

Incident ID	NAPP2103458288
District RP	
Facility ID	
Application ID	

## Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<50 (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

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

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

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

State of New Mexico  
Oil Conservation Division

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

Printed Name: Dale Woodall Title: Environmental Professional

Signature: *Dale Woodall* Date: 8/2/2023

email: dale.woodall@dnv.com Telephone: 575-748-1838

**OCD Only**

Received by: Shelly Wells Date: 8/3/2023

Incident ID	NAPP2103458288
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## Closure

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

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

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

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

Printed Name: Dale Woodall Title: Environmental Professional  
 Signature: Dale Woodall Date: 8/2/2023  
 email: dale.woodall@dvn.com Telephone: 575-748-1838

**OCD Only**

Received by: Shelly Wells Date: 8/3/2023

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

Printed Name: \_\_\_\_\_ Title: \_\_\_\_\_



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

August 1, 2023

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

**Re: Site Assessment, Remediation, and Closure Report**  
**Cotton Draw Unit 167 CTB**  
**API No. N/A**  
**GPS: Latitude 32.167493 Longitude -103.732874**  
**UL - N, Sect 36, T24S, R31E**  
**Eddy County, NM**  
**NMOCD Ref. No. NAPP2103458288**

Pima Environmental Services, LLC. (Pima) has been contracted by Devon Energy Production Company, LP (Devon) to perform a spill assessment, remediation activities, and submit this closure report for a Produced Water release that occurred at the Cotton Draw Unit 167 CTB (Cotton). The initial C-141 was submitted on February 3, 2021 (Appendix C). This incident was assigned Incident ID NAPP2103458288 by the New Mexico Oil Conservation Division (NMOCD).

**Site Characterization**

The Cotton is located approximately twenty (20) miles southeast of Malaga, NM. This spill site is in Unit N, Section 36, Township 24S, Range 31E, Latitude 32.167493 Longitude -103.732874, Eddy County, NM. Figure 1 references a Location Map.

Per the New Mexico Bureau of Geology and Mineral Resources, the geology is made up of 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 Berino complex, 0 to 3 percent slopes 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 Cotton (Figure 3).

According to the New Mexico Office of the State Engineer, depth to the nearest groundwater in this area is 222 feet below grade surface (BGS). According to the United States Geological Survey (USGS), the nearest groundwater is 406 feet BGS. The closest waterway is the Pecos River located approximately 13.75 miles to the west of this location. See Appendix A for referenced water surveys.

Table 1 NMAC and Closure Criteria 19.15.29					
Depth to Groundwater (Appendix A)	Constituent & Limits				
	Chlorides	Total TPH	GRO+DRO	BTEX	Benzene
<50' (Lack of GW Data)	600 mg/kg	100 mg/kg		50 mg/kg	10 mg/kg
51-100'	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

Reference Figure 2 for a Topographic Map.

Cotton Draw Unit 167 CTB | [Devon Energy](#)

**Release Information**

**NAPP2103458288:** On January 21, 2021, a line to the heater treater developed a leak causing a fluid to be released on the pad. The released fluids were calculated to be approximately 11.9 barrels (bbls) of produced water. A vacuum truck was able to recover approximately 10 bbls of standing fluid.

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

June 15, 2023, Pima mobilized personnel to the site to begin collecting soil samples from spill area. The laboratory results of this sampling event can be found in the following data table. A Site Map can be found in Figure 4.

6/15/23 Soil Sample Results

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is <50')								
DEVON ENERGY - COTTON DRAW UNIT 167								
Sample Date: 6/15/2023 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
S-1	1'	ND	ND	ND	ND	ND	0	345
	2'	ND	ND	ND	ND	ND	0	82.4
	3'	ND	ND	ND	ND	ND	0	32.1
	4'	ND	ND	ND	ND	ND	0	450
S-2	1'	ND	ND	ND	ND	ND	0	46.1
	2'	ND	ND	ND	ND	ND	0	60.2
	3'	ND	ND	ND	ND	ND	0	25.5
	4'	ND	ND	ND	ND	ND	0	452
S-3	1'	ND	ND	ND	ND	ND	0	1130
	2'	ND	ND	ND	ND	ND	0	20.1
	3'	ND	ND	ND	ND	ND	0	28.2
	4'	ND	ND	ND	ND	ND	0	469
S-4	1'	ND	ND	ND	ND	ND	0	1100
	2'	ND	ND	ND	ND	ND	0	ND
	3'	ND	ND	ND	ND	ND	0	35.6
	4'	ND	ND	ND	66.1	ND	66.1	490
SW 1	6"	ND	ND	ND	ND	ND	0	111
SW 2	6"	ND	ND	ND	ND	ND	0	130
SW 3	6"	ND	ND	ND	ND	ND	0	131
SW 4	6"	ND	ND	ND	ND	ND	0	178
BG 1	6"	ND	ND	ND	ND	ND	0	163

ND- Analyte Not Detected

On July 19, 2023, the Devon Construction Department mobilized personnel and equipment to begin immediate remediation activities. They began excavating the area to a depth of 2' BGS. The contaminated soil 28 cubic yards was hauled to an approved, lined disposal facility and clean backfill material was brought in.

On July 24, 2023, after sending a 48-hour notification (Appendix C), Pima returned to the site to collect confirmation samples of the excavation. The results of this sampling event can be found in the following table. A Confirmation Sample Map can be found in Figure 5.

7-24-23 Confirmation Sample Results

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is <50')								
DEVON ENERGY - COTTON DRAW UNIT 167								
Sample Date: 7/24/2023 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
CS 1 Bottoms	2'	ND	ND	ND	ND	ND	0	ND
CS 2 Bottoms	2'	ND	ND	ND	ND	ND	0	ND
CS 3 Bottoms	2'	ND	ND	ND	ND	ND	0	ND
CS 4 Bottoms	2'	ND	ND	ND	ND	ND	0	ND
CS 5 Bottoms	2'	ND	ND	ND	ND	ND	0	ND
CSW 1	2'	ND	ND	ND	ND	ND	0	ND
CSW 2	2'	ND	ND	ND	ND	ND	0	ND
CSW 3	2'	ND	ND	ND	ND	ND	0	ND
CSW 4	2'	ND	ND	ND	ND	ND	0	ND

ND- Analyte Not Detected

Complete laboratory reports can be found in Appendix E.

Based on the sample results, the bottoms and sidewalls were below NMOCD Closure Criteria 19.15.29 NMAC. The contaminated material was sufficiently removed then transported to an NMOCD approved disposal site. The excavation was then backfilled with clean like material, machine compacted and returned to its previous state. See Appendix D for Photographic Documentation.

**Closure Request**

After careful review, Pima requests that this incident, NAPP2103458288, 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 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
- 5- Confirmation Sample Map

Appendices:

- Appendix A – Referenced Water Surveys
- Appendix B – Soil Survey and Geological Data
- Appendix C – C-141 Form and 48 Hour Notification
- Appendix D – Photographic Documentation
- Appendix E – Laboratory Reports



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**Figures:**

1-Location Map

2-Topographic Map

3-Karst Map

4-Site Map



5-Confirmation Sample Map

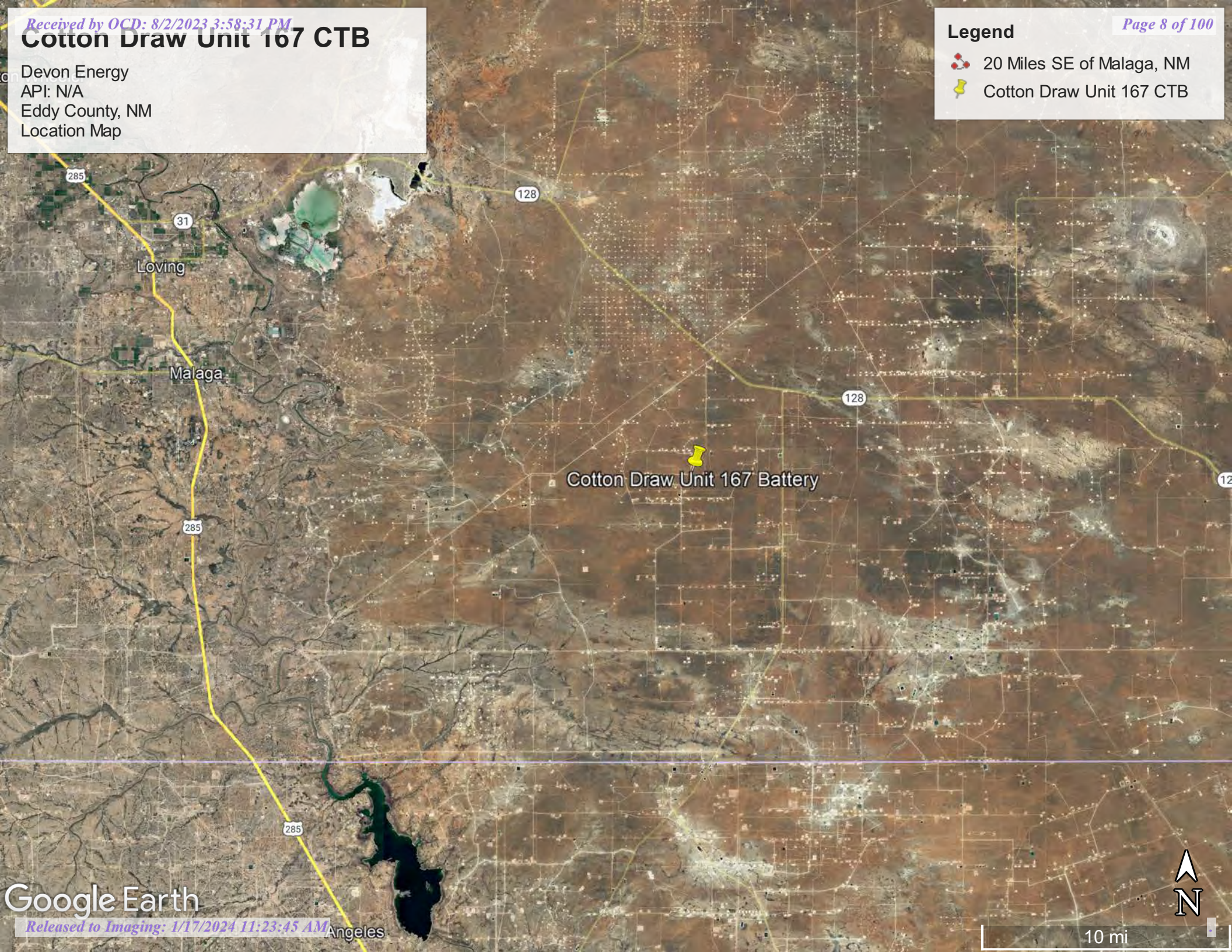


# Cotton Draw Unit 167 CTB

Devon Energy  
API: N/A  
Eddy County, NM  
Location Map

## Legend

-  20 Miles SE of Malaga, NM
-  Cotton Draw Unit 167 CTB



Cotton Draw Unit 167 Battery




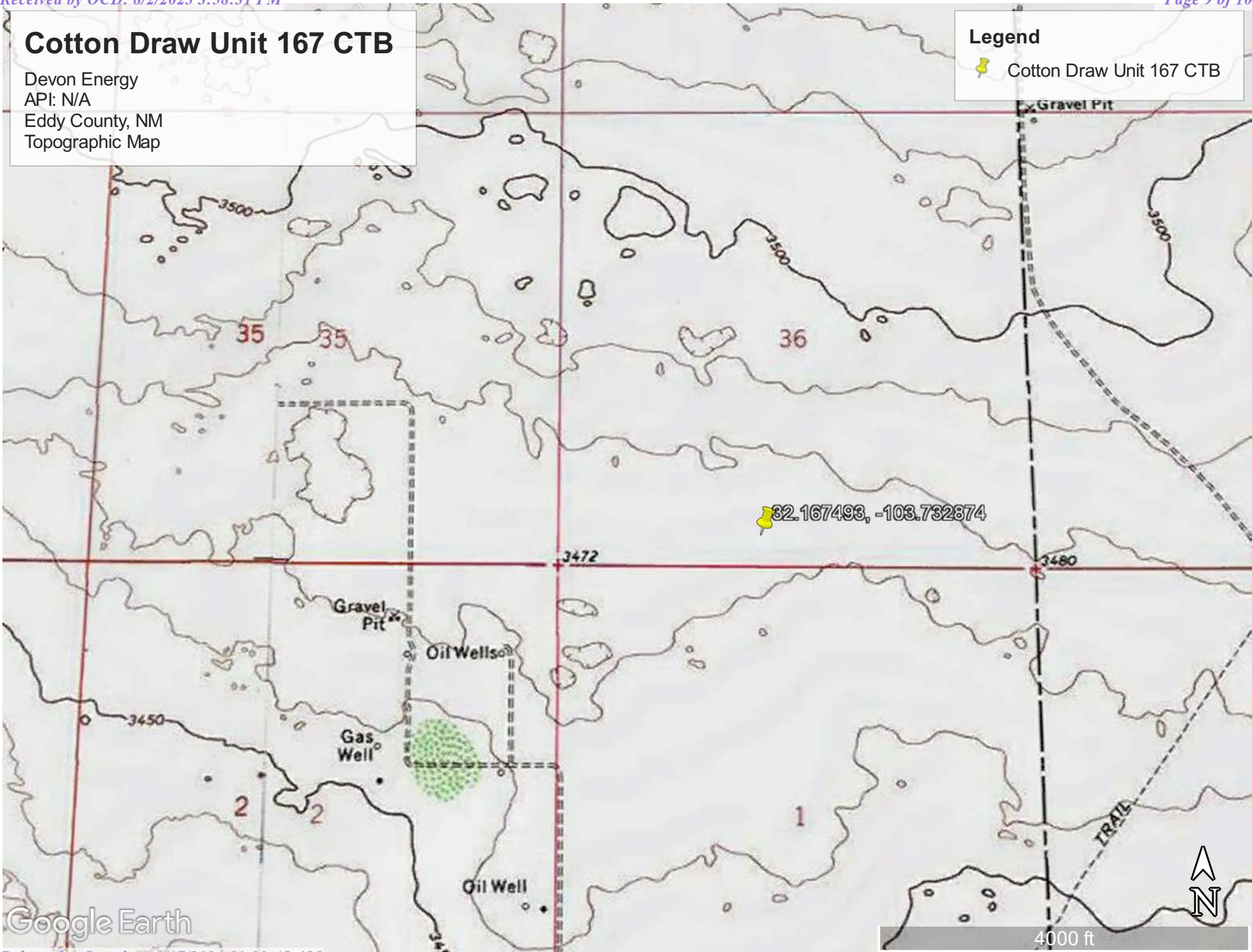


# Cotton Draw Unit 167 CTB

Devon Energy  
API: N/A  
Eddy County, NM  
Topographic Map

**Legend**

-  Cotton Draw Unit 167 CTB







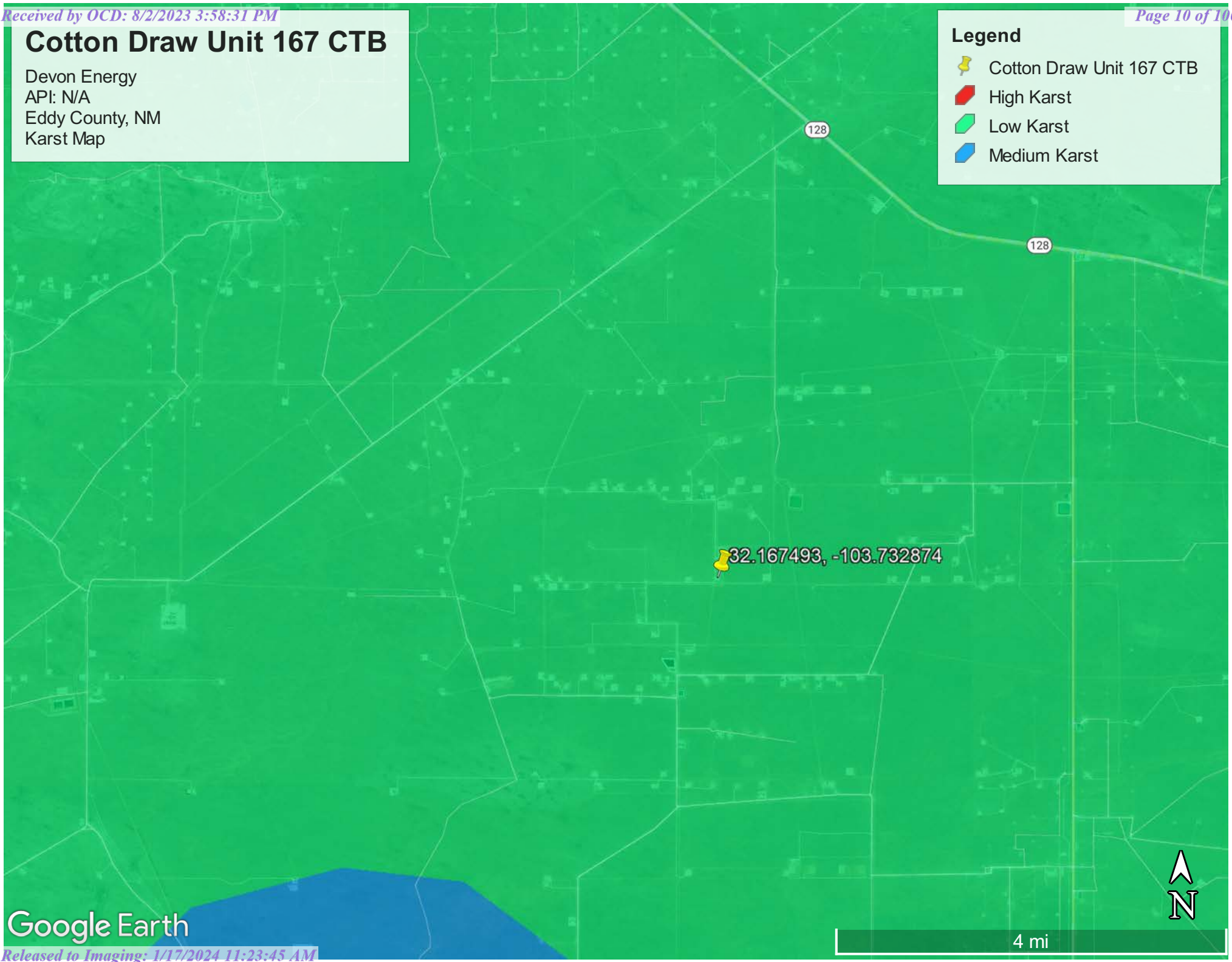
Google Earth

# Cotton Draw Unit 167 CTB

Devon Energy  
API: N/A  
Eddy County, NM  
Karst Map

**Legend**

-  Cotton Draw Unit 167 CTB
-  High Karst
-  Low Karst
-  Medium Karst



Google Earth



4 mi

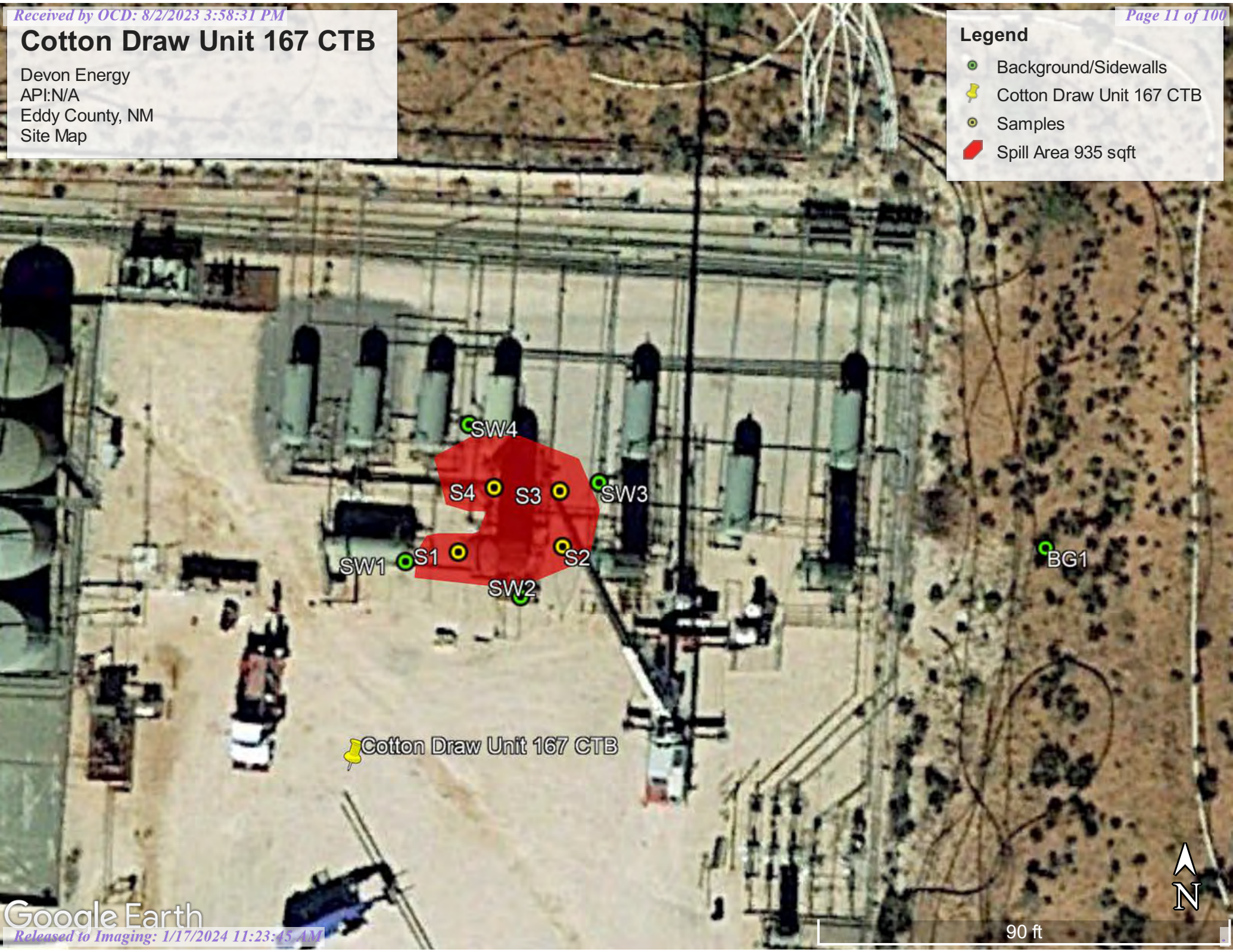


# Cotton Draw Unit 167 CTB

Devon Energy  
API:N/A  
Eddy County, NM  
Site Map

**Legend**

- Background/Sidewalls
- 📌 Cotton Draw Unit 167 CTB
- Samples
- Spill Area 935 sqft



SW4  
S4 S3 SW3  
SW1 S1 S2 SW2  
BG1

📌 Cotton Draw Unit 167 CTB





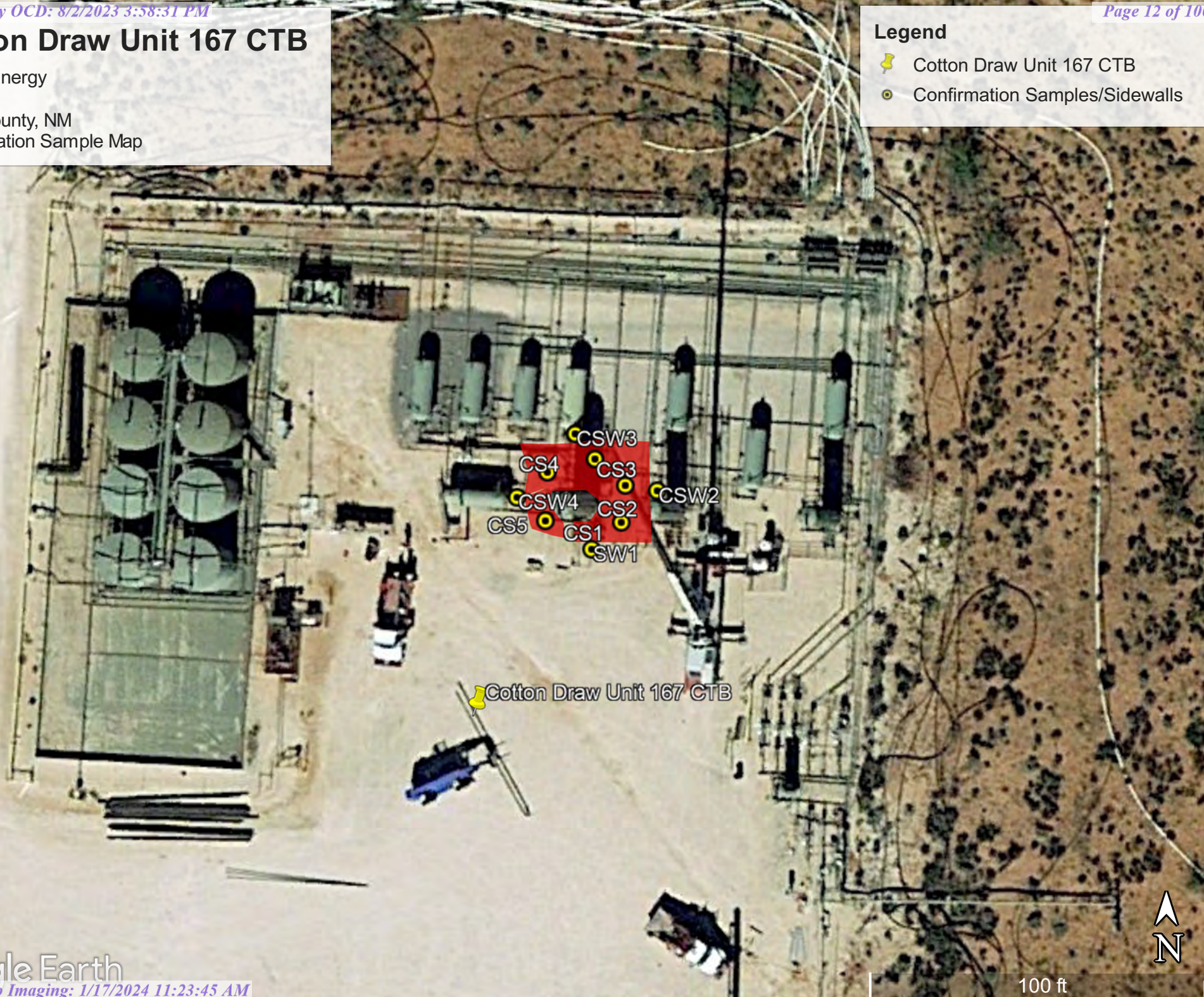


# Cotton Draw Unit 167 CTB

Devon Energy  
API:N/A  
Eddy County, NM  
Confirmation Sample Map

## Legend

-  Cotton Draw Unit 167 CTB
-  Confirmation Samples/Sidewalls



100 ft





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**Appendix A**

Water Surveys:

OSE

USGS

Surface Water Map



# New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

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

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

(quarters are 1=NW 2=NE 3=SW 4=SE)  
(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Q 32	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
<a href="#">C_02373</a>		CUB	LE	4	1	32	24S	34E			641979	3560916*	2165	600		
<a href="#">C_03942</a>	POD1	CUB	LE	3	1	2	35	24S	34E		647005	3561246	3289	420	222	198
<a href="#">C_03943</a>	POD1	CUB	LE	2	4	2	21	24S	34E		644523	3564266	4282	610	431	179
<a href="#">C_02315</a>		CUB	LE	2	4	2	15	25S	34E		646095	3556194	4386	175	135	40
<a href="#">C_02314</a>		CUB	LE	2	4	2	15	25S	34E		646116	3556179	4410	175	135	40
<a href="#">C_02401</a>		CUB	LE	2	2	1	01	25S	34E		648534	3559896*	4584	275	260	15
<a href="#">C_04042</a>	POD1	CUB	LE	2	1	4	36	24S	34E		648539	3561545	4833			

Average Depth to Water: **236 feet**  
 Minimum Depth: **135 feet**  
 Maximum Depth: **431 feet**

**Record Count:** 7

**UTMNAD83 Radius Search (in meters):**

**Easting (X):** 643951.7      **Northing (Y):** 3560021.9      **Radius:** 5000

\*UTM location was derived from PLSS - see Help

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

8/1/23 10:05 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER



USGS Home  
Contact USGS  
Search USGS

## National Water Information System: Web Interface

USGS Water Resources

Data Category:  Geographic Area:

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.
- [Full News](#)

Groundwater levels for the Nation

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

### Search Results -- 1 sites found

site\_no list = 

- 320952103444401

Minimum number of levels = 1

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

### USGS 320952103444401 25S.31E.02.214411

Available data for this site

Eddy County, New Mexico

Hydrologic Unit Code 13070001

Latitude 32°09'50.0", Longitude 103°44'41.2" NAD83

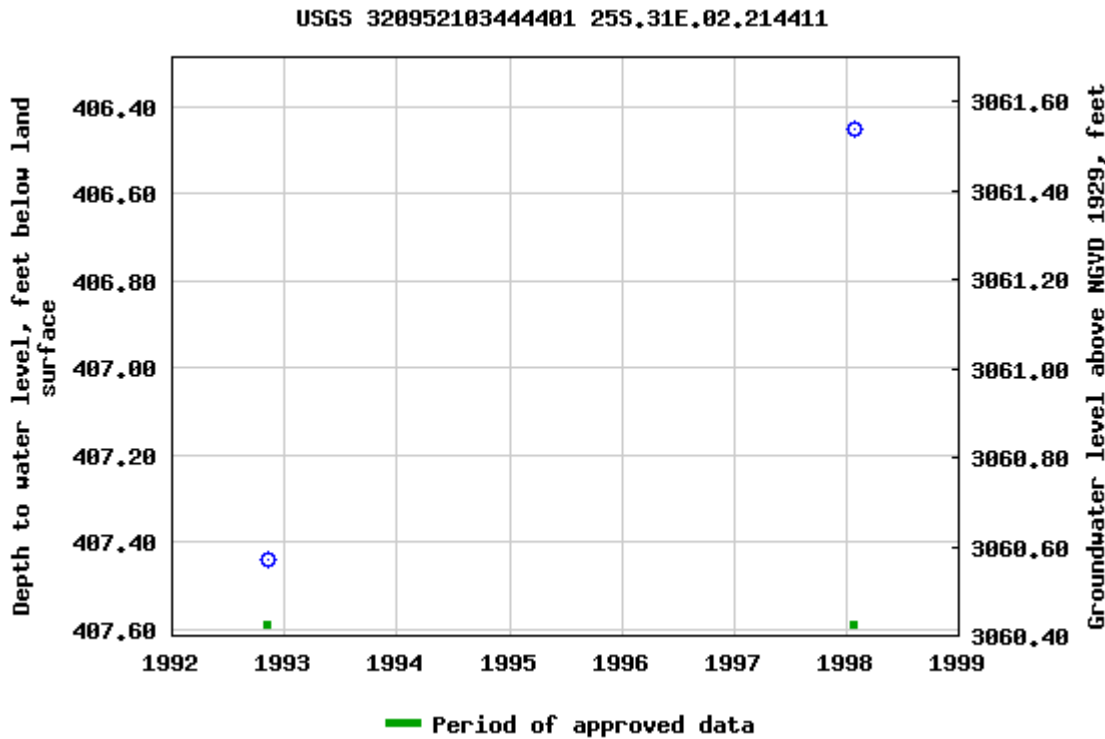
Land-surface elevation 3,468.0 feet above NGVD29

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

This well is completed in the Azotea Tongue of Seven Rivers Formation (313AZOT) local aquifer.

### Output formats

<a href="#">Table of data</a>
<a href="#">Tab-separated data</a>
<a href="#">Graph of data</a>
<a href="#">Reselect period</a>



Breaks in the plot represent a gap of at least one year between field measurements.

[Download a presentation-quality graph](#)

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[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: 2022-09-23 15:30:27 EDT



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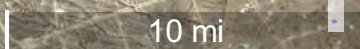
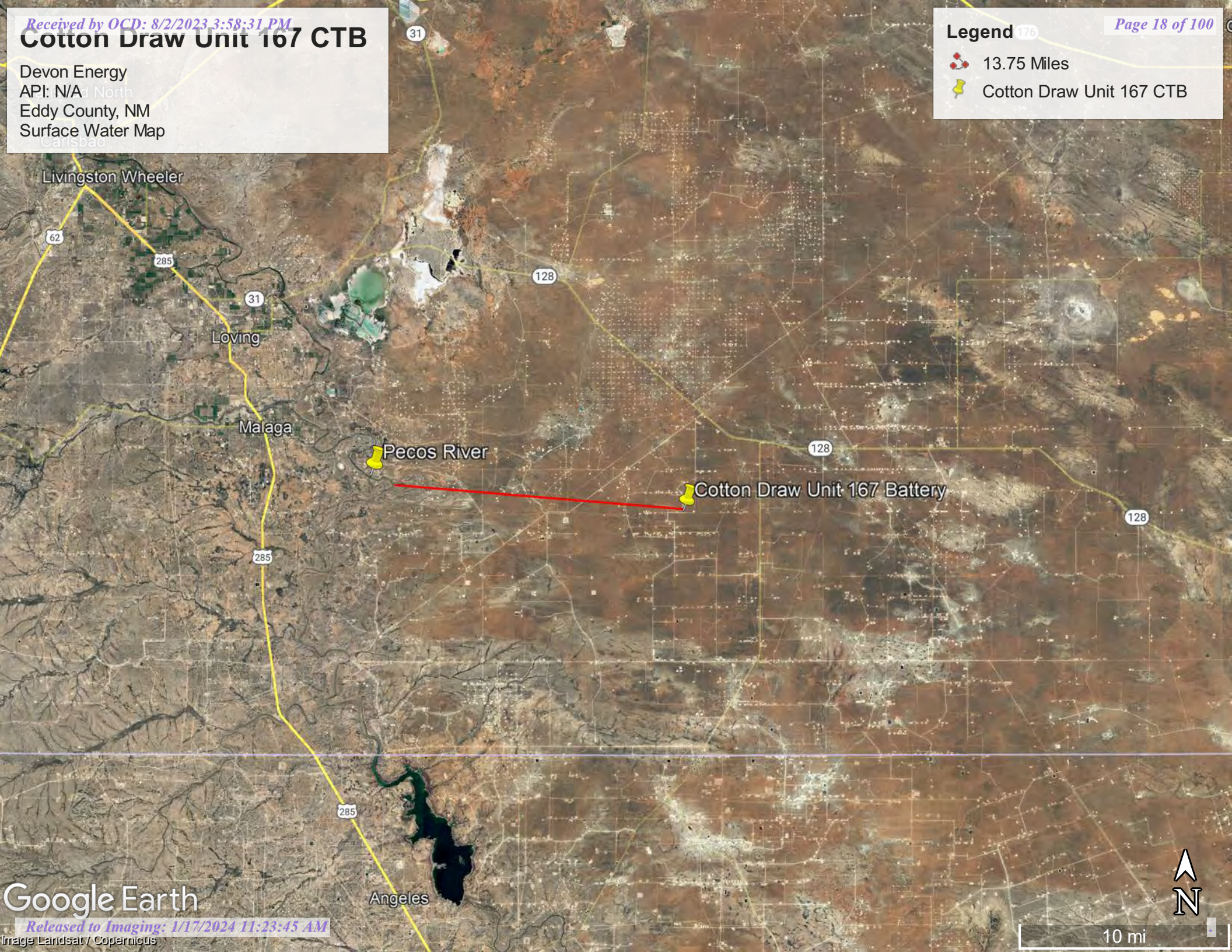


# Cotton Draw Unit 167 CTB

Devon Energy  
API: N/A North  
Eddy County, NM  
Surface Water Map

## Legend

-  13.75 Miles
-  Cotton Draw Unit 167 CTB







Pima Environmental Services

**Appendix B**

Soil Survey & Geological Data

FEMA Flood Map

Wetlands Map

Map Unit Description: Berino complex, 0 to 3 percent slopes, eroded---Eddy Area, New Mexico

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## Eddy Area, New Mexico

### BB—Berino complex, 0 to 3 percent slopes, eroded

#### Map Unit Setting

*National map unit symbol:* 1w43

*Elevation:* 2,000 to 5,700 feet

*Mean annual precipitation:* 5 to 15 inches

*Mean annual air temperature:* 57 to 70 degrees F

*Frost-free period:* 180 to 260 days

*Farmland classification:* Not prime farmland

#### Map Unit Composition

*Berino and similar soils:* 60 percent

*Pajarito and similar soils:* 25 percent

*Minor components:* 15 percent

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

#### Description of Berino

##### Setting

*Landform:* Plains, fan piedmonts

*Landform position (three-dimensional):* Riser

*Down-slope shape:* Convex

*Across-slope shape:* Linear

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

##### Typical profile

*H1 - 0 to 17 inches:* fine sand

*H2 - 17 to 58 inches:* sandy clay loam

*H3 - 58 to 60 inches:* loamy sand

##### Properties and qualities

*Slope:* 0 to 3 percent

*Depth to restrictive feature:* More than 80 inches

*Drainage class:* Well drained

*Runoff class:* Low

*Capacity of the most limiting layer to transmit water*

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

*Depth to water table:* More than 80 inches

*Frequency of flooding:* None

*Frequency of ponding:* None

*Calcium carbonate, maximum content:* 40 percent

*Maximum salinity:* Very slightly saline to slightly saline (2.0 to 4.0 mmhos/cm)

*Sodium adsorption ratio, maximum:* 1.0

*Available water supply, 0 to 60 inches:* Moderate (about 8.0 inches)

##### Interpretive groups

*Land capability classification (irrigated):* None specified



Map Unit Description: Berino complex, 0 to 3 percent slopes, eroded---Eddy Area, New Mexico

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*Land capability classification (nonirrigated): 7e*  
*Hydrologic Soil Group: B*  
*Ecological site: R042XC003NM - Loamy Sand*  
*Hydric soil rating: No*

### Description of Pajarito

#### Setting

*Landform: Dunes, plains, interdunes*  
*Landform position (three-dimensional): Side slope*  
*Down-slope shape: Convex, linear*  
*Across-slope shape: Convex, linear*  
*Parent material: Mixed alluvium and/or eolian sands*

#### Typical profile

*H1 - 0 to 9 inches: loamy fine sand*  
*H2 - 9 to 72 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: Very low*  
*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: 40 percent*  
*Maximum salinity: Nonsaline (0.0 to 1.0 mmhos/cm)*  
*Sodium adsorption ratio, maximum: 1.0*  
*Available water supply, 0 to 60 inches: Moderate (about 8.0 inches)*

#### Interpretive groups

*Land capability classification (irrigated): 2e*  
*Land capability classification (nonirrigated): 7e*  
*Hydrologic Soil Group: A*  
*Ecological site: R042XC003NM - Loamy Sand*  
*Hydric soil rating: No*

### Minor Components

#### Cacique

*Percent of map unit: 4 percent*  
*Ecological site: R042XC004NM - Sandy*  
*Hydric soil rating: No*

#### Wink

*Percent of map unit: 4 percent*  
*Ecological site: R042XC003NM - Loamy Sand*  
*Hydric soil rating: No*

#### Pajarito

*Percent of map unit: 4 percent*

Map Unit Description: Berino complex, 0 to 3 percent slopes, eroded---Eddy Area, New Mexico

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*Ecological site:* R042XC003NM - Loamy Sand  
*Hydric soil rating:* No

**Kermit**

*Percent of map unit:* 3 percent  
*Ecological site:* R042XC005NM - Deep Sand  
*Hydric soil rating:* No

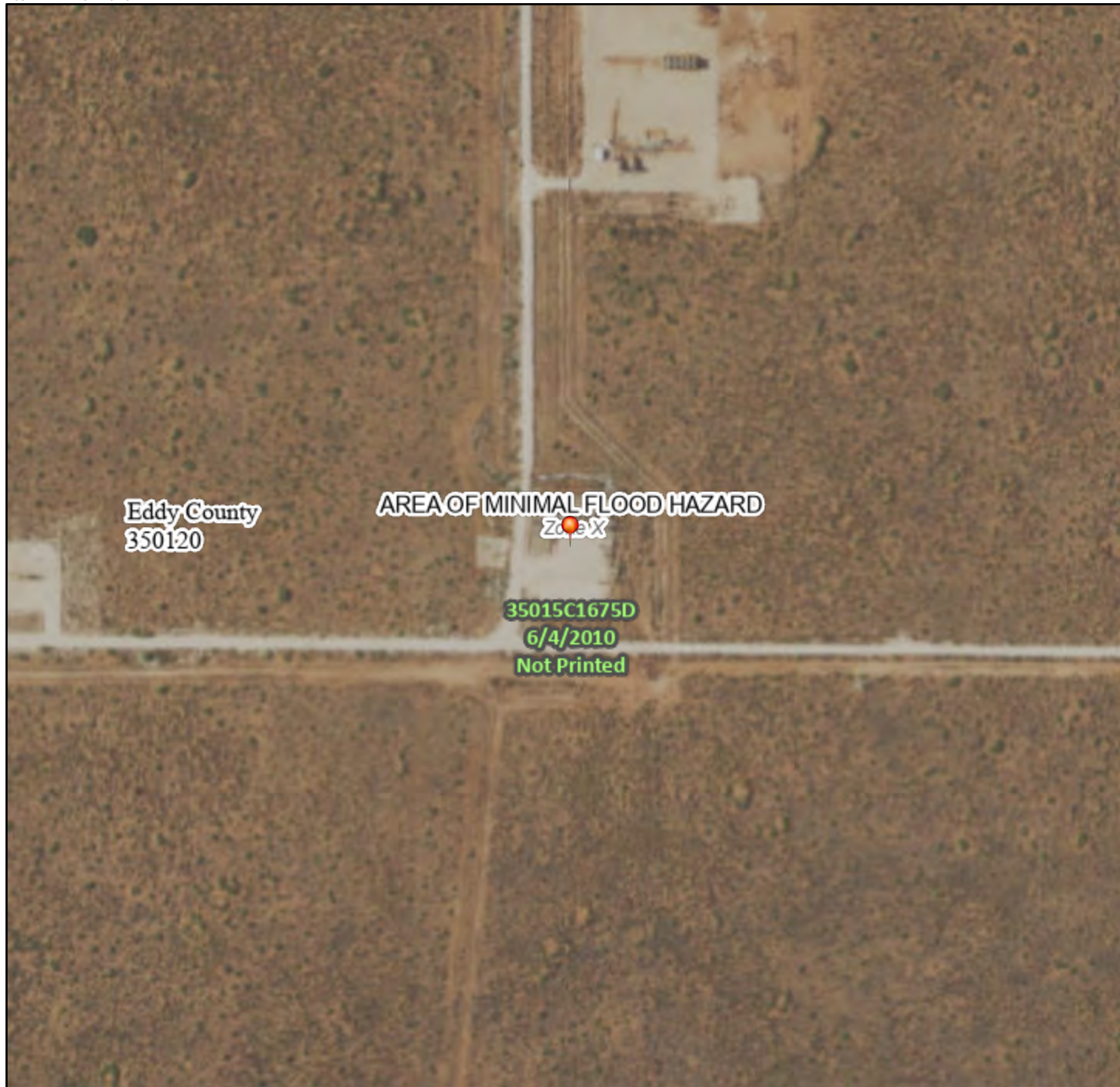
## Data Source Information

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

# National Flood Hazard Layer FIRMette



103°44'17"W 32°10'18"N



## Legend

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

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) <i>Zone A, V, A99</i>
		With BFE or Depth <i>Zone AE, AO, AH, VE, AR</i>
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 <i>Zone X</i>
		Future Conditions 1% Annual Chance Flood Hazard <i>Zone X</i>
		Area with Reduced Flood Risk due to Levee. See Notes. <i>Zone X</i>
		Area with Flood Risk due to Levee <i>Zone D</i>
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard <i>Zone X</i>
		Effective LOMRs
GENERAL STRUCTURES		Area of Undetermined Flood Hazard <i>Zone D</i>
		Channel, Culvert, or Storm Sewer
OTHER FEATURES		Levee, Dike, or Floodwall
		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5 Cross Sections with 1% Annual Chance Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
MAP PANELS		Profile Baseline
		Hydrographic Feature
		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.







# Wetlands Map



August 1, 2023

### Wetlands

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





Pima Environmental Services

**Appendix C**

C-141 Form

48-Hour Notification

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

State of New Mexico  
Energy Minerals and Natural  
Resources Department

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

Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Incident ID	NAPP2103458288
District RP	
Facility ID	
Application ID	

## Release Notification

### Responsible Party

Responsible Party Devon Energy Production Company	OGRID 6137
Contact Name Amanda Davis	Contact Telephone 575-748-0176
Contact email Amanda.Davis@dvn.com	Incident # (assigned by OCD)
Contact mailing address 6488 Seven Rivers Hwy Artesia, NM 88210	

### Location of Release Source

Latitude 32.167493 Longitude -103.732874  
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Cotton Draw Unit 167 CTB	Site Type Oil
Date Release Discovered 1/21/2021	API# (if applicable)

Unit Letter	Section	Township	Range	County
N	36	24S	31E	Eddy

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

### Nature and Volume of Release

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

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 11.9 BBLS	Volume Recovered (bbls) 10 BBLS
	Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release The line to the heater treater developed a leak. All fluid stayed on location.

Incident ID	NAPP2103458288
District RP	
Facility ID	
Application ID	

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

### Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.
If all the actions described above have <u>not</u> been undertaken, explain why:
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.
Printed Name: <u>Kendra DeHoyos</u> Title: <u>EHS Associate</u> Signature: <u><i>Kendra DeHoyos</i></u> Date: <u>2/3/2021</u> email: <u>Kendra.DeHoyos@dvn.com</u> Telephone: <u>575-748-0167</u>
<b><u>OCD Only</u></b> Received by: <u>Ramona Marcus</u> Date: <u>2/8/2021</u>

NAPP2103458288

<b>Spill Volume(Bbls) Calculator</b>	
<i>Inputs in blue, Outputs in red</i>	
Contaminated Soil measurement	
Area (square feet)	Depth(inches)
142.401	0.010
Cubic Feet of Soil Impacted	0.119
Barrels of Soil Impacted	0.02
Soil Type	Sand
Barrels of Oil Assuming 100% Saturation	0.00
Saturation	Fluid present with shovel/backhoe
Estimated Barrels of Oil Released	0.00
Free Standing Fluid Only	
Area (square feet)	Depth(inches)
142.401	0.010
Standing fluid	0.021
<b>Total fluids spilled</b>	<b>0.025</b>

Contaminated Soil measurement	
Area (square feet)	Depth(inches)
292.856	0.250
Cubic Feet of Soil Impacted	6.101
Barrels of Soil Impacted	1.09
Soil Type	Clay/Sand
Barrels of Oil Assuming 100% Saturation	0.16
Saturation	Fluid present with shovel/backhoe
Estimated Barrels of Oil Released	0.16
Free Standing Fluid Only	
Area (square feet)	Depth(inches)
292.856	0.250
Standing fluid	1.088
<b>Total fluids spilled</b>	<b>1.251</b>



Spills In Lined Containment	
Measurements Of Standing Fluid	
Length(Ft)	60
Width(Ft)	16
Depth(in.)	0.75
Total Capacity without tank displacements (bbls)	10.69
No. of 500 bbl Tanks In Standing Fluid	
No. of Other Tanks In Standing Fluid	
OD Of Other Tanks In Standing Fluid(feet)	16
Total Volume of standing fluid accounting for tank displacement.	10.69

Incident ID	NAPP2103458288
District RP	
Facility ID	
Application ID	

## Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<50 (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

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

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Field data
- Data table of soil contaminant concentration data
- Depth to water determination
- Determination of water sources and significant watercourses within 1/2-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

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

Incident ID	NAPP2103458288
District RP	
Facility ID	
Application ID	

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

Printed Name: Dale Woodall Title: Environmental Professional

Signature: *Dale Woodall* Date: 8/2/2023

email: dale.woodall@dnv.com Telephone: 575-748-1838

**OCD Only**

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



State of New Mexico  
Oil Conservation Division

Page 6

Incident ID	NAPP2103458288
District RP	
Facility ID	
Application ID	

## Closure

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

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

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

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

Printed Name: Dale Woodall Title: Environmental Professional  
 Signature: *Dale Woodall* Date: 8/2/2023  
 email: dale.woodall@dvn.com Telephone: 575-748-1838

**OCD Only**

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

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

Printed Name: \_\_\_\_\_ Title: \_\_\_\_\_



Gio PimaOil <gio@pimaoil.com>

---

## Cotton Draw Unit 167 Battery - 48 Hour Notification

1 message

---

**sebastian@pimaoil.com** <sebastian@pimaoil.com>

Fri, Jul 21, 2023 at 2:07 PM

To: ocdonline@state.nm.us

Cc: tom@pimaoil.com, Polly@pimaoil.com, Gio PimaOil <gio@pimaoil.com>

Good afternoon,

Pima Environmental would like to notify you that we will be conducting a confirmation sampling event at the Cotton Draw Unit 167 Battery (NAPP2103458288), on Monday July 24, 2023. Pima personnel will be on location at 6 am. Thank you.

Respectfully,

Sebastian Orozco

Project Manager

5614 N Lovington Hwy,

Hobbs, NM 88240

[Sebastian@pimaoil.com](mailto:Sebastian@pimaoil.com)

619-721-4813 cell



Pima Environmental Services, LLC.



Pima Environmental Services

## **Appendix D**

Photographic Documentation





**SITE PHOTOGRAPHS  
DEVON ENERGY  
COTTON DRAW UNIT 167 BATTERY**

Site Assessment



+32.167624,-103.732877  
Cotton draw unit 167 Battery  
Assessment  
Devon



+32.169439,-103.732727  
Cotton draw unit 167 Battery  
Assessment  
Devon



+32.170326,-103.732689  
Cotton draw unit 167 Battery  
Assessment  
Devon



+32.168816,-103.732680  
Cotton draw unit 167 Battery  
Assessment  
Devon





Excavation



+32.167688,-103.732838  
Eddy County  
Devon  
Cotton Draw Unit 167 CTB  
Excavation

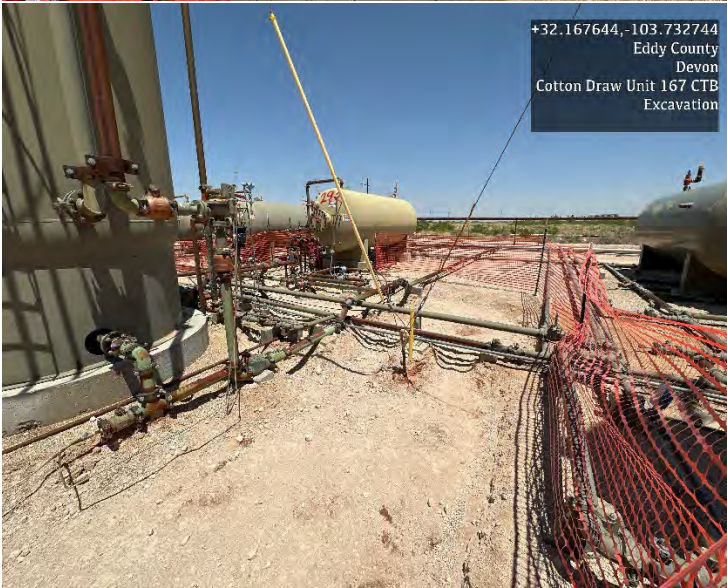
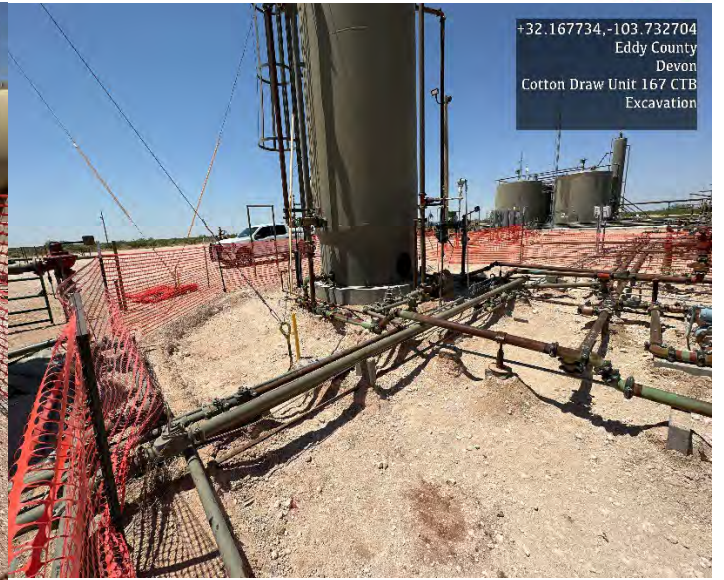
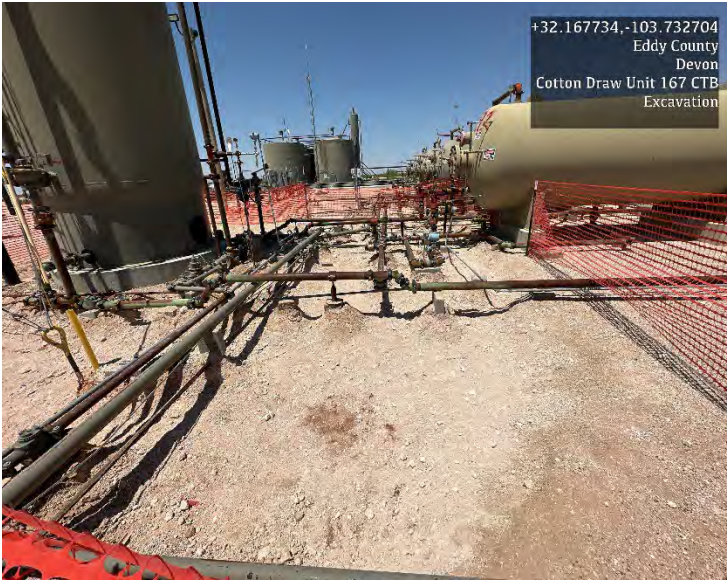
+32.167688,-103.732838  
Eddy County  
Devon  
Cotton Draw Unit 167 CTB  
Excavation



+32.167784,-103.732816  
Eddy County  
Devon  
Cotton Draw Unit 167 CTB  
Excavation

+32.167784,-103.732816  
Eddy County  
Devon  
Cotton Draw Unit 167 CTB  
Excavation









Post Excavation









Pima Environmental Services

**Appendix E**

Laboratory Reports



Report to:  
Tom Bynum



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

### Pima Environmental Services-Carlsbad

Project Name: Cotton Draw Unit 167

Work Order: E306145

Job Number: 01058-0007

Received: 6/19/2023

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
6/23/23



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: 6/23/23



Tom Bynum  
PO Box 247  
Plains, TX 79355-0247

Project Name: Cotton Draw Unit 167  
Workorder: E306145  
Date Received: 6/19/2023 8:00:00AM

Tom Bynum,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/19/2023 8:00:00AM, under the Project Name: Cotton Draw Unit 167.

The analytical test results summarized in this report with the Project Name: Cotton Draw Unit 167 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)

**Alexa Michaels**  
Sample Custody Officer  
Office: 505-632-1881  
[labadmin@envirotech-inc.com](mailto:labadmin@envirotech-inc.com)

Field Offices:

**Southern New Mexico Area**  
**Lynn Jarboe**  
Technical Representative/Client Services  
Office: 505-421-LABS(5227)  
Cell: 505-320-4759  
[ljjarboe@envirotech-inc.com](mailto:ljjarboe@envirotech-inc.com)

**West Texas Midland/Odessa Area**  
**Rayny Hagan**  
Technical Representative  
Office: 505-421-LABS(5227)

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

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### Sample Summary

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Cotton Draw Unit 167 Project Number: 01058-0007 Project Manager: Tom Bynum	<b>Reported:</b> 06/23/23 09:19
-----------------------------------------------------------------------------	------------------------------------------------------------------------------------------------	------------------------------------

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
S1 - 1'	E306145-01A	Soil	06/15/23	06/19/23	Glass Jar, 10 oz.
S1 - 2'	E306145-02A	Soil	06/15/23	06/19/23	Glass Jar, 10 oz.
S1 - 3'	E306145-03A	Soil	06/15/23	06/19/23	Glass Jar, 10 oz.
S1 - 4'	E306145-04A	Soil	06/15/23	06/19/23	Glass Jar, 10 oz.
S2 - 1'	E306145-05A	Soil	06/15/23	06/19/23	Glass Jar, 10 oz.
S2 - 2'	E306145-06A	Soil	06/15/23	06/19/23	Glass Jar, 10 oz.
S2 - 3'	E306145-07A	Soil	06/15/23	06/19/23	Glass Jar, 10 oz.
S2 - 4'	E306145-08A	Soil	06/15/23	06/19/23	Glass Jar, 10 oz.
S3 - 1'	E306145-09A	Soil	06/15/23	06/19/23	Glass Jar, 10 oz.
S3 - 2'	E306145-10A	Soil	06/15/23	06/19/23	Glass Jar, 10 oz.
S3 - 3'	E306145-11A	Soil	06/15/23	06/19/23	Glass Jar, 10 oz.
S3 - 4'	E306145-12A	Soil	06/15/23	06/19/23	Glass Jar, 10 oz.
S4 - 1'	E306145-13A	Soil	06/15/23	06/19/23	Glass Jar, 10 oz.
S4 - 2'	E306145-14A	Soil	06/15/23	06/19/23	Glass Jar, 10 oz.
S4 - 3'	E306145-15A	Soil	06/15/23	06/19/23	Glass Jar, 10 oz.
S4 - 4'	E306145-16A	Soil	06/15/23	06/19/23	Glass Jar, 10 oz.
SW1	E306145-17A	Soil	06/15/23	06/19/23	Glass Jar, 10 oz.
SW2	E306145-18A	Soil	06/15/23	06/19/23	Glass Jar, 10 oz.
SW3	E306145-19A	Soil	06/15/23	06/19/23	Glass Jar, 10 oz.
SW4	E306145-20A	Soil	06/15/23	06/19/23	Glass Jar, 10 oz.
BG1	E306145-21A	Soil	06/15/23	06/19/23	Glass Jar, 10 oz.



### Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Cotton Draw Unit 167 Project Number: 01058-0007 Project Manager: Tom Bynum	<b>Reported:</b> 6/23/2023 9:19:07AM
-----------------------------------------------------------------------------	------------------------------------------------------------------------------------------------	-----------------------------------------

S1 - 1'

E306145-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2325016
Benzene	ND	0.0250	1	06/19/23	06/20/23	
Ethylbenzene	ND	0.0250	1	06/19/23	06/20/23	
Toluene	ND	0.0250	1	06/19/23	06/20/23	
o-Xylene	ND	0.0250	1	06/19/23	06/20/23	
p,m-Xylene	ND	0.0500	1	06/19/23	06/20/23	
Total Xylenes	ND	0.0250	1	06/19/23	06/20/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		93.9 %	70-130	06/19/23	06/20/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2325016
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/19/23	06/20/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		87.8 %	70-130	06/19/23	06/20/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2325024
Diesel Range Organics (C10-C28)	ND	25.0	1	06/20/23	06/21/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/20/23	06/21/23	
<i>Surrogate: n-Nonane</i>		80.4 %	50-200	06/20/23	06/21/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2325027
Chloride	345	40.0	2	06/20/23	06/20/23	





### Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Cotton Draw Unit 167 Project Number: 01058-0007 Project Manager: Tom Bynum	<b>Reported:</b> 6/23/2023 9:19:07AM
-----------------------------------------------------------------------------	------------------------------------------------------------------------------------------------	-----------------------------------------

S1 - 2'

E306145-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2325016
Benzene	ND	0.0250	1	06/19/23	06/20/23	
Ethylbenzene	ND	0.0250	1	06/19/23	06/20/23	
Toluene	ND	0.0250	1	06/19/23	06/20/23	
o-Xylene	ND	0.0250	1	06/19/23	06/20/23	
p,m-Xylene	ND	0.0500	1	06/19/23	06/20/23	
Total Xylenes	ND	0.0250	1	06/19/23	06/20/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		93.8 %	70-130	06/19/23	06/20/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2325016
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/19/23	06/20/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		89.2 %	70-130	06/19/23	06/20/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: KM		Batch: 2325024
Diesel Range Organics (C10-C28)	ND	25.0	1	06/20/23	06/21/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/20/23	06/21/23	
<i>Surrogate: n-Nonane</i>		79.5 %	50-200	06/20/23	06/21/23	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2325027
Chloride	82.4	20.0	1	06/20/23	06/20/23	



### Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Cotton Draw Unit 167 Project Number: 01058-0007 Project Manager: Tom Bynum	<b>Reported:</b> 6/23/2023 9:19:07AM
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S1 - 3'

E306145-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2325016
Benzene	ND	0.0250	1	06/19/23	06/20/23	
Ethylbenzene	ND	0.0250	1	06/19/23	06/20/23	
Toluene	ND	0.0250	1	06/19/23	06/20/23	
o-Xylene	ND	0.0250	1	06/19/23	06/20/23	
p,m-Xylene	ND	0.0500	1	06/19/23	06/20/23	
Total Xylenes	ND	0.0250	1	06/19/23	06/20/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		92.9 %	70-130	06/19/23	06/20/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2325016
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/19/23	06/20/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		89.6 %	70-130	06/19/23	06/20/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: KM		Batch: 2325024
Diesel Range Organics (C10-C28)	ND	25.0	1	06/20/23	06/21/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/20/23	06/21/23	
<i>Surrogate: n-Nonane</i>		80.5 %	50-200	06/20/23	06/21/23	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2325027
Chloride	32.1	20.0	1	06/20/23	06/20/23	



### Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Cotton Draw Unit 167 Project Number: 01058-0007 Project Manager: Tom Bynum	<b>Reported:</b> 6/23/2023 9:19:07AM
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S1 - 4'

E306145-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2325016
Benzene	ND	0.0250	1	06/19/23	06/20/23	
Ethylbenzene	ND	0.0250	1	06/19/23	06/20/23	
Toluene	ND	0.0250	1	06/19/23	06/20/23	
o-Xylene	ND	0.0250	1	06/19/23	06/20/23	
p,m-Xylene	ND	0.0500	1	06/19/23	06/20/23	
Total Xylenes	ND	0.0250	1	06/19/23	06/20/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		94.3 %	70-130	06/19/23	06/20/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2325016
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/19/23	06/20/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		90.2 %	70-130	06/19/23	06/20/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: KM		Batch: 2325024
Diesel Range Organics (C10-C28)	ND	25.0	1	06/20/23	06/21/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/20/23	06/21/23	
<i>Surrogate: n-Nonane</i>		79.8 %	50-200	06/20/23	06/21/23	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2325027
Chloride	450	20.0	1	06/20/23	06/20/23	



### Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Cotton Draw Unit 167 Project Number: 01058-0007 Project Manager: Tom Bynum	<b>Reported:</b> 6/23/2023 9:19:07AM
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S2 - 1'

E306145-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2325016
Benzene	ND	0.0250	1	06/19/23	06/20/23	
Ethylbenzene	ND	0.0250	1	06/19/23	06/20/23	
Toluene	ND	0.0250	1	06/19/23	06/20/23	
o-Xylene	ND	0.0250	1	06/19/23	06/20/23	
p,m-Xylene	ND	0.0500	1	06/19/23	06/20/23	
Total Xylenes	ND	0.0250	1	06/19/23	06/20/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		93.3 %	70-130	06/19/23	06/20/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2325016
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/19/23	06/20/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		89.7 %	70-130	06/19/23	06/20/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: KM		Batch: 2325024
Diesel Range Organics (C10-C28)	ND	25.0	1	06/20/23	06/21/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/20/23	06/21/23	
<i>Surrogate: n-Nonane</i>		74.9 %	50-200	06/20/23	06/21/23	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2325027
Chloride	46.1	40.0	2	06/20/23	06/20/23	





### Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Cotton Draw Unit 167 Project Number: 01058-0007 Project Manager: Tom Bynum	<b>Reported:</b> 6/23/2023 9:19:07AM
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S2 - 2'

E306145-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2325016
Benzene	ND	0.0250	1	06/19/23	06/20/23	
Ethylbenzene	ND	0.0250	1	06/19/23	06/20/23	
Toluene	ND	0.0250	1	06/19/23	06/20/23	
o-Xylene	ND	0.0250	1	06/19/23	06/20/23	
p,m-Xylene	ND	0.0500	1	06/19/23	06/20/23	
Total Xylenes	ND	0.0250	1	06/19/23	06/20/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		93.7 %	70-130	06/19/23	06/20/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2325016
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/19/23	06/20/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		90.3 %	70-130	06/19/23	06/20/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: KM		Batch: 2325024
Diesel Range Organics (C10-C28)	ND	25.0	1	06/20/23	06/21/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/20/23	06/21/23	
<i>Surrogate: n-Nonane</i>		77.2 %	50-200	06/20/23	06/21/23	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2325027
Chloride	60.2	20.0	1	06/20/23	06/20/23	



### Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Cotton Draw Unit 167 Project Number: 01058-0007 Project Manager: Tom Bynum	<b>Reported:</b> 6/23/2023 9:19:07AM
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S2 - 3'

E306145-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2325016
Benzene	ND	0.0250	1	06/19/23	06/20/23	
Ethylbenzene	ND	0.0250	1	06/19/23	06/20/23	
Toluene	ND	0.0250	1	06/19/23	06/20/23	
o-Xylene	ND	0.0250	1	06/19/23	06/20/23	
p,m-Xylene	ND	0.0500	1	06/19/23	06/20/23	
Total Xylenes	ND	0.0250	1	06/19/23	06/20/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		93.3 %	70-130	06/19/23	06/20/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2325016
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/19/23	06/20/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		90.8 %	70-130	06/19/23	06/20/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: KM		Batch: 2325024
Diesel Range Organics (C10-C28)	ND	25.0	1	06/20/23	06/21/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/20/23	06/21/23	
<i>Surrogate: n-Nonane</i>		72.5 %	50-200	06/20/23	06/21/23	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2325027
Chloride	25.5	20.0	1	06/20/23	06/20/23	



### Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Cotton Draw Unit 167 Project Number: 01058-0007 Project Manager: Tom Bynum	<b>Reported:</b> 6/23/2023 9:19:07AM
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S2 - 4'

E306145-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2325016
Benzene	ND	0.0250	1	06/19/23	06/20/23	
Ethylbenzene	ND	0.0250	1	06/19/23	06/20/23	
Toluene	ND	0.0250	1	06/19/23	06/20/23	
o-Xylene	ND	0.0250	1	06/19/23	06/20/23	
p,m-Xylene	ND	0.0500	1	06/19/23	06/20/23	
Total Xylenes	ND	0.0250	1	06/19/23	06/20/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		94.3 %	70-130	06/19/23	06/20/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2325016
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/19/23	06/20/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		87.9 %	70-130	06/19/23	06/20/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: KM		Batch: 2325024
Diesel Range Organics (C10-C28)	ND	25.0	1	06/20/23	06/21/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/20/23	06/21/23	
<i>Surrogate: n-Nonane</i>		74.9 %	50-200	06/20/23	06/21/23	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2325027
Chloride	452	20.0	1	06/20/23	06/20/23	



### Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Cotton Draw Unit 167 Project Number: 01058-0007 Project Manager: Tom Bynum	<b>Reported:</b> 6/23/2023 9:19:07AM
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S3 - 1'

E306145-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2325016
Benzene	ND	0.0250	1	06/19/23	06/20/23	
Ethylbenzene	ND	0.0250	1	06/19/23	06/20/23	
Toluene	ND	0.0250	1	06/19/23	06/20/23	
o-Xylene	ND	0.0250	1	06/19/23	06/20/23	
p,m-Xylene	ND	0.0500	1	06/19/23	06/20/23	
Total Xylenes	ND	0.0250	1	06/19/23	06/20/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		93.2 %	70-130	06/19/23	06/20/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2325016
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/19/23	06/20/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		89.9 %	70-130	06/19/23	06/20/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: KM		Batch: 2325024
Diesel Range Organics (C10-C28)	ND	25.0	1	06/20/23	06/22/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/20/23	06/22/23	
<i>Surrogate: n-Nonane</i>		72.8 %	50-200	06/20/23	06/22/23	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2325027
Chloride	1130	20.0	1	06/20/23	06/20/23	





### Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Cotton Draw Unit 167 Project Number: 01058-0007 Project Manager: Tom Bynum	<b>Reported:</b> 6/23/2023 9:19:07AM
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S3 - 2'

E306145-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2325016
Benzene	ND	0.0250	1	06/19/23	06/20/23	
Ethylbenzene	ND	0.0250	1	06/19/23	06/20/23	
Toluene	ND	0.0250	1	06/19/23	06/20/23	
o-Xylene	ND	0.0250	1	06/19/23	06/20/23	
p,m-Xylene	ND	0.0500	1	06/19/23	06/20/23	
Total Xylenes	ND	0.0250	1	06/19/23	06/20/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		94.0 %	70-130	06/19/23	06/20/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2325016
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/19/23	06/20/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		89.0 %	70-130	06/19/23	06/20/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: KM		Batch: 2325024
Diesel Range Organics (C10-C28)	ND	25.0	1	06/20/23	06/22/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/20/23	06/22/23	
<i>Surrogate: n-Nonane</i>		66.6 %	50-200	06/20/23	06/22/23	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2325027
Chloride	20.1	20.0	1	06/20/23	06/20/23	



### Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Cotton Draw Unit 167 Project Number: 01058-0007 Project Manager: Tom Bynum	<b>Reported:</b> 6/23/2023 9:19:07AM
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**S3 - 3'**

**E306145-11**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2325016
Benzene	ND	0.0250	1	06/19/23	06/20/23	
Ethylbenzene	ND	0.0250	1	06/19/23	06/20/23	
Toluene	ND	0.0250	1	06/19/23	06/20/23	
o-Xylene	ND	0.0250	1	06/19/23	06/20/23	
p,m-Xylene	ND	0.0500	1	06/19/23	06/20/23	
Total Xylenes	ND	0.0250	1	06/19/23	06/20/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		94.7 %	70-130	06/19/23	06/20/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2325016
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/19/23	06/20/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		87.8 %	70-130	06/19/23	06/20/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: KM		Batch: 2325024
Diesel Range Organics (C10-C28)	ND	25.0	1	06/20/23	06/22/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/20/23	06/22/23	
<i>Surrogate: n-Nonane</i>		77.8 %	50-200	06/20/23	06/22/23	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2325027
Chloride	28.2	20.0	1	06/20/23	06/20/23	



### Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Cotton Draw Unit 167 Project Number: 01058-0007 Project Manager: Tom Bynum	<b>Reported:</b> 6/23/2023 9:19:07AM
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S3 - 4'

E306145-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2325016
Benzene	ND	0.0250	1	06/19/23	06/20/23	
Ethylbenzene	ND	0.0250	1	06/19/23	06/20/23	
Toluene	ND	0.0250	1	06/19/23	06/20/23	
o-Xylene	ND	0.0250	1	06/19/23	06/20/23	
p,m-Xylene	ND	0.0500	1	06/19/23	06/20/23	
Total Xylenes	ND	0.0250	1	06/19/23	06/20/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		94.8 %	70-130	06/19/23	06/20/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2325016
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/19/23	06/20/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		88.0 %	70-130	06/19/23	06/20/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: KM		Batch: 2325024
Diesel Range Organics (C10-C28)	ND	25.0	1	06/20/23	06/22/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/20/23	06/22/23	
<i>Surrogate: n-Nonane</i>		79.8 %	50-200	06/20/23	06/22/23	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2325027
Chloride	469	20.0	1	06/20/23	06/20/23	





### Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Cotton Draw Unit 167 Project Number: 01058-0007 Project Manager: Tom Bynum	<b>Reported:</b> 6/23/2023 9:19:07AM
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S4 - 1'

E306145-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2325016
Benzene	ND	0.0250	1	06/19/23	06/20/23	
Ethylbenzene	ND	0.0250	1	06/19/23	06/20/23	
Toluene	ND	0.0250	1	06/19/23	06/20/23	
o-Xylene	ND	0.0250	1	06/19/23	06/20/23	
p,m-Xylene	ND	0.0500	1	06/19/23	06/20/23	
Total Xylenes	ND	0.0250	1	06/19/23	06/20/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		94.5 %	70-130	06/19/23	06/20/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2325016
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/19/23	06/20/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		89.0 %	70-130	06/19/23	06/20/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: KM		Batch: 2325024
Diesel Range Organics (C10-C28)	ND	25.0	1	06/20/23	06/22/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/20/23	06/22/23	
<i>Surrogate: n-Nonane</i>		74.0 %	50-200	06/20/23	06/22/23	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2325027
Chloride	1100	20.0	1	06/20/23	06/20/23	



### Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Cotton Draw Unit 167 Project Number: 01058-0007 Project Manager: Tom Bynum	<b>Reported:</b> 6/23/2023 9:19:07AM
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S4 - 2'

E306145-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2325016
Benzene	ND	0.0250	1	06/19/23	06/20/23	
Ethylbenzene	ND	0.0250	1	06/19/23	06/20/23	
Toluene	ND	0.0250	1	06/19/23	06/20/23	
o-Xylene	ND	0.0250	1	06/19/23	06/20/23	
p,m-Xylene	ND	0.0500	1	06/19/23	06/20/23	
Total Xylenes	ND	0.0250	1	06/19/23	06/20/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		93.7 %	70-130	06/19/23	06/20/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2325016
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/19/23	06/20/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		88.9 %	70-130	06/19/23	06/20/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: KM		Batch: 2325024
Diesel Range Organics (C10-C28)	ND	25.0	1	06/20/23	06/22/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/20/23	06/22/23	
<i>Surrogate: n-Nonane</i>		76.3 %	50-200	06/20/23	06/22/23	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2325027
Chloride	ND	20.0	1	06/20/23	06/20/23	



### Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Cotton Draw Unit 167 Project Number: 01058-0007 Project Manager: Tom Bynum	<b>Reported:</b> 6/23/2023 9:19:07AM
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S4 - 3'

E306145-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2325016
Benzene	ND	0.0250	1	06/19/23	06/20/23	
Ethylbenzene	ND	0.0250	1	06/19/23	06/20/23	
Toluene	ND	0.0250	1	06/19/23	06/20/23	
o-Xylene	ND	0.0250	1	06/19/23	06/20/23	
p,m-Xylene	ND	0.0500	1	06/19/23	06/20/23	
Total Xylenes	ND	0.0250	1	06/19/23	06/20/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		94.2 %	70-130	06/19/23	06/20/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2325016
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/19/23	06/20/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		90.4 %	70-130	06/19/23	06/20/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: KM		Batch: 2325024
Diesel Range Organics (C10-C28)	ND	25.0	1	06/20/23	06/22/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/20/23	06/22/23	
<i>Surrogate: n-Nonane</i>		82.0 %	50-200	06/20/23	06/22/23	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2325027
Chloride	35.6	20.0	1	06/20/23	06/20/23	



### Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Cotton Draw Unit 167 Project Number: 01058-0007 Project Manager: Tom Bynum	<b>Reported:</b> 6/23/2023 9:19:07AM
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S4 - 4'

E306145-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2325016
Benzene	ND	0.0250	1	06/19/23	06/20/23	
Ethylbenzene	ND	0.0250	1	06/19/23	06/20/23	
Toluene	ND	0.0250	1	06/19/23	06/20/23	
o-Xylene	ND	0.0250	1	06/19/23	06/20/23	
p,m-Xylene	ND	0.0500	1	06/19/23	06/20/23	
Total Xylenes	ND	0.0250	1	06/19/23	06/20/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		94.4 %	70-130	06/19/23	06/20/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2325016
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/19/23	06/20/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		89.0 %	70-130	06/19/23	06/20/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: KM		Batch: 2325024
Diesel Range Organics (C10-C28)	66.1	25.0	1	06/20/23	06/22/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/20/23	06/22/23	
<i>Surrogate: n-Nonane</i>		81.9 %	50-200	06/20/23	06/22/23	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2325027
Chloride	490	20.0	1	06/20/23	06/21/23	





### Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Cotton Draw Unit 167 Project Number: 01058-0007 Project Manager: Tom Bynum	<b>Reported:</b> 6/23/2023 9:19:07AM
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**SW1**

**E306145-17**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2325016
Benzene	ND	0.0250	1	06/19/23	06/20/23	
Ethylbenzene	ND	0.0250	1	06/19/23	06/20/23	
Toluene	ND	0.0250	1	06/19/23	06/20/23	
o-Xylene	ND	0.0250	1	06/19/23	06/20/23	
p,m-Xylene	ND	0.0500	1	06/19/23	06/20/23	
Total Xylenes	ND	0.0250	1	06/19/23	06/20/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		94.6 %	70-130	06/19/23	06/20/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2325016
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/19/23	06/20/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		90.8 %	70-130	06/19/23	06/20/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2325024
Diesel Range Organics (C10-C28)	ND	25.0	1	06/20/23	06/22/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/20/23	06/22/23	
<i>Surrogate: n-Nonane</i>						
		92.5 %	50-200	06/20/23	06/22/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2325027
Chloride	111	20.0	1	06/20/23	06/21/23	



### Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Cotton Draw Unit 167 Project Number: 01058-0007 Project Manager: Tom Bynum	<b>Reported:</b> 6/23/2023 9:19:07AM
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**SW2**

**E306145-18**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2325016
Benzene	ND	0.0250	1	06/19/23	06/20/23	
Ethylbenzene	ND	0.0250	1	06/19/23	06/20/23	
Toluene	ND	0.0250	1	06/19/23	06/20/23	
o-Xylene	ND	0.0250	1	06/19/23	06/20/23	
p,m-Xylene	ND	0.0500	1	06/19/23	06/20/23	
Total Xylenes	ND	0.0250	1	06/19/23	06/20/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		95.5 %	70-130	06/19/23	06/20/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2325016
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/19/23	06/20/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		89.8 %	70-130	06/19/23	06/20/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: KM		Batch: 2325024
Diesel Range Organics (C10-C28)	ND	25.0	1	06/20/23	06/22/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/20/23	06/22/23	
<i>Surrogate: n-Nonane</i>		86.9 %	50-200	06/20/23	06/22/23	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2325027
Chloride	130	20.0	1	06/20/23	06/21/23	



### Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Cotton Draw Unit 167 Project Number: 01058-0007 Project Manager: Tom Bynum	<b>Reported:</b> 6/23/2023 9:19:07AM
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**SW3**

**E306145-19**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2325016
Benzene	ND	0.0250	1	06/19/23	06/20/23	
Ethylbenzene	ND	0.0250	1	06/19/23	06/20/23	
Toluene	ND	0.0250	1	06/19/23	06/20/23	
o-Xylene	ND	0.0250	1	06/19/23	06/20/23	
p,m-Xylene	ND	0.0500	1	06/19/23	06/20/23	
Total Xylenes	ND	0.0250	1	06/19/23	06/20/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		95.2 %	70-130	06/19/23	06/20/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2325016
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/19/23	06/20/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		89.4 %	70-130	06/19/23	06/20/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: KM		Batch: 2325024
Diesel Range Organics (C10-C28)	ND	25.0	1	06/20/23	06/22/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/20/23	06/22/23	
<i>Surrogate: n-Nonane</i>		87.6 %	50-200	06/20/23	06/22/23	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2325027
Chloride	131	20.0	1	06/20/23	06/21/23	



### Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Cotton Draw Unit 167 Project Number: 01058-0007 Project Manager: Tom Bynum	<b>Reported:</b> 6/23/2023 9:19:07AM
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**SW4**

**E306145-20**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2325016
Benzene	ND	0.0250	1	06/19/23	06/20/23	
Ethylbenzene	ND	0.0250	1	06/19/23	06/20/23	
Toluene	ND	0.0250	1	06/19/23	06/20/23	
o-Xylene	ND	0.0250	1	06/19/23	06/20/23	
p,m-Xylene	ND	0.0500	1	06/19/23	06/20/23	
Total Xylenes	ND	0.0250	1	06/19/23	06/20/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		95.8 %	70-130	06/19/23	06/20/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2325016
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/19/23	06/20/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		89.6 %	70-130	06/19/23	06/20/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: KM		Batch: 2325024
Diesel Range Organics (C10-C28)	ND	25.0	1	06/20/23	06/22/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/20/23	06/22/23	
<i>Surrogate: n-Nonane</i>		85.6 %	50-200	06/20/23	06/22/23	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2325027
Chloride	178	20.0	1	06/20/23	06/21/23	





### Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Cotton Draw Unit 167 Project Number: 01058-0007 Project Manager: Tom Bynum	<b>Reported:</b> 6/23/2023 9:19:07AM
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**BG1**

**E306145-21**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2325010
Benzene	ND	0.0250	1	06/19/23	06/20/23	
Ethylbenzene	ND	0.0250	1	06/19/23	06/20/23	
Toluene	ND	0.0250	1	06/19/23	06/20/23	
o-Xylene	ND	0.0250	1	06/19/23	06/20/23	
p,m-Xylene	<b>0.0557</b>	0.0500	1	06/19/23	06/20/23	
Total Xylenes	<b>0.0557</b>	0.0250	1	06/19/23	06/20/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		96.5 %	70-130	06/19/23	06/20/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2325010
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/19/23	06/20/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		86.6 %	70-130	06/19/23	06/20/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: KM		Batch: 2325022
Diesel Range Organics (C10-C28)	ND	25.0	1	06/20/23	06/21/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/20/23	06/21/23	
<i>Surrogate: n-Nonane</i>		83.9 %	50-200	06/20/23	06/21/23	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2325025
Chloride	<b>163</b>	20.0	1	06/20/23	06/20/23	



### QC Summary Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Cotton Draw Unit 167 Project Number: 01058-0007 Project Manager: Tom Bynum	<b>Reported:</b> 6/23/2023 9:19:07AM
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#### Volatile Organics by EPA 8021B

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
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#### Blank (2325010-BLK1)

Prepared: 06/19/23 Analyzed: 06/20/23

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	7.60		8.00		95.0	70-130			

#### LCS (2325010-BS1)

Prepared: 06/19/23 Analyzed: 06/20/23

Benzene	4.55	0.0250	5.00		91.1	70-130			
Ethylbenzene	4.63	0.0250	5.00		92.7	70-130			
Toluene	4.82	0.0250	5.00		96.5	70-130			
o-Xylene	4.87	0.0250	5.00		97.5	70-130			
p,m-Xylene	9.56	0.0500	10.0		95.6	70-130			
Total Xylenes	14.4	0.0250	15.0		96.3	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.63		8.00		95.4	70-130			

#### Matrix Spike (2325010-MS1)

Source: E306144-22

Prepared: 06/19/23 Analyzed: 06/20/23

Benzene	4.61	0.0250	5.00	ND	92.2	54-133			
Ethylbenzene	4.72	0.0250	5.00	ND	94.3	61-133			
Toluene	4.90	0.0250	5.00	ND	98.1	61-130			
o-Xylene	4.97	0.0250	5.00	ND	99.3	63-131			
p,m-Xylene	9.72	0.0500	10.0	ND	97.2	63-131			
Total Xylenes	14.7	0.0250	15.0	ND	97.9	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.73		8.00		96.6	70-130			

#### Matrix Spike Dup (2325010-MSD1)

Source: E306144-22

Prepared: 06/19/23 Analyzed: 06/20/23

Benzene	4.63	0.0250	5.00	ND	92.7	54-133	0.465	20	
Ethylbenzene	4.72	0.0250	5.00	ND	94.4	61-133	0.0647	20	
Toluene	4.91	0.0250	5.00	ND	98.3	61-130	0.185	20	
o-Xylene	4.98	0.0250	5.00	ND	99.6	63-131	0.321	20	
p,m-Xylene	9.73	0.0500	10.0	ND	97.3	63-131	0.0776	20	
Total Xylenes	14.7	0.0250	15.0	ND	98.1	63-131	0.160	20	
Surrogate: 4-Bromochlorobenzene-PID	7.75		8.00		96.8	70-130			



### QC Summary Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Cotton Draw Unit 167 Project Number: 01058-0007 Project Manager: Tom Bynum	<b>Reported:</b> 6/23/2023 9:19:07AM
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#### Volatile Organics by EPA 8021B

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
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#### Blank (2325016-BLK1)

Prepared: 06/19/23 Analyzed: 06/20/23

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	7.40		8.00		92.5	70-130			

#### LCS (2325016-BS1)

Prepared: 06/19/23 Analyzed: 06/20/23

Benzene	4.58	0.0250	5.00		91.6	70-130			
Ethylbenzene	4.76	0.0250	5.00		95.1	70-130			
Toluene	4.84	0.0250	5.00		96.8	70-130			
o-Xylene	4.88	0.0250	5.00		97.6	70-130			
p,m-Xylene	9.66	0.0500	10.0		96.6	70-130			
Total Xylenes	14.5	0.0250	15.0		96.9	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.55		8.00		94.4	70-130			

#### Matrix Spike (2325016-MS1)

Source: E306145-07

Prepared: 06/19/23 Analyzed: 06/20/23

Benzene	4.59	0.0250	5.00	ND	91.9	54-133			
Ethylbenzene	4.80	0.0250	5.00	ND	95.9	61-133			
Toluene	4.88	0.0250	5.00	ND	97.6	61-130			
o-Xylene	4.94	0.0250	5.00	ND	98.8	63-131			
p,m-Xylene	9.75	0.0500	10.0	ND	97.5	63-131			
Total Xylenes	14.7	0.0250	15.0	ND	98.0	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.53		8.00		94.1	70-130			

#### Matrix Spike Dup (2325016-MSD1)

Source: E306145-07

Prepared: 06/19/23 Analyzed: 06/20/23

Benzene	4.58	0.0250	5.00	ND	91.6	54-133	0.266	20	
Ethylbenzene	4.78	0.0250	5.00	ND	95.7	61-133	0.230	20	
Toluene	4.85	0.0250	5.00	ND	97.1	61-130	0.550	20	
o-Xylene	4.91	0.0250	5.00	ND	98.2	63-131	0.639	20	
p,m-Xylene	9.72	0.0500	10.0	ND	97.2	63-131	0.319	20	
Total Xylenes	14.6	0.0250	15.0	ND	97.5	63-131	0.427	20	
Surrogate: 4-Bromochlorobenzene-PID	7.43		8.00		92.8	70-130			



### QC Summary Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Cotton Draw Unit 167 Project Number: 01058-0007 Project Manager: Tom Bynum	<b>Reported:</b> 6/23/2023 9:19:07AM
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#### Nonhalogenated Organics by EPA 8015D - GRO

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
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**Blank (2325010-BLK1)**

Prepared: 06/19/23 Analyzed: 06/20/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.94		8.00		86.8	70-130			

**LCS (2325010-BS2)**

Prepared: 06/19/23 Analyzed: 06/20/23

Gasoline Range Organics (C6-C10)	47.4	20.0	50.0		94.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.07		8.00		88.3	70-130			

**Matrix Spike (2325010-MS2)**

Source: E306144-22

Prepared: 06/19/23 Analyzed: 06/20/23

Gasoline Range Organics (C6-C10)	46.8	20.0	50.0	ND	93.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.06		8.00		88.2	70-130			

**Matrix Spike Dup (2325010-MSD2)**

Source: E306144-22

Prepared: 06/19/23 Analyzed: 06/20/23

Gasoline Range Organics (C6-C10)	47.0	20.0	50.0	ND	94.1	70-130	0.500	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.05		8.00		88.1	70-130			





### QC Summary Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Cotton Draw Unit 167 Project Number: 01058-0007 Project Manager: Tom Bynum	<b>Reported:</b> 6/23/2023 9:19:07AM
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#### Nonhalogenated Organics by EPA 8015D - GRO

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
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**Blank (2325016-BLK1)**

Prepared: 06/19/23 Analyzed: 06/20/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.23		8.00		90.3	70-130			

**LCS (2325016-BS2)**

Prepared: 06/19/23 Analyzed: 06/20/23

Gasoline Range Organics (C6-C10)	44.3	20.0	50.0		88.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.27		8.00		90.9	70-130			

**Matrix Spike (2325016-MS2)**

Source: E306145-07

Prepared: 06/19/23 Analyzed: 06/20/23

Gasoline Range Organics (C6-C10)	45.0	20.0	50.0	ND	90.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.26		8.00		90.7	70-130			

**Matrix Spike Dup (2325016-MSD2)**

Source: E306145-07

Prepared: 06/19/23 Analyzed: 06/20/23

Gasoline Range Organics (C6-C10)	44.4	20.0	50.0	ND	88.7	70-130	1.39	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.25		8.00		90.6	70-130			



### QC Summary Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Cotton Draw Unit 167 Project Number: 01058-0007 Project Manager: Tom Bynum	<b>Reported:</b> 6/23/2023 9:19:07AM
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#### Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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**Blank (2325022-BLK1)**

Prepared: 06/20/23 Analyzed: 06/20/23

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	43.9		50.0		87.8	50-200			

**LCS (2325022-BS1)**

Prepared: 06/20/23 Analyzed: 06/20/23

Diesel Range Organics (C10-C28)	243	25.0	250		97.1	38-132			
Surrogate: n-Nonane	42.4		50.0		84.8	50-200			

**Matrix Spike (2325022-MS1)**

Source: E306121-04

Prepared: 06/20/23 Analyzed: 06/20/23

Diesel Range Organics (C10-C28)	252	25.0	250	ND	101	38-132			
Surrogate: n-Nonane	32.1		50.0		64.3	50-200			

**Matrix Spike Dup (2325022-MSD1)**

Source: E306121-04

Prepared: 06/20/23 Analyzed: 06/20/23

Diesel Range Organics (C10-C28)	249	25.0	250	ND	99.5	38-132	1.51	20	
Surrogate: n-Nonane	38.9		50.0		77.7	50-200			



### QC Summary Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Cotton Draw Unit 167 Project Number: 01058-0007 Project Manager: Tom Bynum	<b>Reported:</b> 6/23/2023 9:19:07AM
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#### Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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**Blank (2325024-BLK1)**

Prepared: 06/20/23 Analyzed: 06/21/23

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	45.9		50.0		91.9	50-200			

**LCS (2325024-BS1)**

Prepared: 06/20/23 Analyzed: 06/21/23

Diesel Range Organics (C10-C28)	242	25.0	250		96.7	38-132			
Surrogate: n-Nonane	37.9		50.0		75.9	50-200			

**Matrix Spike (2325024-MS1)**

Source: E306145-10

Prepared: 06/20/23 Analyzed: 06/21/23

Diesel Range Organics (C10-C28)	239	25.0	250	ND	95.6	38-132			
Surrogate: n-Nonane	32.7		50.0		65.4	50-200			

**Matrix Spike Dup (2325024-MSD1)**

Source: E306145-10

Prepared: 06/20/23 Analyzed: 06/21/23

Diesel Range Organics (C10-C28)	240	25.0	250	ND	96.1	38-132	0.509	20	
Surrogate: n-Nonane	32.1		50.0		64.2	50-200			



### QC Summary Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Cotton Draw Unit 167 Project Number: 01058-0007 Project Manager: Tom Bynum	<b>Reported:</b> 6/23/2023 9:19:07AM
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#### Anions by EPA 300.0/9056A

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
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**Blank (2325025-BLK1)**

Prepared: 06/20/23 Analyzed: 06/20/23

Chloride ND 20.0

**LCS (2325025-BS1)**

Prepared: 06/20/23 Analyzed: 06/20/23

Chloride 249 20.0 250 99.4 90-110

**Matrix Spike (2325025-MS1)**

Source: E306121-01

Prepared: 06/20/23 Analyzed: 06/21/23

Chloride 261 20.0 250 ND 104 80-120

**Matrix Spike Dup (2325025-MSD1)**

Source: E306121-01

Prepared: 06/20/23 Analyzed: 06/21/23

Chloride 263 20.0 250 ND 105 80-120 0.880 20





### QC Summary Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Cotton Draw Unit 167 Project Number: 01058-0007 Project Manager: Tom Bynum	<b>Reported:</b> 6/23/2023 9:19:07AM
-----------------------------------------------------------------------------	------------------------------------------------------------------------------------------------	-----------------------------------------

#### Anions by EPA 300.0/9056A

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
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**Blank (2325027-BLK1)**

Prepared: 06/20/23 Analyzed: 06/20/23

Chloride	ND	20.0							
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**LCS (2325027-BS1)**

Prepared: 06/20/23 Analyzed: 06/20/23

Chloride	251	20.0	250		100	90-110			
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**Matrix Spike (2325027-MS1)**

Source: E306145-01

Prepared: 06/20/23 Analyzed: 06/20/23

Chloride	615	40.0	250	345	108	80-120			
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**Matrix Spike Dup (2325027-MSD1)**

Source: E306145-01

Prepared: 06/20/23 Analyzed: 06/20/23

Chloride	614	40.0	250	345	108	80-120	0.127	20	
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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:	Cotton Draw Unit 167	
PO Box 247	Project Number:	01058-0007	<b>Reported:</b>
Plains TX, 79355-0247	Project Manager:	Tom Bynum	06/23/23 09:19

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

Note (1): Methods marked with \*\* are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



Client: Pima Environmental Services Project: Cotton draw Unit 167 Project Manager: Tom Bynum Address: 5614 N. Lovington Hwy. City, State, Zip Hobbs, NM, 88240 Phone: 580-748-1613 Email: tom@pimaoil.com Report due by:		Bill To Attention: <u>DeVon</u> Address: City, State, Zip Phone: Email: Pima Project # <u>203-2</u>		Lab Use Only Lab WO# <u>E 300/45</u> Job Number <u>01058-0007</u>		TAT 1D 2D 3D Standard <u>X</u>				EPA Program CWA SDWA RCRA	
				Analysis and Method DRO/DRO by 8015 GRO/DRO by 8015 BTEX by 8021 VOC by 8260 Metals 6010 Chloride 300.0 BGDOC NM BGDOC TX		State NM <u>X</u> CO UT AZ TX					

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	Remarks
8:00	6/15	S	1	S1-1'	1							X		
8:05				S1-2'	2									
8:10				S1-3'	3									
8:15				S1-4'	4									
8:20				S2-1'	5									
8:25				S2-2'	6									
8:30				S2-3'	7									
8:35				S2-4'	8									
8:40				S3-1'	9									
8:45				S3-2'	10									

Additional Instructions: Billings # 2114945

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: \_\_\_\_\_

Relinquished by: (Signature) <u>Varine Adame</u>	Date <u>6/16/23</u>	Time <u>1:30</u>	Received by: (Signature) <u>Michelle Gandy</u>	Date <u>6-16-23</u>	Time <u>1330</u>	Lab Use Only Received on ice: <u>(Y)</u> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
Relinquished by: (Signature) <u>Michelle Gandy</u>	Date <u>6-16-23</u>	Time <u>1700</u>	Received by: (Signature) <u>Andrew Russo</u>	Date <u>6-16-23</u>	Time <u>1700</u>	
Relinquished by: (Signature) <u>Andrew Russo</u>	Date <u>6-16-23</u>	Time <u>2300</u>	Received by: (Signature) <u>Cathy Mae</u>	Date <u>6/19/23</u>	Time <u>8:00</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.







Client: <u>Pima Environmental Services</u> Project: <u>Cotton Jaw Unit 167</u> Project Manager: <u>Tom Bynum</u> Address: <u>5614 N. Lovington Hwy.</u> City, State, Zip: <u>Hobbs, NM, 88240</u> Phone: <u>580-748-1613</u> Email: <u>tom@pimaoil.com</u> Report due by: _____		Bill To Attention: _____ Address: _____ City, State, Zip: _____ Phone: _____ Email: _____ Pima Project # <u>203-2</u>		Lab Use Only Lab WO# <u>F 306145</u> Job Number <u>01058-0007</u>		TAT 1D <input type="checkbox"/> 2D <input type="checkbox"/> 3D <input type="checkbox"/> Standard <input checked="" type="checkbox"/>		EPA Program CWA <input type="checkbox"/> SDWA <input type="checkbox"/> RCRA <input type="checkbox"/>	
				Analysis and Method DRO/DRO by 8015 <input type="checkbox"/> GRO/DRO by 8015 <input type="checkbox"/> BTEX by 8021 <input type="checkbox"/> VOC by 8260 <input type="checkbox"/> Metals 6010 <input type="checkbox"/> Chloride 300.0 <input type="checkbox"/>		BGDOC NM <input checked="" type="checkbox"/> BGDOC TX <input type="checkbox"/>		State NM <input checked="" type="checkbox"/> CO <input type="checkbox"/> UT <input type="checkbox"/> AZ <input type="checkbox"/> TX <input type="checkbox"/>	

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	Remarks
9:40	6/15	S	1	BG1	21							X		

Additional Instructions: B# 21149451

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>Karime Adams</u>		Date <u>6/16/23</u>	Time <u>1:30</u>	Received by: (Signature) <u>Nichelle Gonzales</u>		Date <u>6-16-23</u>	Time <u>1:30</u>	Lab Use Only Received on ice: <input checked="" type="checkbox"/> Y / <input type="checkbox"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
Relinquished by: (Signature) <u>Nichelle Gonzales</u>		Date <u>6-16-23</u>	Time <u>1700</u>	Received by: (Signature) <u>Andrew Muzzo</u>		Date <u>6-16-23</u>	Time <u>1700</u>	
Relinquished by: (Signature) <u>Andrew Muzzo</u>		Date <u>6-16-23</u>	Time <u>2300</u>	Received by: (Signature) <u>Carth Mear</u>		Date <u>6/16/23</u>	Time <u>8:00</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: 6/19/2023 10:14:57AM

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: 06/19/23 08:00 Work Order ID: E306145
Phone: (575) 631-6977 Date Logged In: 06/19/23 09:01 Logged In By: Caitlin Mars
Email: tom@pimaoil.com Due Date: 06/23/23 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

Carrier: Courier

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

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

Empty box for client instructions.

Comments/Resolution

White out present on COC when received from client.

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

Date



envirotech Inc.

Report to:  
Tom Bynum



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

### Pima Environmental Services-Carlsbad

Project Name: Cotton Draw Unit 167H

Work Order: E307147

Job Number: 01058-0007

Received: 7/27/2023

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
7/28/23

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: 7/28/23



Tom Bynum  
PO Box 247  
Plains, TX 79355-0247

Project Name: Cotton Draw Unit 167H  
Workorder: E307147  
Date Received: 7/27/2023 7:10:00AM

Tom Bynum,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/27/2023 7:10:00AM, under the Project Name: Cotton Draw Unit 167H.

The analytical test results summarized in this report with the Project Name: Cotton Draw Unit 167H 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)

**Alexa Michaels**  
Sample Custody Officer  
Office: 505-632-1881  
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**West Texas Midland/Odessa Area**  
**Rayny Hagan**  
Technical Representative  
Office: 505-421-LABS(5227)

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

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### Sample Summary

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Cotton Draw Unit 167H Project Number: 01058-0007 Project Manager: Tom Bynum	<b>Reported:</b> 07/28/23 13:19
-----------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------	------------------------------------

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
CS1 Bottoms	E307147-01A	Soil	07/24/23	07/27/23	Glass Jar, 2 oz.
CS2 Bottoms	E307147-02A	Soil	07/24/23	07/27/23	Glass Jar, 2 oz.
CS3 Bottoms	E307147-03A	Soil	07/24/23	07/27/23	Glass Jar, 2 oz.
CS4 Bottoms	E307147-04A	Soil	07/24/23	07/27/23	Glass Jar, 2 oz.
CS5 Bottoms	E307147-05A	Soil	07/24/23	07/27/23	Glass Jar, 2 oz.
CSW1	E307147-06A	Soil	07/24/23	07/27/23	Glass Jar, 2 oz.
CSW2	E307147-07A	Soil	07/24/23	07/27/23	Glass Jar, 2 oz.
CSW3	E307147-08A	Soil	07/24/23	07/27/23	Glass Jar, 2 oz.
CSW4	E307147-09A	Soil	07/24/23	07/27/23	Glass Jar, 2 oz.



### Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Cotton Draw Unit 167H Project Number: 01058-0007 Project Manager: Tom Bynum	<b>Reported:</b> 7/28/2023 1:19:18PM
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**CSI Bottoms**

**E307147-01**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2330066
Benzene	ND	0.0250	1	07/27/23	07/27/23	
Ethylbenzene	ND	0.0250	1	07/27/23	07/27/23	
Toluene	ND	0.0250	1	07/27/23	07/27/23	
o-Xylene	ND	0.0250	1	07/27/23	07/27/23	
p,m-Xylene	ND	0.0500	1	07/27/23	07/27/23	
Total Xylenes	ND	0.0250	1	07/27/23	07/27/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		102 %	70-130	07/27/23	07/27/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2330066
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/27/23	07/27/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		83.8 %	70-130	07/27/23	07/27/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2330067
Diesel Range Organics (C10-C28)	ND	25.0	1	07/27/23	07/27/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/27/23	07/27/23	
<i>Surrogate: n-Nonane</i>						
		90.8 %	50-200	07/27/23	07/27/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2330071
Chloride	ND	20.0	1	07/27/23	07/27/23	



### Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Cotton Draw Unit 167H Project Number: 01058-0007 Project Manager: Tom Bynum	<b>Reported:</b> 7/28/2023 1:19:18PM
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**CS2 Bottoms**

**E307147-02**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2330066
Benzene	ND	0.0250	1	07/27/23	07/27/23	
Ethylbenzene	ND	0.0250	1	07/27/23	07/27/23	
Toluene	ND	0.0250	1	07/27/23	07/27/23	
o-Xylene	ND	0.0250	1	07/27/23	07/27/23	
p,m-Xylene	ND	0.0500	1	07/27/23	07/27/23	
Total Xylenes	ND	0.0250	1	07/27/23	07/27/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		101 %	70-130	07/27/23	07/27/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2330066
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/27/23	07/27/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		82.4 %	70-130	07/27/23	07/27/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: KM		Batch: 2330067
Diesel Range Organics (C10-C28)	ND	25.0	1	07/27/23	07/27/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/27/23	07/27/23	
<i>Surrogate: n-Nonane</i>		96.6 %	50-200	07/27/23	07/27/23	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2330071
Chloride	ND	20.0	1	07/27/23	07/27/23	



### Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Cotton Draw Unit 167H Project Number: 01058-0007 Project Manager: Tom Bynum	<b>Reported:</b> 7/28/2023 1:19:18PM
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**CS3 Bottoms**

**E307147-03**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2330066
Benzene	ND	0.0250	1	07/27/23	07/27/23	
Ethylbenzene	ND	0.0250	1	07/27/23	07/27/23	
Toluene	ND	0.0250	1	07/27/23	07/27/23	
o-Xylene	ND	0.0250	1	07/27/23	07/27/23	
p,m-Xylene	ND	0.0500	1	07/27/23	07/27/23	
Total Xylenes	ND	0.0250	1	07/27/23	07/27/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		101 %	70-130	07/27/23	07/27/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2330066
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/27/23	07/27/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		82.8 %	70-130	07/27/23	07/27/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: KM		Batch: 2330067
Diesel Range Organics (C10-C28)	ND	25.0	1	07/27/23	07/27/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/27/23	07/27/23	
<i>Surrogate: n-Nonane</i>		97.9 %	50-200	07/27/23	07/27/23	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2330071
Chloride	ND	20.0	1	07/27/23	07/27/23	



### Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Cotton Draw Unit 167H Project Number: 01058-0007 Project Manager: Tom Bynum	<b>Reported:</b> 7/28/2023 1:19:18PM
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**CS4 Bottoms**

**E307147-04**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2330066
Benzene	ND	0.0250	1	07/27/23	07/27/23	
Ethylbenzene	ND	0.0250	1	07/27/23	07/27/23	
Toluene	ND	0.0250	1	07/27/23	07/27/23	
o-Xylene	ND	0.0250	1	07/27/23	07/27/23	
p,m-Xylene	ND	0.0500	1	07/27/23	07/27/23	
Total Xylenes	ND	0.0250	1	07/27/23	07/27/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		102 %	70-130	07/27/23	07/27/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2330066
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/27/23	07/27/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		83.5 %	70-130	07/27/23	07/27/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: KM		Batch: 2330067
Diesel Range Organics (C10-C28)	ND	25.0	1	07/27/23	07/27/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/27/23	07/27/23	
<i>Surrogate: n-Nonane</i>		96.3 %	50-200	07/27/23	07/27/23	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2330071
Chloride	ND	20.0	1	07/27/23	07/27/23	





### Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Cotton Draw Unit 167H Project Number: 01058-0007 Project Manager: Tom Bynum	<b>Reported:</b> 7/28/2023 1:19:18PM
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**CS5 Bottoms**  
**E307147-05**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2330066
Benzene	ND	0.0250	1	07/27/23	07/27/23	
Ethylbenzene	ND	0.0250	1	07/27/23	07/27/23	
Toluene	ND	0.0250	1	07/27/23	07/27/23	
o-Xylene	ND	0.0250	1	07/27/23	07/27/23	
p,m-Xylene	ND	0.0500	1	07/27/23	07/27/23	
Total Xylenes	ND	0.0250	1	07/27/23	07/27/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		101 %	70-130	07/27/23	07/27/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2330066
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/27/23	07/27/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		83.5 %	70-130	07/27/23	07/27/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: KM		Batch: 2330067
Diesel Range Organics (C10-C28)	ND	25.0	1	07/27/23	07/27/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/27/23	07/27/23	
<i>Surrogate: n-Nonane</i>		98.8 %	50-200	07/27/23	07/27/23	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2330071
Chloride	ND	20.0	1	07/27/23	07/27/23	



### Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Cotton Draw Unit 167H Project Number: 01058-0007 Project Manager: Tom Bynum	<b>Reported:</b> 7/28/2023 1:19:18PM
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**CSW1**

**E307147-06**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2330066
Benzene	ND	0.0250	1	07/27/23	07/27/23	
Ethylbenzene	ND	0.0250	1	07/27/23	07/27/23	
Toluene	ND	0.0250	1	07/27/23	07/27/23	
o-Xylene	ND	0.0250	1	07/27/23	07/27/23	
p,m-Xylene	ND	0.0500	1	07/27/23	07/27/23	
Total Xylenes	ND	0.0250	1	07/27/23	07/27/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		101 %	70-130	07/27/23	07/27/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2330066
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/27/23	07/27/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		82.7 %	70-130	07/27/23	07/27/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: KM		Batch: 2330067
Diesel Range Organics (C10-C28)	ND	25.0	1	07/27/23	07/27/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/27/23	07/27/23	
<i>Surrogate: n-Nonane</i>		98.8 %	50-200	07/27/23	07/27/23	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2330071
Chloride	ND	20.0	1	07/27/23	07/27/23	



### Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Cotton Draw Unit 167H Project Number: 01058-0007 Project Manager: Tom Bynum	<b>Reported:</b> 7/28/2023 1:19:18PM
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**CSW2**

**E307147-07**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: RKS		Batch: 2330066
Benzene	ND	0.0250	1	07/27/23	07/27/23	
Ethylbenzene	ND	0.0250	1	07/27/23	07/27/23	
Toluene	ND	0.0250	1	07/27/23	07/27/23	
o-Xylene	ND	0.0250	1	07/27/23	07/27/23	
p,m-Xylene	ND	0.0500	1	07/27/23	07/27/23	
Total Xylenes	ND	0.0250	1	07/27/23	07/27/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		94.5 %	70-130	07/27/23	07/27/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: RKS		Batch: 2330066
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/27/23	07/27/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		92.7 %	70-130	07/27/23	07/27/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: KM		Batch: 2330067
Diesel Range Organics (C10-C28)	ND	25.0	1	07/27/23	07/27/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/27/23	07/27/23	
<i>Surrogate: n-Nonane</i>		100 %	50-200	07/27/23	07/27/23	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2330071
Chloride	ND	20.0	1	07/27/23	07/27/23	



### Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Cotton Draw Unit 167H Project Number: 01058-0007 Project Manager: Tom Bynum	<b>Reported:</b> 7/28/2023 1:19:18PM
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**CSW3**

**E307147-08**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: RKS		Batch: 2330066
Benzene	ND	0.0250	1	07/27/23	07/27/23	
Ethylbenzene	ND	0.0250	1	07/27/23	07/27/23	
Toluene	ND	0.0250	1	07/27/23	07/27/23	
o-Xylene	ND	0.0250	1	07/27/23	07/27/23	
p,m-Xylene	ND	0.0500	1	07/27/23	07/27/23	
Total Xylenes	ND	0.0250	1	07/27/23	07/27/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		95.3 %	70-130	07/27/23	07/27/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: RKS		Batch: 2330066
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/27/23	07/27/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		92.2 %	70-130	07/27/23	07/27/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: KM		Batch: 2330067
Diesel Range Organics (C10-C28)	ND	25.0	1	07/27/23	07/27/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/27/23	07/27/23	
<i>Surrogate: n-Nonane</i>		98.8 %	50-200	07/27/23	07/27/23	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2330071
Chloride	ND	20.0	1	07/27/23	07/27/23	



### Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Cotton Draw Unit 167H Project Number: 01058-0007 Project Manager: Tom Bynum	<b>Reported:</b> 7/28/2023 1:19:18PM
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**CSW4**

**E307147-09**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: RKS		Batch: 2330066
Benzene	ND	0.0250	1	07/27/23	07/27/23	
Ethylbenzene	ND	0.0250	1	07/27/23	07/27/23	
Toluene	ND	0.0250	1	07/27/23	07/27/23	
o-Xylene	ND	0.0250	1	07/27/23	07/27/23	
p,m-Xylene	ND	0.0500	1	07/27/23	07/27/23	
Total Xylenes	ND	0.0250	1	07/27/23	07/27/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		96.5 %	70-130	07/27/23	07/27/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: RKS		Batch: 2330066
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/27/23	07/27/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		92.1 %	70-130	07/27/23	07/27/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: KM		Batch: 2330067
Diesel Range Organics (C10-C28)	ND	25.0	1	07/27/23	07/27/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/27/23	07/27/23	
<i>Surrogate: n-Nonane</i>		99.9 %	50-200	07/27/23	07/27/23	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2330071
Chloride	ND	20.0	1	07/27/23	07/27/23	





### QC Summary Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Cotton Draw Unit 167H Project Number: 01058-0007 Project Manager: Tom Bynum	<b>Reported:</b> 7/28/2023 1:19:18PM
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#### Volatile Organics by EPA 8021B

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
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**Blank (2330066-BLK1)**

Prepared: 07/27/23 Analyzed: 07/27/23

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	8.14		8.00		102		70-130		

**LCS (2330066-BS1)**

Prepared: 07/27/23 Analyzed: 07/27/23

Benzene	4.72	0.0250	5.00		94.4		70-130		
Ethylbenzene	4.63	0.0250	5.00		92.6		70-130		
Toluene	4.76	0.0250	5.00		95.3		70-130		
o-Xylene	4.78	0.0250	5.00		95.6		70-130		
p,m-Xylene	9.60	0.0500	10.0		96.0		70-130		
Total Xylenes	14.4	0.0250	15.0		95.9		70-130		
Surrogate: 4-Bromochlorobenzene-PID	8.15		8.00		102		70-130		

**Matrix Spike (2330066-MS1)**

Source: E307147-02

Prepared: 07/27/23 Analyzed: 07/27/23

Benzene	5.00	0.0250	5.00	ND	100		54-133		
Ethylbenzene	4.89	0.0250	5.00	ND	97.9		61-133		
Toluene	5.04	0.0250	5.00	ND	101		61-130		
o-Xylene	5.05	0.0250	5.00	ND	101		63-131		
p,m-Xylene	10.1	0.0500	10.0	ND	101		63-131		
Total Xylenes	15.2	0.0250	15.0	ND	101		63-131		
Surrogate: 4-Bromochlorobenzene-PID	8.23		8.00		103		70-130		

**Matrix Spike Dup (2330066-MSD1)**

Source: E307147-02

Prepared: 07/27/23 Analyzed: 07/27/23

Benzene	4.95	0.0250	5.00	ND	98.9		54-133	1.06	20
Ethylbenzene	4.85	0.0250	5.00	ND	97.0		61-133	0.852	20
Toluene	4.99	0.0250	5.00	ND	99.8		61-130	0.943	20
o-Xylene	5.01	0.0250	5.00	ND	100		63-131	0.723	20
p,m-Xylene	10.1	0.0500	10.0	ND	101		63-131	0.869	20
Total Xylenes	15.1	0.0250	15.0	ND	100		63-131	0.820	20
Surrogate: 4-Bromochlorobenzene-PID	8.25		8.00		103		70-130		



### QC Summary Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Cotton Draw Unit 167H Project Number: 01058-0007 Project Manager: Tom Bynum	<b>Reported:</b> 7/28/2023 1:19:18PM
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#### Nonhalogenated Organics by EPA 8015D - GRO

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
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**Blank (2330066-BLK1)**

Prepared: 07/27/23 Analyzed: 07/27/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.67		8.00		83.4	70-130			

**LCS (2330066-BS2)**

Prepared: 07/27/23 Analyzed: 07/27/23

Gasoline Range Organics (C6-C10)	44.9	20.0	50.0		89.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.72		8.00		84.0	70-130			

**Matrix Spike (2330066-MS2)**

Source: E307147-02

Prepared: 07/27/23 Analyzed: 07/27/23

Gasoline Range Organics (C6-C10)	44.7	20.0	50.0	ND	89.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.75		8.00		84.3	70-130			

**Matrix Spike Dup (2330066-MSD2)**

Source: E307147-02

Prepared: 07/27/23 Analyzed: 07/27/23

Gasoline Range Organics (C6-C10)	44.8	20.0	50.0	ND	89.5	70-130	0.177	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.70		8.00		83.7	70-130			



### QC Summary Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Cotton Draw Unit 167H Project Number: 01058-0007 Project Manager: Tom Bynum	<b>Reported:</b> 7/28/2023 1:19:18PM
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#### Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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**Blank (2330067-BLK1)**

Prepared: 07/27/23 Analyzed: 07/27/23

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	50.2		50.0		100	50-200			

**LCS (2330067-BS1)**

Prepared: 07/27/23 Analyzed: 07/27/23

Diesel Range Organics (C10-C28)	249	25.0	250		99.5	38-132			
Surrogate: n-Nonane	49.8		50.0		99.6	50-200			

**Matrix Spike (2330067-MS1)**

Source: E307147-01

Prepared: 07/27/23 Analyzed: 07/27/23

Diesel Range Organics (C10-C28)	258	25.0	250	ND	103	38-132			
Surrogate: n-Nonane	49.0		50.0		97.9	50-200			

**Matrix Spike Dup (2330067-MSD1)**

Source: E307147-01

Prepared: 07/27/23 Analyzed: 07/27/23

Diesel Range Organics (C10-C28)	257	25.0	250	ND	103	38-132	0.317	20	
Surrogate: n-Nonane	49.6		50.0		99.2	50-200			



### QC Summary Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Cotton Draw Unit 167H Project Number: 01058-0007 Project Manager: Tom Bynum	<b>Reported:</b> 7/28/2023 1:19:18PM
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#### Anions by EPA 300.0/9056A

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
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**Blank (2330071-BLK1)**

Prepared: 07/27/23 Analyzed: 07/27/23

Chloride ND 20.0

**LCS (2330071-BS1)**

Prepared: 07/27/23 Analyzed: 07/27/23

Chloride 256 20.0 250 102 90-110

**Matrix Spike (2330071-MS1)**

Source: E307147-01

Prepared: 07/27/23 Analyzed: 07/27/23

Chloride 261 20.0 250 ND 104 80-120

**Matrix Spike Dup (2330071-MSD1)**

Source: E307147-01

Prepared: 07/27/23 Analyzed: 07/27/23

Chloride 260 20.0 250 ND 104 80-120 0.322 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:	Cotton Draw Unit 167H	
PO Box 247	Project Number:	01058-0007	<b>Reported:</b>
Plains TX, 79355-0247	Project Manager:	Tom Bynum	07/28/23 13:19

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

Note (1): Methods marked with \*\* are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.





<b>Client:</b> Pima Environmental Services <b>Project:</b> Cotton Draw Unit 167H <b>Project Manager:</b> Tom Bynum <b>Address:</b> 5614 N. Lovington Hwy. <b>City, State, Zip:</b> Hobbs, NM, 88240 <b>Phone:</b> 580-748-1613 <b>Email:</b> tom@pimaoil.com <b>Report due by:</b>		<b>Bill To</b> <b>Attention:</b> Devon <b>Address:</b> <b>City, State, Zip:</b> <b>Phone:</b> <b>Email:</b> <b>Pima Project #</b> 203-2		<b>Lab Use Only</b> <b>Lab WO#</b> E307147 <b>Job Number</b> 0158-007		<b>TAT</b> 1D <input checked="" type="checkbox"/> 2D <input type="checkbox"/> 3D <input type="checkbox"/>			<b>EPA Program</b> CWA <input type="checkbox"/> SDWA <input type="checkbox"/> RCRA <input type="checkbox"/>	
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Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Analysis and Method										State					Remarks
						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			
1:30	7/24	S	1	CS1	1																Bottoms
1:35				CS2	2																
1:40				CS3	3																
1:45				CS4	4																
1:50				CS5	5																
1:55				CSW1	6																
2:00				CSW2	7																
2:05				CSW3	8																
2:10				CSW4	9																

**Additional Instructions:** Billing # 21149451

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.

Relinquished by: (Signature) <i>Verime Adams</i> Date: 7/26/23 Time: 3:00		Received by: (Signature) <i>Micelle Camp</i> Date: 7-26-23 Time: 1500		Lab Use Only Received on ice: <input checked="" type="checkbox"/> / N T1 _____ T2 _____ T3 _____ AVG Temp °C 4
Relinquished by: (Signature) <i>Micelle Camp</i> Date: 7-26-23 Time: 1715		Received by: (Signature) <i>Micelle Camp</i> Date: 7-26-23 Time: 1715		
Relinquished by: (Signature) <i>Micelle Camp</i> Date: 7-26-23 Time: 2345		Received by: (Signature) <i>Keyana-R Hill</i> Date: 7/27/23 Time: 0710		

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: 7/27/2023 9:05:13AM

#### 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:	07/27/23 07:10	Work Order ID:	E307147
Phone:	(575) 631-6977	Date Logged In:	07/26/23 16:03	Logged In By:	Caitlin Mars
Email:	tom@pimaoil.com	Due Date:	07/27/23 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? Yes
- 5. Were all samples received within holding time? Yes

Carrier: Courier

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

#### Comments/Resolution

#### 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? Yes

#### 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.

**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 247345

**CONDITIONS**

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 247345
	Action Type: [C-141] Release Corrective Action (C-141)

**CONDITIONS**

Created By	Condition	Condition Date
rhamlet	We have received your Remediation Closure Report for Incident #NAPP2103458288 COTTON DRAW UNIT 167 BATTERY, thank you. This Remediation Closure Report is approved. Areas reasonably needed for production or subsequent drilling operations will need to be reclaimed and revegetated as soon as they are no longer reasonably needed. A report for reclamation and revegetation including pictures of the contoured backfilled excavation surface and a thorough discussion on reseeding mixture, vegetation ratio, timelines, etc., will need to be submitted and approved prior to this incident receiving the final status of "Restoration Complete".	1/17/2024