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# REMEDIATION CLOSURE REPORT

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Incident ID nAB1908044051

**Cotton Draw 13 Federal #1H**

API # 30-015-40385

Prepared By:

Pima Environmental Services, LLC

Prepared For:

Devon Energy Production, LP

July 9, 2024

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

July 9, 2024

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

Bureau of Land Management  
620 E Green St.  
Carlsbad, NM 88220

**RE: Remediation Closure Report  
Cotton Draw 13 Federal #001H  
API # 30-015-40385  
GPS: Latitude 32.123831 Longitude -103.73753499  
ULSTR – M – 13 – 25S – 31E 0 FNL 0 FEL Eddy County, NM  
NMOCD Incident ID nAB1908044051**

Devon Energy Production Company (Devon) has contracted Pima Environmental Services, LLC (Pima) to prepare this remediation closure report for a crude oil and produced water mixed release that happened at the Cotton Draw 13 Federal #1H (Cotton). This incident was assigned Incident ID nAB1908044051, by the New Mexico Oil Conservation Division (NMOCD).

#### Site Information and Site Characterization

The Cotton is located approximately twenty (20) miles southeast of Malaga, NM. This spill site is in Unit M, Section 13, Township 25S, Range 31E, Latitude 32.123831 Longitude -103.73753499, Eddy County, NM. A Location Map can be found in Figure 1.

Based upon the New Mexico Office of the State Engineer (C-04618-POD1) well water data, depth to the nearest groundwater in this area is greater than 55 feet below grade surface (bgs), located approximately 1.24 miles away from this release area. According to the United States Geological Survey (USGS 320932103443801 25S.31E.02.23441) well water data, depth to the nearest groundwater in this area is 390 feet bgs, located more than 2 miles away from this release area. See Appendix A for referenced water surveys and water-related maps.

Per the New Mexico Bureau of Geology and Mineral Resources, the geology is made up of Eolian and piedmont deposits. 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, eroded according to the United States Department of Agriculture Natural Resources Conservation Service soil survey (Appendix B). The drainage courses in this area are well-drained. There is a low potential for karst geology to be present around the Cotton (Figure 3). A Topographic Map can be found in Figure 2.

#### Release Information

**nAB1908044051:** On March 7, 2019, The dump valve on a 2-phase separator failed to open and sent fluid to the gas scrubber separator. The dump valve on the gas scrubber was seized closed resulting in the separator swamping and sending fluid out the flare. Affected area 72'x17'x1/4". The release occurred at the flare, there is no secondary containment around the flare, a vacuum truck was dispatched to recover any standing fluids. Approximately 4 barrels (bbls) of crude oil and 9.8 bbls of produced water were released. Approximately 2 bbls of crude oil and 7 bbls of produced water were recovered.

#### Countermeasures due to Remediation Closure Report Denied

On March 26, 2021, the NMOCD denied the remediation closure report citing:

"The OCD has rejected the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nAB1908044051, for the following reasons:

- **When nearby wells are used to determine depth to groundwater, the wells should be no further than ½ mile away from the site, and data should be no more than 25 years old, and well construction information should be provided. If evidence of depth to ground water within a ½ mile radius of the site cannot be provided, impacted soils will need to meet Table 1 Closure Criteria for ground water at a depth of 50 feet or less.**

- All off pad areas must contain a minimum of 4 feet non-waste containing uncontaminated, earthen material with chloride concentrations less than 600 mg/kg. In the pasture area, 4 feet below the ground surface, soil contamination limits revert back to Table 1 "Closure Criteria for Soils Impacted by a Release" included in the spill rule <http://164.64.110.134/parts/title19/19.015.0029.html>

The rejected C-141 can be found in the OCD Online: Permitting - Action Status, under the Application ID: 16106. Please review and make the required correction(s) prior to resubmitting. If you have any questions why this application was rejected or believe it was rejected in error, please contact me prior to submitting an additional C-141."

On May 10, 2023, Pima mobilized personnel and equipment to the site to reassess the release area and completely delineate vertically and horizontally. The impacted area measures approximately 3,766 square feet and remediation activities were performed in October and December of 2020, according the previously denied closure report located in the OCD Online: Permitting – Action Status, under the Application ID: 16106. Samples were collected from 5 different sample points on the pad from depth intervals of 1', 2', 3', and 4' bgs. Two of the sample points were advanced to 5' bgs. Samples were collected from 3 different sample points in the pasture from depth intervals of 1' and 2' bgs. Samples were then collected from 8 different sample points around the edge of the release area, which were each composite samples consisting of 0', 1', 2', 3', and 4' depths bgs. The samples were immediately put on ice, jarred, and delivered to Envirotech Labs for official testing. All samples were analyzed for all constituents listed on Table 1 19.15.29.12 NMAC. The results of this sampling event can be seen in the following data table. An Updated Delineation Map can be found in Figure 4.

5/10/23 Soil Sampling Results

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is <50')								
DEVON ENERGY - COTTON DRAW 13 FEDERAL #001H - nAB1908044051								
Date: 5/10/2023 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	27.6
	2'	ND	ND	ND	ND	ND	0	ND
	3'	ND	ND	ND	ND	ND	0	20.2
	4'	ND	ND	ND	ND	ND	0	ND
S-2	1'	ND	ND	ND	ND	ND	0	30.1
	2'	ND	ND	ND	ND	ND	0	119
	3'	ND	ND	ND	ND	ND	0	20.4
	4'	ND	ND	ND	ND	ND	0	31.2
S-3	1'	ND	ND	ND	ND	ND	0	52.5
	2'	ND	ND	ND	ND	ND	0	45.7
	3'	ND	ND	ND	184	189	373	95.5
	4'	ND	ND	ND	ND	ND	0	166
S-4	1'	ND	ND	ND	ND	ND	0	ND
	2'	ND	ND	ND	ND	ND	0	ND
	3'	ND	ND	ND	ND	ND	0	ND
	4'	ND	ND	ND	ND	ND	0	ND
S-5	1'	ND	ND	ND	ND	ND	0	ND
	2'	ND	ND	ND	ND	ND	0	ND
	3'	ND	ND	ND	ND	ND	0	ND
	4'	ND	ND	ND	ND	ND	0	ND
S-6	1'	ND	ND	ND	ND	ND	0	ND
	2'	ND	ND	ND	ND	ND	0	ND
S-7	1'	ND	ND	ND	ND	ND	0	ND
	2'	ND	ND	ND	ND	ND	0	ND
S-8	1'	ND	ND	ND	ND	ND	0	ND
	2'	ND	ND	ND	ND	ND	0	ND
SW 1	0-4' Comp	ND	ND	ND	ND	ND	0	ND
SW 2	0-4' Comp	ND	ND	ND	ND	ND	0	ND
SW 3	0-4' Comp	ND	ND	ND	ND	ND	0	ND
SW 4	0-4' Comp	ND	ND	ND	ND	ND	0	ND
SW 5	0-4' Comp	ND	ND	ND	ND	ND	0	ND
SW 6	0-4' Comp	ND	ND	ND	ND	ND	0	ND
SW 7	0-4' Comp	ND	ND	ND	ND	ND	0	ND
SW 8	0-4' Comp	ND	ND	ND	ND	ND	0	ND

ND – Non-Detected

With the depth to ground water at this release area being defined as less than 50 feet bgs, contamination over the regulatory limits was found at the S-3 sample point.

On May 6, 2024, Pima personnel returned to the site to complete the assessment of the pasture area. Verification was needed that the top 4 feet of soil contained non-waste, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg. The three sample points from the previous sampling event were each advanced to depths of 3' and 4' bgs. The samples were immediately put on ice, jarred, and delivered to Envirotech Labs for official testing. All samples were analyzed for all constituents listed on Table 1 19.15.29.12 NMAC. The results of this sampling event can be seen in the following data table.

**5/6/24 Soil Sampling Results**

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is <50')								
DEVON ENERGY - COTTON DRAW 13 FEDERAL #001H - nAB1908044051								
Date: 5/6/2024 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-6	3'	ND	ND	ND	17	10.1	27.1	ND
	4'	ND	ND	ND	28.2	24	52.2	ND
S-7	3'	ND	ND	ND	33.9	28.6	62.5	ND
	4'	ND	ND	ND	52	23	75	ND
S-8	3'	ND	ND	ND	7	2	9	22.2
	4'	ND	ND	ND	ND	ND	0	15.7

ND – Non-Detected

On June 28, 2024, Pima and the Devon construction department mobilized personnel and equipment to the site to excavate the area surrounding sample point S-3. An area measuring approximately 234 square feet was flagged then excavated utilizing mechanical excavation means to a depth of 3.5' bgs. After Devon submitted a 48-hour sampling notification, OCD Online: Permitting – Action Status, under the Application ID: 357729 (Appendix C), one confirmation composite base sample was collected from the base of the excavation and one confirmation composite wall sample was collected from the walls of the excavation. Furthermore, because the surface in the pasture has not been tested, 3 more confirmation composite samples were collected from the S-6, S-7, and S-8 sample points. After collection, each sample was immediately put on ice, jarred, and delivered to Envirotech Labs for official testing. All samples were analyzed for all constituents listed on Table 1 19.15.29.12 NMAC. The results of this sampling event can be seen in the following data table. A Confirmation Sample Map can be found in Figure 5.

**6/28/24 Confirmation Soil Sample Results**

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is <50')								
DEVON ENERGY - COTTON DRAW 13 FEDERAL #001H - nAB1908044051								
Date: 6/28/2024 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
CS3-3.5'	3.5'	ND	ND	ND	ND	ND	0	26
CSW3-3.5'	3.5'	ND	ND	ND	ND	ND	0	48
CS6-Surface	0'	ND	ND	ND	ND	ND	0	48.5
CS7-Surface	0'	ND	ND	ND	ND	ND	0	50.7
CS8-Surface	0'	ND	ND	ND	ND	ND	0	37.5

ND – Non-Detected

Complete Laboratory Reports can be found in Appendix E. Photographic Documentation can be found in Appendix D. All previously submitted lab data and remediation activities can be found in the denied closure report at OCD Online: Permitting – Action Status, under the Application ID: 16106.

Based on these lab results, the contaminant levels for all samples collected are under the regulatory limits according to the <50' depth to groundwater section of Table 1 19.15.29.12 NMAC. This excavation sufficiently removed all contaminated soil, which was hauled to R360, an NMOCD-approved disposal facility. Clean, fresh backfill material was brought in to backfill the excavation. The area was repacked and back dragged to match the surrounding pad.

#### Closure Request

After careful review, Pima requests that this incident, nAB1908044051, be closed. Devon has complied with the applicable closure requirements for this incident and understands that reclamation of this pad area once it is no longer needed for production or subsequent drilling operations will require a minimum of four feet of non-waste containing uncontaminated, earthen material.



Should you have any questions or need additional information, please feel free to contact:  
Devon Energy – Dale Woodall at 575-748-0167 or [Dale.Woodall@dvn.com](mailto:Dale.Woodall@dvn.com).  
Pima Environmental – Tom Bynum at 580-748-1613 or [tom@pimaoil.com](mailto:tom@pimaoil.com).

### **Attachments**

#### Figures:

- 1- Location Map
- 2- Topographic Map
- 3- Karst Map
- 4- Updated Delineation Map
- 5- Confirmation Sample Map

#### Appendices:

- Appendix A – Referenced Water Surveys & Water-Related Maps
- Appendix B – Soil Survey & Geological Data
- Appendix C – 48-Hour Notification & NMOCD Correspondence
- Appendix D – Photographic Documentation
- Appendix E – Laboratory Reports

## Figures:

Figure 1- Location Map

Figure 2- Topographic Map

Figure 3- Karst Map

Figure 4- Updated Delineation Map

Figure 5- Confirmation Sample Map

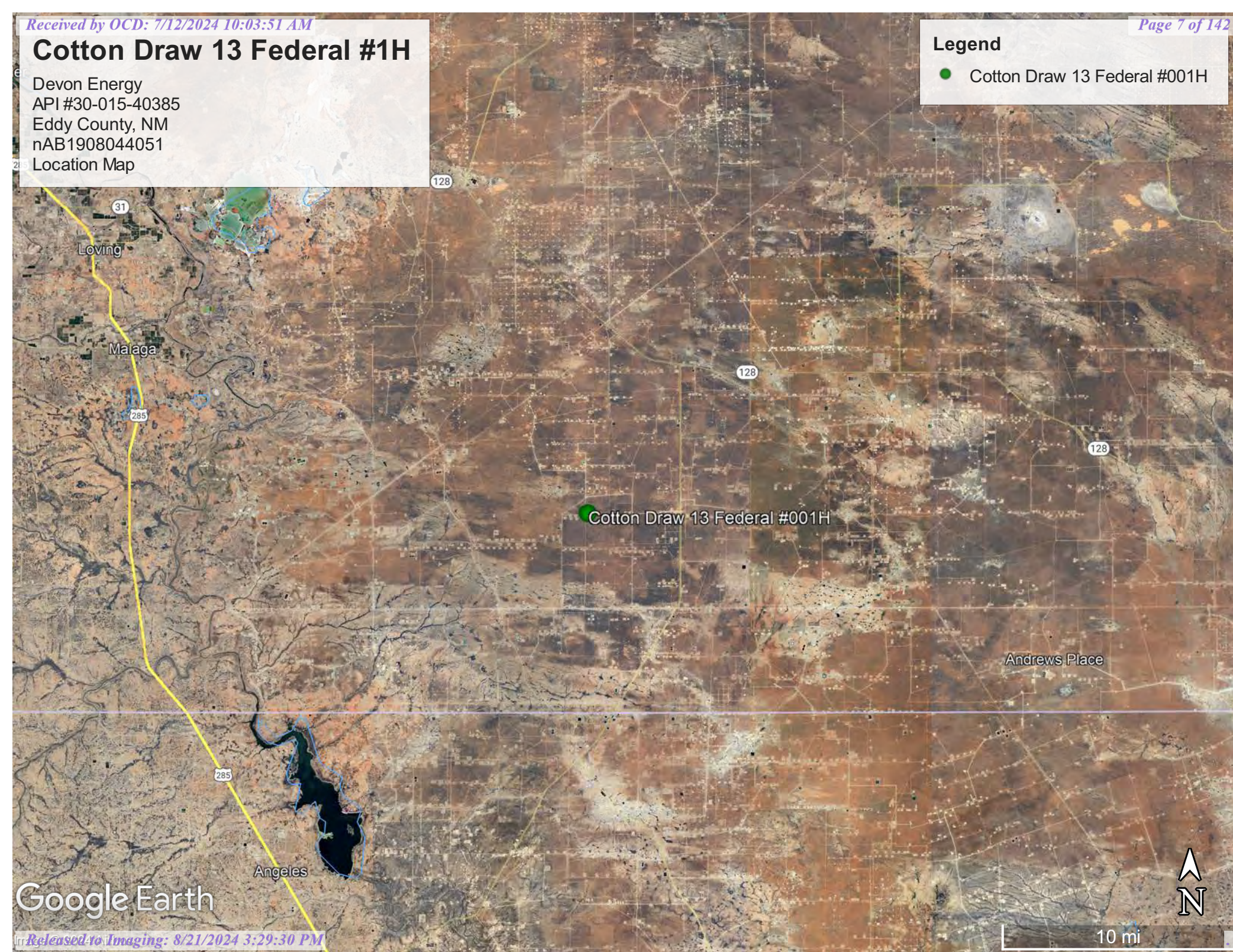


# Cotton Draw 13 Federal #1H

Devon Energy  
API #30-015-40385  
Eddy County, NM  
nAB1908044051  
Location Map

## Legend

● Cotton Draw 13 Federal #001H



Google Earth

10 mi

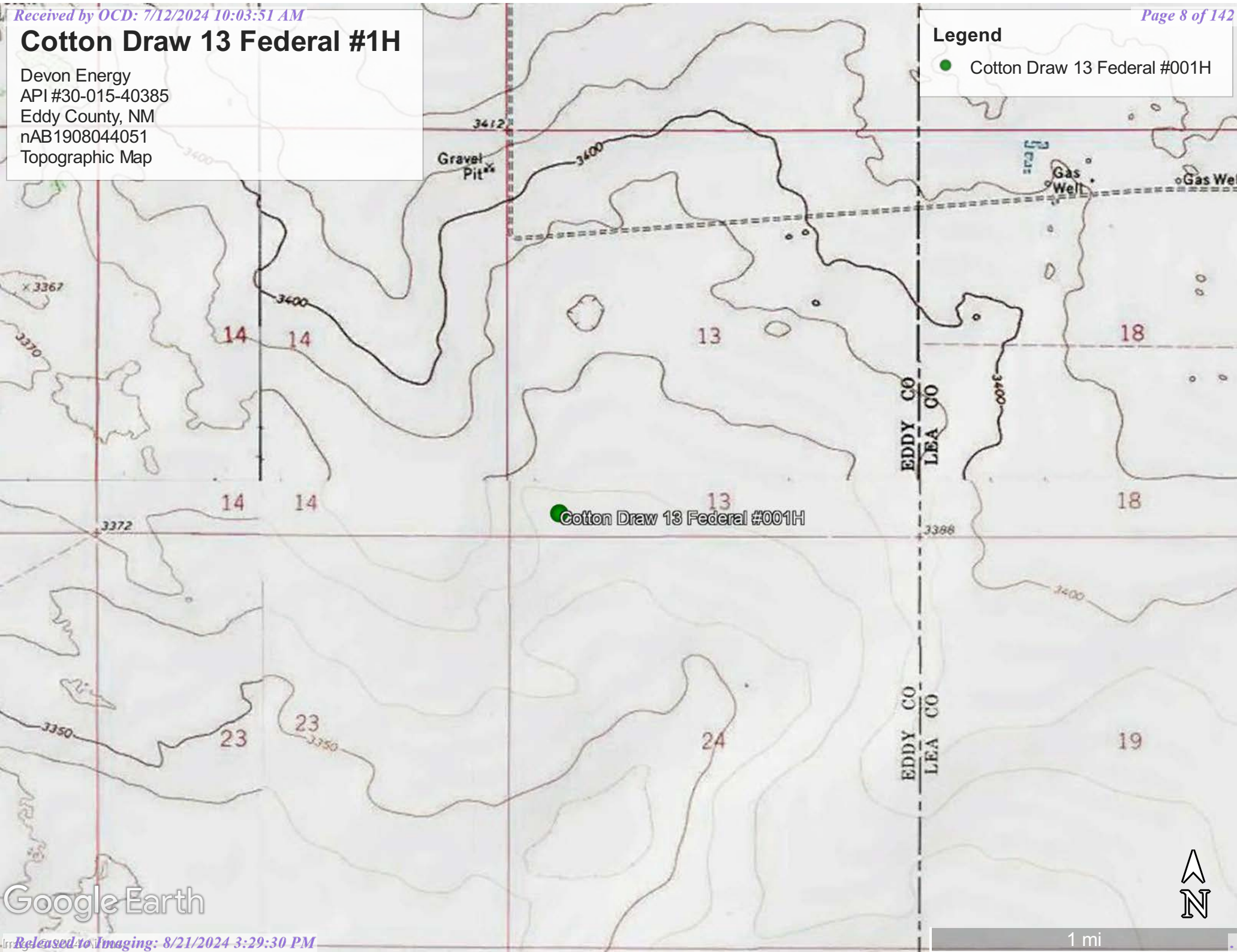


# Cotton Draw 13 Federal #1H

Devon Energy  
API #30-015-40385  
Eddy County, NM  
nAB1908044051  
Topographic Map

## Legend

● Cotton Draw 13 Federal #001H






Google Earth



# Cotton Draw 13 Federal #1H

Devon Energy  
API #30-015-40385  
Eddy County, NM  
nAB1908044051  
Karst Map

## Legend

-  High Karst
-  Low Karst
-  Medium Karst

Cotton Draw 13 Federal #001H



2 mi

Google Earth

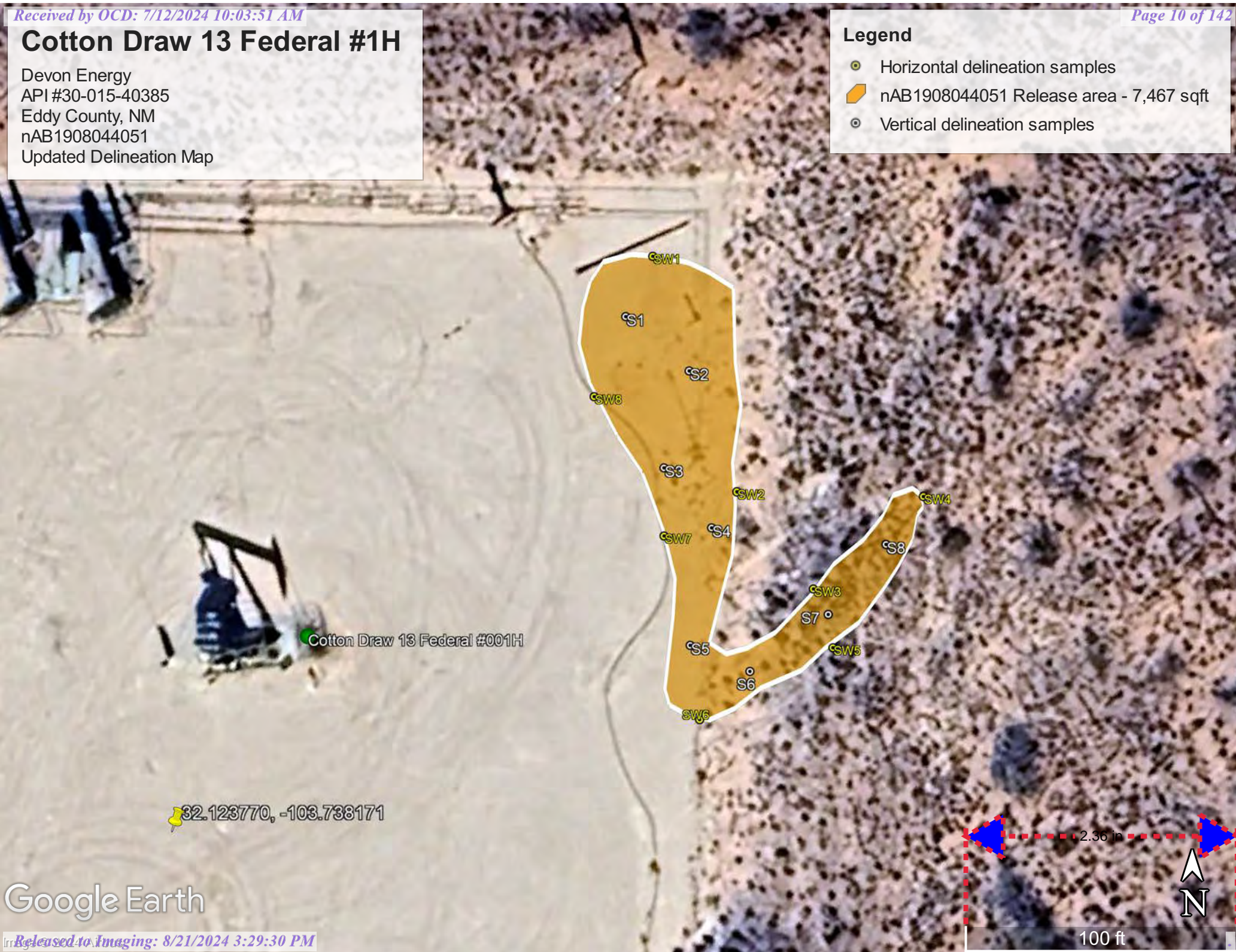


# Cotton Draw 13 Federal #1H

Devon Energy  
API #30-015-40385  
Eddy County, NM  
nAB1908044051  
Updated Delineation Map

## Legend

- Horizontal delineation samples
- nAB1908044051 Release area - 7,467 sqft
- Vertical delineation samples



Google Earth



# Cotton Draw 13 Federal #1H

Devon Energy  
API #30-015-40385  
Eddy County, NM  
nAB1908044051  
Confirmation Sample Map

## Legend

- Confirmation base samples
- Confirmation wall sample
- Excavated area - 234 sqft
- Pasture area - 600 sqft (total)

Cotton Draw 13 Federal #001H



100 ft

Google Earth

## Appendix A

### Water Surveys:

- OSE
- USGS
- Surface Water Map
- Wetlands Map
- Fema Flood Map





# New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

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

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

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

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
<a href="#">C 04618 POD1</a>		CUB	LE	3	4	3	18	25S	32E	621041	3554886	1995	55		
<a href="#">C 04619 POD1</a>		CUB	ED	2	1	2	27	25S	31E	616750	3552958	2987	55		
<a href="#">C 04635 POD1</a>		CUB	ED	4	3	4	01	25S	31E	619958	3558078	3335	55		
<a href="#">C 03830 POD1</a>		CUB	ED	4	2	4	02	25S	31E	618632	3558432	3586	450		
<a href="#">C 02570</a>		CUB	ED	4	2	4	02	25S	31E	618704	3558489*	3634	895		
<a href="#">C 04632 POD1</a>		CUB	ED	1	2	2	10	25S	31E	616802	3557964	3821	55		
<a href="#">C 04620 POD1</a>		CUB	LE	4	3	4	06	25S	32E	621445	3558018	3958	55		
<a href="#">C 02568</a>		CUB	ED	4	3	1	01	25S	31E	619103	3558892*	4022	1025		
<a href="#">C 02569</a>		CUB	ED	4	4	2	02	25S	31E	618699	3558891*	4035	1016		
<a href="#">C 02573</a>		CUB	ED	1	4	2	02	25S	31E	618499	3559091*	4255			
<a href="#">C 02250</a>		CUB	ED	3	1	4	21	25S	31E	614912	3553620*	4317	400	390	10
<a href="#">C 02572</a>		CUB	ED	4	2	2	02	25S	31E	618695	3559294*	4437	852		
<a href="#">C 02571</a>		CUB	ED	4	1	2	02	25S	31E	618292	3559294*	4487	860		
<a href="#">C 02574</a>		CUB	ED	1	1	2	02	25S	31E	618092	3559494*	4720			

Average Depth to Water: **390 feet**

Minimum Depth: **390 feet**

Maximum Depth: **390 feet**

**Record Count:** 14

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

**Easting (X):** 619045

**Northing (Y):** 3554870.21

**Radius:** 5000

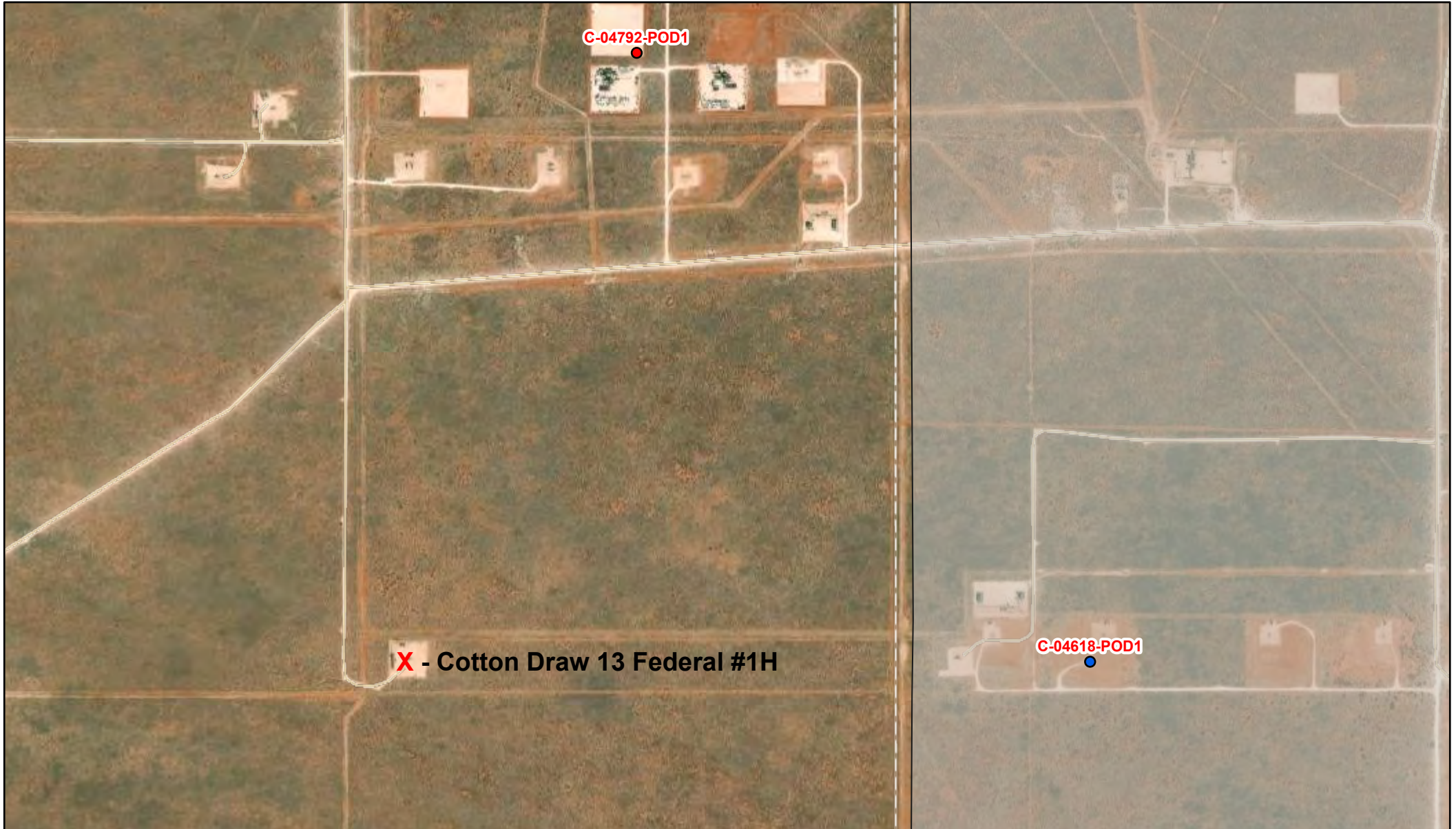
\*UTM location was derived from PLSS - see Help

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.

3/30/23 10:08 AM







WATER COLUMN/ AVERAGE DEPTH TO WATER

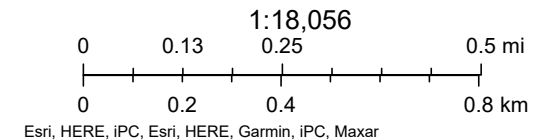
# OSE POD Location Map



6/2/2024, 8:57:39 AM

GIS WATERS PODs

	OSE District Boundary		Artesian Planning Area
	Active		Water Right Regulations
	Plugged		Closure Area





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

## National Water Information System: Web Interface

USGS Water Resources

Data Category:


Groundwater

Geographic Area:

United States

GO

Click to hideNews 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 =

- 320932103443801

Minimum number of levels = 1

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

### USGS 320932103443801 25S.31E.02.23441

Available data for this site

Groundwater: Field measurements

GO

Eddy County, New Mexico

Hydrologic Unit Code 13070001

Latitude 32°09'37.4", Longitude 103°44'29.6" NAD83

Land-surface elevation 3,460.00 feet above NGVD29

The depth of the well is 1,016 feet below land surface.

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

This well is completed in the Rustler Formation (312RSLR) local aquifer.

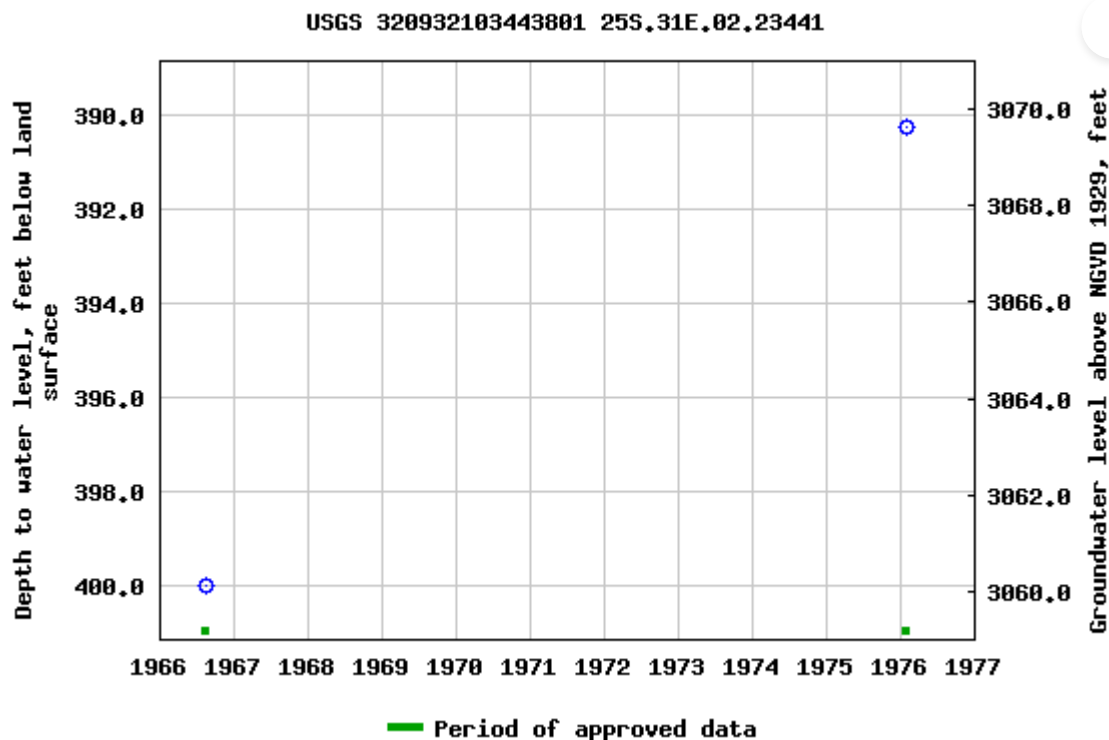
#### Output formats

[Table of data](#)

[Tab-separated data](#)

[Graph of data](#)

[Reselect period](#)



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

[Download a presentation-quality graph](#)

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

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



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

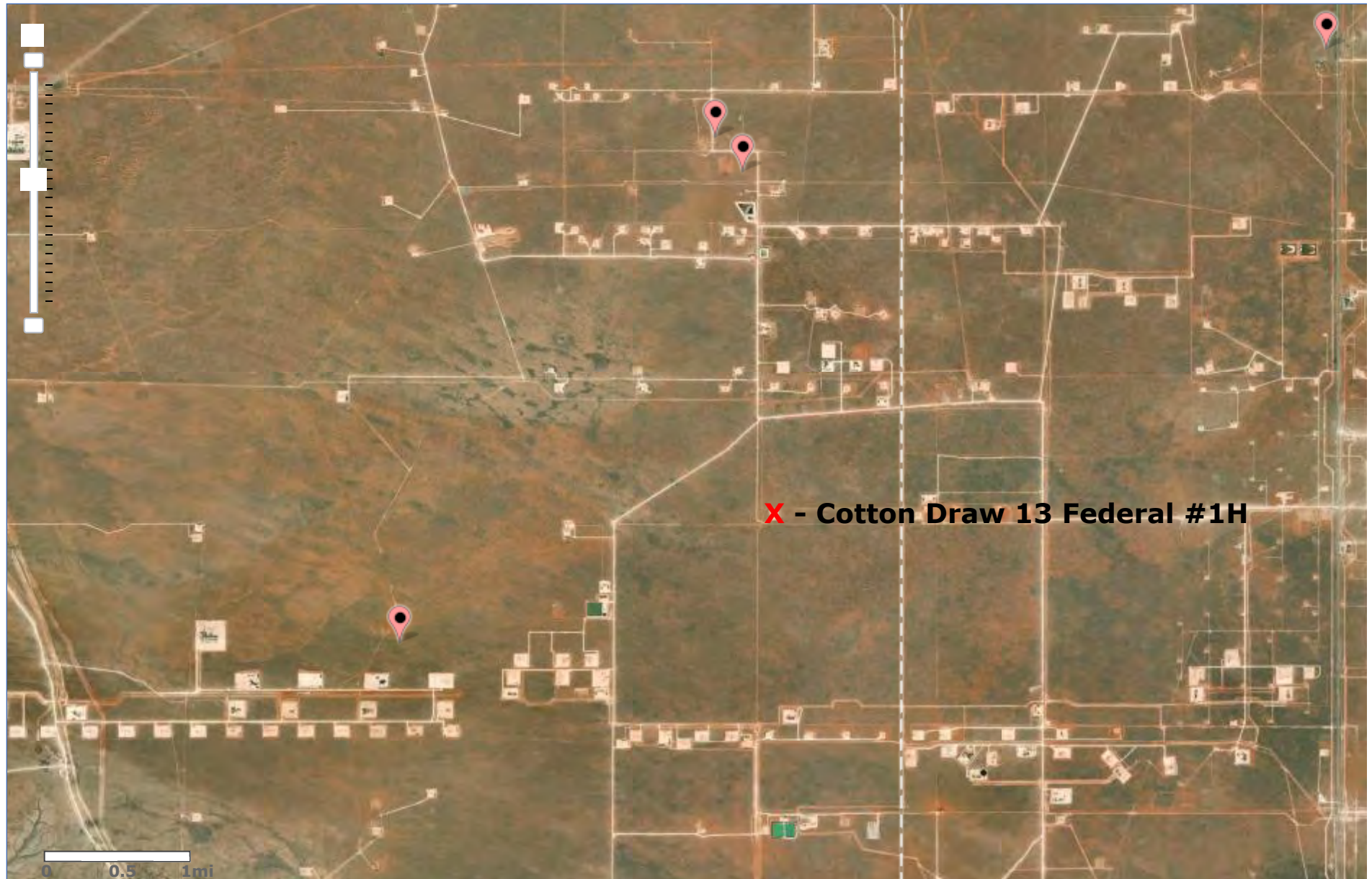
Page Last Modified: 2024-06-02 09:54:14 EDT

0.66 0.56 nadww01





## National Water Information System: Mapper





# Cotton Draw 13 Federal #1H

Devon Energy  
API #30-015-40385  
Eddy County, NM  
nAB1908044051  
Surface Water Map

## Legend

- 15.3 Miles
- Red Bluff Reservoir

Cotton Draw 13 Federal #001H

Red Bluff Reservoir

NEW MEXICO

NEW MEXICO

285

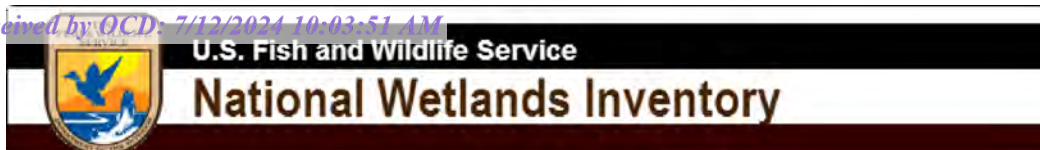
Google Earth

Image © 2024 Airbus

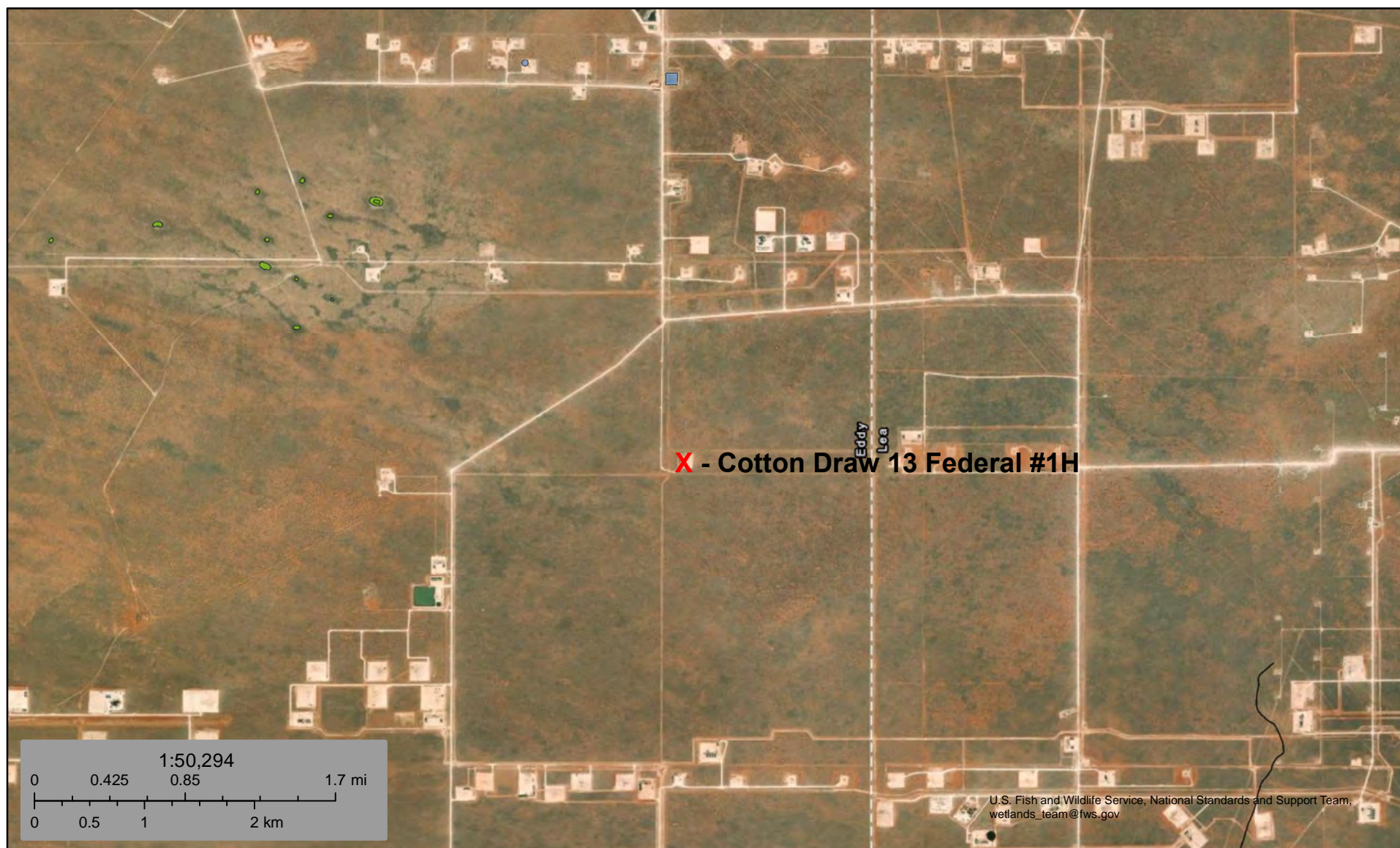
8 mi







## Wetlands Map



June 2, 2024

**Wetlands**

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond

- Lake
- Other
- Riverine

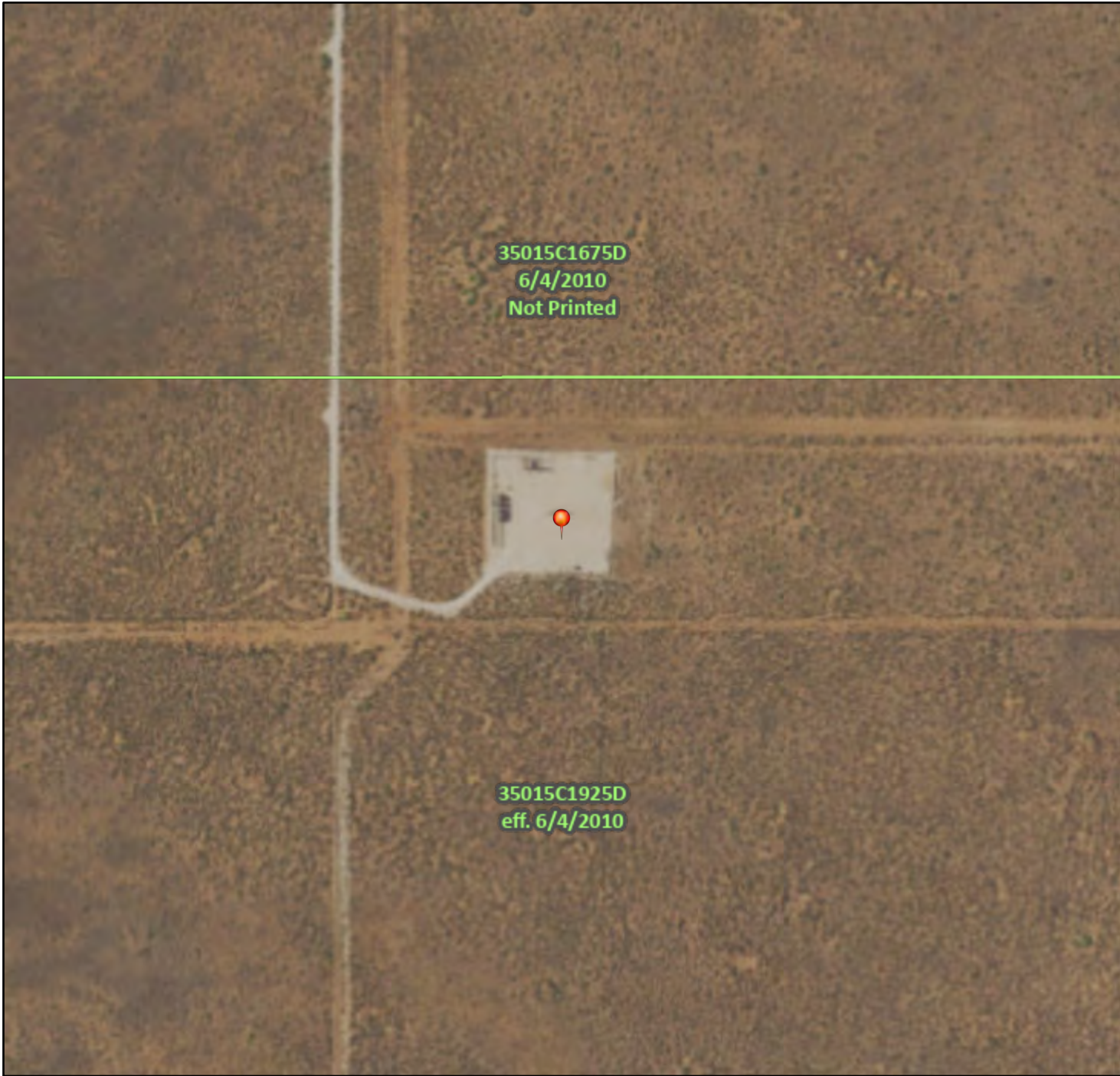
This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.



# National Flood Hazard Layer FIRMMette



103°44'35"W 32°7'41"N



0 250 500 1,000 1,500 2,000 Feet

1:6,000

103°43'58"W 32°7'10"N

Released to Imaging: 8/21/2024 3:29:30 PM

Basemap Imagery Source: USGS National Map 2023

## Legend

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

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



The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 6/2/2024 at 10:08 AM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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



## Appendix B

- Soil Survey
- Soil Map
- Geologic Unit Map

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

---

## 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

---

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

### **Minor Components**

#### **Wink**

*Percent of map unit: 4 percent*  
*Ecological site: R070BD003NM - Loamy Sand*  
*Hydric soil rating: No*

#### **Cacique**

*Percent of map unit: 4 percent*  
*Ecological site: R070BD004NM - Sandy*  
*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

---

*Ecological site:* R070BD003NM - Loamy Sand

*Hydric soil rating:* No

**Kermit**

*Percent of map unit:* 3 percent

*Ecological site:* R070BD005NM - Deep Sand

*Hydric soil rating:* No

## Data Source Information

Soil Survey Area: Eddy Area, New Mexico

Survey Area Data: Version 19, Sep 7, 2023





Soil Map—Eddy Area, New Mexico



Natural Resources  
Conservation Service

Web Soil Survey  
National Cooperative Soil Survey

6/2/2024  
Page 1 of 3

## Soil Map—Eddy Area, New Mexico

## MAP LEGEND

## Area of Interest (AOI)

 Area of Interest (AOI)

## Soils

 Soil Map Unit Polygons

 Soil Map Unit Lines

 Soil Map Unit Points

## Special Point Features



Blowout



Borrow Pit



Clay Spot



Closed Depression



Gravel Pit



Gravelly Spot



Landfill



Lava Flow



Marsh or swamp



Mine or Quarry



Miscellaneous Water



Perennial Water



Rock Outcrop



Saline Spot



Sandy Spot



Severely Eroded Spot



Sinkhole



Slide or Slip



Sodic Spot



Spoil Area



Stony Spot



Very Stony Spot



Wet Spot



Other



Special Line Features

## Water Features



Streams and Canals

## Transportation



Rails



Interstate Highways



US Routes



Major Roads



Local Roads

## Background



Aerial Photography

## MAP INFORMATION

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

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

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

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

Source of Map: Natural Resources Conservation Service

Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

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

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

Soil Survey Area: Eddy Area, New Mexico

Survey Area Data: Version 19, Sep 7, 2023

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

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

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





Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
BB	Berino complex, 0 to 3 percent slopes, eroded	8.6	100.0%
Totals for Area of Interest		8.6	100.0%

### Legend



Eolian and piedmont deposits



Older alluvial deposits of upland plains, piedmont areas, calcic soils, eolian cover sediments of High Plains region

## Cotton Draw 13 Federal #1H

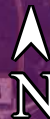
Devon Energy  
API #30-015-40385  
Eddy County, NM  
nAB1908044051  
Geologic Unit Map

Cotton Draw 13 Federal #001H

Google Earth

Image © 2024 Airbus

Released to Imaging: 8/21/2024 3:29:30 PM



2 mi

## Appendix C

- 48-Hour Notification
- NMOCD Correspondence





Tom Pima Oil &lt;tom@pimaoil.com&gt;

**FW: [EXTERNAL] The Oil Conservation Division (OCD) has accepted the application, Application ID: 357729**

1 message

**Woodall, Dale** <Dale.Woodall@dvni.com>

Wed, Jun 26, 2024 at 11:06 AM

To: Tom Pima Oil &lt;tom@pimaoil.com&gt;, Gio PimaOil &lt;gio@pimaoil.com&gt;, Lynsey Pima Oil &lt;lynsey@pimaoil.com&gt;, Delrae Pima Oil &lt;delrae@pimaoil.com&gt;

Dale Woodall

**Environmental Professional****Hobbs, NM****Office: 575-748-1838****Mobile: 405-318-4697**[Dale.Woodall@dvni.com](mailto:Dale.Woodall@dvni.com)**From:** [OCDOnline@state.nm.us](mailto:OCDOnline@state.nm.us) <[OCDOnline@state.nm.us](mailto:OCDOnline@state.nm.us)>**Sent:** Wednesday, June 26, 2024 10:06 AM**To:** Woodall, Dale <[Dale.Woodall@dvni.com](mailto:Dale.Woodall@dvni.com)>**Subject:** [EXTERNAL] The Oil Conservation Division (OCD) has accepted the application, Application ID: 357729

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

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAB1908044051.

The sampling event is expected to take place:

**When:** 06/28/2024 @ 16:30**Where:** M-13-25S-31E 0 FNL 0 FEL (32.123831,-103.73753499)**Additional Information:** Marisa Loya (575) 416-0639**Additional Instructions:** M-13-25S-31E Lat/Long: 32.123831, -103.73753499 From the intersection of NM128 and Buck Jackson Road in Eddy county, travel south on Buck Jackson Rd for 4.75 miles, turn southeast on lease road for 3.2 miles, turn east for 1.9 miles, turn south for 1.1 miles, continue south at Y for 0.7 miles, turn east for 505 feet into location.

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**

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

**New Mexico Energy, Minerals and Natural Resources Department**  
[1220 South St. Francis Drive](#)  
Santa Fe, NM 87505

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

OCD Permitting

Home    Operator Data    Action Status    Action Search Results    Action Status Item Details

[C-141] Release Corrective Action (C-141) Application

Submission Information

Submission ID:	16106	Districts:	Artesia
Operator:	[6137] DEVON ENERGY PRODUCTION COMPANY, LP	Counties:	Eddy
Description:	DEVON ENERGY PRODUCTION COMPANY, LP [6137] , COTTON DRAW 13 FEDERAL #001H , nAB1908044051		
Status:	REJECTED		
Status Date:	03/26/2021		
References (2):	30-015-40385, nAB1908044051		

Forms

Attachments:    [C-141, Remediation Activities](#)

Questions

This submission type does not have questions, at this time.



Comments

No comments found for this submission.

Conditions

No conditions found for this submission.

Reasons

Summary:

chensley (3/26/2021), When nearby wells are used to determine depth to groundwater, the wells should be no further than ½ mile away from the site, and data should be no more than 25 years old, and well construction information should be provided. If evidence of depth to ground water within a ½ mile radius of the site cannot be provided, impacted soils will need to meet Table 1 Closure Criteria for ground water at a depth of 50 feet or less.

chensley (3/26/2021), All off pad areas must contain a minimum of 4 feet non-waste containing uncontaminated, earthen material with chloride concentrations less than 600 mg/kg. In the pasture area, 4 feet below the ground surface, soil contamination limits revert back to Table 1 “Closure Criteria for Soils Impacted by a Release” included in the spill rule <http://164.64.110.134/parts/title19/19.015.0029.html>

Go Back

## Appendix D

### ○ Photographic Documentation

Assessment



Lease Sign



Pad Area North1



Pad Area North2



Pad Area South1



Cotton Draw 13 Federal #001H



Pad Area South2



Pasture Area South



Pasture Area North

Excavation



Flagging/Marking of S-3 Area



Flagging/Marking of S-3 Area



Cotton Draw 13 Federal #001H



Flagging/Marking of S-3 Area



Excavation of S-3 Area



Excavation of S-3 Area



Excavation of S-3 Area



Excavation of S-3 Area



**Post Excavation (Backfill)**



**Post Excavation Facing Southwest**



**Post Excavation Facing Southeast**



**Post Excavation Facing Northeast**



**Post Excavation Facing Northwest**



## 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 13 Fed. 001 H

Work Order: E305079

Job Number: 01058-0007

Received: 5/15/2023

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
5/18/23

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: 5/18/23



Tom Bynum  
PO Box 247  
Plains, TX 79355-0247

Project Name: Cotton Draw 13 Fed. 001 H  
Workorder: E305079  
Date Received: 5/15/2023 5:00:00AM

Tom Bynum,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/15/2023 5:00:00AM, under the Project Name: Cotton Draw 13 Fed. 001 H.

The analytical test results summarized in this report with the Project Name: Cotton Draw 13 Fed. 001 H 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	Project Name:	Cotton Draw 13 Fed. 001 H	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	05/18/23 09:56

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
S1-1	E305079-01A	Soil	05/10/23	05/15/23	Glass Jar, 2 oz.
S1-2	E305079-02A	Soil	05/10/23	05/15/23	Glass Jar, 2 oz.
S1-3	E305079-03A	Soil	05/10/23	05/15/23	Glass Jar, 2 oz.
S1-4	E305079-04A	Soil	05/10/23	05/15/23	Glass Jar, 2 oz.
S2-1	E305079-05A	Soil	05/10/23	05/15/23	Glass Jar, 2 oz.
S2-2	E305079-06A	Soil	05/10/23	05/15/23	Glass Jar, 2 oz.
S2-3	E305079-07A	Soil	05/10/23	05/15/23	Glass Jar, 2 oz.
S2-4	E305079-08A	Soil	05/10/23	05/15/23	Glass Jar, 2 oz.
S3-1	E305079-09A	Soil	05/10/23	05/15/23	Glass Jar, 2 oz.
S3-2	E305079-10A	Soil	05/10/23	05/15/23	Glass Jar, 2 oz.
S3-3	E305079-11A	Soil	05/10/23	05/15/23	Glass Jar, 2 oz.
S3-4	E305079-12A	Soil	05/10/23	05/15/23	Glass Jar, 2 oz.
S3-5	E305079-13A	Soil	05/10/23	05/15/23	Glass Jar, 2 oz.
S4-1	E305079-14A	Soil	05/10/23	05/15/23	Glass Jar, 2 oz.
S4-2	E305079-15A	Soil	05/10/23	05/15/23	Glass Jar, 2 oz.
S4-3	E305079-16A	Soil	05/10/23	05/15/23	Glass Jar, 2 oz.
S4-4	E305079-17A	Soil	05/10/23	05/15/23	Glass Jar, 2 oz.
S4-5	E305079-18A	Soil	05/10/23	05/15/23	Glass Jar, 2 oz.
S5-1	E305079-19A	Soil	05/10/23	05/15/23	Glass Jar, 2 oz.
S5-2	E305079-20A	Soil	05/10/23	05/15/23	Glass Jar, 2 oz.





## Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Cotton Draw 13 Fed. 001 H Project Number: 01058-0007 Project Manager: Tom Bynum	<b>Reported:</b> 5/18/2023 9:56:42AM
---	---	---

### S1-1

#### E305079-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2320002	
Benzene	ND	0.0250	1	05/15/23	05/16/23	
Ethylbenzene	ND	0.0250	1	05/15/23	05/16/23	
Toluene	ND	0.0250	1	05/15/23	05/16/23	
o-Xylene	ND	0.0250	1	05/15/23	05/16/23	
p,m-Xylene	ND	0.0500	1	05/15/23	05/16/23	
Total Xylenes	ND	0.0250	1	05/15/23	05/16/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	96.4 %	70-130		05/15/23	05/16/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2320002	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/15/23	05/16/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	92.6 %	70-130		05/15/23	05/16/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KM		Batch: 2320013	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/15/23	05/15/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/15/23	05/15/23	
<i>Surrogate: n-Nonane</i>	98.8 %	50-200		05/15/23	05/15/23	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2320005	
Chloride	27.6	20.0	1	05/15/23	05/15/23	



## Sample Data

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

Project Name: Cotton Draw 13 Fed. 001 H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
5/18/2023 9:56:42AM

## S1-2

## E305079-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2320002
Benzene	ND	0.0250	1	05/15/23	05/15/23	
Ethylbenzene	ND	0.0250	1	05/15/23	05/15/23	
Toluene	ND	0.0250	1	05/15/23	05/15/23	
o-Xylene	ND	0.0250	1	05/15/23	05/15/23	
p,m-Xylene	ND	0.0500	1	05/15/23	05/15/23	
Total Xylenes	ND	0.0250	1	05/15/23	05/15/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.9 %	70-130		05/15/23	05/15/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2320002
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/15/23	05/15/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.0 %	70-130		05/15/23	05/15/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2320013
Diesel Range Organics (C10-C28)	ND	25.0	1	05/15/23	05/15/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/15/23	05/15/23	
<i>Surrogate: n-Nonane</i>						
	95.5 %	50-200		05/15/23	05/15/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2320005
Chloride	ND	20.0	1	05/15/23	05/15/23	



## Sample Data

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

Project Name: Cotton Draw 13 Fed. 001 H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
5/18/2023 9:56:42AM

## S1-3

## E305079-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2320002
Benzene	ND	0.0250	1	05/15/23	05/16/23	
Ethylbenzene	ND	0.0250	1	05/15/23	05/16/23	
Toluene	ND	0.0250	1	05/15/23	05/16/23	
o-Xylene	ND	0.0250	1	05/15/23	05/16/23	
p,m-Xylene	ND	0.0500	1	05/15/23	05/16/23	
Total Xylenes	ND	0.0250	1	05/15/23	05/16/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.5 %	70-130		05/15/23	05/16/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2320002
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/15/23	05/16/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.0 %	70-130		05/15/23	05/16/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2320013
Diesel Range Organics (C10-C28)	ND	25.0	1	05/15/23	05/15/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/15/23	05/15/23	
<i>Surrogate: n-Nonane</i>						
	93.8 %	50-200		05/15/23	05/15/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2320005
Chloride	20.2	20.0	1	05/15/23	05/15/23	





Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw 13 Fed. 001 H	<b>Reported:</b> 5/18/2023 9:56:42AM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

S1-4

E305079-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2320002	
Benzene	ND	0.0250	1	05/15/23	05/16/23	
Ethylbenzene	ND	0.0250	1	05/15/23	05/16/23	
Toluene	ND	0.0250	1	05/15/23	05/16/23	
o-Xylene	ND	0.0250	1	05/15/23	05/16/23	
p,m-Xylene	ND	0.0500	1	05/15/23	05/16/23	
Total Xylenes	ND	0.0250	1	05/15/23	05/16/23	
Surrogate: 4-Bromochlorobenzene-PID	96.6 %	70-130		05/15/23	05/16/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2320002	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/15/23	05/16/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	94.0 %	70-130		05/15/23	05/16/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KM		Batch: 2320013	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/15/23	05/15/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/15/23	05/15/23	
Surrogate: n-Nonane	95.9 %	50-200		05/15/23	05/15/23	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2320005	
Chloride	ND	20.0	1	05/15/23	05/15/23	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw 13 Fed. 001 H	<b>Reported:</b> 5/18/2023 9:56:42AM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

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E305079-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2320002	
Benzene	ND	0.0250	1	05/15/23	05/16/23	
Ethylbenzene	ND	0.0250	1	05/15/23	05/16/23	
Toluene	ND	0.0250	1	05/15/23	05/16/23	
o-Xylene	ND	0.0250	1	05/15/23	05/16/23	
p,m-Xylene	ND	0.0500	1	05/15/23	05/16/23	
Total Xylenes	ND	0.0250	1	05/15/23	05/16/23	
Surrogate: 4-Bromochlorobenzene-PID	96.8 %	70-130		05/15/23	05/16/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2320002	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/15/23	05/16/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	93.3 %	70-130		05/15/23	05/16/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KM		Batch: 2320013	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/15/23	05/15/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/15/23	05/15/23	
Surrogate: n-Nonane	98.3 %	50-200		05/15/23	05/15/23	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2320005	
Chloride	30.1	20.0	1	05/15/23	05/15/23	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw 13 Fed. 001 H	<b>Reported:</b> 5/18/2023 9:56:42AM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

S2-2

E305079-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2320002	
Benzene	ND	0.0250	1	05/15/23	05/16/23	
Ethylbenzene	ND	0.0250	1	05/15/23	05/16/23	
Toluene	ND	0.0250	1	05/15/23	05/16/23	
o-Xylene	ND	0.0250	1	05/15/23	05/16/23	
p,m-Xylene	ND	0.0500	1	05/15/23	05/16/23	
Total Xylenes	ND	0.0250	1	05/15/23	05/16/23	
Surrogate: 4-Bromochlorobenzene-PID	97.4 %	70-130		05/15/23	05/16/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2320002	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/15/23	05/16/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	91.8 %	70-130		05/15/23	05/16/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KM		Batch: 2320013	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/15/23	05/15/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/15/23	05/15/23	
Surrogate: n-Nonane	96.3 %	50-200		05/15/23	05/15/23	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2320005	
Chloride	119	20.0	1	05/15/23	05/15/23	





Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw 13 Fed. 001 H	<b>Reported:</b> 5/18/2023 9:56:42AM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

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E305079-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2320002	
Benzene	ND	0.0250	1	05/15/23	05/16/23	
Ethylbenzene	ND	0.0250	1	05/15/23	05/16/23	
Toluene	ND	0.0250	1	05/15/23	05/16/23	
o-Xylene	ND	0.0250	1	05/15/23	05/16/23	
p,m-Xylene	ND	0.0500	1	05/15/23	05/16/23	
Total Xylenes	ND	0.0250	1	05/15/23	05/16/23	
Surrogate: 4-Bromochlorobenzene-PID	96.3 %	70-130		05/15/23	05/16/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2320002	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/15/23	05/16/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	93.3 %	70-130		05/15/23	05/16/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KM		Batch: 2320013	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/15/23	05/15/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/15/23	05/15/23	
Surrogate: n-Nonane	96.1 %	50-200		05/15/23	05/15/23	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2320005	
Chloride	20.4	20.0	1	05/15/23	05/15/23	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw 13 Fed. 001 H	Reported: 5/18/2023 9:56:42AM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

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E305079-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: RKS		Batch: 2320002	
Benzene	ND	0.0250	1	05/15/23	05/16/23	
Ethylbenzene	ND	0.0250	1	05/15/23	05/16/23	
Toluene	ND	0.0250	1	05/15/23	05/16/23	
o-Xylene	ND	0.0250	1	05/15/23	05/16/23	
p,m-Xylene	ND	0.0500	1	05/15/23	05/16/23	
Total Xylenes	ND	0.0250	1	05/15/23	05/16/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.1 %	70-130		05/15/23	05/16/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: RKS		Batch: 2320002	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/15/23	05/16/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.3 %	70-130		05/15/23	05/16/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: KM		Batch: 2320013	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/15/23	05/15/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/15/23	05/15/23	
<i>Surrogate: n-Nonane</i>						
	98.5 %	50-200		05/15/23	05/15/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2320005	
Chloride	31.2	20.0	1	05/15/23	05/15/23	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw 13 Fed. 001 H	<b>Reported:</b> 5/18/2023 9:56:42AM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

S3-1

E305079-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2320002	
Benzene	ND	0.0250	1	05/15/23	05/16/23	
Ethylbenzene	ND	0.0250	1	05/15/23	05/16/23	
Toluene	ND	0.0250	1	05/15/23	05/16/23	
o-Xylene	ND	0.0250	1	05/15/23	05/16/23	
p,m-Xylene	ND	0.0500	1	05/15/23	05/16/23	
Total Xylenes	ND	0.0250	1	05/15/23	05/16/23	
Surrogate: 4-Bromochlorobenzene-PID	95.2 %	70-130		05/15/23	05/16/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2320002	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/15/23	05/16/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	91.5 %	70-130		05/15/23	05/16/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KM		Batch: 2320013	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/15/23	05/15/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/15/23	05/15/23	
Surrogate: n-Nonane	88.0 %	50-200		05/15/23	05/15/23	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2320005	
Chloride	52.5	40.0	2	05/15/23	05/15/23	





Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw 13 Fed. 001 H	<b>Reported:</b> 5/18/2023 9:56:42AM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

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E305079-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2320002	
Benzene	ND	0.0250	1	05/15/23	05/16/23	
Ethylbenzene	ND	0.0250	1	05/15/23	05/16/23	
Toluene	ND	0.0250	1	05/15/23	05/16/23	
o-Xylene	ND	0.0250	1	05/15/23	05/16/23	
p,m-Xylene	ND	0.0500	1	05/15/23	05/16/23	
Total Xylenes	ND	0.0250	1	05/15/23	05/16/23	
Surrogate: 4-Bromochlorobenzene-PID	96.4 %	70-130		05/15/23	05/16/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2320002	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/15/23	05/16/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	94.3 %	70-130		05/15/23	05/16/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KM		Batch: 2320013	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/15/23	05/15/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/15/23	05/15/23	
Surrogate: n-Nonane	89.3 %	50-200		05/15/23	05/15/23	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2320005	
Chloride	45.7	40.0	2	05/15/23	05/15/23	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw 13 Fed. 001 H	<b>Reported:</b> 5/18/2023 9:56:42AM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

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E305079-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2320002	
Benzene	ND	0.0250	1	05/15/23	05/16/23	
Ethylbenzene	ND	0.0250	1	05/15/23	05/16/23	
Toluene	ND	0.0250	1	05/15/23	05/16/23	
o-Xylene	ND	0.0250	1	05/15/23	05/16/23	
p,m-Xylene	ND	0.0500	1	05/15/23	05/16/23	
Total Xylenes	ND	0.0250	1	05/15/23	05/16/23	
Surrogate: 4-Bromochlorobenzene-PID	95.5 %	70-130		05/15/23	05/16/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2320002	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/15/23	05/16/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.9 %	70-130		05/15/23	05/16/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KM		Batch: 2320013	
Diesel Range Organics (C10-C28)	184	25.0	1	05/15/23	05/15/23	
Oil Range Organics (C28-C36)	189	50.0	1	05/15/23	05/15/23	
Surrogate: n-Nonane	91.3 %	50-200		05/15/23	05/15/23	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2320005	
Chloride	95.5	20.0	1	05/15/23	05/15/23	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw 13 Fed. 001 H	<b>Reported:</b> 5/18/2023 9:56:42AM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

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E305079-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2320002	
Benzene	ND	0.0250	1	05/15/23	05/16/23	
Ethylbenzene	ND	0.0250	1	05/15/23	05/16/23	
Toluene	ND	0.0250	1	05/15/23	05/16/23	
o-Xylene	ND	0.0250	1	05/15/23	05/16/23	
p,m-Xylene	ND	0.0500	1	05/15/23	05/16/23	
Total Xylenes	ND	0.0250	1	05/15/23	05/16/23	
Surrogate: 4-Bromochlorobenzene-PID	95.8 %	70-130		05/15/23	05/16/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2320002	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/15/23	05/16/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	91.5 %	70-130		05/15/23	05/16/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KM		Batch: 2320013	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/15/23	05/15/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/15/23	05/15/23	
Surrogate: n-Nonane	91.0 %	50-200		05/15/23	05/15/23	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2320005	
Chloride	166	20.0	1	05/15/23	05/15/23	





Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw 13 Fed. 001 H	<b>Reported:</b> 5/18/2023 9:56:42AM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

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E305079-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2320002	
Benzene	ND	0.0250	1	05/15/23	05/16/23	
Ethylbenzene	ND	0.0250	1	05/15/23	05/16/23	
Toluene	ND	0.0250	1	05/15/23	05/16/23	
o-Xylene	ND	0.0250	1	05/15/23	05/16/23	
p,m-Xylene	ND	0.0500	1	05/15/23	05/16/23	
Total Xylenes	ND	0.0250	1	05/15/23	05/16/23	
Surrogate: 4-Bromochlorobenzene-PID	96.5 %	70-130		05/15/23	05/16/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2320002	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/15/23	05/16/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.2 %	70-130		05/15/23	05/16/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KM		Batch: 2320013	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/15/23	05/16/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/15/23	05/16/23	
Surrogate: n-Nonane	92.3 %	50-200		05/15/23	05/16/23	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2320005	
Chloride	ND	20.0	1	05/15/23	05/15/23	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw 13 Fed. 001 H	<b>Reported:</b> 5/18/2023 9:56:42AM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

S4-1

E305079-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2320002	
Benzene	ND	0.0250	1	05/15/23	05/16/23	
Ethylbenzene	ND	0.0250	1	05/15/23	05/16/23	
Toluene	ND	0.0250	1	05/15/23	05/16/23	
o-Xylene	ND	0.0250	1	05/15/23	05/16/23	
p,m-Xylene	ND	0.0500	1	05/15/23	05/16/23	
Total Xylenes	ND	0.0250	1	05/15/23	05/16/23	
Surrogate: 4-Bromochlorobenzene-PID	95.2 %	70-130		05/15/23	05/16/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2320002	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/15/23	05/16/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	91.8 %	70-130		05/15/23	05/16/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KM		Batch: 2320013	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/15/23	05/16/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/15/23	05/16/23	
Surrogate: n-Nonane	94.1 %	50-200		05/15/23	05/16/23	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2320005	
Chloride	57.9	40.0	2	05/15/23	05/15/23	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw 13 Fed. 001 H	<b>Reported:</b> 5/18/2023 9:56:42AM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

S4-2

E305079-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2320002
Benzene	ND	0.0250	1	05/15/23	05/16/23	
Ethylbenzene	ND	0.0250	1	05/15/23	05/16/23	
Toluene	ND	0.0250	1	05/15/23	05/16/23	
o-Xylene	ND	0.0250	1	05/15/23	05/16/23	
p,m-Xylene	ND	0.0500	1	05/15/23	05/16/23	
Total Xylenes	ND	0.0250	1	05/15/23	05/16/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.2 %	70-130		05/15/23	05/16/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2320002
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/15/23	05/16/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.5 %	70-130		05/15/23	05/16/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2320013
Diesel Range Organics (C10-C28)	ND	25.0	1	05/15/23	05/16/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/15/23	05/16/23	
<i>Surrogate: n-Nonane</i>						
	90.5 %	50-200		05/15/23	05/16/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2320005
Chloride	86.5	40.0	2	05/15/23	05/15/23	





## Sample Data

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

Project Name: Cotton Draw 13 Fed. 001 H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
5/18/2023 9:56:42AM

## S4-3

## E305079-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2320002
Benzene	ND	0.0250	1	05/15/23	05/16/23	
Ethylbenzene	ND	0.0250	1	05/15/23	05/16/23	
Toluene	ND	0.0250	1	05/15/23	05/16/23	
o-Xylene	ND	0.0250	1	05/15/23	05/16/23	
p,m-Xylene	ND	0.0500	1	05/15/23	05/16/23	
Total Xylenes	ND	0.0250	1	05/15/23	05/16/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.0 %	70-130		05/15/23	05/16/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2320002
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/15/23	05/16/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.1 %	70-130		05/15/23	05/16/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2320013
Diesel Range Organics (C10-C28)	ND	25.0	1	05/15/23	05/16/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/15/23	05/16/23	
<i>Surrogate: n-Nonane</i>						
	89.5 %	50-200		05/15/23	05/16/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2320005
Chloride	197	40.0	2	05/15/23	05/15/23	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw 13 Fed. 001 H	<b>Reported:</b> 5/18/2023 9:56:42AM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

S4-4

E305079-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2320002	
Benzene	ND	0.0250	1	05/15/23	05/16/23	
Ethylbenzene	ND	0.0250	1	05/15/23	05/16/23	
Toluene	ND	0.0250	1	05/15/23	05/16/23	
o-Xylene	ND	0.0250	1	05/15/23	05/16/23	
p,m-Xylene	ND	0.0500	1	05/15/23	05/16/23	
Total Xylenes	ND	0.0250	1	05/15/23	05/16/23	
Surrogate: 4-Bromochlorobenzene-PID	95.1 %	70-130		05/15/23	05/16/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2320002	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/15/23	05/16/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.3 %	70-130		05/15/23	05/16/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KM		Batch: 2320013	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/15/23	05/16/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/15/23	05/16/23	
Surrogate: n-Nonane	92.3 %	50-200		05/15/23	05/16/23	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2320005	
Chloride	248	40.0	2	05/15/23	05/16/23	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw 13 Fed. 001 H	<b>Reported:</b> 5/18/2023 9:56:42AM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

S4-5

E305079-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2320002	
Benzene	ND	0.0250	1	05/15/23	05/16/23	
Ethylbenzene	ND	0.0250	1	05/15/23	05/16/23	
Toluene	ND	0.0250	1	05/15/23	05/16/23	
o-Xylene	ND	0.0250	1	05/15/23	05/16/23	
p,m-Xylene	ND	0.0500	1	05/15/23	05/16/23	
Total Xylenes	ND	0.0250	1	05/15/23	05/16/23	
Surrogate: 4-Bromochlorobenzene-PID	95.0 %	70-130		05/15/23	05/16/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2320002	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/15/23	05/16/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	95.3 %	70-130		05/15/23	05/16/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KM		Batch: 2320013	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/15/23	05/16/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/15/23	05/16/23	
Surrogate: n-Nonane	92.8 %	50-200		05/15/23	05/16/23	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2320005	
Chloride	ND	20.0	1	05/15/23	05/16/23	





## Sample Data

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

Project Name: Cotton Draw 13 Fed. 001 H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
5/18/2023 9:56:42AM

S5-1

E305079-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2320002
Benzene	ND	0.0250	1	05/15/23	05/16/23	
Ethylbenzene	ND	0.0250	1	05/15/23	05/16/23	
Toluene	ND	0.0250	1	05/15/23	05/16/23	
o-Xylene	ND	0.0250	1	05/15/23	05/16/23	
p,m-Xylene	ND	0.0500	1	05/15/23	05/16/23	
Total Xylenes	ND	0.0250	1	05/15/23	05/16/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.7 %	70-130		05/15/23	05/16/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2320002
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/15/23	05/16/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.9 %	70-130		05/15/23	05/16/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2320013
Diesel Range Organics (C10-C28)	ND	25.0	1	05/15/23	05/16/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/15/23	05/16/23	
<i>Surrogate: n-Nonane</i>						
	91.0 %	50-200		05/15/23	05/16/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2320005
Chloride	ND	20.0	1	05/15/23	05/16/23	



## Sample Data

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

Project Name: Cotton Draw 13 Fed. 001 H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
5/18/2023 9:56:42AM

S5-2

E305079-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2320002
Benzene	ND	0.0250	1	05/15/23	05/16/23	
Ethylbenzene	ND	0.0250	1	05/15/23	05/16/23	
Toluene	ND	0.0250	1	05/15/23	05/16/23	
o-Xylene	ND	0.0250	1	05/15/23	05/16/23	
p,m-Xylene	ND	0.0500	1	05/15/23	05/16/23	
Total Xylenes	ND	0.0250	1	05/15/23	05/16/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.2 %	70-130		05/15/23	05/16/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2320002
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/15/23	05/16/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.6 %	70-130		05/15/23	05/16/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2320013
Diesel Range Organics (C10-C28)	ND	25.0	1	05/15/23	05/16/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/15/23	05/16/23	
<i>Surrogate: n-Nonane</i>						
	92.1 %	50-200		05/15/23	05/16/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2320005
Chloride	21.3	20.0	1	05/15/23	05/16/23	



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw 13 Fed. 001 H	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	5/18/2023 9:56:42AM

Volatile Organics by EPA 8021B

Analyst: RKS

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 (2320002-BLK1) Prepared: 05/15/23 Analyzed: 05/15/23

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	7.72		8.00		96.6	70-130			

LCS (2320002-BS1) Prepared: 05/15/23 Analyzed: 05/15/23

Benzene	4.38	0.0250	5.00		87.7	70-130			
Ethylbenzene	4.58	0.0250	5.00		91.6	70-130			
Toluene	4.66	0.0250	5.00		93.1	70-130			
o-Xylene	4.72	0.0250	5.00		94.3	70-130			
p,m-Xylene	9.30	0.0500	10.0		93.0	70-130			
Total Xylenes	14.0	0.0250	15.0		93.4	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.77		8.00		97.1	70-130			

Matrix Spike (2320002-MS1) Source: E305079-02 Prepared: 05/15/23 Analyzed: 05/15/23

Benzene	4.41	0.0250	5.00	ND	88.2	54-133			
Ethylbenzene	4.62	0.0250	5.00	ND	92.4	61-133			
Toluene	4.69	0.0250	5.00	ND	93.8	61-130			
o-Xylene	4.75	0.0250	5.00	ND	95.1	63-131			
p,m-Xylene	9.38	0.0500	10.0	ND	93.8	63-131			
Total Xylenes	14.1	0.0250	15.0	ND	94.2	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.76		8.00		97.0	70-130			

Matrix Spike Dup (2320002-MSD1) Source: E305079-02 Prepared: 05/15/23 Analyzed: 05/16/23

Benzene	4.50	0.0250	5.00	ND	90.0	54-133	2.07	20	
Ethylbenzene	4.72	0.0250	5.00	ND	94.3	61-133	2.09	20	
Toluene	4.78	0.0250	5.00	ND	95.6	61-130	1.84	20	
o-Xylene	4.85	0.0250	5.00	ND	96.9	63-131	1.93	20	
p,m-Xylene	9.58	0.0500	10.0	ND	95.8	63-131	2.18	20	
Total Xylenes	14.4	0.0250	15.0	ND	96.2	63-131	2.10	20	
Surrogate: 4-Bromochlorobenzene-PID	7.74		8.00		96.8	70-130			





QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw 13 Fed. 001 H	Reported:  5/18/2023 9:56:42AM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

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 (2320002-BLK1) Prepared: 05/15/23 Analyzed: 05/15/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.37		8.00		92.1	70-130			

LCS (2320002-BS2) Prepared: 05/15/23 Analyzed: 05/15/23

Gasoline Range Organics (C6-C10)	42.9	20.0	50.0		85.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.25		8.00		90.7	70-130			

Matrix Spike (2320002-MS2) Source: E305079-02 Prepared: 05/15/23 Analyzed: 05/16/23

Gasoline Range Organics (C6-C10)	43.5	20.0	50.0	ND	87.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.33		8.00		91.6	70-130			

Matrix Spike Dup (2320002-MSD2) Source: E305079-02 Prepared: 05/15/23 Analyzed: 05/16/23

Gasoline Range Organics (C6-C10)	43.1	20.0	50.0	ND	86.1	70-130	1.03	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.46		8.00		93.3	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw 13 Fed. 001 H	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	5/18/2023 9:56:42AM

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 (2320013-BLK1)					Prepared: 05/15/23 Analyzed: 05/15/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	48.1		50.0		96.2	50-200			

LCS (2320013-BS1)					Prepared: 05/15/23 Analyzed: 05/15/23				
Diesel Range Organics (C10-C28)	249	25.0	250		99.8	38-132			
Surrogate: n-Nonane	43.5		50.0		86.9	50-200			

Matrix Spike (2320013-MS1)					Source: E305079-20		Prepared: 05/15/23 Analyzed: 05/15/23		
Diesel Range Organics (C10-C28)	256	25.0	250	ND	102	38-132			
Surrogate: n-Nonane	41.8		50.0		83.6	50-200			

Matrix Spike Dup (2320013-MSD1)					Source: E305079-20		Prepared: 05/15/23 Analyzed: 05/15/23		
Diesel Range Organics (C10-C28)	259	25.0	250	ND	104	38-132	1.44	20	
Surrogate: n-Nonane	41.6		50.0		83.3	50-200			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw 13 Fed. 001 H	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	5/18/2023 9:56:42AM

Anions by EPA 300.0/9056A

Analyst: BA

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

Blank (2320005-BLK1)					Prepared: 05/15/23 Analyzed: 05/15/23				
Chloride	ND	20.0							
LCS (2320005-BS1)					Prepared: 05/15/23 Analyzed: 05/15/23				
Chloride	258	20.0	250		103	90-110			
Matrix Spike (2320005-MS1)					Source: E305079-01		Prepared: 05/15/23 Analyzed: 05/15/23		
Chloride	286	20.0	250	27.6	103	80-120			
Matrix Spike Dup (2320005-MSD1)					Source: E305079-01		Prepared: 05/15/23 Analyzed: 05/15/23		
Chloride	285	20.0	250	27.6	103	80-120	0.244	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 13 Fed. 001 H	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	05/18/23 09:56

- 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.

Project Information

Chain of Custody

Client: Pima Environmental Services Project: <u>Cotton Drive B Feb. 001H</u> 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	Lab Use Only		TAT				EPA Program	
	Attention: <u>Daron</u>	Lab WO# <u>F305079</u>	Job Number <u>010580007</u>	1D	2D	3D	Standard	CWA	SDWA
	Address:	Analysis and Method			RCRA				
	City, State, Zip	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BDOC NM	BDOC TX
	Phone:	State							
	Email:	NM CO UT AZ TX							
Pima Project # <u>1-283-1</u>		Remarks							

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BDOC NM	BDOC TX	Remarks
8:00	5/10/23	S	1	S1-1	1							X		
8:10				S1-2	2									
8:15				S1-3	3									
8:20				S1-4	4									
8:25				S2-1	5									
8:30				S2-2	6									
8:35				S2-3	7									
8:40				S2-4	8									
8:45				S3-1	9									
8:50				S3-2	10									

Additional Instructions: WO# 21146265

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) Kerrine Adams Date 5-12-23 Time 200 Received by: (Signature) Michelle Camps Date 5-12-23 Time 1400

Relinquished by: (Signature) Michelle Camps Date 5-12-23 Time 1700 Received by: (Signature) Andrew M. Foster Date 5-12-23 Time 1700

Relinquished by: (Signature) Andrew M. Foster Date 5-12-23 Time 2300 Received by: (Signature) Andrew M. Foster Date 5/15/23 Time 800

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other \_\_\_\_\_ Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

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

Project Information

Chain of Custody

<b>Client:</b> Pima Environmental Services <b>Project:</b> Cotton Draw 13 Feb. 00TH <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> 1-283-1					<b>Lab Use Only</b> <b>Lab WO#</b> E30509 <b>Job Number</b> 0050004					<b>TAT</b> 1D 2D 3D Standard X				<b>EPA Program</b> CWA SDWA RCRA	
					<b>Analysis and Method</b>									<b>State</b> NM CO UT AZ TX X		<b>Remarks</b>				
<b>Time Sampled</b>	<b>Date Sampled</b>	<b>Matrix</b>	<b>No. of Containers</b>	<b>Sample ID</b>	<b>Lab Number</b>	<b>DRO/DRO by 8015</b>	<b>GRO/DRO by 8015</b>	<b>BTEX by 8021</b>	<b>VOC by 8260</b>	<b>Metals 6010</b>	<b>Chloride 300.0</b>	<b>BDOC NM</b>	<b>BDOC TX</b>							
8:55	5/10/23	S	1	53-3	11							X								
9:00				53-4	12															
9:05				53-5	13															
9:10				54-1	14															
9:15				54-2	15															
9:20				54-3	16															
9:25				54-4	17															
9:30				54-5	18															
9:35				55-1	19															
9:40				55-2	20															
<b>Additional Instructions:</b> WO # 21146265																				
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. <b>Sampled by:</b> AF																				
<b>Relinquished by: (Signature)</b> Karime Adams		<b>Date</b> 5-12-23	<b>Time</b> 200	<b>Received by: (Signature)</b> Michelle Campels		<b>Date</b> 5-12-23	<b>Time</b> 1400	<b>Lab Use Only</b> <b>Received on ice:</b> Y Y N												
<b>Relinquished by: (Signature)</b> Michelle Campels		<b>Date</b> 5-12-23	<b>Time</b> 1700	<b>Received by: (Signature)</b> Andrew Messa		<b>Date</b> 5-12-23	<b>Time</b> 1700	<b>T1</b> <b>T2</b> <b>T3</b>												
<b>Relinquished by: (Signature)</b> Andrew Messa		<b>Date</b> 5-12-23	<b>Time</b> 2300	<b>Received by: (Signature)</b> [Signature]		<b>Date</b> 5/15/23	<b>Time</b> 500	<b>AVG Temp °C</b> 4												
<b>Sample Matrix:</b> S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other																				
<b>Container Type:</b> g - glass, p - poly/plastic, ag - amber glass, v - VOA																				
<b>Note:</b> 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: 5/15/2023 7:11:45AM

## 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:	05/15/23 05:00	Work Order ID:	E305079
Phone:	(575) 631-6977	Date Logged In:	05/15/23 06:46	Logged In By:	Alexa Michaels
Email:	tom@pimaoil.com	Due Date:	05/19/23 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

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

Carrier: CourierComments/Resolution

Project Cotton Draw 13 Fed. 001 H has been separated into 2 workorders/reports due to high sample volume. Workorders are as follows: E305079 and E305080.

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.



Report to:  
Tom Bynum



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Pima Environmental Services-Carlsbad

Project Name: Cotton Draw 13 Fed. 001 H

Work Order: E305080

Job Number: 01058-0007

Received: 5/15/2023

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
5/19/23

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: 5/19/23



Tom Bynum  
PO Box 247  
Plains, TX 79355-0247

Project Name: Cotton Draw 13 Fed. 001 H  
Workorder: E305080  
Date Received: 5/15/2023 5:00:00AM

Tom Bynum,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/15/2023 5:00:00AM, under the Project Name: Cotton Draw 13 Fed. 001 H.

The analytical test results summarized in this report with the Project Name: Cotton Draw 13 Fed. 001 H 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  
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**Alexa Michaels**  
Sample Custody Officer  
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[labadmin@envirotech-inc.com](mailto:labadmin@envirotech-inc.com)

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**Lynn Jarboe**  
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[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	Project Name:	Cotton Draw 13 Fed. 001 H	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	05/19/23 08:39

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
S5-3	E305080-01A	Soil	05/10/23	05/15/23	Glass Jar, 2 oz.
S5-4	E305080-02A	Soil	05/10/23	05/15/23	Glass Jar, 2 oz.
S6-1	E305080-03A	Soil	05/10/23	05/15/23	Glass Jar, 2 oz.
S6-2	E305080-04A	Soil	05/10/23	05/15/23	Glass Jar, 2 oz.
S7-1	E305080-05A	Soil	05/10/23	05/15/23	Glass Jar, 2 oz.
S7-2	E305080-06A	Soil	05/10/23	05/15/23	Glass Jar, 2 oz.
S8-1	E305080-07A	Soil	05/10/23	05/15/23	Glass Jar, 2 oz.
S8-2	E305080-08A	Soil	05/10/23	05/15/23	Glass Jar, 2 oz.
SW-1	E305080-09A	Soil	05/10/23	05/15/23	Glass Jar, 2 oz.
SW-2	E305080-10A	Soil	05/10/23	05/15/23	Glass Jar, 2 oz.
SW-3	E305080-11A	Soil	05/10/23	05/15/23	Glass Jar, 2 oz.
SW-4	E305080-12A	Soil	05/10/23	05/15/23	Glass Jar, 2 oz.
SW-5	E305080-13A	Soil	05/10/23	05/15/23	Glass Jar, 2 oz.
SW-6	E305080-14A	Soil	05/10/23	05/15/23	Glass Jar, 2 oz.
SW-7	E305080-15A	Soil	05/10/23	05/15/23	Glass Jar, 2 oz.
SW-8	E305080-16A	Soil	05/10/23	05/15/23	Glass Jar, 2 oz.



## Sample Data

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

Project Name: Cotton Draw 13 Fed. 001 H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
5/19/2023 8:39:26AM

## S5-3

## E305080-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2320003
Benzene	ND	0.0250	1	05/15/23	05/16/23	
Ethylbenzene	ND	0.0250	1	05/15/23	05/16/23	
Toluene	ND	0.0250	1	05/15/23	05/16/23	
o-Xylene	ND	0.0250	1	05/15/23	05/16/23	
p,m-Xylene	ND	0.0500	1	05/15/23	05/16/23	
Total Xylenes	ND	0.0250	1	05/15/23	05/16/23	
Surrogate: 4-Bromochlorobenzene-PID		105 %	70-130	05/15/23	05/16/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2320003
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/15/23	05/16/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.2 %	70-130	05/15/23	05/16/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2320060
Diesel Range Organics (C10-C28)	ND	25.0	1	05/17/23	05/17/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/17/23	05/17/23	
Surrogate: n-Nonane		97.1 %	50-200	05/17/23	05/17/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2320006
Chloride	ND	20.0	1	05/15/23	05/15/23	



## Sample Data

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

Project Name: Cotton Draw 13 Fed. 001 H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
5/19/2023 8:39:26AM

S5-4

E305080-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2320003	
Benzene	ND	0.0250	1	05/15/23	05/16/23	
Ethylbenzene	ND	0.0250	1	05/15/23	05/16/23	
Toluene	ND	0.0250	1	05/15/23	05/16/23	
o-Xylene	ND	0.0250	1	05/15/23	05/16/23	
p,m-Xylene	ND	0.0500	1	05/15/23	05/16/23	
Total Xylenes	ND	0.0250	1	05/15/23	05/16/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		104 %	70-130	05/15/23	05/16/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2320003	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/15/23	05/16/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		91.1 %	70-130	05/15/23	05/16/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: JL		Batch: 2320060	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/17/23	05/17/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/17/23	05/17/23	
<i>Surrogate: n-Nonane</i>						
		94.2 %	50-200	05/17/23	05/17/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2320006	
Chloride	ND	20.0	1	05/15/23	05/15/23	



## Sample Data

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

Project Name: Cotton Draw 13 Fed. 001 H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
5/19/2023 8:39:26AM

## S6-1

## E305080-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2320003
Benzene	ND	0.0250	1	05/15/23	05/16/23	
Ethylbenzene	ND	0.0250	1	05/15/23	05/16/23	
Toluene	ND	0.0250	1	05/15/23	05/16/23	
o-Xylene	ND	0.0250	1	05/15/23	05/16/23	
p,m-Xylene	ND	0.0500	1	05/15/23	05/16/23	
Total Xylenes	ND	0.0250	1	05/15/23	05/16/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		105 %	70-130	05/15/23	05/16/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2320003
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/15/23	05/16/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		91.0 %	70-130	05/15/23	05/16/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2320060
Diesel Range Organics (C10-C28)	ND	25.0	1	05/17/23	05/17/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/17/23	05/17/23	
<i>Surrogate: n-Nonane</i>						
		97.2 %	50-200	05/17/23	05/17/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2320006
Chloride	ND	20.0	1	05/15/23	05/15/23	





## Sample Data

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

Project Name: Cotton Draw 13 Fed. 001 H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
5/19/2023 8:39:26AM

## S6-2

## E305080-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2320003	
Benzene	ND	0.0250	1	05/15/23	05/16/23	
Ethylbenzene	ND	0.0250	1	05/15/23	05/16/23	
Toluene	ND	0.0250	1	05/15/23	05/16/23	
o-Xylene	ND	0.0250	1	05/15/23	05/16/23	
p,m-Xylene	ND	0.0500	1	05/15/23	05/16/23	
Total Xylenes	ND	0.0250	1	05/15/23	05/16/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		104 %	70-130	05/15/23	05/16/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2320003	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/15/23	05/16/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		91.2 %	70-130	05/15/23	05/16/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: JL		Batch: 2320060	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/17/23	05/17/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/17/23	05/17/23	
<i>Surrogate: n-Nonane</i>						
		97.0 %	50-200	05/17/23	05/17/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2320006	
Chloride	ND	20.0	1	05/15/23	05/15/23	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw 13 Fed. 001 H	<b>Reported:</b> 5/19/2023 8:39:26AM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

S7-1

E305080-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2320003	
Benzene	ND	0.0250	1	05/15/23	05/17/23	
Ethylbenzene	ND	0.0250	1	05/15/23	05/17/23	
Toluene	ND	0.0250	1	05/15/23	05/17/23	
o-Xylene	ND	0.0250	1	05/15/23	05/17/23	
p,m-Xylene	ND	0.0500	1	05/15/23	05/17/23	
Total Xylenes	ND	0.0250	1	05/15/23	05/17/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		105 %	70-130	05/15/23	05/17/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2320003	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/15/23	05/17/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		91.6 %	70-130	05/15/23	05/17/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: JL		Batch: 2320060	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/17/23	05/17/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/17/23	05/17/23	
<i>Surrogate: n-Nonane</i>						
		98.5 %	50-200	05/17/23	05/17/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2320006	
Chloride	ND	20.0	1	05/15/23	05/15/23	



## Sample Data

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

Project Name: Cotton Draw 13 Fed. 001 H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
5/19/2023 8:39:26AM

S7-2

E305080-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2320003	
Benzene	ND	0.0250	1	05/15/23	05/17/23	
Ethylbenzene	ND	0.0250	1	05/15/23	05/17/23	
Toluene	ND	0.0250	1	05/15/23	05/17/23	
o-Xylene	ND	0.0250	1	05/15/23	05/17/23	
p,m-Xylene	ND	0.0500	1	05/15/23	05/17/23	
Total Xylenes	ND	0.0250	1	05/15/23	05/17/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		105 %	70-130	05/15/23	05/17/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2320003	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/15/23	05/17/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		91.7 %	70-130	05/15/23	05/17/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: JL		Batch: 2320060	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/17/23	05/17/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/17/23	05/17/23	
<i>Surrogate: n-Nonane</i>						
		93.8 %	50-200	05/17/23	05/17/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2320006	
Chloride	ND	20.0	1	05/15/23	05/15/23	



## Sample Data

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

Project Name: Cotton Draw 13 Fed. 001 H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
5/19/2023 8:39:26AM

S8-1

E305080-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2320003
Benzene	ND	0.0250	1	05/15/23	05/17/23	
Ethylbenzene	ND	0.0250	1	05/15/23	05/17/23	
Toluene	ND	0.0250	1	05/15/23	05/17/23	
o-Xylene	ND	0.0250	1	05/15/23	05/17/23	
p,m-Xylene	ND	0.0500	1	05/15/23	05/17/23	
Total Xylenes	ND	0.0250	1	05/15/23	05/17/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		106 %	70-130	05/15/23	05/17/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2320003
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/15/23	05/17/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		91.4 %	70-130	05/15/23	05/17/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2320060
Diesel Range Organics (C10-C28)	ND	25.0	1	05/17/23	05/17/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/17/23	05/17/23	
<i>Surrogate: n-Nonane</i>						
		96.3 %	50-200	05/17/23	05/17/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2320006
Chloride	ND	20.0	1	05/15/23	05/15/23	





Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw 13 Fed. 001 H	<b>Reported:</b> 5/19/2023 8:39:26AM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

S8-2

E305080-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2320003	
Benzene	ND	0.0250	1	05/15/23	05/17/23	
Ethylbenzene	ND	0.0250	1	05/15/23	05/17/23	
Toluene	ND	0.0250	1	05/15/23	05/17/23	
o-Xylene	ND	0.0250	1	05/15/23	05/17/23	
p,m-Xylene	ND	0.0500	1	05/15/23	05/17/23	
Total Xylenes	ND	0.0250	1	05/15/23	05/17/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	105 %	70-130		05/15/23	05/17/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2320003	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/15/23	05/17/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.5 %	70-130		05/15/23	05/17/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: JL		Batch: 2320060	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/17/23	05/17/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/17/23	05/17/23	
<i>Surrogate: n-Nonane</i>						
	99.3 %	50-200		05/17/23	05/17/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2320006	
Chloride	ND	20.0	1	05/15/23	05/15/23	



## Sample Data

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

Project Name: Cotton Draw 13 Fed. 001 H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
5/19/2023 8:39:26AM

## SW-1

## E305080-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2320003
Benzene	ND	0.0250	1	05/15/23	05/17/23	
Ethylbenzene	ND	0.0250	1	05/15/23	05/17/23	
Toluene	ND	0.0250	1	05/15/23	05/17/23	
o-Xylene	ND	0.0250	1	05/15/23	05/17/23	
p,m-Xylene	ND	0.0500	1	05/15/23	05/17/23	
Total Xylenes	ND	0.0250	1	05/15/23	05/17/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		105 %	70-130	05/15/23	05/17/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2320003
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/15/23	05/17/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		91.3 %	70-130	05/15/23	05/17/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2320060
Diesel Range Organics (C10-C28)	ND	25.0	1	05/17/23	05/17/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/17/23	05/17/23	
<i>Surrogate: n-Nonane</i>						
		99.2 %	50-200	05/17/23	05/17/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2320006
Chloride	ND	20.0	1	05/15/23	05/15/23	



## Sample Data

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

Project Name: Cotton Draw 13 Fed. 001 H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
5/19/2023 8:39:26AM

## SW-2

## E305080-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2320003
Benzene	ND	0.0250	1	05/15/23	05/17/23	
Ethylbenzene	ND	0.0250	1	05/15/23	05/17/23	
Toluene	ND	0.0250	1	05/15/23	05/17/23	
o-Xylene	ND	0.0250	1	05/15/23	05/17/23	
p,m-Xylene	ND	0.0500	1	05/15/23	05/17/23	
Total Xylenes	ND	0.0250	1	05/15/23	05/17/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		106 %	70-130	05/15/23	05/17/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2320003
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/15/23	05/17/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		91.8 %	70-130	05/15/23	05/17/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2320060
Diesel Range Organics (C10-C28)	ND	25.0	1	05/17/23	05/17/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/17/23	05/17/23	
<i>Surrogate: n-Nonane</i>						
		97.2 %	50-200	05/17/23	05/17/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2320006
Chloride	ND	20.0	1	05/15/23	05/15/23	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw 13 Fed. 001 H	<b>Reported:</b> 5/19/2023 8:39:26AM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

SW-3

E305080-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2320003	
Benzene	ND	0.0250	1	05/15/23	05/17/23	
Ethylbenzene	ND	0.0250	1	05/15/23	05/17/23	
Toluene	ND	0.0250	1	05/15/23	05/17/23	
o-Xylene	ND	0.0250	1	05/15/23	05/17/23	
p,m-Xylene	ND	0.0500	1	05/15/23	05/17/23	
Total Xylenes	ND	0.0250	1	05/15/23	05/17/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		106 %	70-130	05/15/23	05/17/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2320003	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/15/23	05/17/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		91.2 %	70-130	05/15/23	05/17/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: JL		Batch: 2320060	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/17/23	05/17/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/17/23	05/17/23	
<i>Surrogate: n-Nonane</i>						
		98.7 %	50-200	05/17/23	05/17/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2320006	
Chloride	ND	20.0	1	05/15/23	05/15/23	





## Sample Data

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

Project Name: Cotton Draw 13 Fed. 001 H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
5/19/2023 8:39:26AM

## SW-4

## E305080-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2320003
Benzene	ND	0.0250	1	05/15/23	05/17/23	
Ethylbenzene	ND	0.0250	1	05/15/23	05/17/23	
Toluene	ND	0.0250	1	05/15/23	05/17/23	
o-Xylene	ND	0.0250	1	05/15/23	05/17/23	
p,m-Xylene	ND	0.0500	1	05/15/23	05/17/23	
Total Xylenes	ND	0.0250	1	05/15/23	05/17/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		105 %	70-130	05/15/23	05/17/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2320003
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/15/23	05/17/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		91.5 %	70-130	05/15/23	05/17/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2320060
Diesel Range Organics (C10-C28)	ND	25.0	1	05/17/23	05/17/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/17/23	05/17/23	
<i>Surrogate: n-Nonane</i>						
		99.0 %	50-200	05/17/23	05/17/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2320006
Chloride	ND	20.0	1	05/15/23	05/15/23	



## Sample Data

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

Project Name: Cotton Draw 13 Fed. 001 H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
5/19/2023 8:39:26AM

## SW-5

## E305080-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2320003
Benzene	ND	0.0250	1	05/15/23	05/17/23	
Ethylbenzene	ND	0.0250	1	05/15/23	05/17/23	
Toluene	ND	0.0250	1	05/15/23	05/17/23	
o-Xylene	ND	0.0250	1	05/15/23	05/17/23	
p,m-Xylene	ND	0.0500	1	05/15/23	05/17/23	
Total Xylenes	ND	0.0250	1	05/15/23	05/17/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		106 %	70-130	05/15/23	05/17/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2320003
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/15/23	05/17/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		91.9 %	70-130	05/15/23	05/17/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2320060
Diesel Range Organics (C10-C28)	ND	25.0	1	05/17/23	05/18/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/17/23	05/18/23	
<i>Surrogate: n-Nonane</i>						
		99.7 %	50-200	05/17/23	05/18/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2320006
Chloride	ND	20.0	1	05/15/23	05/15/23	



## Sample Data

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

Project Name: Cotton Draw 13 Fed. 001 H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
5/19/2023 8:39:26AM

## SW-6

## E305080-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>		mg/kg	mg/kg	Analyst: SL		Batch: 2320003
Benzene	ND	0.0250	1	05/15/23	05/17/23	
Ethylbenzene	ND	0.0250	1	05/15/23	05/17/23	
Toluene	ND	0.0250	1	05/15/23	05/17/23	
o-Xylene	ND	0.0250	1	05/15/23	05/17/23	
p,m-Xylene	ND	0.0500	1	05/15/23	05/17/23	
Total Xylenes	ND	0.0250	1	05/15/23	05/17/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		105 %	70-130	05/15/23	05/17/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>		mg/kg	mg/kg	Analyst: SL		Batch: 2320003
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/15/23	05/17/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		91.2 %	70-130	05/15/23	05/17/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>		mg/kg	mg/kg	Analyst: JL		Batch: 2320060
Diesel Range Organics (C10-C28)	ND	25.0	1	05/17/23	05/18/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/17/23	05/18/23	
<i>Surrogate: n-Nonane</i>		100 %	50-200	05/17/23	05/18/23	
<b>Anions by EPA 300.0/9056A</b>		mg/kg	mg/kg	Analyst: BA		Batch: 2320006
Chloride	ND	20.0	1	05/15/23	05/15/23	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw 13 Fed. 001 H	<b>Reported:</b> 5/19/2023 8:39:26AM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

SW-7

E305080-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2320003	
Benzene	ND	0.0250	1	05/15/23	05/17/23	
Ethylbenzene	ND	0.0250	1	05/15/23	05/17/23	
Toluene	ND	0.0250	1	05/15/23	05/17/23	
o-Xylene	ND	0.0250	1	05/15/23	05/17/23	
p,m-Xylene	ND	0.0500	1	05/15/23	05/17/23	
Total Xylenes	ND	0.0250	1	05/15/23	05/17/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	105 %	70-130		05/15/23	05/17/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2320003	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/15/23	05/17/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.2 %	70-130		05/15/23	05/17/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: JL		Batch: 2320060	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/17/23	05/18/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/17/23	05/18/23	
<i>Surrogate: n-Nonane</i>						
	101 %	50-200		05/17/23	05/18/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2320006	
Chloride	ND	20.0	1	05/15/23	05/15/23	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw 13 Fed. 001 H	<b>Reported:</b> 5/19/2023 8:39:26AM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

SW-8

E305080-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2320003	
Benzene	ND	0.0250	1	05/15/23	05/16/23	
Ethylbenzene	ND	0.0250	1	05/15/23	05/16/23	
Toluene	ND	0.0250	1	05/15/23	05/16/23	
o-Xylene	ND	0.0250	1	05/15/23	05/16/23	
p,m-Xylene	ND	0.0500	1	05/15/23	05/16/23	
Total Xylenes	ND	0.0250	1	05/15/23	05/16/23	
Surrogate: 4-Bromochlorobenzene-PID		104 %	70-130	05/15/23	05/16/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2320003	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/15/23	05/16/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.1 %	70-130	05/15/23	05/16/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2320060	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/17/23	05/18/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/17/23	05/18/23	
Surrogate: n-Nonane		104 %	50-200	05/17/23	05/18/23	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2320006	
Chloride	ND	20.0	1	05/15/23	05/15/23	





QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw 13 Fed. 001 H	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	5/19/2023 8:39:26AM

Volatile Organics by EPA 8021B

Analyst: SL

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

Blank (2320003-BLK1) Prepared: 05/15/23 Analyzed: 05/16/23

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 (2320003-BS1) Prepared: 05/15/23 Analyzed: 05/16/23

Benzene	4.29	0.0250	5.00		85.8	70-130			
Ethylbenzene	4.43	0.0250	5.00		88.7	70-130			
Toluene	4.59	0.0250	5.00		91.8	70-130			
o-Xylene	4.70	0.0250	5.00		94.0	70-130			
p,m-Xylene	9.17	0.0500	10.0		91.7	70-130			
Total Xylenes	13.9	0.0250	15.0		92.4	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.19		8.00		102	70-130			

Matrix Spike (2320003-MS1) Source: E305080-16 Prepared: 05/15/23 Analyzed: 05/16/23

Benzene	4.19	0.0250	5.00	ND	83.7	54-133			
Ethylbenzene	4.33	0.0250	5.00	ND	86.6	61-133			
Toluene	4.49	0.0250	5.00	ND	89.8	61-130			
o-Xylene	4.60	0.0250	5.00	ND	92.0	63-131			
p,m-Xylene	8.95	0.0500	10.0	ND	89.5	63-131			
Total Xylenes	13.6	0.0250	15.0	ND	90.4	63-131			
Surrogate: 4-Bromochlorobenzene-PID	8.36		8.00		105	70-130			

Matrix Spike Dup (2320003-MSD1) Source: E305080-16 Prepared: 05/15/23 Analyzed: 05/16/23

Benzene	4.26	0.0250	5.00	ND	85.2	54-133	1.71	20	
Ethylbenzene	4.40	0.0250	5.00	ND	87.9	61-133	1.47	20	
Toluene	4.56	0.0250	5.00	ND	91.2	61-130	1.53	20	
o-Xylene	4.67	0.0250	5.00	ND	93.4	63-131	1.47	20	
p,m-Xylene	9.07	0.0500	10.0	ND	90.7	63-131	1.24	20	
Total Xylenes	13.7	0.0250	15.0	ND	91.6	63-131	1.32	20	
Surrogate: 4-Bromochlorobenzene-PID	8.35		8.00		104	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw 13 Fed. 001 H	Reported:  5/19/2023 8:39:26AM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

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 (2320003-BLK1) Prepared: 05/15/23 Analyzed: 05/16/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.31		8.00		91.4	70-130			

LCS (2320003-BS2) Prepared: 05/15/23 Analyzed: 05/16/23

Gasoline Range Organics (C6-C10)	49.6	20.0	50.0		99.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.43		8.00		92.9	70-130			

Matrix Spike (2320003-MS2) Source: E305080-16 Prepared: 05/15/23 Analyzed: 05/16/23

Gasoline Range Organics (C6-C10)	47.2	20.0	50.0	ND	94.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.46		8.00		93.2	70-130			

Matrix Spike Dup (2320003-MSD2) Source: E305080-16 Prepared: 05/15/23 Analyzed: 05/16/23

Gasoline Range Organics (C6-C10)	44.0	20.0	50.0	ND	88.1	70-130	7.01	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.38		8.00		92.3	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw 13 Fed. 001 H	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	5/19/2023 8:39:26AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

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

Blank (2320060-BLK1)					Prepared: 05/17/23 Analyzed: 05/17/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	51.6		50.0		103	50-200			

LCS (2320060-BS1)					Prepared: 05/17/23 Analyzed: 05/17/23				
Diesel Range Organics (C10-C28)	261	25.0	250		104	38-132			
Surrogate: n-Nonane	50.2		50.0		100	50-200			

Matrix Spike (2320060-MS1)					Source: E305080-16		Prepared: 05/17/23 Analyzed: 05/17/23		
Diesel Range Organics (C10-C28)	248	25.0	250	ND	99.2	38-132			
Surrogate: n-Nonane	47.5		50.0		94.9	50-200			

Matrix Spike Dup (2320060-MSD1)					Source: E305080-16		Prepared: 05/17/23 Analyzed: 05/17/23		
Diesel Range Organics (C10-C28)	246	25.0	250	ND	98.4	38-132	0.746	20	
Surrogate: n-Nonane	47.3		50.0		94.7	50-200			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw 13 Fed. 001 H	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	5/19/2023 8:39:26AM

Anions by EPA 300.0/9056A

Analyst: BA

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

Blank (2320006-BLK1)					Prepared: 05/15/23 Analyzed: 05/15/23				
Chloride	ND	20.0							
LCS (2320006-BS1)					Prepared: 05/15/23 Analyzed: 05/15/23				
Chloride	271	20.0	250		108	90-110			
Matrix Spike (2320006-MS1)					Source: E305080-01		Prepared: 05/15/23 Analyzed: 05/15/23		
Chloride	273	20.0	250	ND	109	80-120			
Matrix Spike Dup (2320006-MSD1)					Source: E305080-01		Prepared: 05/15/23 Analyzed: 05/15/23		
Chloride	274	20.0	250	ND	110	80-120	0.283	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 13 Fed. 001 H	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	05/19/23 08:39

- 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.





Project Information

Chain of Custody

Client: Pima Environmental Services	Bill To	Lab Use Only	TAT	EPA Program
Project: <u>Cotton Draw B Fed. 001H</u>	Attention: <u>Devon</u>	Lab WO# <u>E305080</u>	Job Number <u>010580001</u>	CWA
Project Manager: Tom Bynum	Address:	1D 2D 3D Standard		SDWA
Address: 5614 N. Lovington Hwy.	City, State, Zip	Analysis and Method		RCRA
City, State, Zip <u>Hobbs, NM, 88240</u>	Phone:			
Phone: 580-748-1613	Email:			
Email: tom@pimaoil.com	Pima Project # <u>1-283-1</u>			
Report due by:				

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NIM	BGDOC TX	Remarks
9:45	5/10/23	S	1	S5-3	1									
9:50				S5-4	2									
9:55				S6-1	3									
10:00				S6-2	4									
10:05				S7-1	5									
10:10				S7-2	6									
10:15				S8-1	7									
10:20				S8-2	8									
10:25				SW-1	9									
10:30				SW-2	10									

Additional Instructions: WO # 21146265

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: A.F.

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>Kerime Adame</u>	Date <u>5-12-23</u>	Time <u>200</u>	Received by: (Signature) <u>Niculle Lemay</u>	Date <u>5-12-23</u>	Time <u>1400</u>	Received on ice: <u>Y/N</u>			
Relinquished by: (Signature) <u>Niculle Lemay</u>	Date <u>5-12-23</u>	Time <u>1700</u>	Received by: (Signature) <u>Andrew Messo</u>	Date <u>5-12-23</u>	Time <u>1700</u>		T1	T2	T3
Relinquished by: (Signature) <u>Andrew Messo</u>	Date <u>5-12-23</u>	Time <u>2300</u>	Received by: (Signature) <u>Andrew Messo</u>	Date <u>5/15/23</u>	Time <u>1500</u>		AVG Temp °C <u>4</u>		

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other  
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

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



## Project Information

## Chain of Custody

Page 4 of 4

Client: Pima Environmental Services		Bill To		Lab Use Only		TAT		EPA Program					
Project: <u>Cotton Draw / S Fed. 00/H</u>		Attention: <u>Devon</u>		Lab WO# <u>E305080</u>		Job Number <u>010580007</u>		1D	2D	3D	Standard	CWA	SDWA
Project Manager: Tom Bynum		Address:		Analysis and Method									
Address: 5614 N. Lovington Hwy.		City, State, Zip											RCRA
City, State, Zip Hobbs, NM. 88240		Phone:											
Phone: 580-748-1613		Email:											
Email: tom@pimaoil.com		Pima Project # <u>1-283-1</u>											
Report due by:													

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
10:35	5/10/23	S	1	SW-3	11							X		
10:40				SW-4	12									
10:45				SW-5	13									
10:50				SW-6	14									
10:55				SW-7	15									
11:00				SW-8	16									

## Additional Instructions:

WO# 21146265

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: A.F

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>5-12-23</u>	Time <u>200</u>	Received by: (Signature) <u>Michelle Gumpels</u>	Date <u>5-12-23</u>	Time <u>1400</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 Gumpels</u>	Date <u>5-12-23</u>	Time <u>1700</u>	Received by: (Signature) <u>Andrew Messa</u>	Date <u>5-12-23</u>	Time <u>1700</u>	
Relinquished by: (Signature) <u>Andrew Messa</u>	Date <u>5-12-23</u>	Time <u>2300</u>	Received by: (Signature) <u>Andrew Messa</u>	Date <u>5-12-23</u>	Time <u>800</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: 5/15/2023 7:12:20AM

## 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:	05/15/23 05:00	Work Order ID:	E305080
Phone:	(575) 631-6977	Date Logged In:	05/15/23 06:55	Logged In By:	Alexa Michaels
Email:	tom@pimaoil.com	Due Date:	05/19/23 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

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

Carrier: Courier**Comments/Resolution**

Project Cotton Draw 13 Fed. 001 H has been separated into 2 workorders/reports due to high sample volume. Workorders are as follows: E305079 and E305080.

**Sample Turn Around Time (TAT)**

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

**Sample Cooler**

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

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

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

**Sample Container**

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

**Field Label**

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

**Sample Preservation**

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

**Multiphase Sample Matrix**

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

**Subcontract Laboratory**

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

**Client Instruction**

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

Date



envirotech Inc.

Report to:  
Gio Gomez



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Pima Environmental Services-Carlsbad

Project Name: Cotton Draw 13 Federal 1H

Work Order: E405100

Job Number: 01058-0007

Received: 5/8/2024

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
5/14/24

5796 U.S. Hwy 64  
Farmington, NM 87401

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



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.  
Statement of Data Authenticity: Envirotech Inc. attests the data reported has not been altered in any way.  
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Envirotech Inc. holds the Utah TNI certification NM00979 for data reported.  
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.

Date Reported: 5/14/24

Gio Gomez  
PO Box 247  
Plains, TX 79355-0247



Project Name: Cotton Draw 13 Federal 1H  
Workorder: E405100  
Date Received: 5/8/2024 5:00:00AM

Gio Gomez,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/8/2024 5:00:00AM, under the Project Name: Cotton Draw 13 Federal 1H.

The analytical test results summarized in this report with the Project Name: Cotton Draw 13 Federal 1H 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**  
Laboratory Technical Representative  
Office: 505-421-LABS(5227)  
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[ljjarboe@envirotech-inc.com](mailto:ljjarboe@envirotech-inc.com)

**Michelle Golzaes**  
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Office: 505-421-LABS(5227)  
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[mgonzales@envirotech-inc.com](mailto:mgonzales@envirotech-inc.com)

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



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Sample Summary

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw 13 Federal 1H	Reported:  05/14/24 13:52
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
S6 -3'	E405100-01A	Soil	05/06/24	05/08/24	Glass Jar, 2 oz.
S6 -4'	E405100-02A	Soil	05/06/24	05/08/24	Glass Jar, 2 oz.
S7 -3'	E405100-03A	Soil	05/06/24	05/08/24	Glass Jar, 2 oz.
S7 -4'	E405100-04A	Soil	05/06/24	05/08/24	Glass Jar, 2 oz.
S8 -3'	E405100-05A	Soil	05/06/24	05/08/24	Glass Jar, 2 oz.
S8 -4'	E405100-06A	Soil	05/06/24	05/08/24	Glass Jar, 2 oz.



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Cotton Draw 13 Federal 1H Project Number: 01058-0007 Project Manager: Gio Gomez	Reported: 5/14/2024 1:52:57PM
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S6 -3'  
E405100-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2419107	
Benzene	ND	0.0250	1	05/08/24	05/09/24	
Ethylbenzene	ND	0.0250	1	05/08/24	05/09/24	
Toluene	ND	0.0250	1	05/08/24	05/09/24	
o-Xylene	ND	0.0250	1	05/08/24	05/09/24	
p,m-Xylene	ND	0.0500	1	05/08/24	05/09/24	
Total Xylenes	ND	0.0250	1	05/08/24	05/09/24	
Surrogate: 4-Bromochlorobenzene-PID	98.4 %	70-130		05/08/24	05/09/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2419107	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/08/24	05/09/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	102 %	70-130		05/08/24	05/09/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KM		Batch: 2419152	
Diesel Range Organics (C10-C28)	17.0	25.0	1	05/09/24	05/13/24	
Oil Range Organics (C28-C36)	10.1	50.0	1	05/09/24	05/13/24	
Surrogate: n-Nonane	106 %	50-200		05/09/24	05/13/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2420020	
Chloride	ND	20.0	1	05/13/24	05/13/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw 13 Federal 1H	<b>Reported:</b> 5/14/2024 1:52:57PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

S6 -4'

E405100-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2419107	
Benzene	ND	0.0250	1	05/08/24	05/09/24	
Ethylbenzene	ND	0.0250	1	05/08/24	05/09/24	
Toluene	ND	0.0250	1	05/08/24	05/09/24	
o-Xylene	ND	0.0250	1	05/08/24	05/09/24	
p,m-Xylene	ND	0.0500	1	05/08/24	05/09/24	
Total Xylenes	ND	0.0250	1	05/08/24	05/09/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.8 %	70-130		05/08/24	05/09/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2419107	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/08/24	05/09/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	102 %	70-130		05/08/24	05/09/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: KM		Batch: 2419152	
Diesel Range Organics (C10-C28)	28.2	25.0	1	05/09/24	05/13/24	
Oil Range Organics (C28-C36)	24.0	50.0	1	05/09/24	05/13/24	
<i>Surrogate: n-Nonane</i>						
	110 %	50-200		05/09/24	05/13/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2420020	
Chloride	ND	20.0	1	05/13/24	05/13/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw 13 Federal 1H	<b>Reported:</b> 5/14/2024 1:52:57PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

S7 -3'

E405100-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2419107	
Benzene	ND	0.0250	1	05/08/24	05/09/24	
Ethylbenzene	ND	0.0250	1	05/08/24	05/09/24	
Toluene	ND	0.0250	1	05/08/24	05/09/24	
o-Xylene	ND	0.0250	1	05/08/24	05/09/24	
p,m-Xylene	ND	0.0500	1	05/08/24	05/09/24	
Total Xylenes	ND	0.0250	1	05/08/24	05/09/24	
Surrogate: 4-Bromochlorobenzene-PID	92.5 %	70-130		05/08/24	05/09/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2419107	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/08/24	05/09/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	102 %	70-130		05/08/24	05/09/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KM		Batch: 2419152	
Diesel Range Organics (C10-C28)	33.9	25.0	1	05/09/24	05/13/24	
Oil Range Organics (C28-C36)	28.6	50.0	1	05/09/24	05/13/24	
Surrogate: n-Nonane	107 %	50-200		05/09/24	05/13/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2420020	
Chloride	ND	20.0	1	05/13/24	05/13/24	





Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw 13 Federal 1H	<b>Reported:</b> 5/14/2024 1:52:57PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

S7 -4'

E405100-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2419107	
Benzene	ND	0.0250	1	05/08/24	05/09/24	
Ethylbenzene	ND	0.0250	1	05/08/24	05/09/24	
Toluene	ND	0.0250	1	05/08/24	05/09/24	
o-Xylene	ND	0.0250	1	05/08/24	05/09/24	
p,m-Xylene	ND	0.0500	1	05/08/24	05/09/24	
Total Xylenes	ND	0.0250	1	05/08/24	05/09/24	
Surrogate: 4-Bromochlorobenzene-PID	90.1 %	70-130		05/08/24	05/09/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2419107	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/08/24	05/09/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	105 %	70-130		05/08/24	05/09/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KM		Batch: 2419152	
Diesel Range Organics (C10-C28)	52	25.0	1	05/09/24	05/13/24	
Oil Range Organics (C28-C36)	23	50.0	1	05/09/24	05/13/24	
Surrogate: n-Nonane	107 %	50-200		05/09/24	05/13/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2420020	
Chloride	ND	20.0	1	05/13/24	05/13/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw 13 Federal 1H	<b>Reported:</b> 5/14/2024 1:52:57PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

S8 -3'

E405100-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2419107	
Benzene	ND	0.0250	1	05/08/24	05/09/24	
Ethylbenzene	ND	0.0250	1	05/08/24	05/09/24	
Toluene	ND	0.0250	1	05/08/24	05/09/24	
o-Xylene	ND	0.0250	1	05/08/24	05/09/24	
p,m-Xylene	ND	0.0500	1	05/08/24	05/09/24	
Total Xylenes	ND	0.0250	1	05/08/24	05/09/24	
Surrogate: 4-Bromochlorobenzene-PID	95.3 %	70-130		05/08/24	05/09/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2419107	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/08/24	05/09/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	102 %	70-130		05/08/24	05/09/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KM		Batch: 2419152	
Diesel Range Organics (C10-C28)	7	25.0	1	05/09/24	05/13/24	
Oil Range Organics (C28-C36)	2	50.0	1	05/09/24	05/13/24	
Surrogate: n-Nonane	105 %	50-200		05/09/24	05/13/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2420020	
Chloride	22.2	20.0	1	05/13/24	05/13/24	



## Sample Data

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

Project Name: Cotton Draw 13 Federal 1H  
Project Number: 01058-0007  
Project Manager: Gio Gomez

**Reported:**  
5/14/2024 1:52:57PM

S8 -4'

E405100-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2419107	
Benzene	ND	0.0250	1	05/08/24	05/09/24	
Ethylbenzene	ND	0.0250	1	05/08/24	05/09/24	
Toluene	ND	0.0250	1	05/08/24	05/09/24	
o-Xylene	ND	0.0250	1	05/08/24	05/09/24	
p,m-Xylene	ND	0.0500	1	05/08/24	05/09/24	
Total Xylenes	ND	0.0250	1	05/08/24	05/09/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.5 %	70-130		05/08/24	05/09/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2419107	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/08/24	05/09/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	101 %	70-130		05/08/24	05/09/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: KM		Batch: 2419152	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/09/24	05/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1	05/09/24	05/13/24	
<i>Surrogate: n-Nonane</i>						
	108 %	50-200		05/09/24	05/13/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2420020	
Chloride	15.7	40.0	2	05/13/24	05/13/24	



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw 13 Federal 1H	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	5/14/2024 1:52:57PM

Volatile Organics by EPA 8021B

Analyst: BA

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

Blank (2419107-BLK1) Prepared: 05/08/24 Analyzed: 05/09/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.68		8.00		96.0	70-130			

LCS (2419107-BS1) Prepared: 05/08/24 Analyzed: 05/09/24

Benzene	4.87	0.0250	5.00		97.4	70-130			
Ethylbenzene	4.64	0.0250	5.00		92.7	70-130			
Toluene	4.83	0.0250	5.00		96.6	70-130			
o-Xylene	4.71	0.0250	5.00		94.3	70-130			
p,m-Xylene	9.58	0.0500	10.0		95.8	70-130			
Total Xylenes	14.3	0.0250	15.0		95.3	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.25		8.00		90.7	70-130			

Matrix Spike (2419107-MS1) Source: E405099-04 Prepared: 05/08/24 Analyzed: 05/09/24

Benzene	5.10	0.0250	5.00	ND	102	54-133			
Ethylbenzene	4.88	0.0250	5.00	ND	97.5	61-133			
Toluene	5.07	0.0250	5.00	ND	101	61-130			
o-Xylene	4.97	0.0250	5.00	ND	99.4	63-131			
p,m-Xylene	10.1	0.0500	10.0	ND	101	63-131			
Total Xylenes	15.0	0.0250	15.0	ND	100	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.48		8.00		93.5	70-130			

Matrix Spike Dup (2419107-MSD1) Source: E405099-04 Prepared: 05/08/24 Analyzed: 05/09/24

Benzene	5.06	0.0250	5.00	ND	101	54-133	0.815	20	
Ethylbenzene	4.82	0.0250	5.00	ND	96.5	61-133	1.04	20	
Toluene	5.02	0.0250	5.00	ND	100	61-130	0.951	20	
o-Xylene	4.92	0.0250	5.00	ND	98.3	63-131	1.12	20	
p,m-Xylene	9.95	0.0500	10.0	ND	99.5	63-131	1.10	20	
Total Xylenes	14.9	0.0250	15.0	ND	99.1	63-131	1.10	20	
Surrogate: 4-Bromochlorobenzene-PID	7.41		8.00		92.6	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw 13 Federal 1H	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	5/14/2024 1:52:57PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2419107-BLK1) Prepared: 05/08/24 Analyzed: 05/09/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.08		8.00		101	70-130			

LCS (2419107-BS2) Prepared: 05/08/24 Analyzed: 05/09/24

Gasoline Range Organics (C6-C10)	53.0	20.0	50.0		106	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.15		8.00		102	70-130			

Matrix Spike (2419107-MS2) Source: E405099-04 Prepared: 05/08/24 Analyzed: 05/09/24

Gasoline Range Organics (C6-C10)	47.5	20.0	50.0	ND	95.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.22		8.00		103	70-130			

Matrix Spike Dup (2419107-MSD2) Source: E405099-04 Prepared: 05/08/24 Analyzed: 05/09/24

Gasoline Range Organics (C6-C10)	45.5	20.0	50.0	ND	91.0	70-130	4.32	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.13		8.00		102	70-130			





QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw 13 Federal 1H	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	5/14/2024 1:52:57PM

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 (2419152-BLK1) Prepared: 05/09/24 Analyzed: 05/12/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	53.2		50.0		106	50-200			

LCS (2419152-BS1) Prepared: 05/09/24 Analyzed: 05/12/24

Diesel Range Organics (C10-C28)	291	25.0	250		116	38-132			
Surrogate: n-Nonane	54.4		50.0		109	50-200			

LCS Dup (2419152-BSD1) Prepared: 05/09/24 Analyzed: 05/12/24

Diesel Range Organics (C10-C28)	284	25.0	250		114	38-132	2.44	20	
Surrogate: n-Nonane	52.5		50.0		105	50-200			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw 13 Federal 1H	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	5/14/2024 1:52:57PM

Anions by EPA 300.0/9056A

Analyst: IY

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

Blank (2420020-BLK1)					Prepared: 05/13/24 Analyzed: 05/13/24				
Chloride	ND	20.0							
LCS (2420020-BS1)					Prepared: 05/13/24 Analyzed: 05/13/24				
Chloride	263	20.0	250		105	90-110			
LCS Dup (2420020-BSD1)					Prepared: 05/13/24 Analyzed: 05/13/24				
Chloride	263	20.0	250		105	90-110	0.108	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 13 Federal 1H	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Gio Gomez	05/14/24 13:52

- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite
- DNR Did not react with the addition of acid or base.

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

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

## Project Information

## Chain of Custody

Page 1 of 1

<b>Client: Pima Environmental Services</b> <b>Project: Cotton Draw 13 Feb 1H</b> <b>Project Manager: Glo Gomez</b> <b>Address: 5614 N. Lovington Hwy.</b> <b>City, State, Zip: Hobbs, NM, 88240</b> <b>Phone: 806-782-1151</b> <b>Email: glo@pimaoil.com</b> <b>Report due by:</b>					<b>Bill To</b> <b>Attention: Devin</b> <b>Address:</b> <b>City, State, Zip:</b> <b>Phone:</b> <b>Email:</b> <b>Pima Project # 283-1</b>					<b>Lab Use Only</b> <b>1405100 10058-0001</b> <b>Analysis and Method</b>					<b>TAT</b> <b>1D 2D 3D Standard</b> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>			<b>EPA Program</b> <b>CWA SDWA</b> <b>RCRA</b>	
													<b>State</b> <b>NM CO UT AZ TX</b> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>						
<b>Time Sampled</b>	<b>Date Sampled</b>	<b>Matrix</b>	<b>No. of Containers</b>	<b>Sample ID</b>	<b>Lab Number</b>	<b>DRO/ORO by 8015</b>	<b>GRO/DRO by 8015</b>	<b>BTEX by 8021</b>	<b>VOC by 8260</b>	<b>Metals 6010</b>	<b>Chloride 300.0</b>	<b>BGDOC NM</b>	<b>BGDOC TX</b>	<b>Remarks</b>					
8:30	5/6	S		S6-3'	1							X							
8:45				S6-4'	2														
8:53				S7-3'	3														
9:06				S7-4'	4														
9:17				S8-3'	5														
9:22				S8-4'	6														
<b>Additional Instructions:</b> <u>Billing # 21146265</u>																			
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling 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.									
<b>Relinquished by: (Signature)</b> <u>Kerime Adame</u>					<b>Date</b> <u>5/7/24</u>		<b>Time</b> <u>2:17</u>		<b>Received by: (Signature)</b> <u>Michelle Gonzales</u>					<b>Date</b> <u>5/7/24</u>		<b>Time</b> <u>1417</u>			
<b>Relinquished by: (Signature)</b> <u>Michelle Gonzales</u>					<b>Date</b> <u>5-7-24</u>		<b>Time</b> <u>1805</u>		<b>Received by: (Signature)</b> <u>S.M.</u>					<b>Date</b> <u>5-7-24</u>		<b>Time</b> <u>1805</u>			
<b>Relinquished by: (Signature)</b> <u>S.M.</u>					<b>Date</b> <u>5.7.24</u>		<b>Time</b> <u>2400</u>		<b>Received by: (Signature)</b> <u>Kyle R Hark</u>					<b>Date</b> <u>5-8-24</u>		<b>Time</b> <u>0500</u>			
<b>Sample Matrix:</b> S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other										<b>Container Type:</b> g - glass, p - poly/plastic, ag - amber glass, v - VOA									
<b>Note:</b> 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: 5/8/2024 1:07:18PM

## 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:	05/08/24 05:00	Work Order ID:	E405100
Phone:	(575) 631-6977	Date Logged In:	05/07/24 16:47	Logged In By:	Angelina Pineda
Email:	gio@pimaoil.com	Due Date:	05/14/24 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierSample 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 InstructionComments/Resolution

No. of samples and Sampled by not documented on COC by client

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

Date



envirotech Inc.



Report to:  
Gio Gomez



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Pima Environmental Services-Carlsbad

Project Name: Cotton Draw 13 Federal 1H

Work Order: E407004

Job Number: 01058-0007

Received: 7/2/2024

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
7/2/24

5796 U.S. Hwy 64  
Farmington, NM 87401

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



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

Date Reported: 7/2/24

Gio Gomez  
PO Box 247  
Plains, TX 79355-0247



Project Name: Cotton Draw 13 Federal 1H  
Workorder: E407004  
Date Received: 7/2/2024 10:00:00AM

Gio Gomez,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/2/2024 10:00:00AM, under the Project Name: Cotton Draw 13 Federal 1H.

The analytical test results summarized in this report with the Project Name: Cotton Draw 13 Federal 1H 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  
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[rainaschwanz@envirotech-inc.com](mailto:rainaschwanz@envirotech-inc.com)

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[mgonzales@envirotech-inc.com](mailto:mgonzales@envirotech-inc.com)

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

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Chain of Custody etc.	15

Sample Summary

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw 13 Federal 1H	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	07/02/24 13:02

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
CS3-3.5'	E407004-01A	Soil	06/28/24	07/02/24	Glass Jar, 2 oz.
CSW3-3.5'	E407004-02A	Soil	06/28/24	07/02/24	Glass Jar, 2 oz.
CS6-Surface	E407004-03A	Soil	06/28/24	07/02/24	Glass Jar, 2 oz.
CS7-Surface	E407004-04A	Soil	06/28/24	07/02/24	Glass Jar, 2 oz.
CS8-Surface	E407004-05A	Soil	06/28/24	07/02/24	Glass Jar, 2 oz.



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Cotton Draw 13 Federal 1H Project Number: 01058-0007 Project Manager: Gio Gomez	Reported: 7/2/2024 1:02:54PM
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CS3-3.5'

E407004-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2427021	
Benzene	ND	0.0250	1	07/02/24	07/02/24	
Ethylbenzene	ND	0.0250	1	07/02/24	07/02/24	
Toluene	ND	0.0250	1	07/02/24	07/02/24	
o-Xylene	ND	0.0250	1	07/02/24	07/02/24	
p,m-Xylene	ND	0.0500	1	07/02/24	07/02/24	
Total Xylenes	ND	0.0250	1	07/02/24	07/02/24	
Surrogate: 4-Bromochlorobenzene-PID	92.4 %	70-130		07/02/24	07/02/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2427021	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/02/24	07/02/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	106 %	70-130		07/02/24	07/02/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KM		Batch: 2427022	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/02/24	07/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/02/24	07/02/24	
Surrogate: n-Nonane	101 %	50-200		07/02/24	07/02/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: DT		Batch: 2427023	
Chloride	26.0	20.0	1	07/02/24	07/02/24	





Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw 13 Federal 1H	<b>Reported:</b> 7/2/2024 1:02:54PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

CSW3-3.5'  
E407004-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2427021	
Benzene	ND	0.0250	1	07/02/24	07/02/24	
Ethylbenzene	ND	0.0250	1	07/02/24	07/02/24	
Toluene	ND	0.0250	1	07/02/24	07/02/24	
o-Xylene	ND	0.0250	1	07/02/24	07/02/24	
p,m-Xylene	ND	0.0500	1	07/02/24	07/02/24	
Total Xylenes	ND	0.0250	1	07/02/24	07/02/24	
Surrogate: 4-Bromochlorobenzene-PID	91.6 %	70-130		07/02/24	07/02/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2427021	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/02/24	07/02/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	108 %	70-130		07/02/24	07/02/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KM		Batch: 2427022	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/02/24	07/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/02/24	07/02/24	
Surrogate: n-Nonane	91.0 %	50-200		07/02/24	07/02/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: DT		Batch: 2427023	
Chloride	48.0	20.0	1	07/02/24	07/02/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw 13 Federal 1H	<b>Reported:</b> 7/2/2024 1:02:54PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

CS6-Surface  
E407004-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2427021	
Benzene	ND	0.0250	1	07/02/24	07/02/24	
Ethylbenzene	ND	0.0250	1	07/02/24	07/02/24	
Toluene	ND	0.0250	1	07/02/24	07/02/24	
o-Xylene	ND	0.0250	1	07/02/24	07/02/24	
p,m-Xylene	ND	0.0500	1	07/02/24	07/02/24	
Total Xylenes	ND	0.0250	1	07/02/24	07/02/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	91.7 %	70-130		07/02/24	07/02/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2427021	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/02/24	07/02/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	107 %	70-130		07/02/24	07/02/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: KM		Batch: 2427022	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/02/24	07/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/02/24	07/02/24	
<i>Surrogate: n-Nonane</i>						
	93.7 %	50-200		07/02/24	07/02/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: DT		Batch: 2427023	
Chloride	48.5	20.0	1	07/02/24	07/02/24	



## Sample Data

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

Project Name: Cotton Draw 13 Federal 1H  
Project Number: 01058-0007  
Project Manager: Gio Gomez

**Reported:**  
7/2/2024 1:02:54PM

## CS7-Surface

## E407004-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2427021
Benzene	ND	0.0250	1	07/02/24	07/02/24	
Ethylbenzene	ND	0.0250	1	07/02/24	07/02/24	
Toluene	ND	0.0250	1	07/02/24	07/02/24	
o-Xylene	ND	0.0250	1	07/02/24	07/02/24	
p,m-Xylene	ND	0.0500	1	07/02/24	07/02/24	
Total Xylenes	ND	0.0250	1	07/02/24	07/02/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	91.6 %	70-130		07/02/24	07/02/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2427021
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/02/24	07/02/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	108 %	70-130		07/02/24	07/02/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2427022
Diesel Range Organics (C10-C28)	ND	25.0	1	07/02/24	07/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/02/24	07/02/24	
<i>Surrogate: n-Nonane</i>						
	92.9 %	50-200		07/02/24	07/02/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: DT		Batch: 2427023
Chloride	50.7	20.0	1	07/02/24	07/02/24	



## Sample Data

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

Project Name: Cotton Draw 13 Federal 1H  
Project Number: 01058-0007  
Project Manager: Gio Gomez

**Reported:**  
7/2/2024 1:02:54PM

## CS8-Surface

## E407004-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2427021
Benzene	ND	0.0250	1	07/02/24	07/02/24	
Ethylbenzene	ND	0.0250	1	07/02/24	07/02/24	
Toluene	ND	0.0250	1	07/02/24	07/02/24	
o-Xylene	ND	0.0250	1	07/02/24	07/02/24	
p,m-Xylene	ND	0.0500	1	07/02/24	07/02/24	
Total Xylenes	ND	0.0250	1	07/02/24	07/02/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		91.6 %	70-130	07/02/24	07/02/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2427021
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/02/24	07/02/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		107 %	70-130	07/02/24	07/02/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2427022
Diesel Range Organics (C10-C28)	ND	25.0	1	07/02/24	07/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/02/24	07/02/24	
<i>Surrogate: n-Nonane</i>						
		98.2 %	50-200	07/02/24	07/02/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: DT		Batch: 2427023
Chloride	37.5	20.0	1	07/02/24	07/02/24	



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw 13 Federal 1H	Reported:  7/2/2024 1:02:54PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

Volatile Organics by EPA 8021B

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 (2427021-BLK1)

Prepared: 07/02/24 Analyzed: 07/02/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.49		8.00		93.6	70-130			

LCS (2427021-BS1)

Prepared: 07/02/24 Analyzed: 07/02/24

Benzene	4.71	0.0250	5.00		94.1	70-130			
Ethylbenzene	4.72	0.0250	5.00		94.5	70-130			
Toluene	4.78	0.0250	5.00		95.6	70-130			
o-Xylene	4.72	0.0250	5.00		94.5	70-130			
p,m-Xylene	9.60	0.0500	10.0		96.0	70-130			
Total Xylenes	14.3	0.0250	15.0		95.5	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.41		8.00		92.7	70-130			

LCS Dup (2427021-BSD1)

Prepared: 07/02/24 Analyzed: 07/02/24

Benzene	4.69	0.0250	5.00		93.9	70-130	0.267	20	
Ethylbenzene	4.72	0.0250	5.00		94.3	70-130	0.162	20	
Toluene	4.76	0.0250	5.00		95.2	70-130	0.355	20	
o-Xylene	4.72	0.0250	5.00		94.3	70-130	0.141	20	
p,m-Xylene	9.59	0.0500	10.0		95.9	70-130	0.0824	20	
Total Xylenes	14.3	0.0250	15.0		95.4	70-130	0.102	20	
Surrogate: 4-Bromochlorobenzene-PID	7.47		8.00		93.4	70-130			





QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw 13 Federal 1H	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	7/2/2024 1:02:54PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2427021-BLK1) Prepared: 07/02/24 Analyzed: 07/02/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.54		8.00		94.3	70-130			

LCS (2427021-BS2) Prepared: 07/02/24 Analyzed: 07/02/24

Gasoline Range Organics (C6-C10)	51.5	20.0	50.0		103	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.67		8.00		95.9	70-130			

LCS Dup (2427021-BSD2) Prepared: 07/02/24 Analyzed: 07/02/24

Gasoline Range Organics (C6-C10)	48.8	20.0	50.0		97.5	70-130	5.37	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.74		8.00		96.8	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw 13 Federal 1H	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	7/2/2024 1:02:54PM

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 (2427022-BLK1) Prepared: 07/02/24 Analyzed: 07/02/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	45.1		50.0		90.3	50-200			

LCS (2427022-BS1) Prepared: 07/02/24 Analyzed: 07/02/24

Diesel Range Organics (C10-C28)	287	25.0	250		115	38-132			
Surrogate: n-Nonane	49.6		50.0		99.3	50-200			

Matrix Spike (2427022-MS1) Source: E407004-05 Prepared: 07/02/24 Analyzed: 07/02/24

Diesel Range Organics (C10-C28)	295	25.0	250	ND	118	38-132			
Surrogate: n-Nonane	48.3		50.0		96.6	50-200			

Matrix Spike Dup (2427022-MSD1) Source: E407004-05 Prepared: 07/02/24 Analyzed: 07/02/24

Diesel Range Organics (C10-C28)	304	25.0	250	ND	122	38-132	2.85	20	
Surrogate: n-Nonane	49.1		50.0		98.3	50-200			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw 13 Federal 1H	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	7/2/2024 1:02:54PM

Anions by EPA 300.0/9056A

Analyst: DT

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 (2427023-BLK1)					Prepared: 07/02/24 Analyzed: 07/02/24				
Chloride	ND	20.0							
LCS (2427023-BS1)					Prepared: 07/02/24 Analyzed: 07/02/24				
Chloride	248	20.0	250		99.3	90-110			
Matrix Spike (2427023-MS1)					Source: E407004-04		Prepared: 07/02/24 Analyzed: 07/02/24		
Chloride	305	20.0	250	50.7	102	80-120			
Matrix Spike Dup (2427023-MSD1)					Source: E407004-04		Prepared: 07/02/24 Analyzed: 07/02/24		
Chloride	304	20.0	250	50.7	101	80-120	0.363	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 13 Federal 1H	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Gio Gomez	07/02/24 13:02

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



## Chain of Custody





## Envirotech Analytical Laboratory

Printed: 7/2/2024 10:19:59AM

## 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:	07/02/24 10:00	Work Order ID:	E407004
Phone:	(575) 631-6977	Date Logged In:	07/01/24 15:56	Logged In By:	Alexa Michaels
Email:	gio@pimaoil.com	Due Date:	07/02/24 17:00 (0 day TAT)		

**Chain of Custody (COC)**

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

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

Carrier: Courier**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? No

**Sample Preservation**

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

**Multiphase Sample Matrix**

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

**Subcontract Laboratory**

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

**Client Instruction**

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

Date



envirotech Inc.

**District I**  
1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-6161 Fax:(575) 393-0720  
**District II**  
811 S. First St., Artesia, NM 88210  
Phone:(575) 748-1283 Fax:(575) 748-9720  
**District III**  
1000 Rio Brazos Rd., Aztec, NM 87410  
Phone:(505) 334-6178 Fax:(505) 334-6170  
**District IV**  
1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS  
  
Action 363599

QUESTIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID:	6137
	Action Number:	363599
	Action Type:	
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QUESTIONS

Prerequisites	
Incident ID (n#)	nAB1908044051
Incident Name	NAB1908044051 COTTON DRAW 13 FEDERAL #001H @ 30-015-40385
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received
Incident Well	[30-015-40385] COTTON DRAW 13 FEDERAL #001H

Location of Release Source	
Please answer all the questions in this group.	
Site Name	COTTON DRAW 13 FEDERAL #001H
Date Release Discovered	07/24/2013
Surface Owner	Federal

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Cause: Equipment Failure   Dump Valve   Crude Oil   Released: 4 BBL   Recovered: 2 BBL   Lost: 2 BBL.
Produced Water Released (bbls) Details	Cause: Equipment Failure   Dump Valve   Produced Water   Released: 10 BBL   Recovered: 7 BBL   Lost: 3 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

**District I**

1625 N. French Dr., Hobbs, NM 88240  
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QUESTIONS, Page 2

Action 363599

**QUESTIONS (continued)**

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID:	6137
	Action Number:	363599
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Nature and Volume of Release (continued)</b>	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No
Reasons why this would be considered a submission for a notification of a major release	Unavailable.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

**Initial Response**

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

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

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

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

I hereby agree and sign off to the above statement	Name: Dale Woodall Title: EHS Professional Email: Dale.Woodall@dmn.com Date: 07/12/2024
--	--

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QUESTIONS, Page 3

Action 363599

**QUESTIONS (continued)**

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID:	6137
	Action Number:	363599
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS****Site Characterization**

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

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 51 and 75 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
<b>What is the minimum distance, between the closest lateral extents of the release and the following surface areas:</b>	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Between 1 and 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

**Remediation Plan**

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

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

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

Chloride	(EPA 300.0 or SM4500 Cl B)	248
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	373
GRO+DRO	(EPA SW-846 Method 8015M)	184
BTEX	(EPA SW-846 Method 8021B or 8260B)	0
Benzene	(EPA SW-846 Method 8021B or 8260B)	0

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

On what estimated date will the remediation commence	06/28/2024
On what date will (or did) the final sampling or liner inspection occur	06/28/2024
On what date will (or was) the remediation complete(d)	07/12/2024
What is the estimated surface area (in square feet) that will be reclaimed	0
What is the estimated volume (in cubic yards) that will be reclaimed	0
What is the estimated surface area (in square feet) that will be remediated	234
What is the estimated volume (in cubic yards) that will be remediated	31

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

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

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QUESTIONS, Page 4

Action 363599

**QUESTIONS (continued)**

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	Action Number:	363599
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Remediation Plan (continued)</b>	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
<b>This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:</b>	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and <b>off-site</b> disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for <b>off-site</b> disposal	R360 ARTESIA LLC LANDFARM [FEEM0112340644]
<b>OR</b> which OCD approved well (API) will be used for <b>off-site</b> disposal	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, out-of-state	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and <b>on-site</b> remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Dale Woodall Title: EHS Professional Email: Dale.Woodall@dmn.com Date: 07/12/2024
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 5  
  
Action 363599

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 363599
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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



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QUESTIONS, Page 6

Action 363599

**QUESTIONS (continued)**

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID:	6137
	Action Number:	363599
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

Sampling Event Information	
Last sampling notification (C-141N) recorded	357729
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	06/28/2024
What was the (estimated) number of samples that were to be gathered	2
What was the sampling surface area in square feet	234

**Remediation Closure Request**

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

Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	234
What was the total volume (cubic yards) remediated	31
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	234
What was the total volume (in cubic yards) reclaimed	31
Summarize any additional remediation activities not included by answers (above)	see reports

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

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

I hereby agree and sign off to the above statement	Name: Dale Woodall Title: EHS Professional Email: Dale.Woodall@dmn.com Date: 07/12/2024
--	--

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Action 363599

QUESTIONS (continued)

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	Action Number: 363599
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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CONDITIONS

Action 363599

CONDITIONS

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CONDITIONS

Created By	Condition	Condition Date
nvelez	None	8/21/2024