboratory Reports



Report to:  
Gio Gomez



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Pima Environmental Services-Carlsbad

Project Name: Ragin Cajun 12 CTB 3

Work Order: E408282

Job Number: 01058-0007

Received: 9/3/2024

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
9/9/24

5796 U.S. Hwy 64  
Farmington, NM 87401

Phone: (505) 632-1881  
Envirotech-inc.com



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.  
Statement of Data Authenticity: Envirotech Inc. attests the data reported has not been altered in any way.  
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.  
Envirotech Inc. holds the Utah TNI certification NM00979 for data reported.  
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.

Date Reported: 9/9/24

Gio Gomez  
PO Box 247  
Plains, TX 79355-0247



Project Name: Ragin Cajun 12 CTB 3  
Workorder: E408282  
Date Received: 9/3/2024 5:00:00AM

Gio Gomez,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/3/2024 5:00:00AM, under the Project Name: Ragin Cajun 12 CTB 3.

The analytical test results summarized in this report with the Project Name: Ragin Cajun 12 CTB 3 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

**Walter Hinchman**  
Laboratory Director  
Office: 505-632-1881  
Cell: 775-287-1762  
[whinchman@envirotech-inc.com](mailto:whinchman@envirotech-inc.com)

**Raina Schwanz**  
Laboratory Administrator  
Office: 505-632-1881  
[rainaschwanz@envirotech-inc.com](mailto:rainaschwanz@envirotech-inc.com)

Field Offices:

**Southern New Mexico Area**

**Lynn Jarboe**  
Laboratory Technical Representative  
Office: 505-421-LABS(5227)  
Cell: 505-320-4759  
[ljjarboe@envirotech-inc.com](mailto:ljjarboe@envirotech-inc.com)

**Michelle Gonzales**  
Client Representative  
Office: 505-421-LABS(5227)  
Cell: 505-947-8222  
[mgonzaless@envirotech-inc.com](mailto:mgonzaless@envirotech-inc.com)

Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)



## Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	5
Sample Data	6
S1-1'	6
S1-2'	7
S1-3'	8
S1-4'	9
SW1	10
SW2	11
SW3	12
SW4	13
S2-1'	14
S2-2'	15
S2-3'	16
S2-4'	17
SW5	18
SW6	19
SW7	20
S3-1'	21
S3-2'	22
S3-3'	23
S3-4'	24
S4-1'	25

## Table of Contents (continued)

S4-2'	26
S4-3'	27
S4-4'	28
SW8	29
SW9	30
SW10	31
SW11	32
BG1	33
QC Summary Data	34
QC - Volatile Organic Compounds by EPA 8260B	34
QC - Nonhalogenated Organics by EPA 8015D - GRO	36
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	38
QC - Anions by EPA 300.0/9056A	40
Definitions and Notes	42
Chain of Custody etc.	43



## Sample Summary

Pima Environmental Services-Carlsbad	Project Name:	Ragin Cajun 12 CTB 3	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	09/09/24 10:01

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
S1-1'	E408282-01A	Soil	08/29/24	09/03/24	Glass Jar, 2 oz.
S1-2'	E408282-02A	Soil	08/29/24	09/03/24	Glass Jar, 2 oz.
S1-3'	E408282-03A	Soil	08/29/24	09/03/24	Glass Jar, 2 oz.
S1-4'	E408282-04A	Soil	08/29/24	09/03/24	Glass Jar, 2 oz.
SW1	E408282-05A	Soil	08/29/24	09/03/24	Glass Jar, 2 oz.
SW2	E408282-06A	Soil	08/29/24	09/03/24	Glass Jar, 2 oz.
SW3	E408282-07A	Soil	08/29/24	09/03/24	Glass Jar, 2 oz.
SW4	E408282-08A	Soil	08/29/24	09/03/24	Glass Jar, 2 oz.
S2-1'	E408282-09A	Soil	08/29/24	09/03/24	Glass Jar, 2 oz.
S2-2'	E408282-10A	Soil	08/29/24	09/03/24	Glass Jar, 2 oz.
S2-3'	E408282-11A	Soil	08/29/24	09/03/24	Glass Jar, 2 oz.
S2-4'	E408282-12A	Soil	08/29/24	09/03/24	Glass Jar, 2 oz.
SW5	E408282-13A	Soil	08/29/24	09/03/24	Glass Jar, 2 oz.
SW6	E408282-14A	Soil	08/29/24	09/03/24	Glass Jar, 2 oz.
SW7	E408282-15A	Soil	08/29/24	09/03/24	Glass Jar, 2 oz.
S3-1'	E408282-16A	Soil	08/29/24	09/03/24	Glass Jar, 2 oz.
S3-2'	E408282-17A	Soil	08/29/24	09/03/24	Glass Jar, 2 oz.
S3-3'	E408282-18A	Soil	08/29/24	09/03/24	Glass Jar, 2 oz.
S3-4'	E408282-19A	Soil	08/29/24	09/03/24	Glass Jar, 2 oz.
S4-1'	E408282-20A	Soil	08/29/24	09/03/24	Glass Jar, 2 oz.
S4-2'	E408282-21A	Soil	08/29/24	09/03/24	Glass Jar, 2 oz.
S4-3'	E408282-22A	Soil	08/29/24	09/03/24	Glass Jar, 2 oz.
S4-4'	E408282-23A	Soil	08/29/24	09/03/24	Glass Jar, 2 oz.
SW8	E408282-24A	Soil	08/29/24	09/03/24	Glass Jar, 2 oz.
SW9	E408282-25A	Soil	08/29/24	09/03/24	Glass Jar, 2 oz.
SW10	E408282-26A	Soil	08/29/24	09/03/24	Glass Jar, 2 oz.
SW11	E408282-27A	Soil	08/29/24	09/03/24	Glass Jar, 2 oz.
BG1	E408282-28A	Soil	08/29/24	09/03/24	Glass Jar, 2 oz.



## Sample Data

Pima Environmental Services-Carlsbad  
PO Box 247  
Plains TX, 79355-0247

Project Name: Ragin Cajun 12 CTB 3  
Project Number: 01058-0007  
Project Manager: Gio Gomez

**Reported:**  
9/9/2024 10:01:35AM

**S1-1'**

**E408282-01**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2436012
Benzene	ND	0.0250	1	09/03/24	09/04/24	
Ethylbenzene	ND	0.0250	1	09/03/24	09/04/24	
Toluene	ND	0.0250	1	09/03/24	09/04/24	
o-Xylene	ND	0.0250	1	09/03/24	09/04/24	
p,m-Xylene	ND	0.0500	1	09/03/24	09/04/24	
Total Xylenes	ND	0.0250	1	09/03/24	09/04/24	
<i>Surrogate: Bromofluorobenzene</i>		101 %	70-130	09/03/24	09/04/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		96.6 %	70-130	09/03/24	09/04/24	
<i>Surrogate: Toluene-d8</i>		104 %	70-130	09/03/24	09/04/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2436012
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/03/24	09/04/24	
<i>Surrogate: Bromofluorobenzene</i>		101 %	70-130	09/03/24	09/04/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		96.6 %	70-130	09/03/24	09/04/24	
<i>Surrogate: Toluene-d8</i>		104 %	70-130	09/03/24	09/04/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2436009
Diesel Range Organics (C10-C28)	ND	25.0	1	09/03/24	09/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/03/24	09/04/24	
<i>Surrogate: n-Nonane</i>		84.8 %	50-200	09/03/24	09/04/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2436017
Chloride	877	20.0	1	09/03/24	09/04/24	





## Sample Data

Pima Environmental Services-Carlsbad  
PO Box 247  
Plains TX, 79355-0247

Project Name: Ragin Cajun 12 CTB 3  
Project Number: 01058-0007  
Project Manager: Gio Gomez

**Reported:**  
9/9/2024 10:01:35AM

S1-2'

E408282-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2436012
Benzene	ND	0.0250	1	09/03/24	09/04/24	
Ethylbenzene	ND	0.0250	1	09/03/24	09/04/24	
Toluene	ND	0.0250	1	09/03/24	09/04/24	
o-Xylene	ND	0.0250	1	09/03/24	09/04/24	
p,m-Xylene	ND	0.0500	1	09/03/24	09/04/24	
Total Xylenes	ND	0.0250	1	09/03/24	09/04/24	
Surrogate: Bromofluorobenzene		102 %	70-130	09/03/24	09/04/24	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	09/03/24	09/04/24	
Surrogate: Toluene-d8		105 %	70-130	09/03/24	09/04/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2436012
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/03/24	09/04/24	
Surrogate: Bromofluorobenzene		102 %	70-130	09/03/24	09/04/24	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	09/03/24	09/04/24	
Surrogate: Toluene-d8		105 %	70-130	09/03/24	09/04/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2436009
Diesel Range Organics (C10-C28)	ND	25.0	1	09/03/24	09/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/03/24	09/04/24	
Surrogate: n-Nonane		81.0 %	50-200	09/03/24	09/04/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2436017
Chloride	85.4	20.0	1	09/03/24	09/04/24	



## Sample Data

Pima Environmental Services-Carlsbad  
PO Box 247  
Plains TX, 79355-0247

Project Name: Ragin Cajun 12 CTB 3  
Project Number: 01058-0007  
Project Manager: Gio Gomez

**Reported:**  
9/9/2024 10:01:35AM

S1-3'

E408282-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2436012
Benzene	ND	0.0250	1	09/03/24	09/04/24	
Ethylbenzene	ND	0.0250	1	09/03/24	09/04/24	
Toluene	ND	0.0250	1	09/03/24	09/04/24	
o-Xylene	ND	0.0250	1	09/03/24	09/04/24	
p,m-Xylene	ND	0.0500	1	09/03/24	09/04/24	
Total Xylenes	ND	0.0250	1	09/03/24	09/04/24	
Surrogate: Bromofluorobenzene	99.5 %	70-130		09/03/24	09/04/24	
Surrogate: 1,2-Dichloroethane-d4	94.2 %	70-130		09/03/24	09/04/24	
Surrogate: Toluene-d8	105 %	70-130		09/03/24	09/04/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2436012
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/03/24	09/04/24	
Surrogate: Bromofluorobenzene	99.5 %	70-130		09/03/24	09/04/24	
Surrogate: 1,2-Dichloroethane-d4	94.2 %	70-130		09/03/24	09/04/24	
Surrogate: Toluene-d8	105 %	70-130		09/03/24	09/04/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2436009
Diesel Range Organics (C10-C28)	ND	25.0	1	09/03/24	09/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/03/24	09/04/24	
Surrogate: n-Nonane	83.4 %	50-200		09/03/24	09/04/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2436017
Chloride	42.5	20.0	1	09/03/24	09/04/24	





## Sample Data

Pima Environmental Services-Carlsbad  
PO Box 247  
Plains TX, 79355-0247

Project Name: Ragin Cajun 12 CTB 3  
Project Number: 01058-0007  
Project Manager: Gio Gomez

**Reported:**  
9/9/2024 10:01:35AM

S1-4'

E408282-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2436012
Benzene	ND	0.0250	1	09/03/24	09/04/24	
Ethylbenzene	ND	0.0250	1	09/03/24	09/04/24	
Toluene	ND	0.0250	1	09/03/24	09/04/24	
o-Xylene	ND	0.0250	1	09/03/24	09/04/24	
p,m-Xylene	ND	0.0500	1	09/03/24	09/04/24	
Total Xylenes	ND	0.0250	1	09/03/24	09/04/24	
Surrogate: Bromofluorobenzene		103 %	70-130	09/03/24	09/04/24	
Surrogate: 1,2-Dichloroethane-d4		93.2 %	70-130	09/03/24	09/04/24	
Surrogate: Toluene-d8		108 %	70-130	09/03/24	09/04/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2436012
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/03/24	09/04/24	
Surrogate: Bromofluorobenzene		103 %	70-130	09/03/24	09/04/24	
Surrogate: 1,2-Dichloroethane-d4		93.2 %	70-130	09/03/24	09/04/24	
Surrogate: Toluene-d8		108 %	70-130	09/03/24	09/04/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2436009
Diesel Range Organics (C10-C28)	ND	25.0	1	09/03/24	09/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/03/24	09/04/24	
Surrogate: n-Nonane		83.7 %	50-200	09/03/24	09/04/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2436017
Chloride	ND	20.0	1	09/03/24	09/03/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Ragin Cajun 12 CTB 3	<b>Reported:</b> 9/9/2024 10:01:35AM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

SW1

E408282-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2436012
Benzene	ND	0.0250	1	09/03/24	09/04/24	
Ethylbenzene	ND	0.0250	1	09/03/24	09/04/24	
Toluene	ND	0.0250	1	09/03/24	09/04/24	
o-Xylene	ND	0.0250	1	09/03/24	09/04/24	
p,m-Xylene	ND	0.0500	1	09/03/24	09/04/24	
Total Xylenes	ND	0.0250	1	09/03/24	09/04/24	
Surrogate: Bromofluorobenzene		103 %	70-130	09/03/24	09/04/24	
Surrogate: 1,2-Dichloroethane-d4		92.8 %	70-130	09/03/24	09/04/24	
Surrogate: Toluene-d8		107 %	70-130	09/03/24	09/04/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2436012
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/03/24	09/04/24	
Surrogate: Bromofluorobenzene		103 %	70-130	09/03/24	09/04/24	
Surrogate: 1,2-Dichloroethane-d4		92.8 %	70-130	09/03/24	09/04/24	
Surrogate: Toluene-d8		107 %	70-130	09/03/24	09/04/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2436009
Diesel Range Organics (C10-C28)	ND	25.0	1	09/03/24	09/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/03/24	09/04/24	
Surrogate: n-Nonane		84.9 %	50-200	09/03/24	09/04/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2436017
Chloride	ND	20.0	1	09/03/24	09/04/24	





## Sample Data

Pima Environmental Services-Carlsbad  
PO Box 247  
Plains TX, 79355-0247

Project Name: Ragin Cajun 12 CTB 3  
Project Number: 01058-0007  
Project Manager: Gio Gomez

**Reported:**  
9/9/2024 10:01:35AM

## SW2

## E408282-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2436012
Benzene	ND	0.0250	1	09/03/24	09/04/24	
Ethylbenzene	ND	0.0250	1	09/03/24	09/04/24	
Toluene	ND	0.0250	1	09/03/24	09/04/24	
o-Xylene	ND	0.0250	1	09/03/24	09/04/24	
p,m-Xylene	ND	0.0500	1	09/03/24	09/04/24	
Total Xylenes	ND	0.0250	1	09/03/24	09/04/24	
Surrogate: Bromofluorobenzene		100 %	70-130	09/03/24	09/04/24	
Surrogate: 1,2-Dichloroethane-d4		93.1 %	70-130	09/03/24	09/04/24	
Surrogate: Toluene-d8		106 %	70-130	09/03/24	09/04/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2436012
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/03/24	09/04/24	
Surrogate: Bromofluorobenzene		100 %	70-130	09/03/24	09/04/24	
Surrogate: 1,2-Dichloroethane-d4		93.1 %	70-130	09/03/24	09/04/24	
Surrogate: Toluene-d8		106 %	70-130	09/03/24	09/04/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2436009
Diesel Range Organics (C10-C28)	ND	25.0	1	09/03/24	09/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/03/24	09/04/24	
Surrogate: n-Nonane		86.4 %	50-200	09/03/24	09/04/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2436017
Chloride	ND	20.0	1	09/03/24	09/04/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Ragin Cajun 12 CTB 3	<b>Reported:</b> 9/9/2024 10:01:35AM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

SW3

E408282-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2436012
Benzene	ND	0.0250	1	09/03/24	09/04/24	
Ethylbenzene	ND	0.0250	1	09/03/24	09/04/24	
Toluene	ND	0.0250	1	09/03/24	09/04/24	
o-Xylene	ND	0.0250	1	09/03/24	09/04/24	
p,m-Xylene	ND	0.0500	1	09/03/24	09/04/24	
Total Xylenes	ND	0.0250	1	09/03/24	09/04/24	
Surrogate: Bromofluorobenzene		102 %	70-130	09/03/24	09/04/24	
Surrogate: 1,2-Dichloroethane-d4		94.4 %	70-130	09/03/24	09/04/24	
Surrogate: Toluene-d8		104 %	70-130	09/03/24	09/04/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2436012
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/03/24	09/04/24	
Surrogate: Bromofluorobenzene		102 %	70-130	09/03/24	09/04/24	
Surrogate: 1,2-Dichloroethane-d4		94.4 %	70-130	09/03/24	09/04/24	
Surrogate: Toluene-d8		104 %	70-130	09/03/24	09/04/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2436009
Diesel Range Organics (C10-C28)	ND	25.0	1	09/03/24	09/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/03/24	09/04/24	
Surrogate: n-Nonane		80.9 %	50-200	09/03/24	09/04/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2436017
Chloride	ND	20.0	1	09/03/24	09/04/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Ragin Cajun 12 CTB 3	Reported: 9/9/2024 10:01:35AM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

SW4

E408282-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2436012
Benzene	ND	0.0250	1	09/03/24	09/04/24	
Ethylbenzene	ND	0.0250	1	09/03/24	09/04/24	
Toluene	ND	0.0250	1	09/03/24	09/04/24	
o-Xylene	ND	0.0250	1	09/03/24	09/04/24	
p,m-Xylene	ND	0.0500	1	09/03/24	09/04/24	
Total Xylenes	ND	0.0250	1	09/03/24	09/04/24	
Surrogate: Bromofluorobenzene		102 %	70-130	09/03/24	09/04/24	
Surrogate: 1,2-Dichloroethane-d4		94.9 %	70-130	09/03/24	09/04/24	
Surrogate: Toluene-d8		107 %	70-130	09/03/24	09/04/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2436012
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/03/24	09/04/24	
Surrogate: Bromofluorobenzene		102 %	70-130	09/03/24	09/04/24	
Surrogate: 1,2-Dichloroethane-d4		94.9 %	70-130	09/03/24	09/04/24	
Surrogate: Toluene-d8		107 %	70-130	09/03/24	09/04/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2436009
Diesel Range Organics (C10-C28)	ND	25.0	1	09/03/24	09/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/03/24	09/04/24	
Surrogate: n-Nonane		85.2 %	50-200	09/03/24	09/04/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2436017
Chloride	ND	20.0	1	09/03/24	09/04/24	





## Sample Data

Pima Environmental Services-Carlsbad  
PO Box 247  
Plains TX, 79355-0247

Project Name: Ragin Cajun 12 CTB 3  
Project Number: 01058-0007  
Project Manager: Gio Gomez

**Reported:**  
9/9/2024 10:01:35AM

S2-1'

E408282-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2436012
Benzene	ND	0.0250	1	09/03/24	09/04/24	
Ethylbenzene	ND	0.0250	1	09/03/24	09/04/24	
Toluene	ND	0.0250	1	09/03/24	09/04/24	
o-Xylene	ND	0.0250	1	09/03/24	09/04/24	
p,m-Xylene	ND	0.0500	1	09/03/24	09/04/24	
Total Xylenes	ND	0.0250	1	09/03/24	09/04/24	
Surrogate: Bromofluorobenzene		102 %	70-130	09/03/24	09/04/24	
Surrogate: 1,2-Dichloroethane-d4		98.2 %	70-130	09/03/24	09/04/24	
Surrogate: Toluene-d8		106 %	70-130	09/03/24	09/04/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2436012
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/03/24	09/04/24	
Surrogate: Bromofluorobenzene		102 %	70-130	09/03/24	09/04/24	
Surrogate: 1,2-Dichloroethane-d4		98.2 %	70-130	09/03/24	09/04/24	
Surrogate: Toluene-d8		106 %	70-130	09/03/24	09/04/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2436009
Diesel Range Organics (C10-C28)	37.3	25.0	1	09/03/24	09/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/03/24	09/04/24	
Surrogate: n-Nonane		85.9 %	50-200	09/03/24	09/04/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2436017
Chloride	73.8	20.0	1	09/03/24	09/04/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Ragin Cajun 12 CTB 3	<b>Reported:</b> 9/9/2024 10:01:35AM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

S2-2'

E408282-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2436012
Benzene	ND	0.0250	1	09/03/24	09/04/24	
Ethylbenzene	ND	0.0250	1	09/03/24	09/04/24	
Toluene	ND	0.0250	1	09/03/24	09/04/24	
o-Xylene	ND	0.0250	1	09/03/24	09/04/24	
p,m-Xylene	ND	0.0500	1	09/03/24	09/04/24	
Total Xylenes	ND	0.0250	1	09/03/24	09/04/24	
Surrogate: Bromofluorobenzene		101 %	70-130	09/03/24	09/04/24	
Surrogate: 1,2-Dichloroethane-d4		99.6 %	70-130	09/03/24	09/04/24	
Surrogate: Toluene-d8		105 %	70-130	09/03/24	09/04/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2436012
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/03/24	09/04/24	
Surrogate: Bromofluorobenzene		101 %	70-130	09/03/24	09/04/24	
Surrogate: 1,2-Dichloroethane-d4		99.6 %	70-130	09/03/24	09/04/24	
Surrogate: Toluene-d8		105 %	70-130	09/03/24	09/04/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2436009
Diesel Range Organics (C10-C28)	ND	25.0	1	09/03/24	09/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/03/24	09/04/24	
Surrogate: n-Nonane		82.7 %	50-200	09/03/24	09/04/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2436017
Chloride	26.8	20.0	1	09/03/24	09/04/24	



## Sample Data

Pima Environmental Services-Carlsbad  
PO Box 247  
Plains TX, 79355-0247

Project Name: Ragin Cajun 12 CTB 3  
Project Number: 01058-0007  
Project Manager: Gio Gomez

**Reported:**  
9/9/2024 10:01:35AM

S2-3'

E408282-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2436012
Benzene	ND	0.0250	1	09/03/24	09/04/24	
Ethylbenzene	ND	0.0250	1	09/03/24	09/04/24	
Toluene	ND	0.0250	1	09/03/24	09/04/24	
o-Xylene	ND	0.0250	1	09/03/24	09/04/24	
p,m-Xylene	ND	0.0500	1	09/03/24	09/04/24	
Total Xylenes	ND	0.0250	1	09/03/24	09/04/24	
Surrogate: Bromofluorobenzene		100 %	70-130	09/03/24	09/04/24	
Surrogate: 1,2-Dichloroethane-d4		94.1 %	70-130	09/03/24	09/04/24	
Surrogate: Toluene-d8		107 %	70-130	09/03/24	09/04/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2436012
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/03/24	09/04/24	
Surrogate: Bromofluorobenzene		100 %	70-130	09/03/24	09/04/24	
Surrogate: 1,2-Dichloroethane-d4		94.1 %	70-130	09/03/24	09/04/24	
Surrogate: Toluene-d8		107 %	70-130	09/03/24	09/04/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2436009
Diesel Range Organics (C10-C28)	ND	25.0	1	09/03/24	09/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/03/24	09/04/24	
Surrogate: n-Nonane		85.3 %	50-200	09/03/24	09/04/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2436017
Chloride	24.4	20.0	1	09/03/24	09/04/24	





Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Ragin Cajun 12 CTB 3	Reported: 9/9/2024 10:01:35AM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

S2-4'

E408282-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2436012
Benzene	ND	0.0250	1	09/03/24	09/04/24	
Ethylbenzene	ND	0.0250	1	09/03/24	09/04/24	
Toluene	ND	0.0250	1	09/03/24	09/04/24	
o-Xylene	ND	0.0250	1	09/03/24	09/04/24	
p,m-Xylene	ND	0.0500	1	09/03/24	09/04/24	
Total Xylenes	ND	0.0250	1	09/03/24	09/04/24	
Surrogate: Bromofluorobenzene		100 %	70-130	09/03/24	09/04/24	
Surrogate: 1,2-Dichloroethane-d4		95.0 %	70-130	09/03/24	09/04/24	
Surrogate: Toluene-d8		106 %	70-130	09/03/24	09/04/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2436012
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/03/24	09/04/24	
Surrogate: Bromofluorobenzene		100 %	70-130	09/03/24	09/04/24	
Surrogate: 1,2-Dichloroethane-d4		95.0 %	70-130	09/03/24	09/04/24	
Surrogate: Toluene-d8		106 %	70-130	09/03/24	09/04/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2436009
Diesel Range Organics (C10-C28)	ND	25.0	1	09/03/24	09/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/03/24	09/04/24	
Surrogate: n-Nonane		83.3 %	50-200	09/03/24	09/04/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2436017
Chloride	ND	20.0	1	09/03/24	09/04/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Ragin Cajun 12 CTB 3	<b>Reported:</b> 9/9/2024 10:01:35AM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

SW5

E408282-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2436012
Benzene	ND	0.0250	1	09/03/24	09/04/24	
Ethylbenzene	ND	0.0250	1	09/03/24	09/04/24	
Toluene	ND	0.0250	1	09/03/24	09/04/24	
o-Xylene	ND	0.0250	1	09/03/24	09/04/24	
p,m-Xylene	ND	0.0500	1	09/03/24	09/04/24	
Total Xylenes	ND	0.0250	1	09/03/24	09/04/24	
Surrogate: Bromofluorobenzene		101 %	70-130	09/03/24	09/04/24	
Surrogate: 1,2-Dichloroethane-d4		96.8 %	70-130	09/03/24	09/04/24	
Surrogate: Toluene-d8		105 %	70-130	09/03/24	09/04/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2436012
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/03/24	09/04/24	
Surrogate: Bromofluorobenzene		101 %	70-130	09/03/24	09/04/24	
Surrogate: 1,2-Dichloroethane-d4		96.8 %	70-130	09/03/24	09/04/24	
Surrogate: Toluene-d8		105 %	70-130	09/03/24	09/04/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2436009
Diesel Range Organics (C10-C28)	ND	25.0	1	09/03/24	09/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/03/24	09/04/24	
Surrogate: n-Nonane		93.0 %	50-200	09/03/24	09/04/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2436017
Chloride	ND	20.0	1	09/03/24	09/04/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Ragin Cajun 12 CTB 3	Reported: 9/9/2024 10:01:35AM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

SW6

E408282-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2436012
Benzene	ND	0.0250	1	09/03/24	09/04/24	
Ethylbenzene	ND	0.0250	1	09/03/24	09/04/24	
Toluene	ND	0.0250	1	09/03/24	09/04/24	
o-Xylene	ND	0.0250	1	09/03/24	09/04/24	
p,m-Xylene	ND	0.0500	1	09/03/24	09/04/24	
Total Xylenes	ND	0.0250	1	09/03/24	09/04/24	
Surrogate: Bromofluorobenzene		104 %	70-130	09/03/24	09/04/24	
Surrogate: 1,2-Dichloroethane-d4		94.0 %	70-130	09/03/24	09/04/24	
Surrogate: Toluene-d8		106 %	70-130	09/03/24	09/04/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2436012
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/03/24	09/04/24	
Surrogate: Bromofluorobenzene		104 %	70-130	09/03/24	09/04/24	
Surrogate: 1,2-Dichloroethane-d4		94.0 %	70-130	09/03/24	09/04/24	
Surrogate: Toluene-d8		106 %	70-130	09/03/24	09/04/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2436009
Diesel Range Organics (C10-C28)	ND	25.0	1	09/03/24	09/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/03/24	09/04/24	
Surrogate: n-Nonane		85.6 %	50-200	09/03/24	09/04/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2436017
Chloride	ND	20.0	1	09/03/24	09/04/24	





Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Ragin Cajun 12 CTB 3	Reported: 9/9/2024 10:01:35AM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

SW7

E408282-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2436012
Benzene	ND	0.0250	1	09/03/24	09/05/24	
Ethylbenzene	ND	0.0250	1	09/03/24	09/05/24	
Toluene	ND	0.0250	1	09/03/24	09/05/24	
o-Xylene	ND	0.0250	1	09/03/24	09/05/24	
p,m-Xylene	ND	0.0500	1	09/03/24	09/05/24	
Total Xylenes	ND	0.0250	1	09/03/24	09/05/24	
Surrogate: Bromofluorobenzene		102 %	70-130	09/03/24	09/05/24	
Surrogate: 1,2-Dichloroethane-d4		97.3 %	70-130	09/03/24	09/05/24	
Surrogate: Toluene-d8		105 %	70-130	09/03/24	09/05/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2436012
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/03/24	09/05/24	
Surrogate: Bromofluorobenzene		102 %	70-130	09/03/24	09/05/24	
Surrogate: 1,2-Dichloroethane-d4		97.3 %	70-130	09/03/24	09/05/24	
Surrogate: Toluene-d8		105 %	70-130	09/03/24	09/05/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2436009
Diesel Range Organics (C10-C28)	ND	25.0	1	09/03/24	09/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/03/24	09/04/24	
Surrogate: n-Nonane		83.3 %	50-200	09/03/24	09/04/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2436017
Chloride	ND	20.0	1	09/03/24	09/04/24	



## Sample Data

Pima Environmental Services-Carlsbad  
PO Box 247  
Plains TX, 79355-0247

Project Name: Ragin Cajun 12 CTB 3  
Project Number: 01058-0007  
Project Manager: Gio Gomez

**Reported:**  
9/9/2024 10:01:35AM

S3-1'

E408282-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2436012
Benzene	ND	0.0250	1	09/03/24	09/05/24	
Ethylbenzene	ND	0.0250	1	09/03/24	09/05/24	
Toluene	ND	0.0250	1	09/03/24	09/05/24	
o-Xylene	ND	0.0250	1	09/03/24	09/05/24	
p,m-Xylene	ND	0.0500	1	09/03/24	09/05/24	
Total Xylenes	ND	0.0250	1	09/03/24	09/05/24	
Surrogate: Bromofluorobenzene		102 %	70-130	09/03/24	09/05/24	
Surrogate: 1,2-Dichloroethane-d4		100 %	70-130	09/03/24	09/05/24	
Surrogate: Toluene-d8		107 %	70-130	09/03/24	09/05/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2436012
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/03/24	09/05/24	
Surrogate: Bromofluorobenzene		102 %	70-130	09/03/24	09/05/24	
Surrogate: 1,2-Dichloroethane-d4		100 %	70-130	09/03/24	09/05/24	
Surrogate: Toluene-d8		107 %	70-130	09/03/24	09/05/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2436009
Diesel Range Organics (C10-C28)	ND	25.0	1	09/03/24	09/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/03/24	09/04/24	
Surrogate: n-Nonane		71.8 %	50-200	09/03/24	09/04/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2436017
Chloride	29.9	20.0	1	09/03/24	09/04/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Ragin Cajun 12 CTB 3	Reported: 9/9/2024 10:01:35AM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

S3-2'

E408282-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2436012
Benzene	ND	0.0250	1	09/03/24	09/05/24	
Ethylbenzene	ND	0.0250	1	09/03/24	09/05/24	
Toluene	ND	0.0250	1	09/03/24	09/05/24	
o-Xylene	ND	0.0250	1	09/03/24	09/05/24	
p,m-Xylene	ND	0.0500	1	09/03/24	09/05/24	
Total Xylenes	ND	0.0250	1	09/03/24	09/05/24	
Surrogate: Bromofluorobenzene	99.1 %	70-130		09/03/24	09/05/24	
Surrogate: 1,2-Dichloroethane-d4	96.3 %	70-130		09/03/24	09/05/24	
Surrogate: Toluene-d8	106 %	70-130		09/03/24	09/05/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2436012
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/03/24	09/05/24	
Surrogate: Bromofluorobenzene	99.1 %	70-130		09/03/24	09/05/24	
Surrogate: 1,2-Dichloroethane-d4	96.3 %	70-130		09/03/24	09/05/24	
Surrogate: Toluene-d8	106 %	70-130		09/03/24	09/05/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2436009
Diesel Range Organics (C10-C28)	ND	25.0	1	09/03/24	09/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/03/24	09/04/24	
Surrogate: n-Nonane	82.7 %	50-200		09/03/24	09/04/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2436017
Chloride	ND	20.0	1	09/03/24	09/04/24	





Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Ragin Cajun 12 CTB 3	Reported: 9/9/2024 10:01:35AM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

S3-3'

E408282-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2436012
Benzene	ND	0.0250	1	09/03/24	09/05/24	
Ethylbenzene	ND	0.0250	1	09/03/24	09/05/24	
Toluene	ND	0.0250	1	09/03/24	09/05/24	
o-Xylene	ND	0.0250	1	09/03/24	09/05/24	
p,m-Xylene	ND	0.0500	1	09/03/24	09/05/24	
Total Xylenes	ND	0.0250	1	09/03/24	09/05/24	
Surrogate: Bromofluorobenzene		102 %	70-130	09/03/24	09/05/24	
Surrogate: 1,2-Dichloroethane-d4		95.3 %	70-130	09/03/24	09/05/24	
Surrogate: Toluene-d8		105 %	70-130	09/03/24	09/05/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2436012
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/03/24	09/05/24	
Surrogate: Bromofluorobenzene		102 %	70-130	09/03/24	09/05/24	
Surrogate: 1,2-Dichloroethane-d4		95.3 %	70-130	09/03/24	09/05/24	
Surrogate: Toluene-d8		105 %	70-130	09/03/24	09/05/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2436009
Diesel Range Organics (C10-C28)	ND	25.0	1	09/03/24	09/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/03/24	09/04/24	
Surrogate: n-Nonane		81.2 %	50-200	09/03/24	09/04/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2436017
Chloride	ND	20.0	1	09/03/24	09/04/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Ragin Cajun 12 CTB 3	Reported: 9/9/2024 10:01:35AM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

S3-4'

E408282-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2436012	
Benzene	ND	0.0250	1	09/03/24	09/05/24	
Ethylbenzene	ND	0.0250	1	09/03/24	09/05/24	
Toluene	ND	0.0250	1	09/03/24	09/05/24	
o-Xylene	ND	0.0250	1	09/03/24	09/05/24	
p,m-Xylene	ND	0.0500	1	09/03/24	09/05/24	
Total Xylenes	ND	0.0250	1	09/03/24	09/05/24	
Surrogate: Bromofluorobenzene		104 %	70-130	09/03/24	09/05/24	
Surrogate: 1,2-Dichloroethane-d4		94.9 %	70-130	09/03/24	09/05/24	
Surrogate: Toluene-d8		105 %	70-130	09/03/24	09/05/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2436012	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/03/24	09/05/24	
Surrogate: Bromofluorobenzene		104 %	70-130	09/03/24	09/05/24	
Surrogate: 1,2-Dichloroethane-d4		94.9 %	70-130	09/03/24	09/05/24	
Surrogate: Toluene-d8		105 %	70-130	09/03/24	09/05/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2436009	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/03/24	09/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/03/24	09/04/24	
Surrogate: n-Nonane		81.4 %	50-200	09/03/24	09/04/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2436017	
Chloride	ND	20.0	1	09/03/24	09/04/24	



## Sample Data

Pima Environmental Services-Carlsbad  
PO Box 247  
Plains TX, 79355-0247

Project Name: Ragin Cajun 12 CTB 3  
Project Number: 01058-0007  
Project Manager: Gio Gomez

**Reported:**  
9/9/2024 10:01:35AM

S4-1'

E408282-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2436012
Benzene	ND	0.0250	1	09/03/24	09/05/24	
Ethylbenzene	ND	0.0250	1	09/03/24	09/05/24	
Toluene	ND	0.0250	1	09/03/24	09/05/24	
o-Xylene	ND	0.0250	1	09/03/24	09/05/24	
p,m-Xylene	ND	0.0500	1	09/03/24	09/05/24	
Total Xylenes	ND	0.0250	1	09/03/24	09/05/24	
Surrogate: Bromofluorobenzene		102 %	70-130	09/03/24	09/05/24	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130	09/03/24	09/05/24	
Surrogate: Toluene-d8		106 %	70-130	09/03/24	09/05/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2436012
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/03/24	09/05/24	
Surrogate: Bromofluorobenzene		102 %	70-130	09/03/24	09/05/24	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130	09/03/24	09/05/24	
Surrogate: Toluene-d8		106 %	70-130	09/03/24	09/05/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2436009
Diesel Range Organics (C10-C28)	ND	25.0	1	09/03/24	09/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/03/24	09/04/24	
Surrogate: n-Nonane		78.8 %	50-200	09/03/24	09/04/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2436017
Chloride	31.3	20.0	1	09/03/24	09/04/24	





Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Ragin Cajun 12 CTB 3	Reported: 9/9/2024 10:01:35AM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

S4-2'

E408282-21

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2436013	
Benzene	ND	0.0250	1	09/03/24	09/05/24	
Ethylbenzene	ND	0.0250	1	09/03/24	09/05/24	
Toluene	ND	0.0250	1	09/03/24	09/05/24	
o-Xylene	ND	0.0250	1	09/03/24	09/05/24	
p,m-Xylene	ND	0.0500	1	09/03/24	09/05/24	
Total Xylenes	ND	0.0250	1	09/03/24	09/05/24	
Surrogate: Bromofluorobenzene	96.0 %	70-130		09/03/24	09/05/24	
Surrogate: 1,2-Dichloroethane-d4	94.3 %	70-130		09/03/24	09/05/24	
Surrogate: Toluene-d8	102 %	70-130		09/03/24	09/05/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2436013	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/03/24	09/05/24	
Surrogate: Bromofluorobenzene	96.0 %	70-130		09/03/24	09/05/24	
Surrogate: 1,2-Dichloroethane-d4	94.3 %	70-130		09/03/24	09/05/24	
Surrogate: Toluene-d8	102 %	70-130		09/03/24	09/05/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: NV		Batch: 2436026	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/04/24	09/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/04/24	09/06/24	
Surrogate: n-Nonane	81.5 %	50-200		09/04/24	09/06/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: WF		Batch: 2436001	
Chloride	50.9	20.0	1	09/03/24	09/04/24	



## Sample Data

Pima Environmental Services-Carlsbad  
PO Box 247  
Plains TX, 79355-0247

Project Name: Ragin Cajun 12 CTB 3  
Project Number: 01058-0007  
Project Manager: Gio Gomez

**Reported:**  
9/9/2024 10:01:35AM

S4-3'

E408282-22

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2436013
Benzene	ND	0.0250	1	09/03/24	09/05/24	
Ethylbenzene	ND	0.0250	1	09/03/24	09/05/24	
Toluene	ND	0.0250	1	09/03/24	09/05/24	
o-Xylene	ND	0.0250	1	09/03/24	09/05/24	
p,m-Xylene	ND	0.0500	1	09/03/24	09/05/24	
Total Xylenes	ND	0.0250	1	09/03/24	09/05/24	
Surrogate: Bromofluorobenzene	94.5 %	70-130		09/03/24	09/05/24	
Surrogate: 1,2-Dichloroethane-d4	92.9 %	70-130		09/03/24	09/05/24	
Surrogate: Toluene-d8	102 %	70-130		09/03/24	09/05/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2436013
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/03/24	09/05/24	
Surrogate: Bromofluorobenzene	94.5 %	70-130		09/03/24	09/05/24	
Surrogate: 1,2-Dichloroethane-d4	92.9 %	70-130		09/03/24	09/05/24	
Surrogate: Toluene-d8	102 %	70-130		09/03/24	09/05/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2436026
Diesel Range Organics (C10-C28)	ND	25.0	1	09/04/24	09/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/04/24	09/06/24	
Surrogate: n-Nonane	83.6 %	50-200		09/04/24	09/06/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: WF		Batch: 2436001
Chloride	ND	20.0	1	09/03/24	09/04/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Ragin Cajun 12 CTB 3	Reported: 9/9/2024 10:01:35AM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

S4-4'

E408282-23

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2436013	
Benzene	ND	0.0250	1	09/03/24	09/05/24	
Ethylbenzene	ND	0.0250	1	09/03/24	09/05/24	
Toluene	ND	0.0250	1	09/03/24	09/05/24	
o-Xylene	ND	0.0250	1	09/03/24	09/05/24	
p,m-Xylene	ND	0.0500	1	09/03/24	09/05/24	
Total Xylenes	ND	0.0250	1	09/03/24	09/05/24	
Surrogate: Bromofluorobenzene	93.3 %	70-130		09/03/24	09/05/24	
Surrogate: 1,2-Dichloroethane-d4	90.1 %	70-130		09/03/24	09/05/24	
Surrogate: Toluene-d8	102 %	70-130		09/03/24	09/05/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2436013	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/03/24	09/05/24	
Surrogate: Bromofluorobenzene	93.3 %	70-130		09/03/24	09/05/24	
Surrogate: 1,2-Dichloroethane-d4	90.1 %	70-130		09/03/24	09/05/24	
Surrogate: Toluene-d8	102 %	70-130		09/03/24	09/05/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: NV		Batch: 2436026	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/04/24	09/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/04/24	09/06/24	
Surrogate: n-Nonane	78.1 %	50-200		09/04/24	09/06/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: WF		Batch: 2436001	
Chloride	ND	20.0	1	09/03/24	09/04/24	





## Sample Data

Pima Environmental Services-Carlsbad  
PO Box 247  
Plains TX, 79355-0247

Project Name: Ragin Cajun 12 CTB 3  
Project Number: 01058-0007  
Project Manager: Gio Gomez

**Reported:**  
9/9/2024 10:01:35AM

## SW8

## E408282-24

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2436013
Benzene	ND	0.0250	1	09/03/24	09/05/24	
Ethylbenzene	ND	0.0250	1	09/03/24	09/05/24	
Toluene	ND	0.0250	1	09/03/24	09/05/24	
o-Xylene	ND	0.0250	1	09/03/24	09/05/24	
p,m-Xylene	ND	0.0500	1	09/03/24	09/05/24	
Total Xylenes	ND	0.0250	1	09/03/24	09/05/24	
Surrogate: Bromofluorobenzene	96.2 %	70-130		09/03/24	09/05/24	
Surrogate: 1,2-Dichloroethane-d4	91.8 %	70-130		09/03/24	09/05/24	
Surrogate: Toluene-d8	102 %	70-130		09/03/24	09/05/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2436013
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/03/24	09/05/24	
Surrogate: Bromofluorobenzene	96.2 %	70-130		09/03/24	09/05/24	
Surrogate: 1,2-Dichloroethane-d4	91.8 %	70-130		09/03/24	09/05/24	
Surrogate: Toluene-d8	102 %	70-130		09/03/24	09/05/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2436026
Diesel Range Organics (C10-C28)	ND	25.0	1	09/04/24	09/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/04/24	09/06/24	
Surrogate: n-Nonane	85.0 %	50-200		09/04/24	09/06/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: WF		Batch: 2436001
Chloride	ND	20.0	1	09/03/24	09/04/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Ragin Cajun 12 CTB 3	Reported: 9/9/2024 10:01:35AM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

SW9

E408282-25

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2436013	
Benzene	ND	0.0250	1	09/03/24	09/04/24	
Ethylbenzene	ND	0.0250	1	09/03/24	09/04/24	
Toluene	ND	0.0250	1	09/03/24	09/04/24	
o-Xylene	ND	0.0250	1	09/03/24	09/04/24	
p,m-Xylene	ND	0.0500	1	09/03/24	09/04/24	
Total Xylenes	ND	0.0250	1	09/03/24	09/04/24	
Surrogate: Bromofluorobenzene	92.7 %	70-130		09/03/24	09/04/24	
Surrogate: 1,2-Dichloroethane-d4	93.1 %	70-130		09/03/24	09/04/24	
Surrogate: Toluene-d8	102 %	70-130		09/03/24	09/04/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2436013	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/03/24	09/04/24	
Surrogate: Bromofluorobenzene	92.7 %	70-130		09/03/24	09/04/24	
Surrogate: 1,2-Dichloroethane-d4	93.1 %	70-130		09/03/24	09/04/24	
Surrogate: Toluene-d8	102 %	70-130		09/03/24	09/04/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2436026	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/04/24	09/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/04/24	09/06/24	
Surrogate: n-Nonane	80.7 %	50-200		09/04/24	09/06/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: WF		Batch: 2436001	
Chloride	ND	20.0	1	09/03/24	09/04/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Ragin Cajun 12 CTB 3	Reported: 9/9/2024 10:01:35AM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

SW10

E408282-26

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2436013
Benzene	ND	0.0250	1	09/03/24	09/05/24	
Ethylbenzene	ND	0.0250	1	09/03/24	09/05/24	
Toluene	ND	0.0250	1	09/03/24	09/05/24	
o-Xylene	ND	0.0250	1	09/03/24	09/05/24	
p,m-Xylene	ND	0.0500	1	09/03/24	09/05/24	
Total Xylenes	ND	0.0250	1	09/03/24	09/05/24	
Surrogate: Bromofluorobenzene	97.6 %	70-130		09/03/24	09/05/24	
Surrogate: 1,2-Dichloroethane-d4	92.5 %	70-130		09/03/24	09/05/24	
Surrogate: Toluene-d8	104 %	70-130		09/03/24	09/05/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2436013
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/03/24	09/05/24	
Surrogate: Bromofluorobenzene	97.6 %	70-130		09/03/24	09/05/24	
Surrogate: 1,2-Dichloroethane-d4	92.5 %	70-130		09/03/24	09/05/24	
Surrogate: Toluene-d8	104 %	70-130		09/03/24	09/05/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2436026
Diesel Range Organics (C10-C28)	ND	25.0	1	09/04/24	09/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/04/24	09/06/24	
Surrogate: n-Nonane	83.4 %	50-200		09/04/24	09/06/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: WF		Batch: 2436001
Chloride	ND	20.0	1	09/03/24	09/04/24	





Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Ragin Cajun 12 CTB 3	Reported: 9/9/2024 10:01:35AM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

SW11

E408282-27

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2436013
Benzene	ND	0.0250	1	09/03/24	09/05/24	
Ethylbenzene	ND	0.0250	1	09/03/24	09/05/24	
Toluene	ND	0.0250	1	09/03/24	09/05/24	
o-Xylene	ND	0.0250	1	09/03/24	09/05/24	
p,m-Xylene	ND	0.0500	1	09/03/24	09/05/24	
Total Xylenes	ND	0.0250	1	09/03/24	09/05/24	
Surrogate: Bromofluorobenzene	96.3 %	70-130		09/03/24	09/05/24	
Surrogate: 1,2-Dichloroethane-d4	92.8 %	70-130		09/03/24	09/05/24	
Surrogate: Toluene-d8	103 %	70-130		09/03/24	09/05/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2436013
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/03/24	09/05/24	
Surrogate: Bromofluorobenzene	96.3 %	70-130		09/03/24	09/05/24	
Surrogate: 1,2-Dichloroethane-d4	92.8 %	70-130		09/03/24	09/05/24	
Surrogate: Toluene-d8	103 %	70-130		09/03/24	09/05/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2436026
Diesel Range Organics (C10-C28)	ND	25.0	1	09/04/24	09/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/04/24	09/06/24	
Surrogate: n-Nonane	85.3 %	50-200		09/04/24	09/06/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: WF		Batch: 2436001
Chloride	ND	20.0	1	09/03/24	09/04/24	



## Sample Data

Pima Environmental Services-Carlsbad  
PO Box 247  
Plains TX, 79355-0247

Project Name: Ragin Cajun 12 CTB 3  
Project Number: 01058-0007  
Project Manager: Gio Gomez

**Reported:**  
9/9/2024 10:01:35AM

## BG1

## E408282-28

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2436013
Benzene	ND	0.0250	1	09/03/24	09/05/24	
Ethylbenzene	ND	0.0250	1	09/03/24	09/05/24	
Toluene	ND	0.0250	1	09/03/24	09/05/24	
o-Xylene	ND	0.0250	1	09/03/24	09/05/24	
p,m-Xylene	ND	0.0500	1	09/03/24	09/05/24	
Total Xylenes	ND	0.0250	1	09/03/24	09/05/24	
Surrogate: Bromofluorobenzene	96.3 %	70-130		09/03/24	09/05/24	
Surrogate: 1,2-Dichloroethane-d4	93.7 %	70-130		09/03/24	09/05/24	
Surrogate: Toluene-d8	101 %	70-130		09/03/24	09/05/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2436013
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/03/24	09/05/24	
Surrogate: Bromofluorobenzene	96.3 %	70-130		09/03/24	09/05/24	
Surrogate: 1,2-Dichloroethane-d4	93.7 %	70-130		09/03/24	09/05/24	
Surrogate: Toluene-d8	101 %	70-130		09/03/24	09/05/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2436026
Diesel Range Organics (C10-C28)	ND	25.0	1	09/04/24	09/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/04/24	09/06/24	
Surrogate: n-Nonane	86.9 %	50-200		09/04/24	09/06/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: WF		Batch: 2436001
Chloride	ND	20.0	1	09/03/24	09/04/24	



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Ragin Cajun 12 CTB 3	Reported:  9/9/2024 10:01:35AM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

Volatile Organic Compounds by EPA 8260B

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2436012-BLK1) Prepared: 09/03/24 Analyzed: 09/04/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.510		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.490		0.500		97.9	70-130			
Surrogate: Toluene-d8	0.531		0.500		106	70-130			

LCS (2436012-BS1) Prepared: 09/03/24 Analyzed: 09/04/24

Benzene	2.40	0.0250	2.50		95.9	70-130			
Ethylbenzene	2.41	0.0250	2.50		96.4	70-130			
Toluene	2.42	0.0250	2.50		96.8	70-130			
o-Xylene	2.31	0.0250	2.50		92.5	70-130			
p,m-Xylene	4.68	0.0500	5.00		93.5	70-130			
Total Xylenes	6.99	0.0250	7.50		93.2	70-130			
Surrogate: Bromofluorobenzene	0.512		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.480		0.500		95.9	70-130			
Surrogate: Toluene-d8	0.526		0.500		105	70-130			

Matrix Spike (2436012-MS1) Source: E408282-07 Prepared: 09/03/24 Analyzed: 09/04/24

Benzene	2.41	0.0250	2.50	ND	96.2	48-131			
Ethylbenzene	2.37	0.0250	2.50	ND	94.7	45-135			
Toluene	2.38	0.0250	2.50	ND	95.3	48-130			
o-Xylene	2.30	0.0250	2.50	ND	91.9	43-135			
p,m-Xylene	4.65	0.0500	5.00	ND	93.0	43-135			
Total Xylenes	6.95	0.0250	7.50	ND	92.7	43-135			
Surrogate: Bromofluorobenzene	0.506		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.489		0.500		97.7	70-130			
Surrogate: Toluene-d8	0.511		0.500		102	70-130			

Matrix Spike Dup (2436012-MSD1) Source: E408282-07 Prepared: 09/03/24 Analyzed: 09/04/24

Benzene	2.30	0.0250	2.50	ND	91.9	48-131	4.57	23	
Ethylbenzene	2.28	0.0250	2.50	ND	91.2	45-135	3.81	27	
Toluene	2.29	0.0250	2.50	ND	91.6	48-130	3.94	24	
o-Xylene	2.21	0.0250	2.50	ND	88.5	43-135	3.75	27	
p,m-Xylene	4.40	0.0500	5.00	ND	88.0	43-135	5.57	27	
Total Xylenes	6.61	0.0250	7.50	ND	88.2	43-135	4.96	27	
Surrogate: Bromofluorobenzene	0.513		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.503		0.500		101	70-130			
Surrogate: Toluene-d8	0.520		0.500		104	70-130			





QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Ragin Cajun 12 CTB 3	Reported:  9/9/2024 10:01:35AM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

Volatile Organic Compounds by EPA 8260B

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2436013-BLK1) Prepared: 09/03/24 Analyzed: 09/04/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.469		0.500		93.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.451		0.500		90.2	70-130			
Surrogate: Toluene-d8	0.513		0.500		103	70-130			

LCS (2436013-BS1) Prepared: 09/03/24 Analyzed: 09/03/24

Benzene	2.22	0.0250	2.50		88.8	70-130			
Ethylbenzene	2.26	0.0250	2.50		90.6	70-130			
Toluene	2.40	0.0250	2.50		96.0	70-130			
o-Xylene	2.38	0.0250	2.50		95.1	70-130			
p,m-Xylene	4.78	0.0500	5.00		95.5	70-130			
Total Xylenes	7.15	0.0250	7.50		95.4	70-130			
Surrogate: Bromofluorobenzene	0.478		0.500		95.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.461		0.500		92.2	70-130			
Surrogate: Toluene-d8	0.508		0.500		102	70-130			

Matrix Spike (2436013-MS1) Source: E408282-25 Prepared: 09/03/24 Analyzed: 09/04/24

Benzene	2.24	0.0250	2.50	ND	89.8	48-131			
Ethylbenzene	2.30	0.0250	2.50	ND	92.0	45-135			
Toluene	2.44	0.0250	2.50	ND	97.5	48-130			
o-Xylene	2.38	0.0250	2.50	ND	95.0	43-135			
p,m-Xylene	4.75	0.0500	5.00	ND	95.0	43-135			
Total Xylenes	7.12	0.0250	7.50	ND	95.0	43-135			
Surrogate: Bromofluorobenzene	0.478		0.500		95.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.469		0.500		93.8	70-130			
Surrogate: Toluene-d8	0.518		0.500		104	70-130			

Matrix Spike Dup (2436013-MSD1) Source: E408282-25 Prepared: 09/03/24 Analyzed: 09/04/24

Benzene	2.06	0.0250	2.50	ND	82.3	48-131	8.65	23	
Ethylbenzene	2.09	0.0250	2.50	ND	83.8	45-135	9.33	27	
Toluene	2.19	0.0250	2.50	ND	87.8	48-130	10.5	24	
o-Xylene	2.28	0.0250	2.50	ND	91.2	43-135	4.13	27	
p,m-Xylene	4.52	0.0500	5.00	ND	90.4	43-135	4.94	27	
Total Xylenes	6.80	0.0250	7.50	ND	90.6	43-135	4.67	27	
Surrogate: Bromofluorobenzene	0.496		0.500		99.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.463		0.500		92.5	70-130			
Surrogate: Toluene-d8	0.501		0.500		100	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Ragin Cajun 12 CTB 3	Reported:  9/9/2024 10:01:35AM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2436012-BLK1) Prepared: 09/03/24 Analyzed: 09/04/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.510		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.490		0.500		97.9	70-130			
Surrogate: Toluene-d8	0.531		0.500		106	70-130			

LCS (2436012-BS2) Prepared: 09/03/24 Analyzed: 09/04/24

Gasoline Range Organics (C6-C10)	55.9	20.0	50.0		112	70-130			
Surrogate: Bromofluorobenzene	0.528		0.500		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.472		0.500		94.3	70-130			
Surrogate: Toluene-d8	0.538		0.500		108	70-130			

Matrix Spike (2436012-MS2) Source: E408282-07 Prepared: 09/03/24 Analyzed: 09/04/24

Gasoline Range Organics (C6-C10)	52.2	20.0	50.0	ND	104	70-130			
Surrogate: Bromofluorobenzene	0.515		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.485		0.500		96.9	70-130			
Surrogate: Toluene-d8	0.535		0.500		107	70-130			

Matrix Spike Dup (2436012-MSD2) Source: E408282-07 Prepared: 09/03/24 Analyzed: 09/04/24

Gasoline Range Organics (C6-C10)	54.1	20.0	50.0	ND	108	70-130	3.65	20	
Surrogate: Bromofluorobenzene	0.514		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.473		0.500		94.5	70-130			
Surrogate: Toluene-d8	0.537		0.500		107	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Ragin Cajun 12 CTB 3	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	9/9/2024 10:01:35AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2436013-BLK1) Prepared: 09/03/24 Analyzed: 09/04/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.469		0.500		93.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.451		0.500		90.2	70-130			
Surrogate: Toluene-d8	0.513		0.500		103	70-130			

LCS (2436013-BS2) Prepared: 09/03/24 Analyzed: 09/04/24

Gasoline Range Organics (C6-C10)	40.0	20.0	50.0		80.0	70-130			
Surrogate: Bromofluorobenzene	0.483		0.500		96.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.482		0.500		96.3	70-130			
Surrogate: Toluene-d8	0.524		0.500		105	70-130			

Matrix Spike (2436013-MS2) Source: E408282-25 Prepared: 09/03/24 Analyzed: 09/05/24

Gasoline Range Organics (C6-C10)	39.8	20.0	50.0	ND	79.5	70-130			
Surrogate: Bromofluorobenzene	0.476		0.500		95.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.455		0.500		91.0	70-130			
Surrogate: Toluene-d8	0.517		0.500		103	70-130			

Matrix Spike Dup (2436013-MSD2) Source: E408282-25 Prepared: 09/03/24 Analyzed: 09/05/24

Gasoline Range Organics (C6-C10)	40.0	20.0	50.0	ND	80.0	70-130	0.609	20	
Surrogate: Bromofluorobenzene	0.487		0.500		97.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.468		0.500		93.5	70-130			
Surrogate: Toluene-d8	0.515		0.500		103	70-130			





QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Ragin Cajun 12 CTB 3	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	9/9/2024 10:01:35AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2436009-BLK1)					Prepared: 09/03/24 Analyzed: 09/04/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	45.0		50.0		89.9	50-200			

LCS (2436009-BS1)					Prepared: 09/03/24 Analyzed: 09/04/24				
Diesel Range Organics (C10-C28)	241	25.0	250		96.3	38-132			
Surrogate: n-Nonane	43.9		50.0		87.7	50-200			

Matrix Spike (2436009-MS1)					Source: E408282-10		Prepared: 09/03/24 Analyzed: 09/04/24		
Diesel Range Organics (C10-C28)	229	25.0	250	ND	91.6	38-132			
Surrogate: n-Nonane	41.7		50.0		83.5	50-200			

Matrix Spike Dup (2436009-MSD1)					Source: E408282-10		Prepared: 09/03/24 Analyzed: 09/04/24		
Diesel Range Organics (C10-C28)	237	25.0	250	ND	94.8	38-132	3.40	20	
Surrogate: n-Nonane	44.2		50.0		88.4	50-200			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Ragin Cajun 12 CTB 3	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	9/9/2024 10:01:35AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2436026-BLK1)					Prepared: 09/04/24 Analyzed: 09/06/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	42.2		50.0		84.5	50-200			

LCS (2436026-BS1)					Prepared: 09/04/24 Analyzed: 09/06/24				
Diesel Range Organics (C10-C28)	210	25.0	250		83.9	38-132			
Surrogate: n-Nonane	45.3		50.0		90.5	50-200			

Matrix Spike (2436026-MS1)					Source: E408282-21		Prepared: 09/04/24 Analyzed: 09/06/24		
Diesel Range Organics (C10-C28)	200	25.0	250	ND	80.1	38-132			
Surrogate: n-Nonane	43.7		50.0		87.5	50-200			

Matrix Spike Dup (2436026-MSD1)					Source: E408282-21		Prepared: 09/04/24 Analyzed: 09/06/24		
Diesel Range Organics (C10-C28)	194	25.0	250	ND	77.8	38-132	2.98	20	
Surrogate: n-Nonane	41.8		50.0		83.5	50-200			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Ragin Cajun 12 CTB 3	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	9/9/2024 10:01:35AM

Anions by EPA 300.0/9056A

Analyst: WF

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2436001-BLK1)					Prepared: 09/03/24 Analyzed: 09/03/24				
Chloride	ND	20.0							
LCS (2436001-BS1)					Prepared: 09/03/24 Analyzed: 09/03/24				
Chloride	248	20.0	250		99.1	90-110			
Matrix Spike (2436001-MS1)					Source: E408279-02		Prepared: 09/03/24 Analyzed: 09/03/24		
Chloride	252	20.0	250	ND	101	80-120			
Matrix Spike Dup (2436001-MSD1)					Source: E408279-02		Prepared: 09/03/24 Analyzed: 09/03/24		
Chloride	252	20.0	250	ND	101	80-120	0.122	20	





QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Ragin Cajun 12 CTB 3	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	9/9/2024 10:01:35AM

Anions by EPA 300.0/9056A

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2436017-BLK1)					Prepared: 09/03/24 Analyzed: 09/03/24				
Chloride	ND	20.0							
LCS (2436017-BS1)					Prepared: 09/03/24 Analyzed: 09/03/24				
Chloride	249	20.0	250		99.5	90-110			
Matrix Spike (2436017-MS1)					Source: E408282-04		Prepared: 09/03/24 Analyzed: 09/03/24		
Chloride	271	20.0	250	ND	109	80-120			
Matrix Spike Dup (2436017-MSD1)					Source: E408282-04		Prepared: 09/03/24 Analyzed: 09/04/24		
Chloride	270	20.0	250	ND	108	80-120	0.576	20	

QC Summary Report Comment:  
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures.  
Therefore, hand calculated values may differ slightly.



Definitions and Notes

Pima Environmental Services-Carlsbad	Project Name:	Ragin Cajun 12 CTB 3	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Gio Gomez	09/09/24 10:01

- ND      Analyte NOT DETECTED at or above the reporting limit
- NR      Not Reported
- RPD      Relative Percent Difference
- DNI      Did Not Ignite
- DNR      Did not react with the addition of acid or base.
- Note (1): Methods marked with \*\* are non-accredited methods.
- Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



## Project Information

## Chain of Custody

Page 1 of 3

Client: Pima Environmental Services  
 Project: Pagin Cajun 12 CTB 3  
 Project Manager: Gio Gomez  
 Address: 5614 N. Lovington Hwy.  
 City, State, Zip: Hobbs, NM, 88240  
 Phone: 806-782-1151  
 Email: gio@pimaoil.com  
 Report due by: \_\_\_\_\_

Bill To  
 Attention: Devon  
 Address: \_\_\_\_\_  
 City, State, Zip: \_\_\_\_\_  
 Phone: \_\_\_\_\_  
 Email: \_\_\_\_\_  
 Pima Project # 375

Lab Use Only										TAT				EPA Program	
Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA						
<u>E408282</u>		<u>01058-0007</u>					<u>X</u>								
Analysis and Method												RCRA			
DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0			BGDOC NM	BGDOC TX	State					
										NM	CO	UT	AZ	TX	
										<u>X</u>					
Remarks															
								<u>X</u>							

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number
8:27	8/29	S		S1-1'	1
8:33				S1-2'	2
8:41				S1-3'	3
8:56				S1-4'	4
9:11				SW1	5
9:23				SW2	6
9:30				SW3	7
9:39				SW4	8
9:43				S2-1'	9
9:56				S2-2'	10

## Additional Instructions:

Billing# 21399103

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.

Sampled by: \_\_\_\_\_

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature) <u>Karime Adams</u>	Date <u>8-30-24</u>	Time <u>1240</u>	Received by: (Signature) <u>[Signature]</u>	Date <u>8-30-24</u>	Time <u>1240</u>
Relinquished by: (Signature) <u>[Signature]</u>	Date <u>8-30-24</u>	Time <u>1500</u>	Received by: (Signature) <u>A.M.</u>	Date <u>8-30-24</u>	Time <u>1800</u>
Relinquished by: (Signature) <u>A.M.</u>	Date <u>8-30-24</u>	Time <u>2400</u>	Received by: (Signature) <u>Kyle R Hall</u>	Date <u>9-3-24</u>	Time <u>0500</u>

Lab Use Only		
Received on ice:	<u>Y / N</u>	
T1	T2	T3
AVG Temp °C <u>4</u>		

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other \_\_\_\_\_

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.



## Project Information

## Chain of Custody

Page 2 of 3

Client: Pima Environmental Services		Bill To		Lab Use Only		TAT		EPA Program					
Project: <u>Ragin Capn 12 CTB 3</u>		Attention: <u>Devon</u>		Lab WO# <u>E408282</u>		Job Number <u>01058-0007</u>		1D	2D	3D	Standard	CWA	SDWA
Project Manager: <u>Gio Gomez</u>		Address:		City, State, Zip		Phone:		Email:		Pima Project # <u>375</u>		RCRA	
Address: <u>5614 N. Lovington Hwy.</u>		City, State, Zip <u>Hobbs, NM, 88240</u>		Phone: <u>806-782-1151</u>		Email: <u>gio@pimaoil.com</u>		Report due by:		State		NM CO UT AZ TX	

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	Remarks
10:03	8/29	S		S2-3'	11							X		
10:11				S2-4'	12									
10:20				SW5	13									
10:27				SW6	14									
10:33				SW7	15									
10:39				S3-1'	16									
10:47				S3-2'	17									
10:51				S3-3'	18									
10:53				S3-4'	19									
11:00				S4-1'	20									

## Additional Instructions:

Billing # 21399103

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only Received on ice: <u>Y</u> / N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
<u>Karime Adame</u>	8-30-24	1240	<u>[Signature]</u>	8-30-24	1240	
<u>[Signature]</u>	8-30-24	1500	<u>J.M.</u>	8-30-24	1800	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	
<u>A.M.</u>	8-30-24	2400	<u>Kayla R Heller</u>	9-3-24	0500	

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.



## Project Information

## Chain of Custody

Page 3 of 3

Client: Pima Environmental Services Project: <u>Ragin Cajon 12 CTB3</u> Project Manager: <u>Gio Gomez</u> Address: <u>5614 N. Lovington Hwy.</u> City, State, Zip: <u>Hobbs, NM, 88240</u> Phone: <u>806-782-1151</u> Email: <u>gio@pimaoil.com</u> Report due by: _____					Bill To Attention: <u>Devon</u> Address: _____ City, State, Zip: _____ Phone: _____ Email: _____ Pima Project # <u>375</u>		Lab Use Only Lab WO# <u>E408282</u> Job Number <u>01058-0007</u>		TAT 1D 2D 3D Standard <u>X</u>			EPA Program CWA SDWA RCRA	
					Analysis and Method		State			State			
					DRO/ORO by 8015 GRO/DRO by 8015 BTEX by 8021 VOC by 8260 Metals 6010 Chloride 300.0 BGDOC NM BGDOC TX		NM CO UT AZ TX			Remarks			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number								
11:16	8/29	S		S4-2'	21					X			
11:25				S4-3'	22								
11:34				S4-4'	23								
11:46				SW8	24								
11:59				SW9	25								
12:03				SW10	26								
12:20				SW11	27								
12:27				BG1	28								
					2- (KHP)								
Additional Instructions: <u>Billing# 21399103</u>													
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.						Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.							
Relinquished by: (Signature) <u>Karine Adame</u>		Date <u>8-30-24</u>		Time <u>1240</u>		Received by: (Signature) <u>[Signature]</u>		Date <u>8-30-24</u>		Time <u>1240</u>			
Relinquished by: (Signature) <u>[Signature]</u>		Date <u>8-30-24</u>		Time <u>1500</u>		Received by: (Signature) <u>[Signature]</u>		Date <u>8-30-24</u>		Time <u>1800</u>			
Relinquished by: (Signature) <u>[Signature]</u>		Date <u>8-30-24</u>		Time <u>2400</u>		Received by: (Signature) <u>[Signature]</u>		Date <u>9-3-24</u>		Time <u>0500</u>			
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____						Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA							
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.													

## Envirotech Analytical Laboratory

Printed: 9/3/2024 7:07:37AM

## Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Pima Environmental Services-Carlsbad	Date Received:	09/03/24 05:00	Work Order ID:	E408282
Phone:	(575) 631-6977	Date Logged In:	08/30/24 15:59	Logged In By:	Noe Soto
Email:	gio@pimaoil.com	Due Date:	09/09/24 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierComments/Resolution

Sampler name and No. of Containers are missing on COC by client.

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

14. Are aqueous VOC samples present? No
15. Are VOC samples collected in VOA Vials? NA
16. Is the head space less than 6-8 mm (pea sized or less)? NA
17. Was a trip blank (TB) included for VOC analyses? NA
18. Are non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

20. Were field sample labels filled out with the minimum information:
 

Sample ID?	Yes
Date/Time Collected?	No
Collectors name?	No

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA

Client Instruction

Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

Report to:  
Gio Gomez



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Pima Environmental Services-Carlsbad

Project Name: Ragin Cajun 12 CTB 3

Work Order: E410384

Job Number: 01058-0007

Received: 11/1/2024

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
11/4/24

5796 U.S. Hwy 64  
Farmington, NM 87401

Phone: (505) 632-1881  
Envirotech-inc.com



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.  
Statement of Data Authenticity: Envirotech Inc. attests the data reported has not been altered in any way.  
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.  
Envirotech Inc. holds the Utah TNI certification NM00979 for data reported.  
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.



Date Reported: 11/4/24

Gio Gomez  
PO Box 247  
Plains, TX 79355-0247



Project Name: Ragin Cajun 12 CTB 3  
Workorder: E410384  
Date Received: 11/1/2024 7:00:00AM

Gio Gomez,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/1/2024 7:00:00AM, under the Project Name: Ragin Cajun 12 CTB 3.

The analytical test results summarized in this report with the Project Name: Ragin Cajun 12 CTB 3 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

**Walter Hinchman**  
Laboratory Director  
Office: 505-632-1881  
Cell: 775-287-1762  
[whinchman@envirotech-inc.com](mailto:whinchman@envirotech-inc.com)

**Raina Schwanz**  
Laboratory Administrator  
Office: 505-632-1881  
[rainaschwanz@envirotech-inc.com](mailto:rainaschwanz@envirotech-inc.com)

Field Offices:

**Southern New Mexico Area**

**Lynn Jarboe**  
Laboratory Technical Representative  
Office: 505-421-LABS(5227)  
Cell: 505-320-4759  
[ljjarboe@envirotech-inc.com](mailto:ljjarboe@envirotech-inc.com)

**Michelle Gonzales**  
Client Representative  
Office: 505-421-LABS(5227)  
Cell: 505-947-8222  
[mgonzaless@envirotech-inc.com](mailto:mgonzaless@envirotech-inc.com)

Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)

## Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
CS1-1'	5
CSW1	6
CSW2	7
CSW3	8
CSW4	9
QC Summary Data	10
QC - Volatile Organics by EPA 8021B	10
QC - Nonhalogenated Organics by EPA 8015D - GRO	11
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	12
QC - Anions by EPA 300.0/9056A	13
Definitions and Notes	14
Chain of Custody etc.	15

Sample Summary

Pima Environmental Services-Carlsbad	Project Name:	Ragin Cajun 12 CTB 3	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	11/04/24 10:56

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
CS1-1'	E410384-01A	Soil	10/31/24	11/01/24	Glass Jar, 2 oz.
CSW1	E410384-02A	Soil	10/31/24	11/01/24	Glass Jar, 2 oz.
CSW2	E410384-03A	Soil	10/31/24	11/01/24	Glass Jar, 2 oz.
CSW3	E410384-04A	Soil	10/31/24	11/01/24	Glass Jar, 2 oz.
CSW4	E410384-05A	Soil	10/31/24	11/01/24	Glass Jar, 2 oz.





Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Ragin Cajun 12 CTB 3 Project Number: 01058-0007 Project Manager: Gio Gomez	Reported: 11/4/2024 10:56:15AM
---	--	-----------------------------------

CS1-1'  
E410384-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2444142	
Benzene	ND	0.0250	1	11/01/24	11/01/24	
Ethylbenzene	ND	0.0250	1	11/01/24	11/01/24	
Toluene	ND	0.0250	1	11/01/24	11/01/24	
o-Xylene	ND	0.0250	1	11/01/24	11/01/24	
p,m-Xylene	ND	0.0500	1	11/01/24	11/01/24	
Total Xylenes	ND	0.0250	1	11/01/24	11/01/24	
Surrogate: 4-Bromochlorobenzene-PID	90.7 %	70-130		11/01/24	11/01/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2444142	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/01/24	11/01/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	89.6 %	70-130		11/01/24	11/01/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2444144	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/01/24	11/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/01/24	11/01/24	
Surrogate: n-Nonane	99.7 %	50-200		11/01/24	11/01/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: DT		Batch: 2444149	
Chloride	23.6	20.0	1	11/01/24	11/01/24	

Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Ragin Cajun 12 CTB 3	<b>Reported:</b> 11/4/2024 10:56:15AM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

CSW1

E410384-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2444142	
Benzene	ND	0.0250	1	11/01/24	11/01/24	
Ethylbenzene	ND	0.0250	1	11/01/24	11/01/24	
Toluene	ND	0.0250	1	11/01/24	11/01/24	
o-Xylene	ND	0.0250	1	11/01/24	11/01/24	
p,m-Xylene	ND	0.0500	1	11/01/24	11/01/24	
Total Xylenes	ND	0.0250	1	11/01/24	11/01/24	
Surrogate: 4-Bromochlorobenzene-PID	90.3 %	70-130		11/01/24	11/01/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2444142	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/01/24	11/01/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	91.1 %	70-130		11/01/24	11/01/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2444144	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/01/24	11/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/01/24	11/01/24	
Surrogate: n-Nonane	97.8 %	50-200		11/01/24	11/01/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: DT		Batch: 2444149	
Chloride	ND	20.0	1	11/01/24	11/01/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Ragin Cajun 12 CTB 3	<b>Reported:</b> 11/4/2024 10:56:15AM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

CSW2

E410384-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2444142	
Benzene	ND	0.0250	1	11/01/24	11/01/24	
Ethylbenzene	ND	0.0250	1	11/01/24	11/01/24	
Toluene	ND	0.0250	1	11/01/24	11/01/24	
o-Xylene	ND	0.0250	1	11/01/24	11/01/24	
p,m-Xylene	ND	0.0500	1	11/01/24	11/01/24	
Total Xylenes	ND	0.0250	1	11/01/24	11/01/24	
Surrogate: 4-Bromochlorobenzene-PID	90.5 %	70-130		11/01/24	11/01/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2444142	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/01/24	11/01/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	91.9 %	70-130		11/01/24	11/01/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2444144	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/01/24	11/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/01/24	11/01/24	
Surrogate: n-Nonane	103 %	50-200		11/01/24	11/01/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: DT		Batch: 2444149	
Chloride	ND	20.0	1	11/01/24	11/01/24	





Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Ragin Cajun 12 CTB 3	<b>Reported:</b> 11/4/2024 10:56:15AM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

CSW3

E410384-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2444142	
Benzene	ND	0.0250	1	11/01/24	11/01/24	
Ethylbenzene	ND	0.0250	1	11/01/24	11/01/24	
Toluene	ND	0.0250	1	11/01/24	11/01/24	
o-Xylene	ND	0.0250	1	11/01/24	11/01/24	
p,m-Xylene	ND	0.0500	1	11/01/24	11/01/24	
Total Xylenes	ND	0.0250	1	11/01/24	11/01/24	
Surrogate: 4-Bromochlorobenzene-PID	89.9 %	70-130		11/01/24	11/01/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2444142	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/01/24	11/01/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.2 %	70-130		11/01/24	11/01/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2444144	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/01/24	11/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/01/24	11/01/24	
Surrogate: n-Nonane	107 %	50-200		11/01/24	11/01/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: DT		Batch: 2444149	
Chloride	ND	20.0	1	11/01/24	11/01/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Ragin Cajun 12 CTB 3	<b>Reported:</b> 11/4/2024 10:56:15AM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

CSW4

E410384-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2444142	
Benzene	ND	0.0250	1	11/01/24	11/01/24	
Ethylbenzene	ND	0.0250	1	11/01/24	11/01/24	
Toluene	ND	0.0250	1	11/01/24	11/01/24	
o-Xylene	ND	0.0250	1	11/01/24	11/01/24	
p,m-Xylene	ND	0.0500	1	11/01/24	11/01/24	
Total Xylenes	ND	0.0250	1	11/01/24	11/01/24	
Surrogate: 4-Bromochlorobenzene-PID	88.8 %	70-130		11/01/24	11/01/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2444142	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/01/24	11/01/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	91.1 %	70-130		11/01/24	11/01/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2444144	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/01/24	11/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/01/24	11/01/24	
Surrogate: n-Nonane	101 %	50-200		11/01/24	11/01/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: DT		Batch: 2444149	
Chloride	ND	20.0	1	11/01/24	11/01/24	



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Ragin Cajun 12 CTB 3	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	11/4/2024 10:56:15AM

Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2444142-BLK1) Prepared: 11/01/24 Analyzed: 11/01/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.17		8.00		89.6	70-130			

LCS (2444142-BS1) Prepared: 11/01/24 Analyzed: 11/01/24

Benzene	5.02	0.0250	5.00		100	70-130			
Ethylbenzene	4.90	0.0250	5.00		98.0	70-130			
Toluene	4.99	0.0250	5.00		99.8	70-130			
o-Xylene	4.90	0.0250	5.00		97.9	70-130			
p,m-Xylene	9.93	0.0500	10.0		99.3	70-130			
Total Xylenes	14.8	0.0250	15.0		98.9	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.28		8.00		91.0	70-130			

LCS Dup (2444142-BS1) Prepared: 11/01/24 Analyzed: 11/01/24

Benzene	4.90	0.0250	5.00		98.0	70-130	2.44	20	
Ethylbenzene	4.78	0.0250	5.00		95.7	70-130	2.39	20	
Toluene	4.87	0.0250	5.00		97.5	70-130	2.32	20	
o-Xylene	4.77	0.0250	5.00		95.5	70-130	2.51	20	
p,m-Xylene	9.71	0.0500	10.0		97.1	70-130	2.27	20	
Total Xylenes	14.5	0.0250	15.0		96.6	70-130	2.35	20	
Surrogate: 4-Bromochlorobenzene-PID	7.23		8.00		90.3	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Ragin Cajun 12 CTB 3	Reported:  11/4/2024 10:56:15AM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2444142-BLK1) Prepared: 11/01/24 Analyzed: 11/01/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.50		8.00		93.7	70-130			

LCS (2444142-BS2) Prepared: 11/01/24 Analyzed: 11/01/24

Gasoline Range Organics (C6-C10)	39.4	20.0	50.0		78.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.54		8.00		94.2	70-130			

LCS Dup (2444142-BSD2) Prepared: 11/01/24 Analyzed: 11/01/24

Gasoline Range Organics (C6-C10)	41.0	20.0	50.0		81.9	70-130	3.79	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.50		8.00		93.7	70-130			





QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Ragin Cajun 12 CTB 3	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	11/4/2024 10:56:15AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2444144-BLK1) Prepared: 11/01/24 Analyzed: 11/01/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	49.9		50.0		99.8	50-200			

LCS (2444144-BS1) Prepared: 11/01/24 Analyzed: 11/01/24

Diesel Range Organics (C10-C28)	269	25.0	250		107	38-132			
Surrogate: n-Nonane	54.3		50.0		109	50-200			

LCS Dup (2444144-BSD1) Prepared: 11/01/24 Analyzed: 11/01/24

Diesel Range Organics (C10-C28)	274	25.0	250		110	38-132	2.10	20	
Surrogate: n-Nonane	54.1		50.0		108	50-200			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Ragin Cajun 12 CTB 3	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	11/4/2024 10:56:15AM

Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2444149-BLK1)					Prepared: 11/01/24 Analyzed: 11/01/24				
Chloride	ND	20.0							
LCS (2444149-BS1)					Prepared: 11/01/24 Analyzed: 11/01/24				
Chloride	256	20.0	250		102	90-110			
LCS Dup (2444149-BSD1)					Prepared: 11/01/24 Analyzed: 11/01/24				
Chloride	257	20.0	250		103	90-110	0.594	20	

QC Summary Report Comment:  
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures.  
Therefore, hand calculated values may differ slightly.

Definitions and Notes

Pima Environmental Services-Carlsbad	Project Name:	Ragin Cajun 12 CTB 3	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Gio Gomez	11/04/24 10:56

- ND      Analyte NOT DETECTED at or above the reporting limit
  - NR      Not Reported
  - RPD      Relative Percent Difference
  - DNI      Did Not Ignite
  - DNR      Did not react with the addition of acid or base.
- Note (1): Methods marked with \*\* are non-accredited methods.
- Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



## Chain of Custody





## Envirotech Analytical Laboratory

Printed: 11/1/2024 8:11:44AM

## Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Pima Environmental Services-Carlsbad	Date Received:	11/01/24 07:00	Work Order ID:	E410384
Phone:	(575) 631-6977	Date Logged In:	10/31/24 14:31	Logged In By:	Caitlin Mars
Email:	gio@pimaoil.com	Due Date:	11/01/24 17:00 (0 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? No
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierComments/Resolution

No of containers and sampled by missing on COC.

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

14. Are aqueous VOC samples present? No
15. Are VOC samples collected in VOA Vials? NA
16. Is the head space less than 6-8 mm (pea sized or less)? NA
17. Was a trip blank (TB) included for VOC analyses? NA
18. Are non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

20. Were field sample labels filled out with the minimum information:
  - Sample ID? Yes
  - Date/Time Collected? Yes
  - Collectors name? No

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA

Client Instruction

Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

Sante Fe Main Office  
Phone: (505) 476-3441

General Information  
Phone: (505) 629-6116

Online Phone Directory  
<https://www.emnrd.nm.gov/ocd/contact-us>

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

QUESTIONS

Action 404547

QUESTIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 404547
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2423962613
Incident Name	NAPP2423962613 RAGIN CAJUN 12 CTB 3 @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received
Incident Facility	[fAPP242338309] RAGIN CAJUN 12 CTB 3

Location of Release Source	
Please answer all the questions in this group.	
Site Name	RAGIN CAJUN 12 CTB 3
Date Release Discovered	08/26/2024
Surface Owner	Federal

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Equipment Failure   Coupling   Produced Water   Released: 92 BBL   Recovered: 90 BBL   Lost: 2 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	a 3" poly weld on the downstream leg of the facility WTPs broke apart. water was released into two lined containments. 0.03 bbls spilled onto pad. 90 bbls recovered from the two containments. 2 bbls believed to have evaporated before it could be recovered.

Sante Fe Main Office  
Phone: (505) 476-3441

General Information  
Phone: (505) 629-6116

Online Phone Directory  
<https://www.emnrd.nm.gov/ocd/contact-us>

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

QUESTIONS, Page 2

Action 404547

**QUESTIONS (continued)**

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 404547
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

**Initial Response**

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

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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

I hereby agree and sign off to the above statement	Name: James Raley Title: EHS Professional Email: jim.raley@dvni.com Date: 11/19/2024
--	---

Sante Fe Main Office  
Phone: (505) 476-3441

General Information  
Phone: (505) 629-6116

Online Phone Directory  
<https://www.emnrd.nm.gov/ocd/contact-us>

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

QUESTIONS, Page 3

Action 404547

**QUESTIONS (continued)**

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 404547
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS****Site Characterization**

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
<b>What is the minimum distance, between the closest lateral extents of the release and the following surface areas:</b>	
A continuously flowing watercourse or any other significant watercourse	Greater than 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Greater than 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Greater than 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

**Remediation Plan**

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

**Soil Contamination Sampling:** (Provide the highest observable value for each, in milligrams per kilograms.)

Chloride (EPA 300.0 or SM4500 Cl B)	877
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	37
GRO+DRO (EPA SW-846 Method 8015M)	37
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

On what estimated date will the remediation commence	11/01/2024
On what date will (or did) the final sampling or liner inspection occur	11/01/2024
On what date will (or was) the remediation complete(d)	11/01/2024
What is the estimated surface area (in square feet) that will be reclaimed	200
What is the estimated volume (in cubic yards) that will be reclaimed	7
What is the estimated surface area (in square feet) that will be remediated	200
What is the estimated volume (in cubic yards) that will be remediated	7

These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.



Sante Fe Main Office  
Phone: (505) 476-3441

General Information  
Phone: (505) 629-6116

Online Phone Directory  
<https://www.emnrd.nm.gov/ocd/contact-us>

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

QUESTIONS, Page 4

Action 404547

**QUESTIONS (continued)**

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 404547
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Remediation Plan (continued)</b>	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
<b>This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:</b>	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and <b>off-site</b> disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for <b>off-site</b> disposal	R360 ARTESIA LLC LANDFARM [FEEM0112340644]
<b>OR</b> which OCD approved well (API) will be used for <b>off-site</b> disposal	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, out-of-state	No
<b>OR</b> is the <b>off-site</b> disposal site, to be used, an NMED facility	No
(Ex Situ) Excavation and <b>on-site</b> remediation (i.e. On-Site Land Farms)	No
(In Situ) Soil Vapor Extraction	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No
Ground Water Abatement pursuant to 19.15.30 NMAC	No
OTHER (Non-listed remedial process)	No
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Dale Woodall Title: EHS Professional Email: Dale.Woodall@dmn.com Date: 10/04/2024
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

Sante Fe Main Office  
Phone: (505) 476-3441

General Information  
Phone: (505) 629-6116

Online Phone Directory  
<https://www.emnrd.nm.gov/ocd/contact-us>

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

QUESTIONS, Page 5  
  
Action 404547

QUESTIONS (continued)

Operator:  DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID:  6137
	Action Number:  404547
	Action Type:  [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

Sante Fe Main Office  
Phone: (505) 476-3441

General Information  
Phone: (505) 629-6116

Online Phone Directory  
<https://www.emnrd.nm.gov/ocd/contact-us>

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

QUESTIONS, Page 6

Action 404547

**QUESTIONS (continued)**

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 404547
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

Sampling Event Information	
Last sampling notification (C-141N) recorded	396945
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	10/31/2024
What was the (estimated) number of samples that were to be gathered	5
What was the sampling surface area in square feet	200

**Remediation Closure Request**

*Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.*

Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	200
What was the total volume (cubic yards) remediated	7
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	200
What was the total volume (in cubic yards) reclaimed	7
Summarize any additional remediation activities not included by answers (above)	inspected for any pinholes or punctures or any evidence that the spilled fluids left containment

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

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

I hereby agree and sign off to the above statement	Name: James Raley Title: EHS Professional Email: jim.raley@dvn.com Date: 11/19/2024
--	--

Sante Fe Main Office  
Phone: (505) 476-3441

General Information  
Phone: (505) 629-6116

Online Phone Directory  
<https://www.emnrd.nm.gov/ocd/contact-us>

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

QUESTIONS, Page 7  
  
Action 404547

QUESTIONS (continued)

Operator:  DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID:  6137
	Action Number:  404547
	Action Type:  [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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



Sante Fe Main Office  
Phone: (505) 476-3441

General Information  
Phone: (505) 629-6116

Online Phone Directory  
<https://www.emnrd.nm.gov/ocd/contact-us>

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

CONDITIONS

Action 404547

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 404547
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
scott.rodgers	The Remediation Closure Report is approved. If nearby wells are used to determine depth to groundwater, the wells should be no further than ½ mile away from the site, data must be no more than 25 years old, and well construction information must be provided. If evidence of depth to ground water within a ½ mile radius of the site cannot provided, impacted soils will need to meet Table 1 Closure Criteria for ground water at a depth of 50 feet or less. No evidence of depth to ground water within a 1/2-mile radius was provided. All impacted soils from incident #NAPP2423962613 met the Table 1 Closure Criteria for ground water at a depth of 50 feet or less.	12/2/2024