



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

July 3, 2024

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

Re: Site Assessment, Remediation, and Closure Report
Cotton Draw Unit #509
API No. 30-025-43916
GPS: Latitude 32.1245605 Longitude -103.7077654
UL - P, 18, T25S, R32E
Lea County, NM
NMOCD Ref. No. NAB1906554479

Pima Environmental Services, LLC. (Pima) has been contracted by Devon Energy Production Company, LP (Devon) to prepare this Site Assessment, Remediation, and Closure Report for a crude oil and produced Water release that occurred at the Cotton Draw Unit #509 (Cotton). The incident was assigned incident NAB1906554479 by the New Mexico Oil Conservation Division (NMOCD).

Site Characterization

The Cotton is located approximately thirty (30) miles west of Jal, NM. This spill site is in Unit P, Section 18, Township 25S, Range 32E, Latitude 32.1245605 Longitude -103.7077654, Lea County, NM. Figure 1 references a Location Map.

Per the New Mexico Bureau of Geology and Mineral Resources, the geology is made up of Interlayered eolian sands and piedmont-slope deposits along the eastern flank of the Pecos River valley, primarily between Roswell and Carlsbad. Typically capped by thin eolian deposits. The soil in this area is made up of Kermit-Palomas fine sands, 0 to 12 percent slopes according to the United States Department of Agriculture Natural Resources Conservation Service soil survey (Appendix B). The drainage class in this area is Excessively drained. There is a low potential for karst geology to be present around the Cotton (Figure 3).

Based on the well water data from the New Mexico Office of the State Engineer water well (C-04618- POD1), the depth to the nearest groundwater in this vicinity measures 55 feet below grade surface (BGS), positioned 0.52 miles away from the Cotton, and was drilled on June 1, 2022. Conversely, as per the United States Geological Survey well water data (USGS320504103361801), the nearest groundwater depth in this region is recorded at 235 feet BGS, situated approximately 6.57 miles away from the Cotton, with the last gauge conducted in 2012. For detailed references to water surveys and the precise locations of water wells, please refer to Appendix A

Table 1 NMAC and Closure Criteria 19.15.29

Depth to Groundwater (Appendix A)	Constituent & Limits				
	Chlorides	Total TPH	GRO+DRO	BTEX	Benzene
<50'	600 mg/kg	100 mg/kg		50 mg/kg	10 mg/kg
51-100' (C-04618-Pod1)	10,000 mg/kg	2,500 mg/kg	1,000 mg/kg	50 mg/kg	10 mg/kg
>100'	20,000 mg/kg	2,500 mg/kg	1,000 mg/kg	50 mg/kg	10 mg/kg

Reference Figure 2 for a Topographic Map.

Cotton Draw Unit #509|Devon Energy

Release Information

NAB1906554479: On February 12, 2019, there was a valve that failed on the chemical line attached to the flowline, causing fluid to be released. The released fluids were calculated to be approximately 5 barrels (bbls) of oil and 16.34 barrels of produced water. A vacuum truck was able to recover 16 bbls of standing fluid. Spill area 30' x 16' x ¼"

Remediation Activities, Site Assessment, and Soil Sampling Results

On March 11, and April 1, 2024, Pima mobilized personnel to the site to begin collecting soil samples from the spill area. The laboratory results of this sampling event can be found in the following data table. A Site Map can be found in Figure 4.

3-11 & 4/1-24 Soil Sample Results

NMOC Table 1 Closure Criteria 19.15.29 NMOC (Depth to Groundwater is 51-100')									
DEVON ENERGY Cotton Draw Unit #509H									
NM Approved Laboratory Results									
Sample ID	Sample Date:	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	CI mg/kg
S1	3/11/2024	1'	ND	ND	ND	ND	ND	0	ND
		2'	ND	ND	ND	ND	ND	0	ND
		3'	ND	ND	ND	ND	ND	0	46.2
		4'	ND	ND	ND	347	168	515	ND
	4/1/2024	5'	ND	ND	ND	ND	ND	0	ND
	4/1/2024	6'	ND	ND	ND	ND	ND	0	ND
S2	3/11/2024	1'	ND	ND	ND	ND	ND	0	ND
		2'	ND	ND	ND	ND	ND	0	ND
		3'	ND	ND	ND	ND	ND	0	44.9
		4'	ND	ND	ND	953	559	1512	ND
	4/1/2024	5'	ND	ND	ND	ND	ND	0	ND
	4/1/2024	6'	ND	ND	ND	ND	ND	0	ND
S3	3/11/2024	1'	ND	ND	ND	ND	ND	0	ND
		2'	ND	ND	ND	ND	ND	0	ND
		3'	ND	ND	ND	ND	ND	0	39.6
		4'	ND	ND	ND	994	696	1690	ND
	4/1/2024	5'	ND	ND	ND	ND	ND	0	ND
	4/1/2024	6'	ND	ND	ND	ND	ND	0	ND
S4	3/11/2024	1'	ND	ND	ND	ND	ND	0	ND
		2'	ND	ND	ND	ND	ND	0	ND
		3'	ND	ND	ND	ND	ND	0	39.1
		4'	ND	ND	ND	685	426	1111	ND
	4/1/2024	5'	ND	ND	ND	ND	ND	0	ND
	4/1/2024	6'	ND	ND	ND	ND	ND	0	ND
S5	3/11/2024	1'	ND	ND	ND	ND	ND	0	ND
		2'	ND	ND	ND	ND	ND	0	ND
		3'	ND	ND	ND	ND	ND	0	33.4
		4'	ND	ND	ND	2930	1800	4730	ND
	4/1/2024	5'	ND	ND	ND	ND	ND	0	ND
	4/1/2024	6'	ND	ND	ND	ND	ND	0	ND
S6	3/11/2024	1'	ND	ND	ND	ND	ND	0	ND
		2'	ND	ND	ND	ND	ND	0	ND
		3'	ND	ND	ND	ND	ND	0	27.2
		4'	ND	ND	ND	2300	1700	4000	ND
	4/1/2024	5'	ND	ND	ND	ND	ND	0	ND
	4/1/2024	6'	ND	ND	ND	ND	ND	0	ND
SW1	3/11/2024	0-6'	ND	ND	ND	ND	ND	0	ND
SW2	3/11/2024	0-6'	ND	ND	ND	ND	ND	0	ND
SW3	3/11/2024	0-6'	ND	ND	ND	ND	ND	0	ND
SW4	3/11/2024	0-6'	ND	ND	ND	ND	ND	0	ND
BG1	3/11/2024	0-6'	ND	ND	ND	ND	ND	0	ND

ND- Analyte Not Detected

On June 13, 2024, the Devon Construction Department mobilized personnel and equipment to begin immediate remediation activities. They began excavating the area to a depth of 4' BGS. The contaminated soil 85 cubic yards was hauled to an approved, lined disposal facility and clean backfill material was brought in.

On June 17, 2024, after sending a 48-hour notification, application ID:353630 (Appendix C), Pima returned to the site to collect 5-point confirmation samples of the excavation. The results of this sampling event can be found in the following table. A Confirmation Sample Map can be found in Figure 5.

6-17-24 Confirmation Sample Results

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is 51-100')								
DEVON ENERGY Cotton Draw Unit #509H								
Date: 6-17-24		NM Approved Laboratory Results						
Sample ID	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg
CS1	Bottom	ND	ND	ND	ND	ND	0	32
CS2	Bottom	ND	ND	ND	ND	ND	0	32
CS3	Bottom	ND	ND	ND	ND	ND	0	16
CSW1	0-4'	ND	ND	ND	ND	ND	0	16
CSW2	0-4'	ND	ND	ND	ND	ND	0	ND
CSW3	0-4'	ND	ND	ND	ND	ND	0	ND
CSW4	0-4'	ND	ND	ND	ND	ND	0	16
CSW5	0-4'	ND	ND	ND	ND	ND	0	16
CSW6	0-4'	ND	ND	ND	ND	ND	0	32

ND- Analyte Not Detected

Complete laboratory reports can be found in Appendix E.

Based on the sample results, the bottoms and sidewalls were below NMOCD Closure Criteria 19.15.29 NMAC. Based on the well water data from the New Mexico Office of the State Engineer water well (C-04618- POD1), the depth to the nearest groundwater in this vicinity measures 55 feet below grade surface (BGS), positioned 0.52 miles away from the Cotton, and was drilled on June 1, 2022. The contaminated material was sufficiently removed then transported to an NMOCD approved disposal site. The excavation was then backfilled with clean like material, machine compacted and returned to its previous state. See Appendix D for Photographic Documentation.

Closure Request

After careful review, Pima requests that this incident, NAB1906554479, be closed. Devon has complied with the applicable closure requirements set forth in rule 19.15.19.12 NMAC.

Should you have any questions or need additional information, please feel free to contact Gio Gomez at 806-782-1151 or gio@pimaoil.com.

Respectfully,



Gio Gomez

Project Manager

Pima Environmental Services, LLC

Attachments

Figures:

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

Appendices:

- Appendix A – Referenced Water Surveys
- Appendix B – Soil Survey and Geological Data, FEMA, Wetlands Map
- Appendix C – 48 Hour Notification
- Appendix D – Photographic Documentation
- Appendix E – Laboratory Reports

Figures:

Figure 1- Location Map

Figure 2- Topographic Map

Figure 3- Karst Map



Figure 4- Site Map

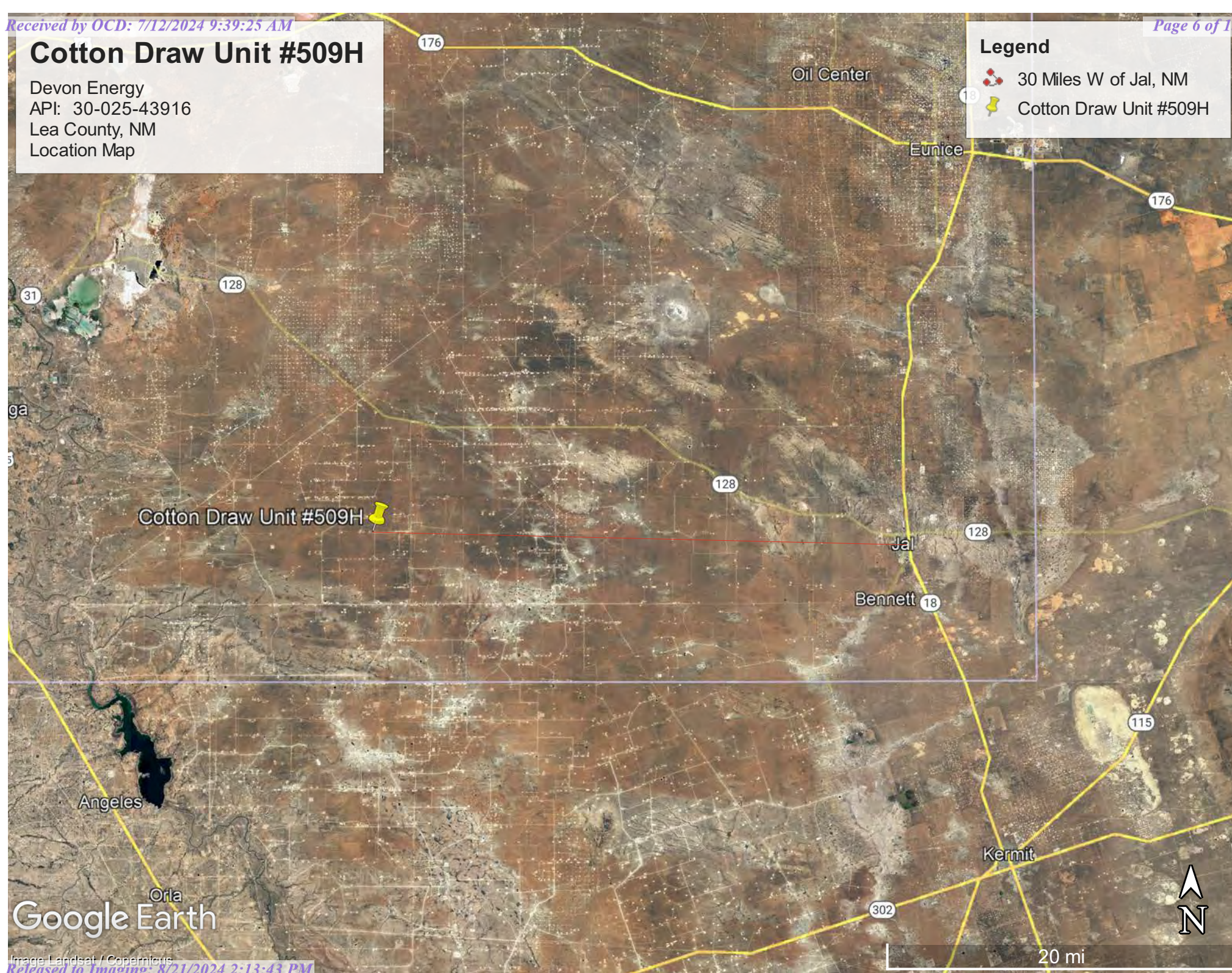
Figure 5- Confirmation Sample Map

Cotton Draw Unit #509H

Devon Energy
API: 30-025-43916
Lea County, NM
Location Map

Legend

-  30 Miles W of Jal, NM
-  Cotton Draw Unit #509H



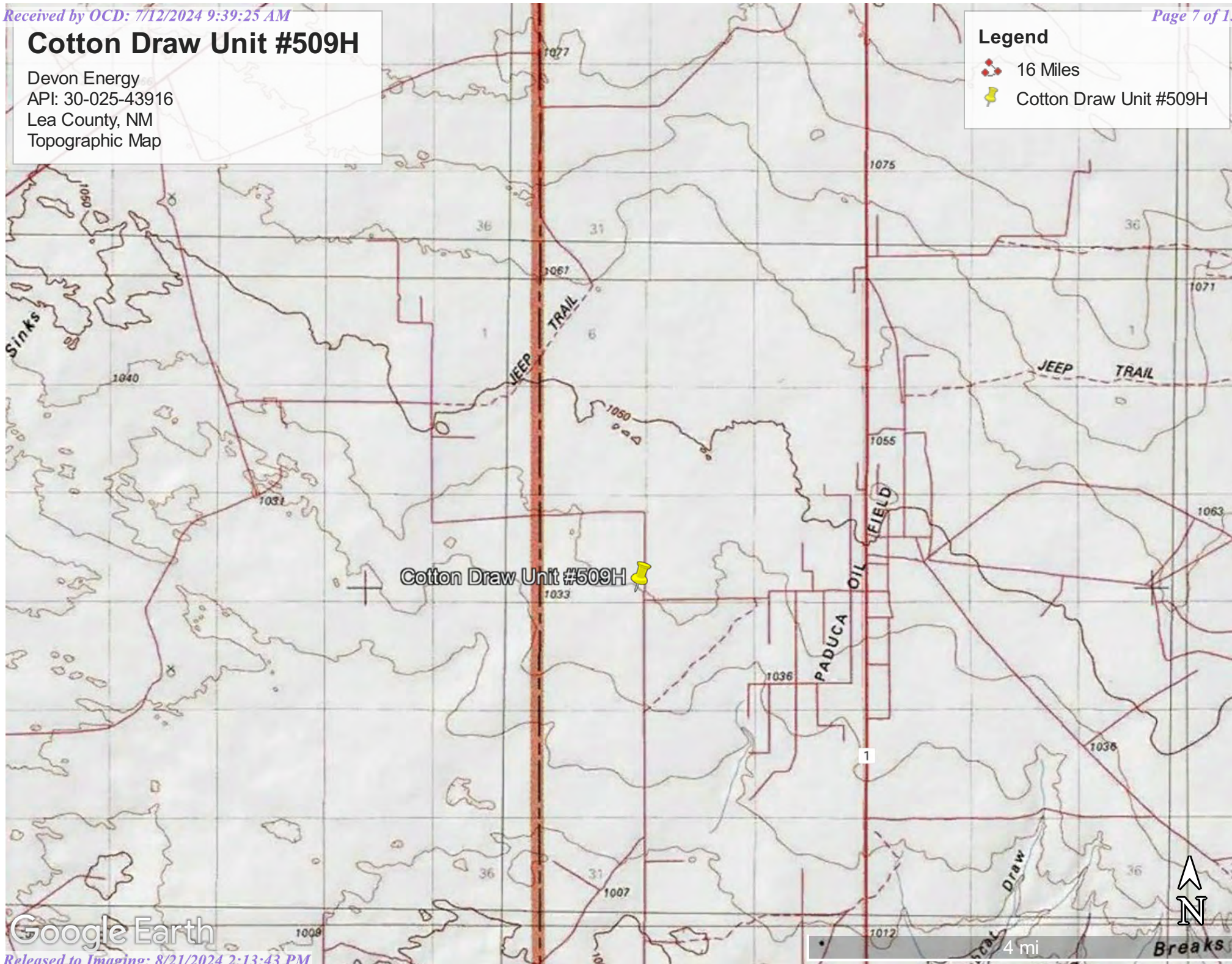
Google Earth

Cotton Draw Unit #509H

Devon Energy
API: 30-025-43916
Lea County, NM
Topographic Map

Legend

- 16 Miles
- Cotton Draw Unit #509H







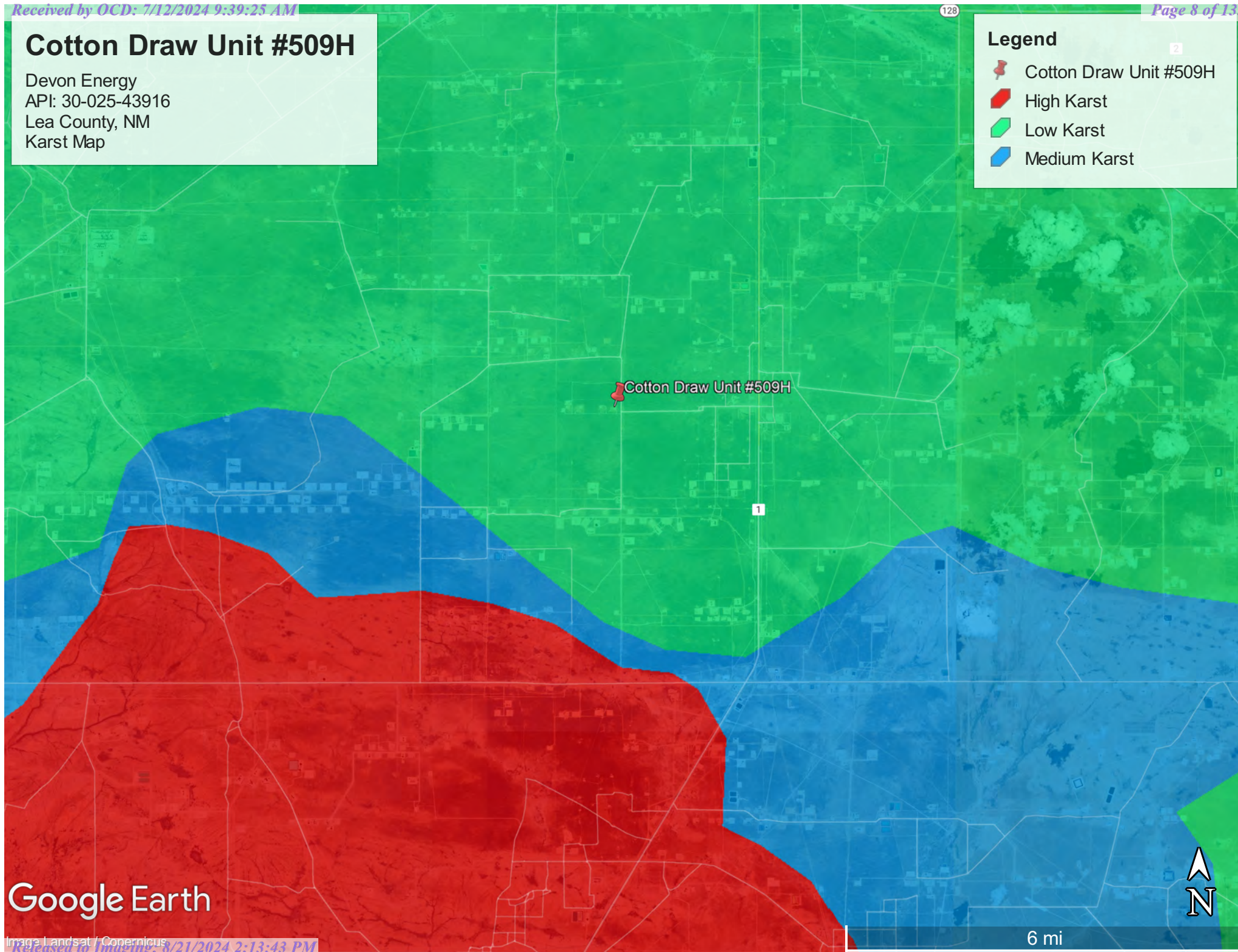
Google Earth

Cotton Draw Unit #509H

Devon Energy
API: 30-025-43916
Lea County, NM
Karst Map

Legend

-  Cotton Draw Unit #509H
-  High Karst
-  Low Karst
-  Medium Karst



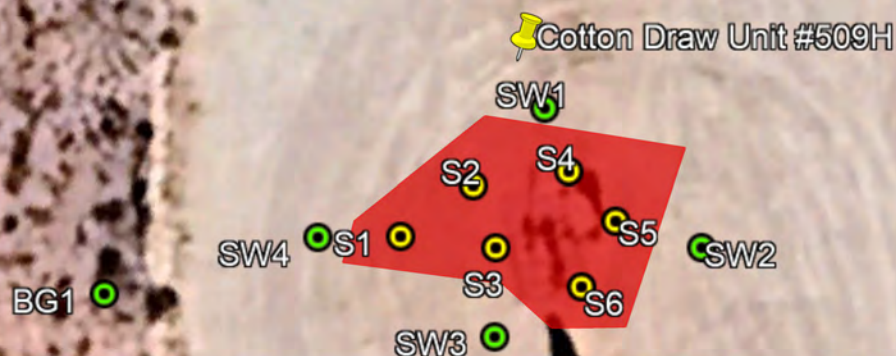
Google Earth

Cotton Draw Unit #509H

Devon Energy
API: 30-025-43916
Lea County, NM
Site Map

Legend

- 2,023 sqft
- Cotton Draw Unit #509H
- Sidewalls/Background
- Samples





Google Earth




Cotton Draw Unit #509H

Devon Energy
API: 30-025-43916
Lea County, NM
Confirmation Sample Map

Legend

-  Cotton Draw Unit #509H
-  Confirmation Samples

 Cotton Draw Unit #509H



Google Earth



Appendix A

Water Surveys:

- OSE
- USGS
- Surface Water Map



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

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

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

(In feet)

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Q 3	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
C 04618 POD1		CUB	LE	3	4	3	18	25S	32E		621041	3554886	864	55		
C 04722 POD1		CUB	LE	3	3	2	29	25S	32E		622962	3552530	2662			
C 04620 POD1		CUB	LE	4	3	4	06	25S	32E		621445	3558018	3079	55		
C 04635 POD1		CUB	ED	4	3	4	01	25S	31E		619958	3558078	3663	55		
C 04634 POD1		CUB	LE	4	3	3	10	25S	32E		625643	3556522	4049	55		
C 04722 POD2		CUB	LE	2	1	1	06	25S	32E		620808	3559499	4656	55		
C 02570		CUB	ED	4	2	4	02	25S	31E		618704	3558489*	4752	895		
C 03830 POD1		CUB	ED	4	2	4	02	25S	31E		618632	3558432	4759	450		
C 02568		CUB	ED	4	3	1	01	25S	31E		619103	3558892*	4815	1025		
C 02569		CUB	ED	4	4	2	02	25S	31E		618699	3558891*	5060	1016		
C 02573		CUB	ED	1	4	2	02	25S	31E		618499	3559091*	5341			
C 02572		CUB	ED	4	2	2	02	25S	31E		618695	3559294*	5380	852		
C 04619 POD1		CUB	ED	2	1	2	27	25S	31E		616750	3552958	5531	55		
C 02571		CUB	ED	4	1	2	02	25S	31E		618292	3559294*	5630	860		
C 04632 POD1		CUB	ED	1	2	2	10	25S	31E		616802	3557964	5911	55		
C 02574		CUB	ED	1	1	2	02	25S	31E		618092	3559494*	5911			
C 04256 POD1		C	ED	4	4	2	01	26S	31E		620384	3549257	5913	666	340	326
C 03829 POD1		CUB	LE	3	3	1	06	26S	32E		620628	3549186	5924	646	350	296
C 03639 POD1		CUB	ED	3	4	2	01	26S	31E		620168	3549279	5951	700	365	335
C 03554 POD1		CUB	ED	2	1	4	01	26S	31E		620547	3549148	5979	630	300	330
C 03554 POD2		CUB	ED	2	2	4	01	26S	31E		620527	3549105	6026	650	355	295
C 04209 POD2		C	LE	2	3	3	06	26S	32E		620818	3548657	6407	340	155	185
C 04209 POD1		CUB	LE	2	3	3	06	26S	32E		620903	3548619	6431	360	155	205
C 04654 POD1		CUB	ED	3	3	4	25	24S	31E		619764	3561226	6609	55		
C 02090		C	ED	4	4	01	26S	31E			620329	3548533*	6629	350	335	15
C 04636 POD1		CUB	ED	3	4	3	25	24S	31E		619200	3561279	6860			
C 04643 POD1		C	ED	4	2	2	05	23S	27E		619200	3561279	6860	305	135	170
C 04593 POD1		CUB	ED	3	4	4	34	24S	31E		616903	3559674	6862	55		

Average Depth to Water: 276 feet

Minimum Depth: 135 feet

Maximum Depth: 365 feet

Record Count: 28

UTMNAD83 Radius Search (in meters):

Easting (X): 621901.39 **Northing (Y):** 3554972.92 **Radius:** 7000

*UTM location was derived from PLSS - see Help


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

7/25/23 3:36 PM WATER COLUMN/ AVERAGE DEPTH TO WATER



New Mexico Office of the State Engineer

Point of Diversion Summary

Well Tag	POD Number	(quarters are 1=NW 2=NE 3=SW 4=SE)				(quarters are smallest to largest)		(NAD83 UTM in meters)	
		Q64	Q16	Q4	Sec	Tws	Rng	X	Y
NA	C 04618 POD1	3	4	3	18	25S	32E	621041	3554886 

x

Driller License: 1249 **Driller Company:** ATKINS ENGINEERING ASSOC. INC.

Driller Name: JACKIE ATKINS

Drill Start Date: 06/01/2022 **Drill Finish Date:** 06/01/2022 **Plug Date:**

Log File Date: 06/10/2022 **PCW Rcv Date:** **Source:**

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

Casing Size: **Depth Well:** 55 feet **Depth Water:**

x

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




5/30/24 2:41 PM

POINT OF DIVERSION SUMMARY

Cotton Draw Unit #509H

Devon Energy
API: 30-025-43916
Lea County, NM
C-04618 POD 1 Map

Legend

-  0.52 of a mile
-  C 04618 POD1
-  Cotton Draw Unit #509H

C 04618 POD1

 Cotton Draw Unit #509H

Google Earth



1000 ft



[USGS Home](#)
[Contact USGS](#)
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National Water Information System: Web Interface

USGS Water Resources

Data Category:


Groundwater ▼

Geographic Area:

United States ▼

GO

Click to hide News Bulletins

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

Groundwater levels for the Nation



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

Search Results -- 1 sites found

site_no list =

- 320504103361801

Minimum number of levels = 1

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

USGS 320504103361801 25S.33E.31.24232

Available data for this site

Groundwater: Field measurements ▼

GO

Lea County, New Mexico

Hydrologic Unit Code 13070001

Latitude 32°05'21.6", Longitude 103°36'12.7" NAD83

Land-surface elevation 3,403.00 feet above NGVD29

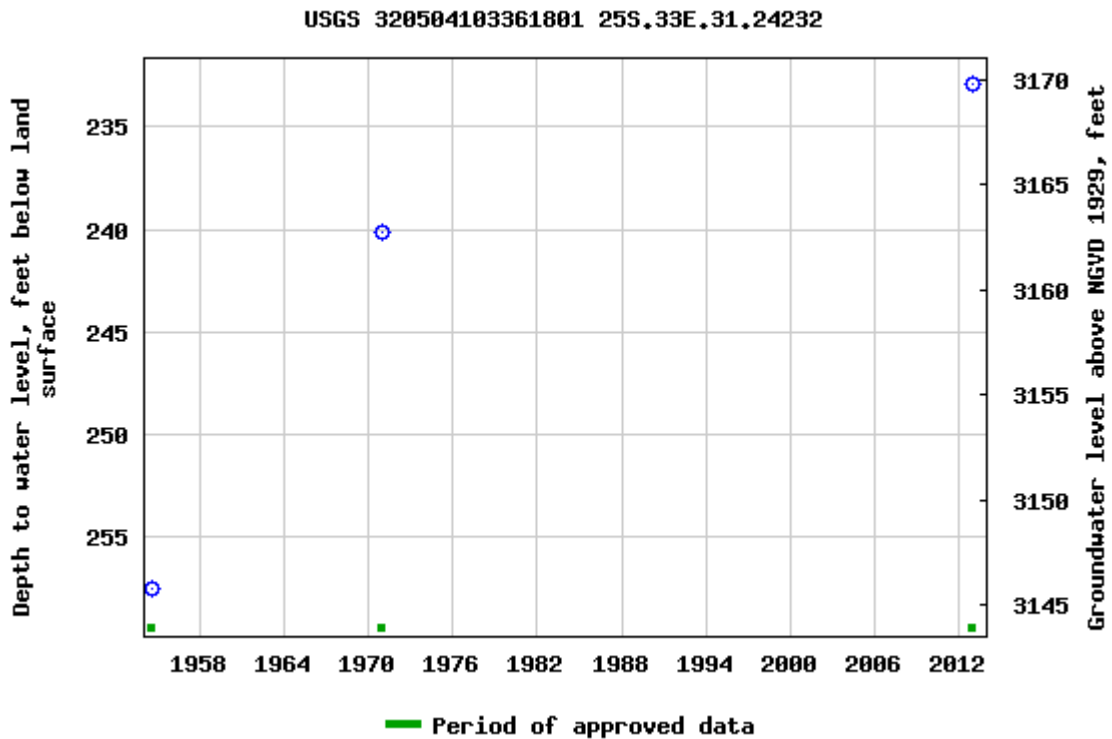
The depth of the well is 320 feet below land surface.

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

This well is completed in the Ogallala Formation (121OGLL) 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.

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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: 2023-07-25 17:21:38 EDT

0.58 0.48 nadww01

Cotton Draw Unit #509H

Devon Energy
API: 30-025-43916
Lea County, NM
USGS Map

Legend

- 6.57 Miles
- Cotton Draw Unit #509H
- USGS 320504103361801

Cotton Draw Unit #509H

USGS 320504103361801



Google Earth

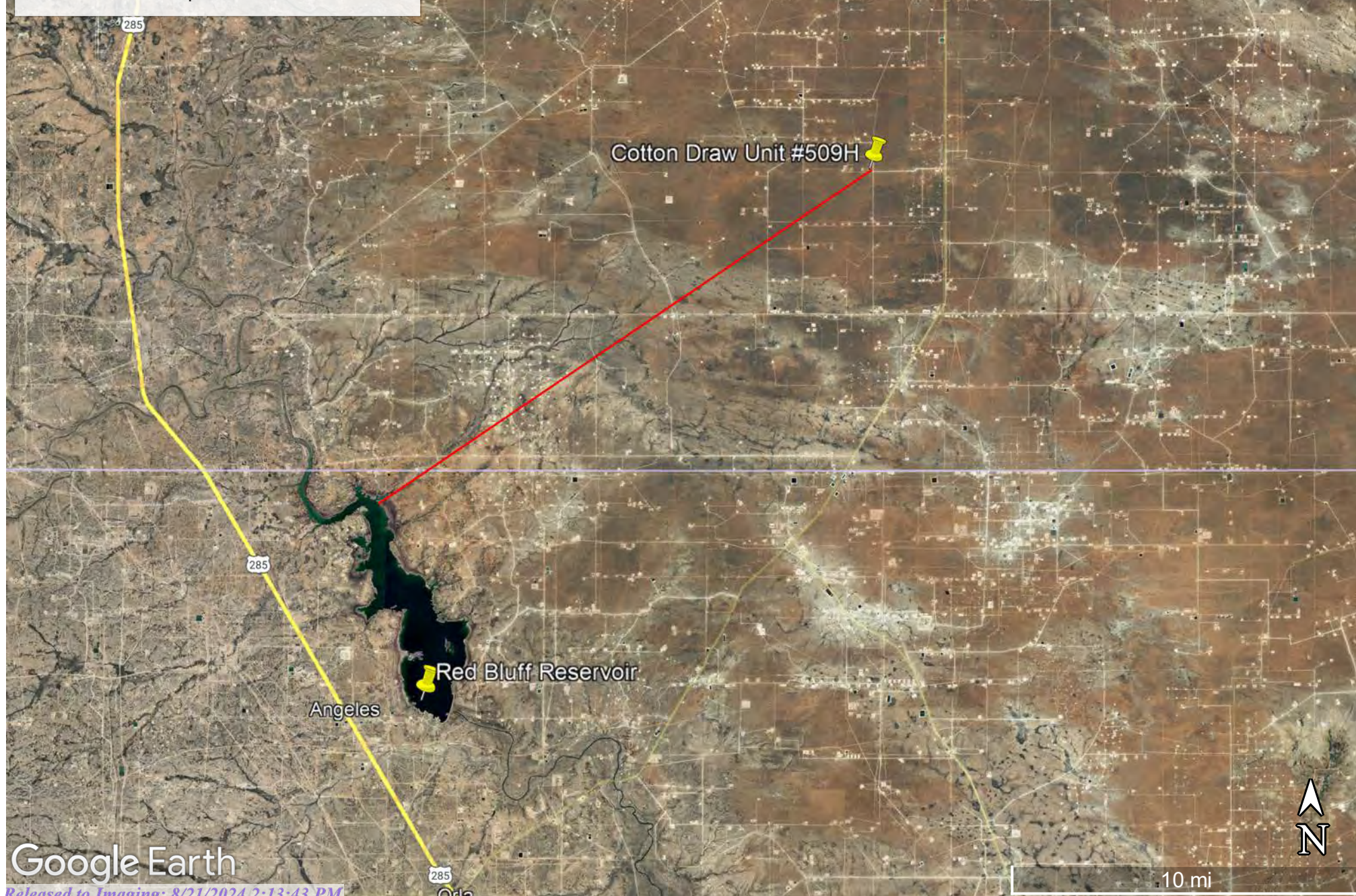


Cotton Draw Unit #509H

Devon Energy
API: 30-025-43916
Lea County, NM
Surface Water Map

Legend

-  16 Miles
-  Cotton Draw Unit #509H



Google Earth



Appendix B

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

Map Unit Description: Kermit-Palomas fine sands, 0 to 12 percent slopes---Lea County, New Mexico

Lea County, New Mexico

KD—Kermit-Palomas fine sands, 0 to 12 percent slopes

Map Unit Setting

National map unit symbol: dmpv

Elevation: 3,000 to 4,400 feet

Mean annual precipitation: 10 to 12 inches

Mean annual air temperature: 60 to 62 degrees F

Frost-free period: 190 to 205 days

Farmland classification: Not prime farmland

Map Unit Composition

Kermit and similar soils: 70 percent

Palomas and similar soils: 20 percent

Minor components: 10 percent

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

Description of Kermit

Setting

Landform: Dunes

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

Landform position (three-dimensional): Side slope

Down-slope shape: Concave, linear, convex

Across-slope shape: Convex

Parent material: Calcareous sandy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 8 inches: fine sand

C - 8 to 60 inches: fine sand

Properties and qualities

Slope: 3 to 12 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Excessively drained

Runoff class: Very low

Capacity of the most limiting layer to transmit water (Ksat): Very high (20.00 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Maximum salinity: Nonsaline (0.0 to 1.0 mmhos/cm)

Sodium adsorption ratio, maximum: 2.0

Available water supply, 0 to 60 inches: Low (about 3.1 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7e

Map Unit Description: Kermit-Palomas fine sands, 0 to 12 percent slopes---Lea County, New Mexico

Hydrologic Soil Group: A
Ecological site: R070BD005NM - Deep Sand
Hydric soil rating: No

Description of Palomas

Setting

Landform: Dunes
Landform position (two-dimensional): Shoulder, backslope, footslope
Landform position (three-dimensional): Side slope
Down-slope shape: Convex, linear, concave
Across-slope shape: Convex
Parent material: Alluvium derived from sandstone

Typical profile

A - 0 to 16 inches: fine sand
Bt - 16 to 60 inches: sandy clay loam
Bk - 60 to 66 inches: sandy loam

Properties and qualities

Slope: 0 to 5 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: 50 percent
Gypsum, maximum content: 1 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 2.0
Available water supply, 0 to 60 inches: Moderate (about 7.5 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7e
Hydrologic Soil Group: B
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Minor Components

Pyote

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

Maljamar

Percent of map unit: 4 percent

Map Unit Description: Kermit-Palomas fine sands, 0 to 12 percent slopes---Lea County, New Mexico

Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Palomas

Percent of map unit: 1 percent
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

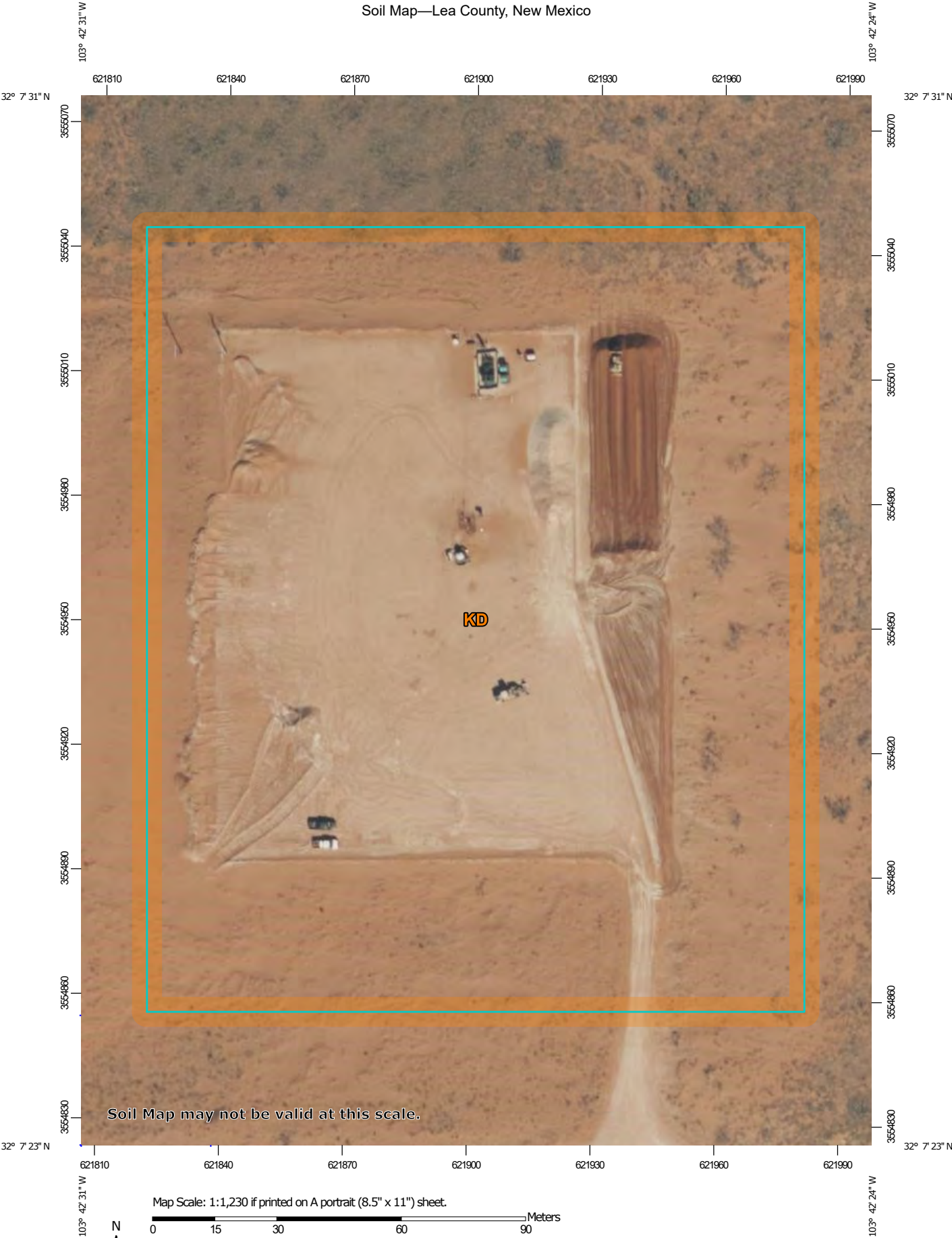
Dune land

Percent of map unit: 1 percent
Hydric soil rating: No

Data Source Information

Soil Survey Area: Lea County, New Mexico
Survey Area Data: Version 19, Sep 8, 2022

Soil Map—Lea County, New Mexico



Natural Resources
Conservation Service


Web Soil Survey
National Cooperative Soil Survey

6/24/2024
Page 1 of 3

Soil Map—Lea County, 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: Lea County, New Mexico

Survey Area Data: Version 20, Sep 6, 2023

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

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

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



Natural Resources
Conservation Service

Web Soil Survey
National Cooperative Soil Survey

6/24/2024
Page 2 of 3

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
KD	Kermit-Palomas fine sands, 0 to 12 percent slopes	7.5	100.0%
Totals for Area of Interest		7.5	100.0%

Cotton Draw Unit #509H

Devon Energy
API: 30-025-43916
Lea County, NM
Geological Map

Legend

- Alluvium
- Artesia Group
- Cotton Draw Unit #509H
- Eolian and piedmont deposits
- Eolian deposits
- Lacustrine and playa-lake deposits
- Ogallala Formation
- Piedmont alluvial deposits
- Quartermaster and Rustler Formations
- Rustler Formation
- Upper Chinle Group, Garita Creek through Redonda Formations, undivided

Cotton Draw Unit #509H

Google Earth

Image © 2024 Airbus
Released to Imaging: 8/21/2024 2:13:43 PM

3 mi



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

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

Eolian and piedmont deposits

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

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

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

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

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

National Flood Hazard Layer FIRMMette



103°42'47"W 32°7'44"N



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

1:6,000

103°42'9"W 32°7'13"N

Released to Imaging: 8/21/2024 2:13:43 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		Cross Sections with 1% Annual Chance Water Surface Elevation
		Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped

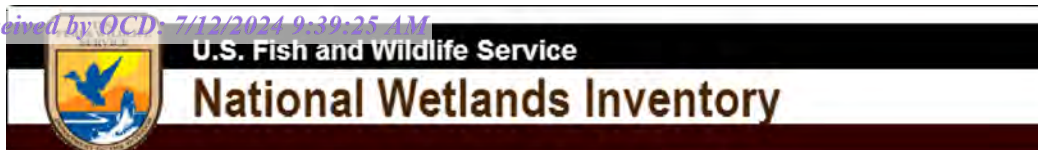


The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

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 7/3/2024 at 11:52 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.



Wetlands Map



July 25, 2023

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

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

- Lake
- Other
- Riverine

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



Appendix C

○ 48-Hour Notification



Gio PimaOil <gio@pimaoil.com>

FW: [EXTERNAL] The Oil Conservation Division (OCD) has accepted the application, Application ID: 353630

1 message

Woodall, Dale <Dale.Woodall@dvn.com>

Wed, Jun 12, 2024 at 4:40 PM

To: Gio PimaOil <gio@pimaoil.com>, Lynsey Pima Oil <lynsey@pimaoil.com>, Tom Pima Oil <tom@pimaoil.com>

Dale Woodall

Environmental Professional

Hobbs, NM

Office: 575-748-1838

Mobile: 405-318-4697

Dale.Woodall@dvn.com

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>

Sent: Wednesday, June 12, 2024 4:36 PM

To: Woodall, Dale <Dale.Woodall@dvn.com>

Subject: [EXTERNAL] The Oil Conservation Division (OCD) has accepted the application, Application ID: 353630

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#) nAB1906554479.

The sampling event is expected to take place:

When: 06/17/2024 @ 08:00

Where: P-18-25S-32E 0 FNL 0 FEL (32.1245605,-103.7077354)

Additional Information: Andrew Franco -806-200-0054

Additional Instructions: P-18-25S-32E (32.1245605,-103.7077654 NAD83) From the intersection of NM 128 and County Rd 1, travel south on County Rd 1 for 6.26 miles, turn west on Lease Rd for 2.06 miles, turn south on lease rd for 0.03 of a mile, turn west on lease Rd for 0.07 of a mile, turn north on lease Rd for 0.09 arriving to 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.



Appendix D

○ Photographic Documentation

PHOTOGRAPHIC DOCUMENTATION

SITE NAME: Cotton Draw Unit #509H

Assessment:



Site information sign.



Photo of release taken during assessment on East side of location, facing West.



Photo of release taken during assessment on South side of location, facing North.



Photo of release taken during assessment on West side of location, facing East.



PHOTOGRAPHIC DOCUMENTATION

SITE NAME: Cotton Draw Unit #509H

Assessment:



Photo taken during assessment on North side of location, facing South.

PHOTOGRAPHIC DOCUMENTATION

SITE NAME: Cotton Draw Unit #509H

Pre-Excavation:



Photo of release prior to excavation, taken facing North.



Photo of release prior to excavation, taken facing South.



Photo of release prior to excavation, taken facing West.



Photo of release prior to excavation, taken facing Southwest.

PHOTOGRAPHIC DOCUMENTATION

SITE NAME: Cotton Draw Unit #509H

Pre-Excavation:



Photo of release prior to excavation, taken facing South.



Photo of release prior to excavation, taken facing Northwest.

PHOTOGRAPHIC DOCUMENTATION

SITE NAME: Cotton Draw Unit #509H

Excavation:



Photo taken during excavation, facing North.



Photo taken during excavation, facing South.



Photo taken during excavation, facing Southeast.



Photo taken during excavation, facing Southwest.

PHOTOGRAPHIC DOCUMENTATION

SITE NAME: Cotton Draw Unit #509H

Post Excavation:



Photo taken after excavation and backfill, facing Northwest.



Photo taken after excavation and backfill, facing West.



Photo taken after excavation and backfill, facing Southeast.



Photo taken after excavation and backfill, facing East.



Appendix E

○ Laboratory Reports

Report to:
Gio Gomez



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Pima Environmental Services-Carlsbad

Project Name: Cotton Draw Unit 509H

Work Order: E403124

Job Number: 01058-0007

Received: 3/13/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
3/20/24

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: 3/20/24

Gio Gomez
PO Box 247
Plains, TX 79355-0247



Project Name: Cotton Draw Unit 509H
Workorder: E403124
Date Received: 3/13/2024 7:00:00AM

Gio Gomez,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 3/13/2024 7:00:00AM, under the Project Name: Cotton Draw Unit 509H.

The analytical test results summarized in this report with the Project Name: Cotton Draw Unit 509H 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

Raina Schwanz
Laboratory Administrator
Office: 505-632-1881
rainaschwanz@envirotech-inc.com

Alexa Michaels
Sample Custody Officer
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mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 509H	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	03/20/24 14:58

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
S1 -1'	E403124-01A	Soil	03/11/24	03/13/24	Glass Jar, 2 oz.
S1 -2'	E403124-02A	Soil	03/11/24	03/13/24	Glass Jar, 2 oz.
S1 -3'	E403124-03A	Soil	03/11/24	03/13/24	Glass Jar, 2 oz.
S1 -4'	E403124-04A	Soil	03/11/24	03/13/24	Glass Jar, 2 oz.
S2 -1'	E403124-05A	Soil	03/11/24	03/13/24	Glass Jar, 2 oz.
S2 -2'	E403124-06A	Soil	03/11/24	03/13/24	Glass Jar, 2 oz.
S2 -3'	E403124-07A	Soil	03/11/24	03/13/24	Glass Jar, 2 oz.
S2 -4'	E403124-08A	Soil	03/11/24	03/13/24	Glass Jar, 2 oz.
S3 -1'	E403124-09A	Soil	03/11/24	03/13/24	Glass Jar, 2 oz.
S3 -2'	E403124-10A	Soil	03/11/24	03/13/24	Glass Jar, 2 oz.
S3 -3'	E403124-11A	Soil	03/11/24	03/13/24	Glass Jar, 2 oz.
S3 -4'	E403124-12A	Soil	03/11/24	03/13/24	Glass Jar, 2 oz.
S4 -1'	E403124-13A	Soil	03/11/24	03/13/24	Glass Jar, 2 oz.
S4 -2'	E403124-14A	Soil	03/11/24	03/13/24	Glass Jar, 2 oz.
S4 -3'	E403124-15A	Soil	03/11/24	03/13/24	Glass Jar, 2 oz.
S4 -4'	E403124-16A	Soil	03/11/24	03/13/24	Glass Jar, 2 oz.
S5 -1'	E403124-17A	Soil	03/11/24	03/13/24	Glass Jar, 2 oz.
S5 -2'	E403124-18A	Soil	03/11/24	03/13/24	Glass Jar, 2 oz.
S5 -3'	E403124-19A	Soil	03/11/24	03/13/24	Glass Jar, 2 oz.
S5 -4'	E403124-20A	Soil	03/11/24	03/13/24	Glass Jar, 2 oz.
S6 -1'	E403124-21A	Soil	03/11/24	03/13/24	Glass Jar, 2 oz.
S6 -2'	E403124-22A	Soil	03/11/24	03/13/24	Glass Jar, 2 oz.
S6 -3'	E403124-23A	Soil	03/11/24	03/13/24	Glass Jar, 2 oz.
S6 -4'	E403124-24A	Soil	03/11/24	03/13/24	Glass Jar, 2 oz.
SW1	E403124-25A	Soil	03/11/24	03/13/24	Glass Jar, 2 oz.
SW2	E403124-26A	Soil	03/11/24	03/13/24	Glass Jar, 2 oz.
SW3	E403124-27A	Soil	03/11/24	03/13/24	Glass Jar, 2 oz.
SW4	E403124-28A	Soil	03/11/24	03/13/24	Glass Jar, 2 oz.
BG1	E403124-29A	Soil	03/11/24	03/13/24	Glass Jar, 2 oz.



Sample Data

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

Project Name: Cotton Draw Unit 509H
Project Number: 01058-0007
Project Manager: Gio Gomez

Reported:
3/20/2024 2:58:01PM

S1 -1'

E403124-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2411080
Benzene	ND	0.0250	1	03/13/24	03/18/24	
Ethylbenzene	ND	0.0250	1	03/13/24	03/18/24	
Toluene	ND	0.0250	1	03/13/24	03/18/24	
o-Xylene	ND	0.0250	1	03/13/24	03/18/24	
p,m-Xylene	ND	0.0500	1	03/13/24	03/18/24	
Total Xylenes	ND	0.0250	1	03/13/24	03/18/24	
Surrogate: Bromofluorobenzene		107 %	70-130	03/13/24	03/18/24	
Surrogate: 1,2-Dichloroethane-d4		91.7 %	70-130	03/13/24	03/18/24	
Surrogate: Toluene-d8		107 %	70-130	03/13/24	03/18/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2411080
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/13/24	03/18/24	
Surrogate: Bromofluorobenzene		107 %	70-130	03/13/24	03/18/24	
Surrogate: 1,2-Dichloroethane-d4		91.7 %	70-130	03/13/24	03/18/24	
Surrogate: Toluene-d8		107 %	70-130	03/13/24	03/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2411136
Diesel Range Organics (C10-C28)	ND	25.0	1	03/15/24	03/18/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/15/24	03/18/24	
Surrogate: n-Nonane		84.1 %	50-200	03/15/24	03/18/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2412020
Chloride	ND	20.0	1	03/18/24	03/19/24	



Sample Data

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

Project Name: Cotton Draw Unit 509H
Project Number: 01058-0007
Project Manager: Gio Gomez

Reported:
3/20/2024 2:58:01PM

S1 -2'

E403124-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2411080
Benzene	ND	0.0250	1	03/13/24	03/18/24	
Ethylbenzene	ND	0.0250	1	03/13/24	03/18/24	
Toluene	ND	0.0250	1	03/13/24	03/18/24	
o-Xylene	ND	0.0250	1	03/13/24	03/18/24	
p,m-Xylene	ND	0.0500	1	03/13/24	03/18/24	
Total Xylenes	ND	0.0250	1	03/13/24	03/18/24	
Surrogate: Bromofluorobenzene		108 %	70-130	03/13/24	03/18/24	
Surrogate: 1,2-Dichloroethane-d4		93.5 %	70-130	03/13/24	03/18/24	
Surrogate: Toluene-d8		108 %	70-130	03/13/24	03/18/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2411080
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/13/24	03/18/24	
Surrogate: Bromofluorobenzene		108 %	70-130	03/13/24	03/18/24	
Surrogate: 1,2-Dichloroethane-d4		93.5 %	70-130	03/13/24	03/18/24	
Surrogate: Toluene-d8		108 %	70-130	03/13/24	03/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2411136
Diesel Range Organics (C10-C28)	ND	25.0	1	03/15/24	03/18/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/15/24	03/18/24	
Surrogate: n-Nonane		81.1 %	50-200	03/15/24	03/18/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2412020
Chloride	ND	20.0	1	03/18/24	03/19/24	



Sample Data

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

Project Name: Cotton Draw Unit 509H
Project Number: 01058-0007
Project Manager: Gio Gomez

Reported:
3/20/2024 2:58:01PM

S1 -3'

E403124-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2411080
Benzene	ND	0.0250	1	03/13/24	03/18/24	
Ethylbenzene	ND	0.0250	1	03/13/24	03/18/24	
Toluene	ND	0.0250	1	03/13/24	03/18/24	
o-Xylene	ND	0.0250	1	03/13/24	03/18/24	
p,m-Xylene	ND	0.0500	1	03/13/24	03/18/24	
Total Xylenes	ND	0.0250	1	03/13/24	03/18/24	
Surrogate: Bromofluorobenzene		109 %	70-130	03/13/24	03/18/24	
Surrogate: 1,2-Dichloroethane-d4		94.4 %	70-130	03/13/24	03/18/24	
Surrogate: Toluene-d8		107 %	70-130	03/13/24	03/18/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2411080
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/13/24	03/18/24	
Surrogate: Bromofluorobenzene		109 %	70-130	03/13/24	03/18/24	
Surrogate: 1,2-Dichloroethane-d4		94.4 %	70-130	03/13/24	03/18/24	
Surrogate: Toluene-d8		107 %	70-130	03/13/24	03/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2411136
Diesel Range Organics (C10-C28)	ND	25.0	1	03/15/24	03/18/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/15/24	03/18/24	
Surrogate: n-Nonane		86.1 %	50-200	03/15/24	03/18/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2412020
Chloride	46.2	20.0	1	03/18/24	03/19/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 509H	Reported: 3/20/2024 2:58:01PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

S1 -4'

E403124-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: RKS		Batch: 2411080	
Benzene	ND	0.0250	1	03/13/24	03/18/24	
Ethylbenzene	ND	0.0250	1	03/13/24	03/18/24	
Toluene	ND	0.0250	1	03/13/24	03/18/24	
o-Xylene	ND	0.0250	1	03/13/24	03/18/24	
p,m-Xylene	ND	0.0500	1	03/13/24	03/18/24	
Total Xylenes	ND	0.0250	1	03/13/24	03/18/24	
Surrogate: Bromofluorobenzene	108 %	70-130		03/13/24	03/18/24	
Surrogate: 1,2-Dichloroethane-d4	95.5 %	70-130		03/13/24	03/18/24	
Surrogate: Toluene-d8	107 %	70-130		03/13/24	03/18/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: RKS		Batch: 2411080	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/13/24	03/18/24	
Surrogate: Bromofluorobenzene	108 %	70-130		03/13/24	03/18/24	
Surrogate: 1,2-Dichloroethane-d4	95.5 %	70-130		03/13/24	03/18/24	
Surrogate: Toluene-d8	107 %	70-130		03/13/24	03/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2411136	
Diesel Range Organics (C10-C28)	347	25.0	1	03/15/24	03/18/24	
Oil Range Organics (C28-C36)	168	50.0	1	03/15/24	03/18/24	
Surrogate: n-Nonane	87.9 %	50-200		03/15/24	03/18/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2412020	
Chloride	ND	20.0	1	03/18/24	03/19/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 509H	Reported: 3/20/2024 2:58:01PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

S2 -1'

E403124-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2411080
Benzene	ND	0.0250	1	03/13/24	03/18/24	
Ethylbenzene	ND	0.0250	1	03/13/24	03/18/24	
Toluene	ND	0.0250	1	03/13/24	03/18/24	
o-Xylene	ND	0.0250	1	03/13/24	03/18/24	
p,m-Xylene	ND	0.0500	1	03/13/24	03/18/24	
Total Xylenes	ND	0.0250	1	03/13/24	03/18/24	
Surrogate: Bromofluorobenzene		107 %	70-130	03/13/24	03/18/24	
Surrogate: 1,2-Dichloroethane-d4		93.1 %	70-130	03/13/24	03/18/24	
Surrogate: Toluene-d8		107 %	70-130	03/13/24	03/18/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2411080
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/13/24	03/18/24	
Surrogate: Bromofluorobenzene		107 %	70-130	03/13/24	03/18/24	
Surrogate: 1,2-Dichloroethane-d4		93.1 %	70-130	03/13/24	03/18/24	
Surrogate: Toluene-d8		107 %	70-130	03/13/24	03/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2411136
Diesel Range Organics (C10-C28)	ND	25.0	1	03/15/24	03/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/15/24	03/19/24	
Surrogate: n-Nonane		82.6 %	50-200	03/15/24	03/19/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2412020
Chloride	ND	20.0	1	03/18/24	03/19/24	



Sample Data

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

Project Name: Cotton Draw Unit 509H
Project Number: 01058-0007
Project Manager: Gio Gomez

Reported:
3/20/2024 2:58:01PM

S2 -2'

E403124-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2411080
Benzene	ND	0.0250	1	03/13/24	03/18/24	
Ethylbenzene	ND	0.0250	1	03/13/24	03/18/24	
Toluene	ND	0.0250	1	03/13/24	03/18/24	
o-Xylene	ND	0.0250	1	03/13/24	03/18/24	
p,m-Xylene	ND	0.0500	1	03/13/24	03/18/24	
Total Xylenes	ND	0.0250	1	03/13/24	03/18/24	
Surrogate: Bromofluorobenzene		110 %	70-130	03/13/24	03/18/24	
Surrogate: 1,2-Dichloroethane-d4		90.4 %	70-130	03/13/24	03/18/24	
Surrogate: Toluene-d8		106 %	70-130	03/13/24	03/18/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2411080
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/13/24	03/18/24	
Surrogate: Bromofluorobenzene		110 %	70-130	03/13/24	03/18/24	
Surrogate: 1,2-Dichloroethane-d4		90.4 %	70-130	03/13/24	03/18/24	
Surrogate: Toluene-d8		106 %	70-130	03/13/24	03/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2411136
Diesel Range Organics (C10-C28)	ND	25.0	1	03/15/24	03/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/15/24	03/19/24	
Surrogate: n-Nonane		79.7 %	50-200	03/15/24	03/19/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2412020
Chloride	ND	20.0	1	03/18/24	03/19/24	



Sample Data

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

Project Name: Cotton Draw Unit 509H
Project Number: 01058-0007
Project Manager: Gio Gomez

Reported:
3/20/2024 2:58:01PM

S2 -3'

E403124-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2411080
Benzene	ND	0.0250	1	03/13/24	03/18/24	
Ethylbenzene	ND	0.0250	1	03/13/24	03/18/24	
Toluene	ND	0.0250	1	03/13/24	03/18/24	
o-Xylene	ND	0.0250	1	03/13/24	03/18/24	
p,m-Xylene	ND	0.0500	1	03/13/24	03/18/24	
Total Xylenes	ND	0.0250	1	03/13/24	03/18/24	
Surrogate: Bromofluorobenzene	108 %	70-130		03/13/24	03/18/24	
Surrogate: 1,2-Dichloroethane-d4	92.2 %	70-130		03/13/24	03/18/24	
Surrogate: Toluene-d8	106 %	70-130		03/13/24	03/18/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2411080
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/13/24	03/18/24	
Surrogate: Bromofluorobenzene	108 %	70-130		03/13/24	03/18/24	
Surrogate: 1,2-Dichloroethane-d4	92.2 %	70-130		03/13/24	03/18/24	
Surrogate: Toluene-d8	106 %	70-130		03/13/24	03/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2411136
Diesel Range Organics (C10-C28)	ND	25.0	1	03/15/24	03/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/15/24	03/19/24	
Surrogate: n-Nonane	81.4 %	50-200		03/15/24	03/19/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2412020
Chloride	44.9	20.0	1	03/18/24	03/19/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 509H	Reported: 3/20/2024 2:58:01PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

S2 -4'

E403124-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2411080
Benzene	ND	0.0250	1	03/13/24	03/18/24	
Ethylbenzene	ND	0.0250	1	03/13/24	03/18/24	
Toluene	ND	0.0250	1	03/13/24	03/18/24	
o-Xylene	ND	0.0250	1	03/13/24	03/18/24	
p,m-Xylene	ND	0.0500	1	03/13/24	03/18/24	
Total Xylenes	ND	0.0250	1	03/13/24	03/18/24	
Surrogate: Bromofluorobenzene		108 %	70-130	03/13/24	03/18/24	
Surrogate: 1,2-Dichloroethane-d4		91.7 %	70-130	03/13/24	03/18/24	
Surrogate: Toluene-d8		108 %	70-130	03/13/24	03/18/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2411080
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/13/24	03/18/24	
Surrogate: Bromofluorobenzene		108 %	70-130	03/13/24	03/18/24	
Surrogate: 1,2-Dichloroethane-d4		91.7 %	70-130	03/13/24	03/18/24	
Surrogate: Toluene-d8		108 %	70-130	03/13/24	03/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2411136
Diesel Range Organics (C10-C28)	953	25.0	1	03/15/24	03/19/24	
Oil Range Organics (C28-C36)	559	50.0	1	03/15/24	03/19/24	
Surrogate: n-Nonane		89.0 %	50-200	03/15/24	03/19/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2412020
Chloride	ND	20.0	1	03/18/24	03/19/24	



Sample Data

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

Project Name: Cotton Draw Unit 509H
Project Number: 01058-0007
Project Manager: Gio Gomez

Reported:
3/20/2024 2:58:01PM

S3 -1'

E403124-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2411080
Benzene	ND	0.0250	1	03/13/24	03/18/24	
Ethylbenzene	ND	0.0250	1	03/13/24	03/18/24	
Toluene	ND	0.0250	1	03/13/24	03/18/24	
o-Xylene	ND	0.0250	1	03/13/24	03/18/24	
p,m-Xylene	ND	0.0500	1	03/13/24	03/18/24	
Total Xylenes	ND	0.0250	1	03/13/24	03/18/24	
Surrogate: Bromofluorobenzene		107 %	70-130	03/13/24	03/18/24	
Surrogate: 1,2-Dichloroethane-d4		92.7 %	70-130	03/13/24	03/18/24	
Surrogate: Toluene-d8		106 %	70-130	03/13/24	03/18/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2411080
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/13/24	03/18/24	
Surrogate: Bromofluorobenzene		107 %	70-130	03/13/24	03/18/24	
Surrogate: 1,2-Dichloroethane-d4		92.7 %	70-130	03/13/24	03/18/24	
Surrogate: Toluene-d8		106 %	70-130	03/13/24	03/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2411136
Diesel Range Organics (C10-C28)	ND	25.0	1	03/15/24	03/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/15/24	03/19/24	
Surrogate: n-Nonane		82.0 %	50-200	03/15/24	03/19/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2412020
Chloride	ND	20.0	1	03/18/24	03/19/24	



Sample Data

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

Project Name: Cotton Draw Unit 509H
Project Number: 01058-0007
Project Manager: Gio Gomez

Reported:
3/20/2024 2:58:01PM

S3 -2'

E403124-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2411080
Benzene	ND	0.0250	1	03/13/24	03/18/24	
Ethylbenzene	ND	0.0250	1	03/13/24	03/18/24	
Toluene	ND	0.0250	1	03/13/24	03/18/24	
o-Xylene	ND	0.0250	1	03/13/24	03/18/24	
p,m-Xylene	ND	0.0500	1	03/13/24	03/18/24	
Total Xylenes	ND	0.0250	1	03/13/24	03/18/24	
Surrogate: Bromofluorobenzene		106 %	70-130	03/13/24	03/18/24	
Surrogate: 1,2-Dichloroethane-d4		91.4 %	70-130	03/13/24	03/18/24	
Surrogate: Toluene-d8		107 %	70-130	03/13/24	03/18/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2411080
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/13/24	03/18/24	
Surrogate: Bromofluorobenzene		106 %	70-130	03/13/24	03/18/24	
Surrogate: 1,2-Dichloroethane-d4		91.4 %	70-130	03/13/24	03/18/24	
Surrogate: Toluene-d8		107 %	70-130	03/13/24	03/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2411136
Diesel Range Organics (C10-C28)	ND	25.0	1	03/15/24	03/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/15/24	03/19/24	
Surrogate: n-Nonane		75.3 %	50-200	03/15/24	03/19/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2412020
Chloride	ND	20.0	1	03/18/24	03/19/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 509H	Reported: 3/20/2024 2:58:01PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

S3 -3'

E403124-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: RKS		Batch: 2411080	
Benzene	ND	0.0250	1	03/13/24	03/18/24	
Ethylbenzene	ND	0.0250	1	03/13/24	03/18/24	
Toluene	ND	0.0250	1	03/13/24	03/18/24	
o-Xylene	ND	0.0250	1	03/13/24	03/18/24	
p,m-Xylene	ND	0.0500	1	03/13/24	03/18/24	
Total Xylenes	ND	0.0250	1	03/13/24	03/18/24	
Surrogate: Bromofluorobenzene	106 %	70-130		03/13/24	03/18/24	
Surrogate: 1,2-Dichloroethane-d4	92.9 %	70-130		03/13/24	03/18/24	
Surrogate: Toluene-d8	108 %	70-130		03/13/24	03/18/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: RKS		Batch: 2411080	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/13/24	03/18/24	
Surrogate: Bromofluorobenzene	106 %	70-130		03/13/24	03/18/24	
Surrogate: 1,2-Dichloroethane-d4	92.9 %	70-130		03/13/24	03/18/24	
Surrogate: Toluene-d8	108 %	70-130		03/13/24	03/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2411136	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/15/24	03/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/15/24	03/19/24	
Surrogate: n-Nonane	80.5 %	50-200		03/15/24	03/19/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: WF		Batch: 2412020	
Chloride	39.6	20.0	1	03/18/24	03/19/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 509H	Reported: 3/20/2024 2:58:01PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

S3 -4'

E403124-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2411080
Benzene	ND	0.0250	1	03/13/24	03/18/24	
Ethylbenzene	ND	0.0250	1	03/13/24	03/18/24	
Toluene	ND	0.0250	1	03/13/24	03/18/24	
o-Xylene	ND	0.0250	1	03/13/24	03/18/24	
p,m-Xylene	ND	0.0500	1	03/13/24	03/18/24	
Total Xylenes	ND	0.0250	1	03/13/24	03/18/24	
Surrogate: Bromofluorobenzene		108 %	70-130	03/13/24	03/18/24	
Surrogate: 1,2-Dichloroethane-d4		96.0 %	70-130	03/13/24	03/18/24	
Surrogate: Toluene-d8		105 %	70-130	03/13/24	03/18/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2411080
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/13/24	03/18/24	
Surrogate: Bromofluorobenzene		108 %	70-130	03/13/24	03/18/24	
Surrogate: 1,2-Dichloroethane-d4		96.0 %	70-130	03/13/24	03/18/24	
Surrogate: Toluene-d8		105 %	70-130	03/13/24	03/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2411136
Diesel Range Organics (C10-C28)	994	25.0	1	03/15/24	03/19/24	
Oil Range Organics (C28-C36)	696	50.0	1	03/15/24	03/19/24	
Surrogate: n-Nonane		87.7 %	50-200	03/15/24	03/19/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2412020
Chloride	ND	40.0	2	03/18/24	03/19/24	



Sample Data

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

Project Name: Cotton Draw Unit 509H
Project Number: 01058-0007
Project Manager: Gio Gomez

Reported:
3/20/2024 2:58:01PM

S4 -1'

E403124-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2411080
Benzene	ND	0.0250	1	03/13/24	03/18/24	
Ethylbenzene	ND	0.0250	1	03/13/24	03/18/24	
Toluene	ND	0.0250	1	03/13/24	03/18/24	
o-Xylene	ND	0.0250	1	03/13/24	03/18/24	
p,m-Xylene	ND	0.0500	1	03/13/24	03/18/24	
Total Xylenes	ND	0.0250	1	03/13/24	03/18/24	
Surrogate: Bromofluorobenzene		108 %	70-130	03/13/24	03/18/24	
Surrogate: 1,2-Dichloroethane-d4		94.1 %	70-130	03/13/24	03/18/24	
Surrogate: Toluene-d8		110 %	70-130	03/13/24	03/18/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2411080
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/13/24	03/18/24	
Surrogate: Bromofluorobenzene		108 %	70-130	03/13/24	03/18/24	
Surrogate: 1,2-Dichloroethane-d4		94.1 %	70-130	03/13/24	03/18/24	
Surrogate: Toluene-d8		110 %	70-130	03/13/24	03/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2411136
Diesel Range Organics (C10-C28)	ND	25.0	1	03/15/24	03/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/15/24	03/19/24	
Surrogate: n-Nonane		82.8 %	50-200	03/15/24	03/19/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2412020
Chloride	ND	20.0	1	03/18/24	03/19/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 509H	Reported: 3/20/2024 2:58:01PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

S4 -2'

E403124-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2411080
Benzene	ND	0.0250	1	03/13/24	03/18/24	
Ethylbenzene	ND	0.0250	1	03/13/24	03/18/24	
Toluene	ND	0.0250	1	03/13/24	03/18/24	
o-Xylene	ND	0.0250	1	03/13/24	03/18/24	
p,m-Xylene	ND	0.0500	1	03/13/24	03/18/24	
Total Xylenes	ND	0.0250	1	03/13/24	03/18/24	
Surrogate: Bromofluorobenzene		108 %	70-130	03/13/24	03/18/24	
Surrogate: 1,2-Dichloroethane-d4		93.4 %	70-130	03/13/24	03/18/24	
Surrogate: Toluene-d8		108 %	70-130	03/13/24	03/18/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2411080
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/13/24	03/18/24	
Surrogate: Bromofluorobenzene		108 %	70-130	03/13/24	03/18/24	
Surrogate: 1,2-Dichloroethane-d4		93.4 %	70-130	03/13/24	03/18/24	
Surrogate: Toluene-d8		108 %	70-130	03/13/24	03/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2411136
Diesel Range Organics (C10-C28)	ND	25.0	1	03/15/24	03/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/15/24	03/19/24	
Surrogate: n-Nonane		80.0 %	50-200	03/15/24	03/19/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2412020
Chloride	ND	20.0	1	03/18/24	03/19/24	



Sample Data

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

Project Name: Cotton Draw Unit 509H
Project Number: 01058-0007
Project Manager: Gio Gomez

Reported:
3/20/2024 2:58:01PM

S4 -3'

E403124-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2411080
Benzene	ND	0.0250	1	03/13/24	03/18/24	
Ethylbenzene	ND	0.0250	1	03/13/24	03/18/24	
Toluene	ND	0.0250	1	03/13/24	03/18/24	
o-Xylene	ND	0.0250	1	03/13/24	03/18/24	
p,m-Xylene	ND	0.0500	1	03/13/24	03/18/24	
Total Xylenes	ND	0.0250	1	03/13/24	03/18/24	
Surrogate: Bromofluorobenzene		106 %	70-130	03/13/24	03/18/24	
Surrogate: 1,2-Dichloroethane-d4		93.6 %	70-130	03/13/24	03/18/24	
Surrogate: Toluene-d8		108 %	70-130	03/13/24	03/18/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2411080
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/13/24	03/18/24	
Surrogate: Bromofluorobenzene		106 %	70-130	03/13/24	03/18/24	
Surrogate: 1,2-Dichloroethane-d4		93.6 %	70-130	03/13/24	03/18/24	
Surrogate: Toluene-d8		108 %	70-130	03/13/24	03/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2411136
Diesel Range Organics (C10-C28)	ND	25.0	1	03/15/24	03/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/15/24	03/19/24	
Surrogate: n-Nonane		87.8 %	50-200	03/15/24	03/19/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2412020
Chloride	39.1	20.0	1	03/18/24	03/19/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 509H	Reported: 3/20/2024 2:58:01PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

S4 -4'

E403124-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2411080
Benzene	ND	0.0250	1	03/13/24	03/18/24	
Ethylbenzene	ND	0.0250	1	03/13/24	03/18/24	
Toluene	ND	0.0250	1	03/13/24	03/18/24	
o-Xylene	ND	0.0250	1	03/13/24	03/18/24	
p,m-Xylene	ND	0.0500	1	03/13/24	03/18/24	
Total Xylenes	ND	0.0250	1	03/13/24	03/18/24	
Surrogate: Bromofluorobenzene		108 %	70-130	03/13/24	03/18/24	
Surrogate: 1,2-Dichloroethane-d4		93.1 %	70-130	03/13/24	03/18/24	
Surrogate: Toluene-d8		107 %	70-130	03/13/24	03/18/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2411080
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/13/24	03/18/24	
Surrogate: Bromofluorobenzene		108 %	70-130	03/13/24	03/18/24	
Surrogate: 1,2-Dichloroethane-d4		93.1 %	70-130	03/13/24	03/18/24	
Surrogate: Toluene-d8		107 %	70-130	03/13/24	03/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2411136
Diesel Range Organics (C10-C28)	685	25.0	1	03/15/24	03/19/24	
Oil Range Organics (C28-C36)	426	50.0	1	03/15/24	03/19/24	
Surrogate: n-Nonane		86.0 %	50-200	03/15/24	03/19/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2412020
Chloride	ND	20.0	1	03/18/24	03/19/24	



Sample Data

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

Project Name: Cotton Draw Unit 509H
Project Number: 01058-0007
Project Manager: Gio Gomez

Reported:
3/20/2024 2:58:01PM

S5 -1'

E403124-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2411080
Benzene	ND	0.0250	1	03/13/24	03/18/24	
Ethylbenzene	ND	0.0250	1	03/13/24	03/18/24	
Toluene	ND	0.0250	1	03/13/24	03/18/24	
o-Xylene	ND	0.0250	1	03/13/24	03/18/24	
p,m-Xylene	ND	0.0500	1	03/13/24	03/18/24	
Total Xylenes	ND	0.0250	1	03/13/24	03/18/24	
Surrogate: Bromofluorobenzene		108 %	70-130	03/13/24	03/18/24	
Surrogate: 1,2-Dichloroethane-d4		92.2 %	70-130	03/13/24	03/18/24	
Surrogate: Toluene-d8		107 %	70-130	03/13/24	03/18/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2411080
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/13/24	03/18/24	
Surrogate: Bromofluorobenzene		108 %	70-130	03/13/24	03/18/24	
Surrogate: 1,2-Dichloroethane-d4		92.2 %	70-130	03/13/24	03/18/24	
Surrogate: Toluene-d8		107 %	70-130	03/13/24	03/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2411136
Diesel Range Organics (C10-C28)	ND	25.0	1	03/15/24	03/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/15/24	03/19/24	
Surrogate: n-Nonane		82.9 %	50-200	03/15/24	03/19/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2412020
Chloride	ND	20.0	1	03/18/24	03/19/24	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Cotton Draw Unit 509H Project Number: 01058-0007 Project Manager: Gio Gomez	Reported: 3/20/2024 2:58:01PM
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S5 -2'

E403124-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2411080
Benzene	ND	0.0250	1	03/13/24	03/18/24	
Ethylbenzene	ND	0.0250	1	03/13/24	03/18/24	
Toluene	ND	0.0250	1	03/13/24	03/18/24	
o-Xylene	ND	0.0250	1	03/13/24	03/18/24	
p,m-Xylene	ND	0.0500	1	03/13/24	03/18/24	
Total Xylenes	ND	0.0250	1	03/13/24	03/18/24	
Surrogate: Bromofluorobenzene		105 %	70-130	03/13/24	03/18/24	
Surrogate: 1,2-Dichloroethane-d4		91.9 %	70-130	03/13/24	03/18/24	
Surrogate: Toluene-d8		106 %	70-130	03/13/24	03/18/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2411080
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/13/24	03/18/24	
Surrogate: Bromofluorobenzene		105 %	70-130	03/13/24	03/18/24	
Surrogate: 1,2-Dichloroethane-d4		91.9 %	70-130	03/13/24	03/18/24	
Surrogate: Toluene-d8		106 %	70-130	03/13/24	03/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2411136
Diesel Range Organics (C10-C28)	ND	25.0	1	03/15/24	03/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/15/24	03/19/24	
Surrogate: n-Nonane		78.6 %	50-200	03/15/24	03/19/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2412020
Chloride	ND	20.0	1	03/18/24	03/19/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 509H	Reported: 3/20/2024 2:58:01PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

S5 -3'

E403124-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2411080
Benzene	ND	0.0250	1	03/13/24	03/18/24	
Ethylbenzene	ND	0.0250	1	03/13/24	03/18/24	
Toluene	ND	0.0250	1	03/13/24	03/18/24	
o-Xylene	ND	0.0250	1	03/13/24	03/18/24	
p,m-Xylene	ND	0.0500	1	03/13/24	03/18/24	
Total Xylenes	ND	0.0250	1	03/13/24	03/18/24	
Surrogate: Bromofluorobenzene		106 %	70-130	03/13/24	03/18/24	
Surrogate: 1,2-Dichloroethane-d4		93.5 %	70-130	03/13/24	03/18/24	
Surrogate: Toluene-d8		107 %	70-130	03/13/24	03/18/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2411080
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/13/24	03/18/24	
Surrogate: Bromofluorobenzene		106 %	70-130	03/13/24	03/18/24	
Surrogate: 1,2-Dichloroethane-d4		93.5 %	70-130	03/13/24	03/18/24	
Surrogate: Toluene-d8		107 %	70-130	03/13/24	03/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2411136
Diesel Range Organics (C10-C28)	ND	25.0	1	03/15/24	03/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/15/24	03/19/24	
Surrogate: n-Nonane		83.8 %	50-200	03/15/24	03/19/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2412020
Chloride	33.4	20.0	1	03/18/24	03/19/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 509H	Reported: 3/20/2024 2:58:01PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

S5 -4'

E403124-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2411080
Benzene	ND	0.0250	1	03/13/24	03/18/24	
Ethylbenzene	ND	0.0250	1	03/13/24	03/18/24	
Toluene	ND	0.0250	1	03/13/24	03/18/24	
o-Xylene	ND	0.0250	1	03/13/24	03/18/24	
p,m-Xylene	ND	0.0500	1	03/13/24	03/18/24	
Total Xylenes	ND	0.0250	1	03/13/24	03/18/24	
Surrogate: Bromofluorobenzene		109 %	70-130	03/13/24	03/18/24	
Surrogate: 1,2-Dichloroethane-d4		91.3 %	70-130	03/13/24	03/18/24	
Surrogate: Toluene-d8		106 %	70-130	03/13/24	03/18/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2411080
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/13/24	03/18/24	
Surrogate: Bromofluorobenzene		109 %	70-130	03/13/24	03/18/24	
Surrogate: 1,2-Dichloroethane-d4		91.3 %	70-130	03/13/24	03/18/24	
Surrogate: Toluene-d8		106 %	70-130	03/13/24	03/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2411136
Diesel Range Organics (C10-C28)	2930	25.0	1	03/15/24	03/19/24	
Oil Range Organics (C28-C36)	1800	50.0	1	03/15/24	03/19/24	
Surrogate: n-Nonane		89.9 %	50-200	03/15/24	03/19/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2412020
Chloride	ND	20.0	1	03/18/24	03/19/24	



Sample Data

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

Project Name: Cotton Draw Unit 509H
Project Number: 01058-0007
Project Manager: Gio Gomez

Reported:
3/20/2024 2:58:01PM

S6 -1'

E403124-21

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2411081
Benzene	ND	0.0250	1	03/13/24	03/17/24	
Ethylbenzene	ND	0.0250	1	03/13/24	03/17/24	
Toluene	ND	0.0250	1	03/13/24	03/17/24	
o-Xylene	ND	0.0250	1	03/13/24	03/17/24	
p,m-Xylene	ND	0.0500	1	03/13/24	03/17/24	
Total Xylenes	ND	0.0250	1	03/13/24	03/17/24	
Surrogate: Bromofluorobenzene		101 %	70-130	03/13/24	03/17/24	
Surrogate: 1,2-Dichloroethane-d4		99.6 %	70-130	03/13/24	03/17/24	
Surrogate: Toluene-d8		110 %	70-130	03/13/24	03/17/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2411081
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/13/24	03/17/24	
Surrogate: Bromofluorobenzene		101 %	70-130	03/13/24	03/17/24	
Surrogate: 1,2-Dichloroethane-d4		99.6 %	70-130	03/13/24	03/17/24	
Surrogate: Toluene-d8		110 %	70-130	03/13/24	03/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2411137
Diesel Range Organics (C10-C28)	ND	25.0	1	03/15/24	03/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/15/24	03/17/24	
Surrogate: n-Nonane		94.1 %	50-200	03/15/24	03/17/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2412019
Chloride	ND	20.0	1	03/18/24	03/18/24	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Cotton Draw Unit 509H Project Number: 01058-0007 Project Manager: Gio Gomez	Reported: 3/20/2024 2:58:01PM
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S6 -2'

E403124-22

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2411081
Benzene	ND	0.0250	1	03/13/24	03/17/24	
Ethylbenzene	ND	0.0250	1	03/13/24	03/17/24	
Toluene	ND	0.0250	1	03/13/24	03/17/24	
o-Xylene	ND	0.0250	1	03/13/24	03/17/24	
p,m-Xylene	ND	0.0500	1	03/13/24	03/17/24	
Total Xylenes	ND	0.0250	1	03/13/24	03/17/24	
Surrogate: Bromofluorobenzene	97.0 %	70-130		03/13/24	03/17/24	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		03/13/24	03/17/24	
Surrogate: Toluene-d8	101 %	70-130		03/13/24	03/17/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2411081
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/13/24	03/17/24	
Surrogate: Bromofluorobenzene	97.0 %	70-130		03/13/24	03/17/24	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		03/13/24	03/17/24	
Surrogate: Toluene-d8	101 %	70-130		03/13/24	03/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2411137
Diesel Range Organics (C10-C28)	ND	25.0	1	03/15/24	03/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/15/24	03/17/24	
Surrogate: n-Nonane	96.2 %	50-200		03/15/24	03/17/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2412019
Chloride	ND	20.0	1	03/18/24	03/18/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 509H	Reported: 3/20/2024 2:58:01PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

S6 -3'

E403124-23

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2411081
Benzene	ND	0.0250	1	03/13/24	03/17/24	
Ethylbenzene	ND	0.0250	1	03/13/24	03/17/24	
Toluene	ND	0.0250	1	03/13/24	03/17/24	
o-Xylene	ND	0.0250	1	03/13/24	03/17/24	
p,m-Xylene	ND	0.0500	1	03/13/24	03/17/24	
Total Xylenes	ND	0.0250	1	03/13/24	03/17/24	
Surrogate: Bromofluorobenzene	96.2 %	70-130		03/13/24	03/17/24	
Surrogate: 1,2-Dichloroethane-d4	97.6 %	70-130		03/13/24	03/17/24	
Surrogate: Toluene-d8	102 %	70-130		03/13/24	03/17/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2411081
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/13/24	03/17/24	
Surrogate: Bromofluorobenzene	96.2 %	70-130		03/13/24	03/17/24	
Surrogate: 1,2-Dichloroethane-d4	97.6 %	70-130		03/13/24	03/17/24	
Surrogate: Toluene-d8	102 %	70-130		03/13/24	03/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2411137
Diesel Range Organics (C10-C28)	ND	25.0	1	03/15/24	03/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/15/24	03/17/24	
Surrogate: n-Nonane	92.1 %	50-200		03/15/24	03/17/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2412019
Chloride	27.2	20.0	1	03/18/24	03/18/24	



Sample Data

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

Project Name: Cotton Draw Unit 509H
Project Number: 01058-0007
Project Manager: Gio Gomez

Reported:
3/20/2024 2:58:01PM

S6 -4'

E403124-24

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2411081
Benzene	ND	0.0250	1	03/13/24	03/17/24	
Ethylbenzene	ND	0.0250	1	03/13/24	03/17/24	
Toluene	ND	0.0250	1	03/13/24	03/17/24	
o-Xylene	ND	0.0250	1	03/13/24	03/17/24	
p,m-Xylene	ND	0.0500	1	03/13/24	03/17/24	
Total Xylenes	ND	0.0250	1	03/13/24	03/17/24	
Surrogate: Bromofluorobenzene	98.6 %	70-130		03/13/24	03/17/24	
Surrogate: 1,2-Dichloroethane-d4	95.7 %	70-130		03/13/24	03/17/24	
Surrogate: Toluene-d8	103 %	70-130		03/13/24	03/17/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2411081
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/13/24	03/17/24	
Surrogate: Bromofluorobenzene	98.6 %	70-130		03/13/24	03/17/24	
Surrogate: 1,2-Dichloroethane-d4	95.7 %	70-130		03/13/24	03/17/24	
Surrogate: Toluene-d8	103 %	70-130		03/13/24	03/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2411137
Diesel Range Organics (C10-C28)	2300	25.0	1	03/15/24	03/17/24	
Oil Range Organics (C28-C36)	1700	50.0	1	03/15/24	03/17/24	
Surrogate: n-Nonane	99.3 %	50-200		03/15/24	03/17/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2412019
Chloride	ND	20.0	1	03/18/24	03/18/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 509H	Reported: 3/20/2024 2:58:01PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

SW1

E403124-25

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2411081
Benzene	ND	0.0250	1	03/13/24	03/17/24	
Ethylbenzene	ND	0.0250	1	03/13/24	03/17/24	
Toluene	ND	0.0250	1	03/13/24	03/17/24	
o-Xylene	ND	0.0250	1	03/13/24	03/17/24	
p,m-Xylene	ND	0.0500	1	03/13/24	03/17/24	
Total Xylenes	ND	0.0250	1	03/13/24	03/17/24	
Surrogate: Bromofluorobenzene	96.4 %	70-130		03/13/24	03/17/24	
Surrogate: 1,2-Dichloroethane-d4	88.2 %	70-130		03/13/24	03/17/24	
Surrogate: Toluene-d8	104 %	70-130		03/13/24	03/17/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2411081
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/13/24	03/17/24	
Surrogate: Bromofluorobenzene	96.4 %	70-130		03/13/24	03/17/24	
Surrogate: 1,2-Dichloroethane-d4	88.2 %	70-130		03/13/24	03/17/24	
Surrogate: Toluene-d8	104 %	70-130		03/13/24	03/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2411137
Diesel Range Organics (C10-C28)	ND	25.0	1	03/15/24	03/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/15/24	03/17/24	
Surrogate: n-Nonane	102 %	50-200		03/15/24	03/17/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2412019
Chloride	ND	20.0	1	03/18/24	03/18/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 509H	Reported: 3/20/2024 2:58:01PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

SW2

E403124-26

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2411081
Benzene	ND	0.0250	1	03/13/24	03/17/24	
Ethylbenzene	ND	0.0250	1	03/13/24	03/17/24	
Toluene	ND	0.0250	1	03/13/24	03/17/24	
o-Xylene	ND	0.0250	1	03/13/24	03/17/24	
p,m-Xylene	ND	0.0500	1	03/13/24	03/17/24	
Total Xylenes	ND	0.0250	1	03/13/24	03/17/24	
Surrogate: Bromofluorobenzene	99.3 %	70-130		03/13/24	03/17/24	
Surrogate: 1,2-Dichloroethane-d4	97.3 %	70-130		03/13/24	03/17/24	
Surrogate: Toluene-d8	100 %	70-130		03/13/24	03/17/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2411081
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/13/24	03/17/24	
Surrogate: Bromofluorobenzene	99.3 %	70-130		03/13/24	03/17/24	
Surrogate: 1,2-Dichloroethane-d4	97.3 %	70-130		03/13/24	03/17/24	
Surrogate: Toluene-d8	100 %	70-130		03/13/24	03/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2411137
Diesel Range Organics (C10-C28)	ND	25.0	1	03/15/24	03/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/15/24	03/17/24	
Surrogate: n-Nonane	96.0 %	50-200		03/15/24	03/17/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2412019
Chloride	ND	20.0	1	03/18/24	03/18/24	



Sample Data

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

Project Name: Cotton Draw Unit 509H
Project Number: 01058-0007
Project Manager: Gio Gomez

Reported:
3/20/2024 2:58:01PM

SW3

E403124-27

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2411081
Benzene	ND	0.0250	1	03/13/24	03/17/24	
Ethylbenzene	ND	0.0250	1	03/13/24	03/17/24	
Toluene	ND	0.0250	1	03/13/24	03/17/24	
o-Xylene	ND	0.0250	1	03/13/24	03/17/24	
p,m-Xylene	ND	0.0500	1	03/13/24	03/17/24	
Total Xylenes	ND	0.0250	1	03/13/24	03/17/24	
Surrogate: Bromofluorobenzene		101 %	70-130	03/13/24	03/17/24	
Surrogate: 1,2-Dichloroethane-d4		95.6 %	70-130	03/13/24	03/17/24	
Surrogate: Toluene-d8		104 %	70-130	03/13/24	03/17/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2411081
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/13/24	03/17/24	
Surrogate: Bromofluorobenzene		101 %	70-130	03/13/24	03/17/24	
Surrogate: 1,2-Dichloroethane-d4		95.6 %	70-130	03/13/24	03/17/24	
Surrogate: Toluene-d8		104 %	70-130	03/13/24	03/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2411137
Diesel Range Organics (C10-C28)	ND	25.0	1	03/15/24	03/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/15/24	03/17/24	
Surrogate: n-Nonane		99.2 %	50-200	03/15/24	03/17/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2412019
Chloride	ND	20.0	1	03/18/24	03/18/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 509H	Reported: 3/20/2024 2:58:01PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

SW4

E403124-28

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2411081
Benzene	ND	0.0250	1	03/13/24	03/17/24	
Ethylbenzene	ND	0.0250	1	03/13/24	03/17/24	
Toluene	ND	0.0250	1	03/13/24	03/17/24	
o-Xylene	ND	0.0250	1	03/13/24	03/17/24	
p,m-Xylene	ND	0.0500	1	03/13/24	03/17/24	
Total Xylenes	ND	0.0250	1	03/13/24	03/17/24	
Surrogate: Bromofluorobenzene	97.2 %	70-130		03/13/24	03/17/24	
Surrogate: 1,2-Dichloroethane-d4	99.0 %	70-130		03/13/24	03/17/24	
Surrogate: Toluene-d8	102 %	70-130		03/13/24	03/17/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2411081
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/13/24	03/17/24	
Surrogate: Bromofluorobenzene	97.2 %	70-130		03/13/24	03/17/24	
Surrogate: 1,2-Dichloroethane-d4	99.0 %	70-130		03/13/24	03/17/24	
Surrogate: Toluene-d8	102 %	70-130		03/13/24	03/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2411137
Diesel Range Organics (C10-C28)	ND	25.0	1	03/15/24	03/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/15/24	03/17/24	
Surrogate: n-Nonane	99.7 %	50-200		03/15/24	03/17/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2412019
Chloride	ND	20.0	1	03/18/24	03/18/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 509H	Reported: 3/20/2024 2:58:01PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

BG1
E403124-29

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2411081
Benzene	ND	0.0250	1	03/13/24	03/17/24	
Ethylbenzene	ND	0.0250	1	03/13/24	03/17/24	
Toluene	ND	0.0250	1	03/13/24	03/17/24	
o-Xylene	ND	0.0250	1	03/13/24	03/17/24	
p,m-Xylene	ND	0.0500	1	03/13/24	03/17/24	
Total Xylenes	ND	0.0250	1	03/13/24	03/17/24	
Surrogate: Bromofluorobenzene	99.7 %	70-130		03/13/24	03/17/24	
Surrogate: 1,2-Dichloroethane-d4	99.2 %	70-130		03/13/24	03/17/24	
Surrogate: Toluene-d8	100 %	70-130		03/13/24	03/17/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2411081
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/13/24	03/17/24	
Surrogate: Bromofluorobenzene	99.7 %	70-130		03/13/24	03/17/24	
Surrogate: 1,2-Dichloroethane-d4	99.2 %	70-130		03/13/24	03/17/24	
Surrogate: Toluene-d8	100 %	70-130		03/13/24	03/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2411137
Diesel Range Organics (C10-C28)	ND	25.0	1	03/15/24	03/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/15/24	03/17/24	
Surrogate: n-Nonane	101 %	50-200		03/15/24	03/17/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2412019
Chloride	ND	20.0	1	03/18/24	03/18/24	



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 509H	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	3/20/2024 2:58:01PM

Volatile Organic Compounds by EPA 8260B

Analyst: RKS

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

Blank (2411080-BLK1) Prepared: 03/13/24 Analyzed: 03/18/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.558		0.500		112	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.454		0.500		90.8	70-130			
Surrogate: Toluene-d8	0.538		0.500		108	70-130			

LCS (2411080-BS1) Prepared: 03/13/24 Analyzed: 03/18/24

Benzene	2.75	0.0250	2.50		110	70-130			
Ethylbenzene	2.69	0.0250	2.50		108	70-130			
Toluene	2.86	0.0250	2.50		115	70-130			
o-Xylene	2.72	0.0250	2.50		109	70-130			
p,m-Xylene	5.42	0.0500	5.00		108	70-130			
Total Xylenes	8.14	0.0250	7.50		109	70-130			
Surrogate: Bromofluorobenzene	0.533		0.500		107	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.500		0.500		100	70-130			
Surrogate: Toluene-d8	0.536		0.500		107	70-130			

Matrix Spike (2411080-MS1) Source: E403124-04 Prepared: 03/13/24 Analyzed: 03/19/24

Benzene	2.76	0.0250	2.50	ND	111	48-131			
Ethylbenzene	2.66	0.0250	2.50	ND	106	45-135			
Toluene	2.84	0.0250	2.50	ND	114	48-130			
o-Xylene	2.66	0.0250	2.50	ND	106	43-135			
p,m-Xylene	5.26	0.0500	5.00	ND	105	43-135			
Total Xylenes	7.92	0.0250	7.50	ND	106	43-135			
Surrogate: Bromofluorobenzene	0.530		0.500		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.478		0.500		95.6	70-130			
Surrogate: Toluene-d8	0.526		0.500		105	70-130			

Matrix Spike Dup (2411080-MSD1) Source: E403124-04 Prepared: 03/13/24 Analyzed: 03/19/24

Benzene	2.81	0.0250	2.50	ND	113	48-131	1.74	23	
Ethylbenzene	2.75	0.0250	2.50	ND	110	45-135	3.50	27	
Toluene	2.99	0.0250	2.50	ND	119	48-130	4.85	24	
o-Xylene	2.77	0.0250	2.50	ND	111	43-135	4.10	27	
p,m-Xylene	5.51	0.0500	5.00	ND	110	43-135	4.58	27	
Total Xylenes	8.28	0.0250	7.50	ND	110	43-135	4.42	27	
Surrogate: Bromofluorobenzene	0.539		0.500		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.496		0.500		99.2	70-130			
Surrogate: Toluene-d8	0.537		0.500		107	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 509H	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	3/20/2024 2:58:01PM

Volatile Organic Compounds by EPA 8260B

Analyst: RAS

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

Blank (2411081-BLK1) Prepared: 03/13/24 Analyzed: 03/16/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.499		0.500		99.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.489		0.500		97.7	70-130			
Surrogate: Toluene-d8	0.511		0.500		102	70-130			

LCS (2411081-BS1) Prepared: 03/13/24 Analyzed: 03/16/24

Benzene	2.32	0.0250	2.50		92.6	70-130			
Ethylbenzene	2.37	0.0250	2.50		94.9	70-130			
Toluene	2.47	0.0250	2.50		98.6	70-130			
o-Xylene	2.27	0.0250	2.50		91.0	70-130			
p,m-Xylene	4.76	0.0500	5.00		95.2	70-130			
Total Xylenes	7.04	0.0250	7.50		93.8	70-130			
Surrogate: Bromofluorobenzene	0.505		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.502		0.500		100	70-130			
Surrogate: Toluene-d8	0.503		0.500		101	70-130			

Matrix Spike (2411081-MS1) Source: E403124-21 Prepared: 03/13/24 Analyzed: 03/17/24

Benzene	2.40	0.0250	2.50	ND	96.2	48-131			
Ethylbenzene	2.49	0.0250	2.50	ND	99.5	45-135			
Toluene	2.54	0.0250	2.50	ND	102	48-130			
o-Xylene	2.52	0.0250	2.50	ND	101	43-135			
p,m-Xylene	5.08	0.0500	5.00	ND	102	43-135			
Total Xylenes	7.60	0.0250	7.50	ND	101	43-135			
Surrogate: Bromofluorobenzene	0.516		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.494		0.500		98.8	70-130			
Surrogate: Toluene-d8	0.498		0.500		99.6	70-130			

Matrix Spike Dup (2411081-MSD1) Source: E403124-21 Prepared: 03/13/24 Analyzed: 03/17/24

Benzene	2.31	0.0250	2.50	ND	92.3	48-131	4.12	23	
Ethylbenzene	2.45	0.0250	2.50	ND	97.8	45-135	1.70	27	
Toluene	2.54	0.0250	2.50	ND	102	48-130	0.0197	24	
o-Xylene	2.41	0.0250	2.50	ND	96.5	43-135	4.34	27	
p,m-Xylene	5.00	0.0500	5.00	ND	100	43-135	1.57	27	
Total Xylenes	7.41	0.0250	7.50	ND	98.8	43-135	2.48	27	
Surrogate: Bromofluorobenzene	0.467		0.500		93.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.469		0.500		93.7	70-130			
Surrogate: Toluene-d8	0.503		0.500		101	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 509H	Reported: 3/20/2024 2:58:01PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

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 (2411080-BLK1) Prepared: 03/13/24 Analyzed: 03/18/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.558		0.500		112	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.454		0.500		90.8	70-130			
Surrogate: Toluene-d8	0.538		0.500		108	70-130			

LCS (2411080-BS2) Prepared: 03/13/24 Analyzed: 03/19/24

Gasoline Range Organics (C6-C10)	55.2	20.0	50.0		110	70-130			
Surrogate: Bromofluorobenzene	0.549		0.500		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.470		0.500		93.9	70-130			
Surrogate: Toluene-d8	0.535		0.500		107	70-130			

Matrix Spike (2411080-MS2) Source: E403124-04 Prepared: 03/13/24 Analyzed: 03/19/24

Gasoline Range Organics (C6-C10)	63.6	20.0	50.0	ND	127	70-130			
Surrogate: Bromofluorobenzene	0.563		0.500		113	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.461		0.500		92.1	70-130			
Surrogate: Toluene-d8	0.555		0.500		111	70-130			

Matrix Spike Dup (2411080-MSD2) Source: E403124-04 Prepared: 03/13/24 Analyzed: 03/19/24

Gasoline Range Organics (C6-C10)	59.4	20.0	50.0	ND	119	70-130	6.85	20	
Surrogate: Bromofluorobenzene	0.560		0.500		112	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.481		0.500		96.1	70-130			
Surrogate: Toluene-d8	0.544		0.500		109	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 509H	Reported: 3/20/2024 2:58:01PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RAS

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 (2411081-BLK1) Prepared: 03/13/24 Analyzed: 03/16/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.499		0.500		99.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.489		0.500		97.7	70-130			
Surrogate: Toluene-d8	0.511		0.500		102	70-130			

LCS (2411081-BS2) Prepared: 03/13/24 Analyzed: 03/17/24

Gasoline Range Organics (C6-C10)	53.4	20.0	50.0		107	70-130			
Surrogate: Bromofluorobenzene	0.465		0.500		92.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.488		0.500		97.5	70-130			
Surrogate: Toluene-d8	0.524		0.500		105	70-130			

Matrix Spike (2411081-MS2) Source: E403124-21 Prepared: 03/13/24 Analyzed: 03/17/24

Gasoline Range Organics (C6-C10)	51.6	20.0	50.0	ND	103	70-130			
Surrogate: Bromofluorobenzene	0.520		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.486		0.500		97.1	70-130			
Surrogate: Toluene-d8	0.578		0.500		116	70-130			

Matrix Spike Dup (2411081-MSD2) Source: E403124-21 Prepared: 03/13/24 Analyzed: 03/17/24

Gasoline Range Organics (C6-C10)	52.2	20.0	50.0	ND	104	70-130	1.19	20	
Surrogate: Bromofluorobenzene	0.516		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.478		0.500		95.6	70-130			
Surrogate: Toluene-d8	0.509		0.500		102	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 509H	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	3/20/2024 2:58:01PM

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2411136-BLK1) Prepared: 03/15/24 Analyzed: 03/18/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	43.7		50.0		87.5	50-200			

LCS (2411136-BS1) Prepared: 03/15/24 Analyzed: 03/18/24

Diesel Range Organics (C10-C28)	248	25.0	250		99.2	38-132			
Surrogate: n-Nonane	44.9		50.0		89.8	50-200			

Matrix Spike (2411136-MS1) Source: E403124-05 Prepared: 03/15/24 Analyzed: 03/18/24

Diesel Range Organics (C10-C28)	241	25.0	250	ND	96.2	38-132			
Surrogate: n-Nonane	44.3		50.0		88.6	50-200			

Matrix Spike Dup (2411136-MSD1) Source: E403124-05 Prepared: 03/15/24 Analyzed: 03/18/24

Diesel Range Organics (C10-C28)	242	25.0	250	ND	96.7	38-132	0.482	20	
Surrogate: n-Nonane	43.8		50.0		87.6	50-200			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 509H	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	3/20/2024 2:58:01PM

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2411137-BLK1)					Prepared: 03/15/24 Analyzed: 03/17/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	50.7		50.0		101	50-200			

LCS (2411137-BS1)					Prepared: 03/15/24 Analyzed: 03/17/24				
Diesel Range Organics (C10-C28)	264	25.0	250		106	38-132			
Surrogate: n-Nonane	49.5		50.0		98.9	50-200			

Matrix Spike (2411137-MS1)					Source: E403124-24		Prepared: 03/15/24 Analyzed: 03/17/24		
Diesel Range Organics (C10-C28)	1750	25.0	250	2300	NR	38-132			M4
Surrogate: n-Nonane	50.6		50.0		101	50-200			

Matrix Spike Dup (2411137-MSD1)					Source: E403124-24		Prepared: 03/15/24 Analyzed: 03/17/24		
Diesel Range Organics (C10-C28)	1770	25.0	250	2300	NR	38-132	1.31	20	M4
Surrogate: n-Nonane	50.7		50.0		101	50-200			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 509H	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	3/20/2024 2:58:01PM

Anions by EPA 300.0/9056A

Analyst: WF

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

Blank (2412019-BLK1)					Prepared: 03/18/24 Analyzed: 03/18/24				
Chloride	ND	20.0							
LCS (2412019-BS1)					Prepared: 03/18/24 Analyzed: 03/18/24				
Chloride	248	20.0	250		99.3	90-110			
LCS Dup (2412019-BSD1)					Prepared: 03/18/24 Analyzed: 03/18/24				
Chloride	250	20.0	250		100	90-110	0.680	20	



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 509H	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	3/20/2024 2:58:01PM

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 (2412020-BLK1)					Prepared: 03/18/24 Analyzed: 03/19/24				
Chloride	ND	20.0							
LCS (2412020-BS1)					Prepared: 03/18/24 Analyzed: 03/19/24				
Chloride	248	20.0	250		99.1	90-110			
LCS Dup (2412020-BSD1)					Prepared: 03/18/24 Analyzed: 03/19/24				
Chloride	251	20.0	250		100	90-110	1.07	20	

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



Definitions and Notes

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 509H	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Gio Gomez	03/20/24 14:58

- M4 Matrix spike recovery value is suspect since the analyte concentration in the sample is disproportionate to the spike level. The associated LCS spike recovery was acceptable.
- 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

Client: Pima Environmental Services
Project: Cotton Draw Unit 509 #
Project Manager: Gio Gomez
Address: 5614 N. Lovington Hwy.
City, State, Zip Hobbs, NM, 88240
Phone: 806-782-1151
Email: gio@pimaoil.com
Report due by:

Bill To
Attention: Devon
Address:
City, State, Zip
Phone:
Email:
Pima Project # 1-335

Lab Use Only		TAT				EPA Program	
Lab WO#	Job Number	1D	2D	3D	Standard	CWA	SDWA
E 403124	01050-0007				X		
Analysis and Method							
DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX
						X	
State							
NM	CO	UT	AZ	TX			
X							
Remarks							

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number
8:06	3/11	S		S1-1'	1
8:17				S1-2'	2
8:21				S1-3'	3
8:26				S1-4'	4
8:33				S2-1'	5
8:39				S2-2'	6
8:46				S2-3'	7
8:49				S2-4'	8
8:51				S3-1'	9
8:56				S3-2'	10

Additional Instructions: Billing # 21199367

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.				Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.			
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only	
Karime Adame	3/12/24	2:51	Wendy Cuyh	3-12-24	1451	Received on ice: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	T1 T2 T3	
[Signature]			[Signature]	3-12-24	1700		
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	AVG Temp °C	
Andrew Hesse	3-12-24	2300	AR	3/13/24	0700	4	
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.





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Project Information

Chain of Custody

Client: Pima Environmental Services Project: Cotton Draw Unit 509 H Project Manager: Gio Gomez Address: 5614 N. Lovington Hwy. City, State, Zip Hobbs, NM, 88240 Phone: 806-782-1151 Email: gio@pimaoil.com Report due by:						Bill To Attention: Devon Address: City, State, Zip Phone: Email: Pima Project # 1-335						Lab Use Only Lab WO# E 403124 Job Number 01058-0007				TAT 1D 2D 3D Standard X				EPA Program CWA SDWA RCRA	
						Analysis and Method										State					
						DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0			BGDOC NM	BGDOC TX	NM	CO	UT	AZ	TX	
																X					
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number												Remarks				
10:21	3/11	S		S6 - 1'	21									X							
10:29				S6 - 2'	22																
10:36				S6 - 3'	23																
10:41				S6 - 4	24																
10:55				SW1	25																
11:11				SW2	26																
11:22				SW3	27																
11:29				SW4	28																
11:35	I	I		BG1	29																
Additional Instructions:																					
Billing # 21199367																					
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.									
Relinquished by: (Signature) Karine Adams Date 3/12/24 Time 2:51 Received by: (Signature) [Signature] Date 3-12-24 Time 1451												Received on ice: Y N									
Relinquished by: (Signature) Andrew M... Date 3-12-24 Time 2300 Received by: (Signature) [Signature] Date 3-12-24 Time 1700												T1 T2 T3									
Relinquished by: (Signature) [Signature] Date 3-12-24 Time 2300 Received by: (Signature) [Signature] Date 3/13/24 Time 0700												AVG Temp °C 4									
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: 3/13/2024 1:31:54PM

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:	03/13/24 07:00	Work Order ID:	E403124
Phone:	(575) 631-6977	Date Logged In:	03/12/24 17:48	Logged In By:	Alexa Michaels
Email:	gio@pimaoil.com	Due Date:	03/19/24 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 | Carrier: <u>Courier</u> |
| 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.

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 (pca 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 containers 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 Unit 509H

Work Order: E404013

Job Number: 01058-0007

Received: 4/3/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
4/8/24

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: 4/8/24

Gio Gomez
PO Box 247
Plains, TX 79355-0247



Project Name: Cotton Draw Unit 509H
Workorder: E404013
Date Received: 4/3/2024 8:00:00AM

Gio Gomez,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 4/3/2024 8:00:00AM, under the Project Name: Cotton Draw Unit 509H.

The analytical test results summarized in this report with the Project Name: Cotton Draw Unit 509H 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

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Sample Summary

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 509H	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	04/08/24 09:03

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
S1 -5'	E404013-01A	Soil	04/01/24	04/03/24	Glass Jar, 2 oz.
S1 -6'	E404013-02A	Soil	04/01/24	04/03/24	Glass Jar, 2 oz.
S2 -5'	E404013-03A	Soil	04/01/24	04/03/24	Glass Jar, 2 oz.
S2 -6'	E404013-04A	Soil	04/01/24	04/03/24	Glass Jar, 2 oz.
S3 -5'	E404013-05A	Soil	04/01/24	04/03/24	Glass Jar, 2 oz.
S3 -6'	E404013-06A	Soil	04/01/24	04/03/24	Glass Jar, 2 oz.
S4 -5'	E404013-07A	Soil	04/01/24	04/03/24	Glass Jar, 2 oz.
S4 -6'	E404013-08A	Soil	04/01/24	04/03/24	Glass Jar, 2 oz.
S5 -5'	E404013-09A	Soil	04/01/24	04/03/24	Glass Jar, 2 oz.
S5 -6'	E404013-10A	Soil	04/01/24	04/03/24	Glass Jar, 2 oz.
S6 -5'	E404013-11A	Soil	04/01/24	04/03/24	Glass Jar, 2 oz.
S6 -6'	E404013-12A	Soil	04/01/24	04/03/24	Glass Jar, 2 oz.



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Cotton Draw Unit 509H Project Number: 01058-0007 Project Manager: Gio Gomez	Reported: 4/8/2024 9:03:04AM
---	---	---------------------------------

S1 -5'
E404013-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2414041	
Benzene	ND	0.0250	1	04/03/24	04/04/24	
Ethylbenzene	ND	0.0250	1	04/03/24	04/04/24	
Toluene	ND	0.0250	1	04/03/24	04/04/24	
o-Xylene	ND	0.0250	1	04/03/24	04/04/24	
p,m-Xylene	ND	0.0500	1	04/03/24	04/04/24	
Total Xylenes	ND	0.0250	1	04/03/24	04/04/24	
Surrogate: 4-Bromochlorobenzene-PID	93.4 %	70-130		04/03/24	04/04/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2414041	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/03/24	04/04/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	95.7 %	70-130		04/03/24	04/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2414039	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/04/24	04/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/04/24	04/04/24	
Surrogate: n-Nonane	118 %	50-200		04/04/24	04/04/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2414047	
Chloride	ND	20.0	1	04/03/24	04/03/24	



Sample Data

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

Project Name: Cotton Draw Unit 509H
Project Number: 01058-0007
Project Manager: Gio Gomez

Reported:
4/8/2024 9:03:04AM

S1 -6'

E404013-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2414041
Benzene	ND	0.0250	1	04/03/24	04/04/24	
Ethylbenzene	ND	0.0250	1	04/03/24	04/04/24	
Toluene	ND	0.0250	1	04/03/24	04/04/24	
o-Xylene	ND	0.0250	1	04/03/24	04/04/24	
p,m-Xylene	ND	0.0500	1	04/03/24	04/04/24	
Total Xylenes	ND	0.0250	1	04/03/24	04/04/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.0 %	70-130		04/03/24	04/04/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2414041
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/03/24	04/04/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	96.7 %	70-130		04/03/24	04/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2414039
Diesel Range Organics (C10-C28)	ND	25.0	1	04/04/24	04/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/04/24	04/04/24	
<i>Surrogate: n-Nonane</i>						
	128 %	50-200		04/04/24	04/04/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2414047
Chloride	ND	20.0	1	04/03/24	04/03/24	



Sample Data

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

Project Name: Cotton Draw Unit 509H
Project Number: 01058-0007
Project Manager: Gio Gomez

Reported:
4/8/2024 9:03:04AM

S2 -5'

E404013-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2414041
Benzene	ND	0.0250	1	04/03/24	04/04/24	
Ethylbenzene	ND	0.0250	1	04/03/24	04/04/24	
Toluene	ND	0.0250	1	04/03/24	04/04/24	
o-Xylene	ND	0.0250	1	04/03/24	04/04/24	
p,m-Xylene	ND	0.0500	1	04/03/24	04/04/24	
Total Xylenes	ND	0.0250	1	04/03/24	04/04/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.6 %	70-130		04/03/24	04/04/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2414041
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/03/24	04/04/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	96.1 %	70-130		04/03/24	04/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2414039
Diesel Range Organics (C10-C28)	ND	25.0	1	04/04/24	04/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/04/24	04/04/24	
<i>Surrogate: n-Nonane</i>						
	117 %	50-200		04/04/24	04/04/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2414047
Chloride	ND	20.0	1	04/03/24	04/03/24	



Sample Data

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

Project Name: Cotton Draw Unit 509H
Project Number: 01058-0007
Project Manager: Gio Gomez

Reported:
4/8/2024 9:03:04AM

S2 -6'

E404013-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2414041
Benzene	ND	0.0250	1	04/03/24	04/04/24	
Ethylbenzene	ND	0.0250	1	04/03/24	04/04/24	
Toluene	ND	0.0250	1	04/03/24	04/04/24	
o-Xylene	ND	0.0250	1	04/03/24	04/04/24	
p,m-Xylene	ND	0.0500	1	04/03/24	04/04/24	
Total Xylenes	ND	0.0250	1	04/03/24	04/04/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.6 %	70-130		04/03/24	04/04/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2414041
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/03/24	04/04/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.9 %	70-130		04/03/24	04/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2414039
Diesel Range Organics (C10-C28)	ND	25.0	1	04/04/24	04/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/04/24	04/04/24	
<i>Surrogate: n-Nonane</i>						
	117 %	50-200		04/04/24	04/04/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2414047
Chloride	ND	20.0	1	04/03/24	04/03/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 509H	Reported: 4/8/2024 9:03:04AM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

S3 -5'

E404013-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2414041	
Benzene	ND	0.0250	1	04/03/24	04/04/24	
Ethylbenzene	ND	0.0250	1	04/03/24	04/04/24	
Toluene	ND	0.0250	1	04/03/24	04/04/24	
o-Xylene	ND	0.0250	1	04/03/24	04/04/24	
p,m-Xylene	ND	0.0500	1	04/03/24	04/04/24	
Total Xylenes	ND	0.0250	1	04/03/24	04/04/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.8 %	70-130		04/03/24	04/04/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2414041	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/03/24	04/04/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	97.2 %	70-130		04/03/24	04/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2414039	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/04/24	04/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/04/24	04/04/24	
<i>Surrogate: n-Nonane</i>						
	114 %	50-200		04/04/24	04/04/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2414047	
Chloride	ND	20.0	1	04/03/24	04/03/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 509H	Reported: 4/8/2024 9:03:04AM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

S3 -6'

E404013-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2414041	
Benzene	ND	0.0250	1	04/03/24	04/04/24	
Ethylbenzene	ND	0.0250	1	04/03/24	04/04/24	
Toluene	ND	0.0250	1	04/03/24	04/04/24	
o-Xylene	ND	0.0250	1	04/03/24	04/04/24	
p,m-Xylene	ND	0.0500	1	04/03/24	04/04/24	
Total Xylenes	ND	0.0250	1	04/03/24	04/04/24	
Surrogate: 4-Bromochlorobenzene-PID	93.4 %	70-130		04/03/24	04/04/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2414041	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/03/24	04/04/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	97.3 %	70-130		04/03/24	04/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2414039	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/04/24	04/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/04/24	04/04/24	
Surrogate: n-Nonane	115 %	50-200		04/04/24	04/04/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2414047	
Chloride	ND	20.0	1	04/03/24	04/03/24	



Sample Data

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

Project Name: Cotton Draw Unit 509H
Project Number: 01058-0007
Project Manager: Gio Gomez

Reported:
4/8/2024 9:03:04AM

S4 -5'

E404013-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2414041
Benzene	ND	0.0250	1	04/03/24	04/04/24	
Ethylbenzene	ND	0.0250	1	04/03/24	04/04/24	
Toluene	ND	0.0250	1	04/03/24	04/04/24	
o-Xylene	ND	0.0250	1	04/03/24	04/04/24	
p,m-Xylene	ND	0.0500	1	04/03/24	04/04/24	
Total Xylenes	ND	0.0250	1	04/03/24	04/04/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.2 %	70-130		04/03/24	04/04/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2414041
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/03/24	04/04/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.6 %	70-130		04/03/24	04/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2414039
Diesel Range Organics (C10-C28)	ND	25.0	1	04/04/24	04/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/04/24	04/04/24	
<i>Surrogate: n-Nonane</i>						
	119 %	50-200		04/04/24	04/04/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2414047
Chloride	ND	20.0	1	04/03/24	04/03/24	



Sample Data

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

Project Name: Cotton Draw Unit 509H
Project Number: 01058-0007
Project Manager: Gio Gomez

Reported:
4/8/2024 9:03:04AM

S4 -6'

E404013-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2414041
Benzene	ND	0.0250	1	04/03/24	04/04/24	
Ethylbenzene	ND	0.0250	1	04/03/24	04/04/24	
Toluene	ND	0.0250	1	04/03/24	04/04/24	
o-Xylene	ND	0.0250	1	04/03/24	04/04/24	
p,m-Xylene	ND	0.0500	1	04/03/24	04/04/24	
Total Xylenes	ND	0.0250	1	04/03/24	04/04/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.9 %	70-130		04/03/24	04/04/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2414041
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/03/24	04/04/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.8 %	70-130		04/03/24	04/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2414039
Diesel Range Organics (C10-C28)	ND	25.0	1	04/04/24	04/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/04/24	04/04/24	
<i>Surrogate: n-Nonane</i>						
	123 %	50-200		04/04/24	04/04/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2414047
Chloride	ND	20.0	1	04/03/24	04/03/24	



Sample Data

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

Project Name: Cotton Draw Unit 509H
Project Number: 01058-0007
Project Manager: Gio Gomez

Reported:
4/8/2024 9:03:04AM

S5 -5'

E404013-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2414041
Benzene	ND	0.0250	1	04/03/24	04/04/24	
Ethylbenzene	ND	0.0250	1	04/03/24	04/04/24	
Toluene	ND	0.0250	1	04/03/24	04/04/24	
o-Xylene	ND	0.0250	1	04/03/24	04/04/24	
p,m-Xylene	ND	0.0500	1	04/03/24	04/04/24	
Total Xylenes	ND	0.0250	1	04/03/24	04/04/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.4 %	70-130		04/03/24	04/04/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2414041
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/03/24	04/04/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	96.7 %	70-130		04/03/24	04/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2414039
Diesel Range Organics (C10-C28)	ND	25.0	1	04/04/24	04/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/04/24	04/04/24	
<i>Surrogate: n-Nonane</i>						
	119 %	50-200		04/04/24	04/04/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2414047
Chloride	ND	20.0	1	04/03/24	04/03/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 509H	Reported: 4/8/2024 9:03:04AM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

S5 -6'

E404013-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: RKS		Batch: 2414041	
Benzene	ND	0.0250	1	04/03/24	04/04/24	
Ethylbenzene	ND	0.0250	1	04/03/24	04/04/24	
Toluene	ND	0.0250	1	04/03/24	04/04/24	
o-Xylene	ND	0.0250	1	04/03/24	04/04/24	
p,m-Xylene	ND	0.0500	1	04/03/24	04/04/24	
Total Xylenes	ND	0.0250	1	04/03/24	04/04/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.5 %	70-130		04/03/24	04/04/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: RKS		Batch: 2414041	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/03/24	04/04/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.8 %	70-130		04/03/24	04/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2414039	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/04/24	04/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/04/24	04/04/24	
<i>Surrogate: n-Nonane</i>						
	118 %	50-200		04/04/24	04/04/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2414047	
Chloride	ND	20.0	1	04/03/24	04/03/24	



Sample Data

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

Project Name: Cotton Draw Unit 509H
Project Number: 01058-0007
Project Manager: Gio Gomez

Reported:
4/8/2024 9:03:04AM

S6 -5'

E404013-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2414041
Benzene	ND	0.0250	1	04/03/24	04/04/24	
Ethylbenzene	ND	0.0250	1	04/03/24	04/04/24	
Toluene	ND	0.0250	1	04/03/24	04/04/24	
o-Xylene	ND	0.0250	1	04/03/24	04/04/24	
p,m-Xylene	ND	0.0500	1	04/03/24	04/04/24	
Total Xylenes	ND	0.0250	1	04/03/24	04/04/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.0 %	70-130		04/03/24	04/04/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2414041
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/03/24	04/04/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	97.1 %	70-130		04/03/24	04/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2414039
Diesel Range Organics (C10-C28)	ND	25.0	1	04/04/24	04/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/04/24	04/04/24	
<i>Surrogate: n-Nonane</i>						
	114 %	50-200		04/04/24	04/04/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2414047
Chloride	ND	20.0	1	04/03/24	04/03/24	



Sample Data

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

Project Name: Cotton Draw Unit 509H
Project Number: 01058-0007
Project Manager: Gio Gomez

Reported:
4/8/2024 9:03:04AM

S6 -6'

E404013-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2414041
Benzene	ND	0.0250	1	04/03/24	04/04/24	
Ethylbenzene	ND	0.0250	1	04/03/24	04/04/24	
Toluene	ND	0.0250	1	04/03/24	04/04/24	
o-Xylene	ND	0.0250	1	04/03/24	04/04/24	
p,m-Xylene	ND	0.0500	1	04/03/24	04/04/24	
Total Xylenes	ND	0.0250	1	04/03/24	04/04/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.7 %	70-130		04/03/24	04/04/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2414041
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/03/24	04/04/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	96.1 %	70-130		04/03/24	04/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2414039
Diesel Range Organics (C10-C28)	ND	25.0	1	04/04/24	04/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/04/24	04/04/24	
<i>Surrogate: n-Nonane</i>						
	112 %	50-200		04/04/24	04/04/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2414047
Chloride	ND	20.0	1	04/03/24	04/03/24	



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 509H	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	4/8/2024 9:03:04AM

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 (2414041-BLK1) Prepared: 04/03/24 Analyzed: 04/03/24

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	7.58		8.00		94.8	70-130			

LCS (2414041-BS1) Prepared: 04/03/24 Analyzed: 04/04/24

Benzene	5.43	0.0250	5.00		109	70-130			
Ethylbenzene	5.39	0.0250	5.00		108	70-130			
Toluene	5.39	0.0250	5.00		108	70-130			
o-Xylene	5.34	0.0250	5.00		107	70-130			
p,m-Xylene	10.8	0.0500	10.0		108	70-130			
Total Xylenes	16.2	0.0250	15.0		108	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.56		8.00		94.6	70-130			

Matrix Spike (2414041-MS1) Source: E404013-03 Prepared: 04/03/24 Analyzed: 04/04/24

Benzene	5.27	0.0250	5.00	ND	105	54-133			
Ethylbenzene	5.21	0.0250	5.00	ND	104	61-133			
Toluene	5.23	0.0250	5.00	ND	105	61-130			
o-Xylene	5.17	0.0250	5.00	ND	103	63-131			
p,m-Xylene	10.5	0.0500	10.0	ND	105	63-131			
Total Xylenes	15.6	0.0250	15.0	ND	104	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.58		8.00		94.7	70-130			

Matrix Spike Dup (2414041-MSD1) Source: E404013-03 Prepared: 04/03/24 Analyzed: 04/04/24

Benzene	5.09	0.0250	5.00	ND	102	54-133	3.56	20	
Ethylbenzene	5.02	0.0250	5.00	ND	100	61-133	3.54	20	
Toluene	5.04	0.0250	5.00	ND	101	61-130	3.63	20	
o-Xylene	4.97	0.0250	5.00	ND	99.4	63-131	3.91	20	
p,m-Xylene	10.1	0.0500	10.0	ND	101	63-131	3.53	20	
Total Xylenes	15.1	0.0250	15.0	ND	100	63-131	3.66	20	
Surrogate: 4-Bromochlorobenzene-PID	7.51		8.00		93.9	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 509H	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	4/8/2024 9:03:04AM

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 (2414041-BLK1) Prepared: 04/03/24 Analyzed: 04/03/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.77		8.00		97.2	70-130			

LCS (2414041-BS2) Prepared: 04/03/24 Analyzed: 04/04/24

Gasoline Range Organics (C6-C10)	48.8	20.0	50.0		97.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.73		8.00		96.6	70-130			

Matrix Spike (2414041-MS2) Source: E404013-03 Prepared: 04/03/24 Analyzed: 04/04/24

Gasoline Range Organics (C6-C10)	48.7	20.0	50.0	ND	97.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.70		8.00		96.3	70-130			

Matrix Spike Dup (2414041-MSD2) Source: E404013-03 Prepared: 04/03/24 Analyzed: 04/04/24

Gasoline Range Organics (C6-C10)	49.9	20.0	50.0	ND	99.8	70-130	2.48	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.68		8.00		96.0	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 509H	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	4/8/2024 9:03:04AM

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 (2414039-BLK1) Prepared: 04/04/24 Analyzed: 04/04/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	63.1		50.0		126	50-200			

LCS (2414039-BS1) Prepared: 04/04/24 Analyzed: 04/04/24

Diesel Range Organics (C10-C28)	309	25.0	250		124	38-132			
Surrogate: n-Nonane	61.8		50.0		124	50-200			

Matrix Spike (2414039-MS1) Source: E404014-03 Prepared: 04/04/24 Analyzed: 04/04/24

Diesel Range Organics (C10-C28)	322	25.0	250	ND	129	38-132			
Surrogate: n-Nonane	64.3		50.0		129	50-200			

Matrix Spike Dup (2414039-MSD1) Source: E404014-03 Prepared: 04/04/24 Analyzed: 04/04/24

Diesel Range Organics (C10-C28)	323	25.0	250	ND	129	38-132	0.439	20	
Surrogate: n-Nonane	64.1		50.0		128	50-200			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 509H	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	4/8/2024 9:03:04AM

Anions by EPA 300.0/9056A

Analyst: DT

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

Blank (2414047-BLK1)					Prepared: 04/03/24 Analyzed: 04/03/24				
Chloride	ND	20.0							
LCS (2414047-BS1)					Prepared: 04/03/24 Analyzed: 04/03/24				
Chloride	252	20.0	250		101	90-110			
Matrix Spike (2414047-MS1)					Source: E404013-05		Prepared: 04/03/24 Analyzed: 04/03/24		
Chloride	254	20.0	250	ND	102	80-120			
Matrix Spike Dup (2414047-MSD1)					Source: E404013-05		Prepared: 04/03/24 Analyzed: 04/03/24		
Chloride	255	20.0	250	ND	102	80-120	0.203	20	

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



Definitions and Notes

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 509H	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Gio Gomez	04/08/24 09:03

- 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 2

Client: Pima Environmental Services Project: Cotton Draw Unit 509 H Project Manager: Gio Gomez Address: 5614 N. Lovington Hwy. City, State, Zip: Hobbs, NM, 88240 Phone: 806-782-1151 Email: gio@pimaoil.com Report due by:					Bill To Attention: Devon Address: City, State, Zip: Phone: Email: Pima Project # 1-335					Lab Use Only Lab WO# E 404013 Job Number 01058-0007 Analysis and Method DRO/ORO by 8015 GRO/DRO by 8015 BTEX by 8021 VOC by 8260 Metals 6010 Chloride 300.0 NM TX					TAT 1D 2D 3D Standard X				EPA Program CWA SDWA RCRA	
State NM CO UT AZ TX X					Remarks															
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number															
8:30	4/1	S		S1-5'	1															
8:39				S1-6'	2															
8:45				S2-5'	3															
8:56				S2-6'	4															
9:09				S3-5'	5															
9:19				S3-6'	6															
9:26				S4-5'	7															
9:33				S4-6'	8															
9:46				S5-5'	9															
9:59				S5-6'	10															
Additional Instructions: Billing # 21199367																				
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) <u>Karime Adams</u> Date <u>4/2/24</u> Time <u>1:45</u> Received by: (Signature) <u>Michael Cey</u> Date <u>4-2-24</u> Time <u>1345</u> Relinquished by: (Signature) <u>Michael Cey</u> Date <u>4-2-24</u> Time <u>1600</u> Received by: (Signature) <u>Andrew Hobbs</u> Date <u>4-2-24</u> Time <u>1800</u> Relinquished by: (Signature) <u>Andrew Hobbs</u> Date <u>4-2-24</u> Time <u>2400</u> Received by: (Signature) <u>SLR</u> Date <u>4/3/24</u> Time <u>0800</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

Envirotech Analytical Laboratory

Printed: 4/3/2024 9:50:58AM

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:	04/03/24 08:00	Work Order ID:	E404013
Phone:	(575) 631-6977	Date Logged In:	04/02/24 16:50	Logged In By:	Alexa Michaels
Email:	gio@pimaoil.com	Due Date:	04/09/24 17:00 (4 day TAT)		

Chain of Custody (COC)

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

Carrier: Courier

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

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

20. Were field sample labels filled out with the minimum information:
 - Sample ID? Yes
 - Date/Time Collected? Yes
 - Collectors name? 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 containers and Sampled by not documented on COC by client

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

Date



envirotech Inc.



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

June 19, 2024

GIO GOMEZ

PIMA ENVIROMENTAL

1601 N TURNER STE. 500

HOBBS, NM 88240

RE: COTTON DRAW UNIT #509H

Enclosed are the results of analyses for samples received by the laboratory on 06/18/24 16:23.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

PIMA ENVIROMENTAL
GIO GOMEZ
1601 N TURNER STE. 500
HOBBS NM, 88240
Fax To:

Received: 06/18/2024
Reported: 06/19/2024
Project Name: COTTON DRAW UNIT #509H
Project Number: 335
Project Location: DEVON

Sampling Date: 06/17/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: CS 1 (H243563-01)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/18/2024	ND	2.13	106	2.00	1.97	
Toluene*	<0.050	0.050	06/18/2024	ND	2.28	114	2.00	1.43	
Ethylbenzene*	<0.050	0.050	06/18/2024	ND	2.30	115	2.00	1.14	
Total Xylenes*	<0.150	0.150	06/18/2024	ND	7.07	118	6.00	1.02	
Total BTEX	<0.300	0.300	06/18/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	06/19/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/19/2024	ND	176	88.2	200	1.38	
DRO >C10-C28*	<10.0	10.0	06/19/2024	ND	183	91.7	200	3.65	
EXT DRO >C28-C36	<10.0	10.0	06/19/2024	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.3 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

PIMA ENVIROMENTAL
GIO GOMEZ
1601 N TURNER STE. 500
HOBBS NM, 88240
Fax To:

Received: 06/18/2024
Reported: 06/19/2024
Project Name: COTTON DRAW UNIT #509H
Project Number: 335
Project Location: DEVON

Sampling Date: 06/17/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: CS 2 (H243563-02)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/18/2024	ND	2.13	106	2.00	1.97	
Toluene*	<0.050	0.050	06/18/2024	ND	2.28	114	2.00	1.43	
Ethylbenzene*	<0.050	0.050	06/18/2024	ND	2.30	115	2.00	1.14	
Total Xylenes*	<0.150	0.150	06/18/2024	ND	7.07	118	6.00	1.02	
Total BTEX	<0.300	0.300	06/18/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/19/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/19/2024	ND	176	88.2	200	1.38	
DRO >C10-C28*	<10.0	10.0	06/19/2024	ND	183	91.7	200	3.65	
EXT DRO >C28-C36	<10.0	10.0	06/19/2024	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.3 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

PIMA ENVIROMENTAL
GIO GOMEZ
1601 N TURNER STE. 500
HOBBS NM, 88240
Fax To:

Received: 06/18/2024
Reported: 06/19/2024
Project Name: COTTON DRAW UNIT #509H
Project Number: 335
Project Location: DEVON

Sampling Date: 06/17/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: CS 3 (H243563-03)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/18/2024	ND	2.13	106	2.00	1.97	
Toluene*	<0.050	0.050	06/18/2024	ND	2.28	114	2.00	1.43	
Ethylbenzene*	<0.050	0.050	06/18/2024	ND	2.30	115	2.00	1.14	
Total Xylenes*	<0.150	0.150	06/18/2024	ND	7.07	118	6.00	1.02	
Total BTEX	<0.300	0.300	06/18/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/19/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/19/2024	ND	176	88.2	200	1.38	
DRO >C10-C28*	<10.0	10.0	06/19/2024	ND	183	91.7	200	3.65	
EXT DRO >C28-C36	<10.0	10.0	06/19/2024	ND					

Surrogate: 1-Chlorooctane 86.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.2 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

PIMA ENVIROMENTAL
GIO GOMEZ
1601 N TURNER STE. 500
HOBBS NM, 88240
Fax To:

Received: 06/18/2024
Reported: 06/19/2024
Project Name: COTTON DRAW UNIT #509H
Project Number: 335
Project Location: DEVON

Sampling Date: 06/17/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: CSW 1 (H243563-04)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/18/2024	ND	2.13	106	2.00	1.97		
Toluene*	<0.050	0.050	06/18/2024	ND	2.28	114	2.00	1.43		
Ethylbenzene*	<0.050	0.050	06/18/2024	ND	2.30	115	2.00	1.14		
Total Xylenes*	<0.150	0.150	06/18/2024	ND	7.07	118	6.00	1.02		
Total BTEX	<0.300	0.300	06/18/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	06/19/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/19/2024	ND	176	88.2	200	1.38	
DRO >C10-C28*	<10.0	10.0	06/19/2024	ND	183	91.7	200	3.65	
EXT DRO >C28-C36	<10.0	10.0	06/19/2024	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

PIMA ENVIROMENTAL
GIO GOMEZ
1601 N TURNER STE. 500
HOBBS NM, 88240
Fax To:

Received: 06/18/2024
Reported: 06/19/2024
Project Name: COTTON DRAW UNIT #509H
Project Number: 335
Project Location: DEVON

Sampling Date: 06/17/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: CSW 2 (H243563-05)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/18/2024	ND	2.13	106	2.00	1.97	
Toluene*	<0.050	0.050	06/18/2024	ND	2.28	114	2.00	1.43	
Ethylbenzene*	<0.050	0.050	06/18/2024	ND	2.30	115	2.00	1.14	
Total Xylenes*	<0.150	0.150	06/18/2024	ND	7.07	118	6.00	1.02	
Total BTX	<0.300	0.300	06/18/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/19/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/19/2024	ND	176	88.2	200	1.38	
DRO >C10-C28*	<10.0	10.0	06/19/2024	ND	183	91.7	200	3.65	
EXT DRO >C28-C36	<10.0	10.0	06/19/2024	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.7 % 49.1-148

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Analytical Results For:

PIMA ENVIROMENTAL
GIO GOMEZ
1601 N TURNER STE. 500
HOBBS NM, 88240
Fax To:

Received: 06/18/2024
Reported: 06/19/2024
Project Name: COTTON DRAW UNIT #509H
Project Number: 335
Project Location: DEVON

Sampling Date: 06/17/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: CSW 3 (H243563-06)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/18/2024	ND	2.13	106	2.00	1.97	
Toluene*	<0.050	0.050	06/18/2024	ND	2.28	114	2.00	1.43	
Ethylbenzene*	<0.050	0.050	06/18/2024	ND	2.30	115	2.00	1.14	
Total Xylenes*	<0.150	0.150	06/18/2024	ND	7.07	118	6.00	1.02	
Total BTX	<0.300	0.300	06/18/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/19/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/19/2024	ND	176	88.2	200	1.38	
DRO >C10-C28*	<10.0	10.0	06/19/2024	ND	183	91.7	200	3.65	
EXT DRO >C28-C36	<10.0	10.0	06/19/2024	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.5 % 49.1-148

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Analytical Results For:

PIMA ENVIROMENTAL
GIO GOMEZ
1601 N TURNER STE. 500
HOBBS NM, 88240
Fax To:

Received: 06/18/2024
Reported: 06/19/2024
Project Name: COTTON DRAW UNIT #509H
Project Number: 335
Project Location: DEVON

Sampling Date: 06/17/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: CSW 4 (H243563-07)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/18/2024	ND	2.13	106	2.00	1.97	
Toluene*	<0.050	0.050	06/18/2024	ND	2.28	114	2.00	1.43	
Ethylbenzene*	<0.050	0.050	06/18/2024	ND	2.30	115	2.00	1.14	
Total Xylenes*	<0.150	0.150	06/18/2024	ND	7.07	118	6.00	1.02	
Total BTEX	<0.300	0.300	06/18/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	06/19/2024	ND	464	116	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/19/2024	ND	176	88.2	200	1.38	
DRO >C10-C28*	<10.0	10.0	06/19/2024	ND	183	91.7	200	3.65	
EXT DRO >C28-C36	<10.0	10.0	06/19/2024	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

PIMA ENVIROMENTAL
GIO GOMEZ
1601 N TURNER STE. 500
HOBBS NM, 88240
Fax To:

Received: 06/18/2024
Reported: 06/19/2024
Project Name: COTTON DRAW UNIT #509H
Project Number: 335
Project Location: DEVON

Sampling Date: 06/17/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: CSW 5 (H243563-08)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/18/2024	ND	2.13	106	2.00	1.97		
Toluene*	<0.050	0.050	06/18/2024	ND	2.28	114	2.00	1.43		
Ethylbenzene*	<0.050	0.050	06/18/2024	ND	2.30	115	2.00	1.14		
Total Xylenes*	<0.150	0.150	06/18/2024	ND	7.07	118	6.00	1.02		
Total BTEX	<0.300	0.300	06/18/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	06/19/2024	ND	464	116	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/19/2024	ND	176	88.2	200	1.38	
DRO >C10-C28*	<10.0	10.0	06/19/2024	ND	183	91.7	200	3.65	
EXT DRO >C28-C36	<10.0	10.0	06/19/2024	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.3 % 49.1-148

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Analytical Results For:

PIMA ENVIROMENTAL
GIO GOMEZ
1601 N TURNER STE. 500
HOBBS NM, 88240
Fax To:

Received: 06/18/2024
Reported: 06/19/2024
Project Name: COTTON DRAW UNIT #509H
Project Number: 335
Project Location: DEVON

Sampling Date: 06/17/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: CSW 6 (H243563-09)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/18/2024	ND	2.13	106	2.00	1.97	
Toluene*	<0.050	0.050	06/18/2024	ND	2.28	114	2.00	1.43	
Ethylbenzene*	<0.050	0.050	06/18/2024	ND	2.30	115	2.00	1.14	
Total Xylenes*	<0.150	0.150	06/18/2024	ND	7.07	118	6.00	1.02	
Total BTEX	<0.300	0.300	06/18/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/19/2024	ND	464	116	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/19/2024	ND	176	88.2	200	1.38	
DRO >C10-C28*	<10.0	10.0	06/19/2024	ND	183	91.7	200	3.65	
EXT DRO >C28-C36	<10.0	10.0	06/19/2024	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.2 % 49.1-148

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Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Pima Environmental Services				BILL TO				ANALYSIS REQUEST																		
Project Manager: Gio Gomez				P.O. #:				<div style="display: flex; justify-content: space-around; font-size: 2em;"> BTEX TPH Chloride </div>																		
Address: 5614 N. Lovington Hwy				Company: Devon																						
City: Hobbs State: NM Zip: 88240				Attn:																						
Phone #: 575-964-7740 Fax #:				Address:																						
Project #: 335 Project Owner: Devon				City:																						
Project Name: Cotton Draw Unit 509 H				State: Zip:																						
Project Location:				Phone #:																						
Sampler Name:				Fax #:																						
FOR LAB USE ONLY				MATRIX		PRESERV.		SAMPLING																		
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME												
H24 3503													6/17	8:00	X	X	X									
1	CS1													8:11												
2	CS2													8:23												
3	CS3													8:31												
4	CSW1													8:36												
5	CSW2													8:49												
6	CSW3													8:54												
7	CSW4													9:12												
8	CSW5													9:28												
9	CSW6																									

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Relinquished By: <i>Karine Adame</i>	Date: 6/18/24 Time: 10:23	Received By: <i>apenas</i>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By:	Date:	Received By:	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One) Sampler - UPS - Bus - Other: <i>4.7 c</i> <i>140</i>	Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> No	CHECKED BY: (Initials) <i>APD</i>	REMARKS: <i>Billing # 2119367</i> <i>Gio@pimaoil.com</i> <i>Rush 24hrs</i>	

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

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 363552

QUESTIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID:	6137
	Action Number:	363552
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAB1906554479
Incident Name	NAB1906554479 COTTON DRAW UNIT #509H @ 30-025-43916
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received
Incident Well	[30-025-43916] COTTON DRAW UNIT #509H

Location of Release Source	
Please answer all the questions in this group.	
Site Name	COTTON DRAW UNIT #509H
Date Release Discovered	02/12/2019
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 Flow Line - Production Crude Oil Released: 5 BBL Recovered: 2 BBL Lost: 3 BBL.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	Not answered.
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

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District II

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

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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, Page 2

Action 363552

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID:	6137
	Action Number:	363552
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	More info needed to determine if this will be treated as 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	<i>Unavailable.</i>
<i>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.</i>	

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	<i>Not answered.</i>

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
--	--

District I

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Phone:(575) 393-6161 Fax:(575) 393-0720

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Phone:(575) 748-1283 Fax:(575) 748-9720

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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
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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
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QUESTIONS, Page 3

Action 363552

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 363552
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS**Site Characterization**

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

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

Remediation Plan

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

Requesting a remediation plan approval with this submission	Yes
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)	46
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	4730
GRO+DRO (EPA SW-846 Method 8015M)	2930
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	06/13/2024
On what date will (or did) the final sampling or liner inspection occur	06/17/2024
On what date will (or was) the remediation complete(d)	06/19/2024
What is the estimated surface area (in square feet) that will be reclaimed	211
What is the estimated volume (in cubic yards) that will be reclaimed	85
What is the estimated surface area (in square feet) that will be remediated	211
What is the estimated volume (in cubic yards) that will be remediated	85

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 363552

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID:	6137
	Action Number:	363552
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS**Remediation Plan (continued)**

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.

This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:

(Select all answers below that apply.)

(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	R360 ARTESIA LLC LANDFARM [FEEM0112340644]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site 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.

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 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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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 5

Action 363552

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 363552
	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 363552

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 363552
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	353630
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	06/17/2024
What was the (estimated) number of samples that were to be gathered	9
What was the sampling surface area in square feet	578

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	211
What was the total volume (cubic yards) remediated	85
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	211
What was the total volume (in cubic yards) reclaimed	85
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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QUESTIONS, Page 7

Action 363552

QUESTIONS (continued)

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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 363552

CONDITIONS

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CONDITIONS

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