

Incident ID	nAPP2124337960
District RP	
Facility ID	
Application ID	

Closure

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

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

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

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

Printed Name: Dale Woodall Title: Environmental Professional
Signature: Dale Woodall Date: 4/4/2023
email: dale.woodall@dvn.com Telephone: 575-748-1839

OCD Only

Received by: Jocelyn Harimon Date: 04/04/2023

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

Closure Approved by: Robert Hamlet Date: 8/18/2023
Printed Name: Robert Hamlet Title: Environmental Specialist - Advanced

Incident ID	nAPP2124337960
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Site Assessment/Characterization

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

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

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

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

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

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

State of New Mexico
Oil Conservation Division

Page 4

Incident ID	nAPP2124337960
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Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____



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

April 4, 2023

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

Re: Site Assessment, Remediation, and Closure Report
Cotton Draw Unit 167 CTB
API No. N/A
GPS: Latitude 32.167493 Longitude -103.732874
UL -- N, 36, T24S, R31E
Eddy County, NM
NMOCD Ref. No. NAPP2124337960

Pima Environmental Services, LLC. (Pima) has been contracted by Devon Energy Production Company, LP (Devon) to perform a spill assessment, remediation activities, and submit this closure report for a Crude oil and Produced Water release that occurred at the Cotton Draw Unit 167 CTB (Cotton). The initial C-141 was submitted on August 31, 2021 (Appendix C). This incident was assigned Incident ID NAPP2124337960 by the New Mexico Oil Conservation Division (NMOCD).

Site Characterization

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

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

According to the New Mexico Office of the State Engineer, depth to the nearest groundwater in this area is 135 feet below grade surface (BGS). According to the United States Geological Survey (USGS), the nearest groundwater is 406 feet BGS. The closest waterway is the Pecos River located approximately 13.75 miles to the west of this location. See Appendix A for referenced water surveys.

Table 1 NMAC and Closure Criteria 19.15.29

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

Reference Figure 2 for a Topographic Map.

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

Release Information

NAPP2124337960: On August 19, 2021, A flowline developed a leak causing a fluid to be release on the pasture. The released fluids were calculated to be approximately 2 barrels (bbls) of crude oil and 2.1 bbls of produced water. No fluid was able to be recovered.

Remediation Activities, Site Assessment, and Soil Sampling Results

September 19, 2022, Pima mobilized personnel to the site to begin collecting soil samples from spill area. The laboratory results of this sampling event can be found in the following data table. A Site Map can be found in Figure 4.

9/19/22 Soil Sample Results								
NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is <50')								
DEVON ENERGY - COTTON DRAW UNIT 167 BATTERY								
Sample Date: 9/19/22		NM Approved Laboratory Results						
Sample ID	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg
S-1	1'	ND	ND	ND	586	335	921	491
	3'	ND	ND	ND	64.6	ND	64.6	66.9
	4'	ND	ND	ND	33.6	ND	33.6	197
	5'	ND	ND	ND	ND	ND	0	ND
S-2	1'	ND	ND	ND	666	372	1038	509
	3'	ND	ND	ND	129	72.2	201.2	149
	4'	ND	ND	ND	28.6	ND	28.6	190
	5'	ND	ND	ND	ND	ND	0	ND
S-3	1'	ND	ND	ND	426	236	662	275
	3'	ND	ND	ND	112	73.2	185.2	120
	4'	ND	ND	ND	ND	ND	0	84.4
	5'	ND	ND	ND	ND	ND	0	ND
SW 1	1'	ND	ND	ND	ND	ND	0	ND
SW 2	1'	ND	ND	ND	ND	ND	0	ND
SW 3	1'	ND	ND	ND	ND	ND	0	ND
SW 4	1'	ND	ND	ND	ND	ND	0	ND
SW 5	1'	ND	ND	ND	ND	ND	0	ND
SW 6	1'	ND	ND	ND	ND	ND	0	ND
BG 1	1'	ND	ND	ND	ND	ND	0	ND
BG 2	1'	ND	ND	ND	ND	ND	0	ND

ND- Analyte Not Detected

On March 22, 2023, the Devon Construction Department mobilized personnel and equipment to begin remediation activities. They began excavating the area to an average depth of 3' BGS. Approximately 160 cubic yards of contaminated soil was hauled to an approved, lined disposal facility and clean backfill material was brought in.

On March 27, 2023, after sending a 48-hour notification (Appendix C), Pima returned to the site to collect confirmation samples of the excavation. The results of this sampling event can be found in the following table. A Confirmation Sample Map can be found in Figure 5.

3-27-23 Confirmation Sample Results

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is <50')								
DEVON ENERGY - COTTON DRAW UNIT 167 BATTERY								
Sample Date: 3/27/23		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	CI mg/kg
CS 1	3'	ND	ND	ND	ND	ND	0	22.9
CS 2	3'	ND	ND	ND	ND	ND	0	21.8
CS 3	3'	ND	ND	ND	ND	ND	0	ND
CS 4	3'	ND	ND	ND	ND	ND	0	20.1
CS 5	3'	ND	ND	ND	ND	ND	0	24.3
CS 6	3'	ND	ND	ND	ND	ND	0	21.4
CS 7	3'	ND	ND	ND	ND	ND	0	21.6
CS 8	3'	ND	ND	ND	ND	ND	0	21.6
CSW 1	3'	ND	ND	ND	ND	ND	0	22.1
CSW 2	3'	ND	ND	ND	ND	ND	0	23
CSW 3	3'	ND	ND	ND	ND	ND	0	21.1
CSW 4	3'	ND	ND	ND	ND	ND	0	21.5
CSW 5	3'	ND	ND	ND	ND	ND	0	23.1
CSW 6	3'	ND	ND	ND	ND	ND	0	21.3
CSW 7	3'	ND	ND	ND	ND	ND	0	22.2
CSW 8	3'	ND	ND	ND	ND	ND	0	ND
CSW 9	3'	ND	ND	ND	ND	ND	0	23.7
CSW 10	3'	ND	ND	ND	ND	ND	0	24
CSW 11	3'	ND	ND	ND	ND	ND	0	21.8
CSW 12	3'	ND	ND	ND	ND	ND	0	23.9
CSW 13	3'	ND	ND	ND	ND	ND	0	22.4
CSW 14	3'	ND	ND	ND	ND	ND	0	24.3

ND- Analyte Not Detected

Complete laboratory reports can be found in Appendix E.

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

Closure Request

After careful review, Pima requests that this incident, NAPP2124337960 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
- Appendix C – C-141 Form and 48 Hour Notification
- Appendix D – Photographic Documentation
- Appendix E – Laboratory Reports



Pima Environmental Services

Figures:

1-Location Map

2-Topographic Map

3-Karst Map



4-Site Map

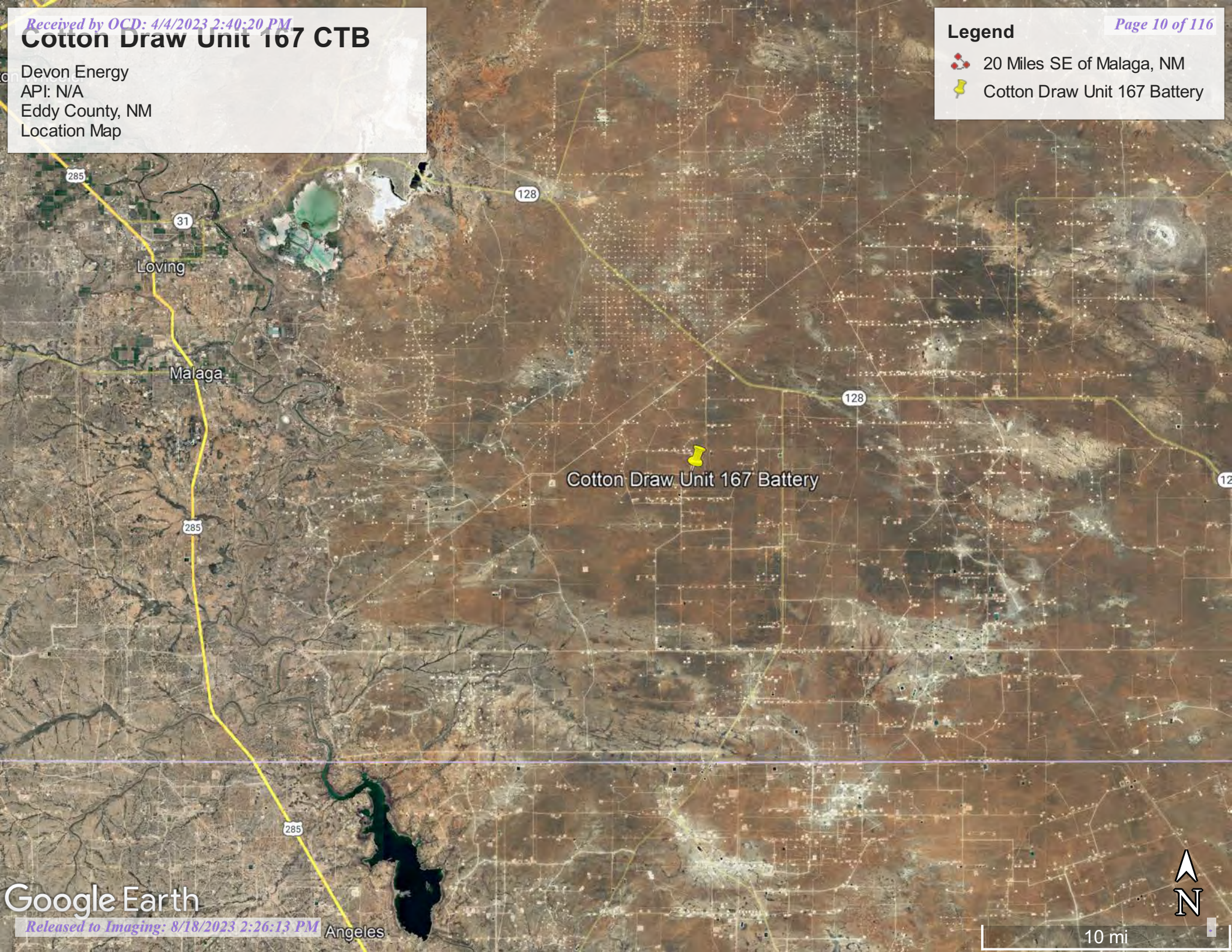
5-Confirmation Sample Map

Cotton Draw Unit 167 CTB

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

Legend


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

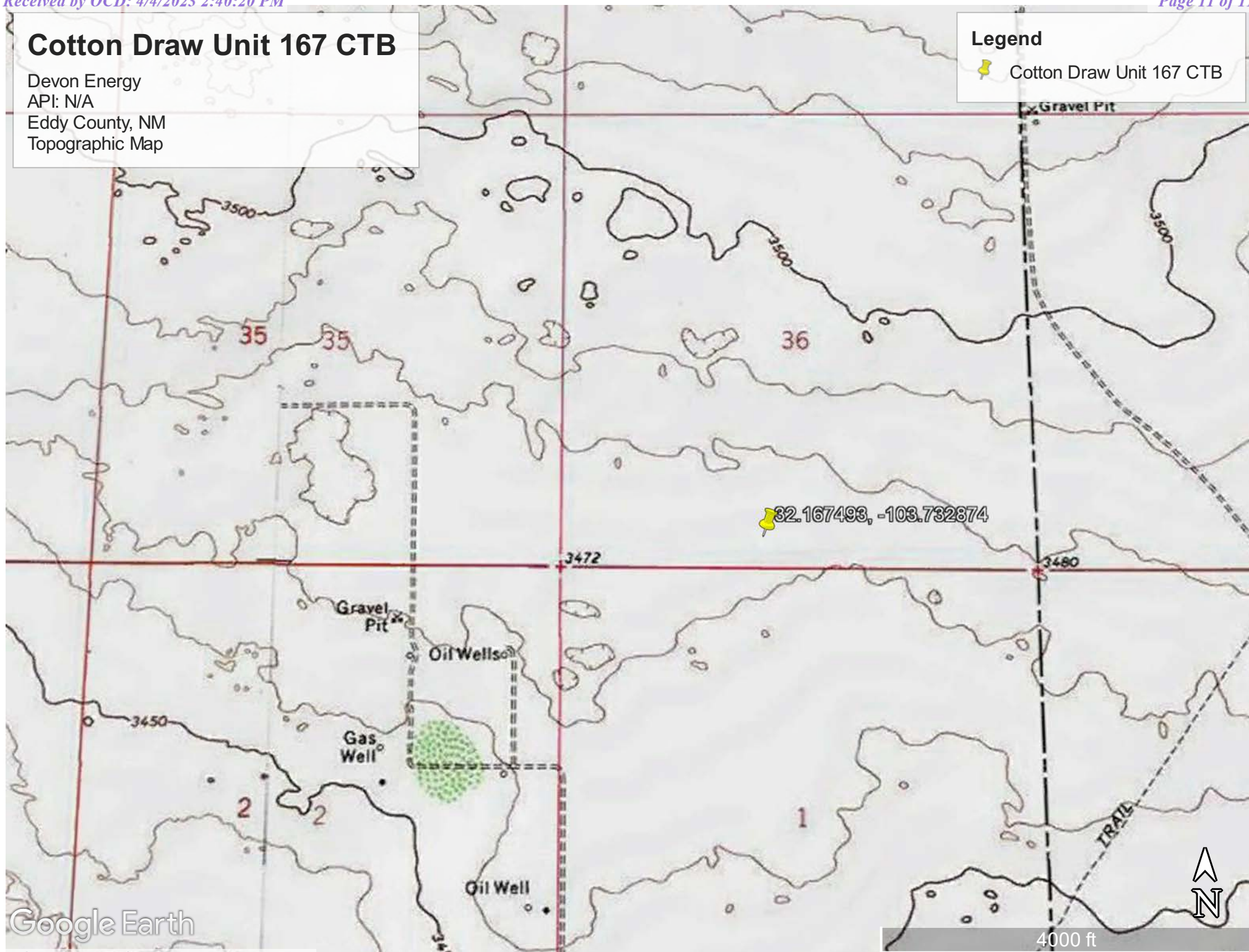


Cotton Draw Unit 167 CTB

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

Legend





 Cotton Draw Unit 167 CTB




Cotton Draw Unit 167 CTB

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

Legend

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

 32.167493, -103.732874

Google Earth



4 mi

Cotton Draw Unit 167 CTB

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

Legend

- Backgrounds/Sidewalls
- Cotton Draw Unit 167 CTB
- Samples

BG1

BG2

SW2

SW3

SW1

S2

S3

SW4

SW6

SW5

S1

Cotton Draw Unit 167 CTB

N

100 ft

Cotton Draw Unit 167 CTB

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

Legend

- Confirmation Samples
- Confirmation Sidewalls

CSW3 CSW4 CSW5 CSW7 CSW8
CSW1 CSW2 CS6 CSW12 CSW11 CSW9
CSW14

Cotton Draw Unit 167 CTB



100 ft



Pima Environmental Services

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	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
C_02572		CUB	ED	4	2	2	02	25S	31E	618695	3559294*	880	852		
C_02568		CUB	ED	4	3	1	01	25S	31E	619103	3558892*	892	1025		
C_02569		CUB	ED	4	4	2	02	25S	31E	618699	3558891*	1123	1016		
C_02573		CUB	ED	1	4	2	02	25S	31E	618499	3559091*	1151			
C_02571		CUB	ED	4	1	2	02	25S	31E	618292	3559294*	1250	860		
C_02574		CUB	ED	1	1	2	02	25S	31E	618092	3559494*	1397			
C_02570		CUB	ED	4	2	4	02	25S	31E	618704	3558489*	1438	895		
C_03830 POD1		CUB	ED	4	2	4	02	25S	31E	618632	3558432	1524	450		
C_04636 POD1		CUB	ED	3	4	3	25	24S	31E	619200	3561279	1598			
C_04643 POD1		C	ED	4	2	2	05	23S	27E	619200	3561279	1598	305	135	170
C_04635 POD1		CUB	ED	4	3	4	01	25S	31E	619958	3558078	1696	55		
C_04633 POD1		CUB	ED	2	1	1	35	24S	31E	617394	3561170	2544			
C_04593 POD1		CUB	ED	3	4	4	34	24S	31E	616903	3559674	2571	55		
C_04620 POD1		CUB	LE	4	3	4	06	25S	32E	621445	3558018	2593	55		
C_04632 POD1		CUB	ED	1	2	2	10	25S	31E	616802	3557964	3188	55		
C_04388 POD1		C	ED	3	2	1	23	24S	31E	617546	3564006	4714	910	868	42
C_04576 POD1		CUB	ED	1	2	1	23	24S	31E	617700	3564324	4949	910	850	60

Average Depth to Water: **617 feet**

Minimum Depth: **135 feet**

Maximum Depth: **868 feet**

Record Count: 17

UTM NAD83 Radius Search (in meters):

Easting (X): 619473.86

Northing (Y): 3559704.11

Radius: 5000

*UTM location was derived from PLSS - see Help

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

9/23/22 1:33 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER



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

National Water Information System: Web Interface

USGS Water Resources

Data Category:

Groundwater



Geographic Area:

United States



GO

Click to hide News Bulletins

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

Groundwater levels for the Nation



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

Search Results -- 1 sites found

site_no list =

- 320952103444401

Minimum number of levels = 1

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

USGS 320952103444401 25S.31E.02.214411

Available data for this site

Groundwater: Field measurements



GO

Eddy County, New Mexico

Hydrologic Unit Code 13070001

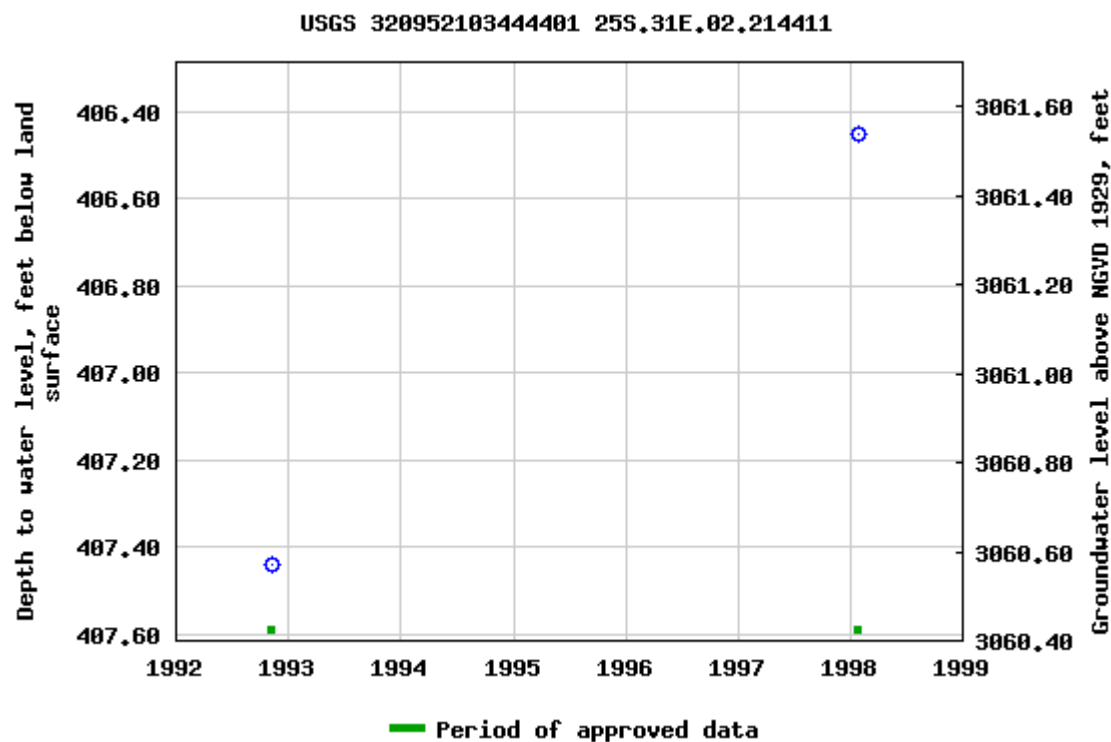
Latitude 32°09'50.0", Longitude 103°44'41.2" NAD83

Land-surface elevation 3,468.0 feet above NGVD29

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

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

Output formats

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

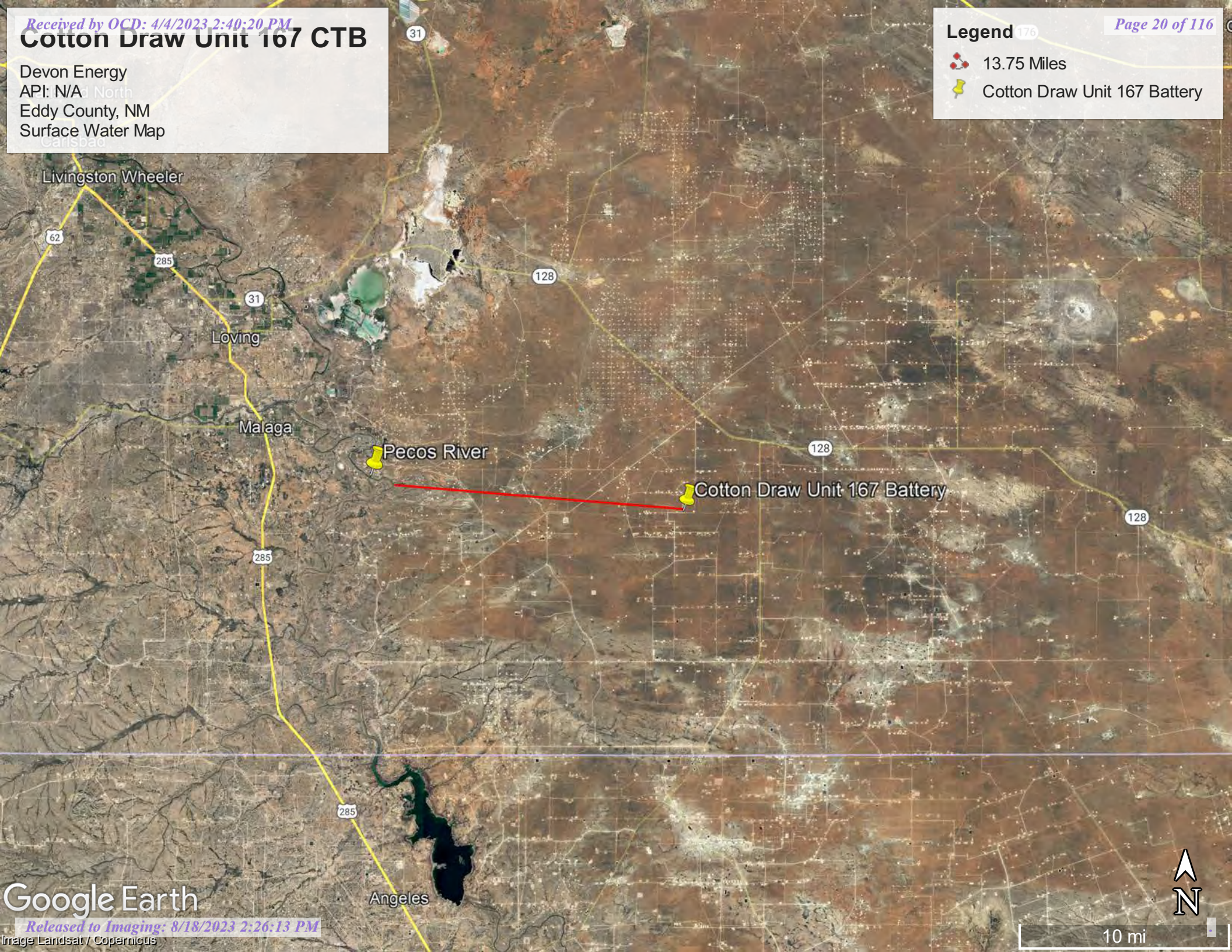
0.55 0.48 nadww01

Cotton Draw Unit 167 CTB

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

Legend

- 13.75 Miles
- Cotton Draw Unit 167 Battery



Google Earth

10 mi



Pima Environmental Services

Appendix B

Soil Survey & Geological Data

FEMA Flood Map

Wetlands Map

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

Eddy Area, New Mexico

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

Map Unit Setting

National map unit symbol: 1w43

Elevation: 2,000 to 5,700 feet

Mean annual precipitation: 5 to 15 inches

Mean annual air temperature: 57 to 70 degrees F

Frost-free period: 180 to 260 days

Farmland classification: Not prime farmland

Map Unit Composition

Berino and similar soils: 60 percent

Pajarito and similar soils: 25 percent

Minor components: 15 percent

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

Description of Berino

Setting

Landform: Plains, fan piedmonts

Landform position (three-dimensional): Riser

Down-slope shape: Convex

Across-slope shape: Linear

Parent material: Mixed alluvium and/or eolian sands

Typical profile

H1 - 0 to 17 inches: fine sand

H2 - 17 to 58 inches: sandy clay loam

H3 - 58 to 60 inches: loamy sand

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained

Runoff class: Low

Capacity of the most limiting layer to transmit water

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

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum content: 40 percent

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

Sodium adsorption ratio, maximum: 1.0

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

Interpretive groups

Land capability classification (irrigated): None specified

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

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

Description of Pajarito

Setting

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

Typical profile

H1 - 0 to 9 inches: loamy fine sand
H2 - 9 to 72 inches: fine sandy loam

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Very low
Capacity of the most limiting layer to transmit water (Ksat): High
(2.00 to 6.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 40 percent
Maximum salinity: Nonsaline (0.0 to 1.0 mmhos/cm)
Sodium adsorption ratio, maximum: 1.0
Available water supply, 0 to 60 inches: Moderate (about 8.0 inches)

Interpretive groups

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

Minor Components

Cacique

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

Wink

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

Pajarito

Percent of map unit: 4 percent

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

Ecological site: R042XC003NM - Loamy Sand

Hydric soil rating: No

Kermit

Percent of map unit: 3 percent

Ecological site: R042XC005NM - Deep Sand

Hydric soil rating: No

Data Source Information

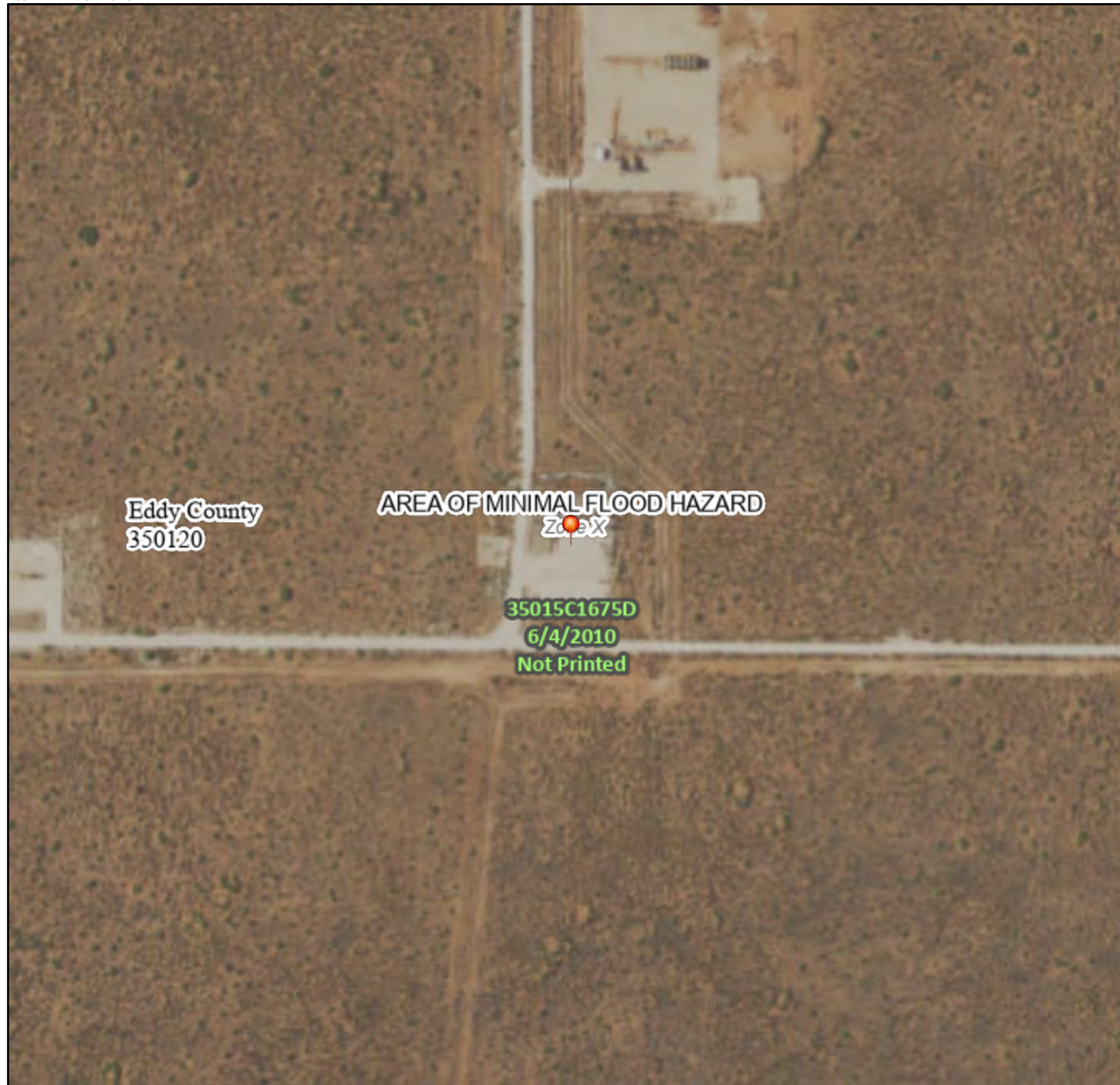
Soil Survey Area: Eddy Area, New Mexico

Survey Area Data: Version 17, Sep 12, 2021

National Flood Hazard Layer FIRMette



103°44'17"W 32°10'18"N



Legend

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

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) 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
		Profile Baseline
MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped
		The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.



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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 9/23/2022 at 3:36 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

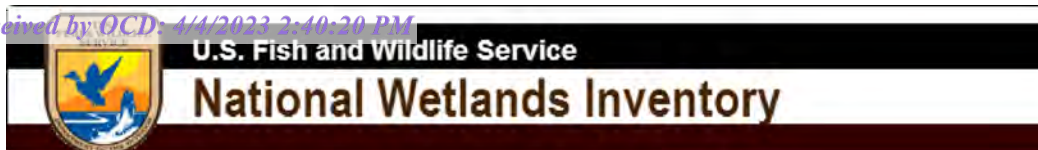
This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory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

0 250 500 1,000 1,500 2,000 Feet 1:6,000

103°43'40"W 32°9'48"N

Released to Imaging: 8/18/2023 2:26:13 PM

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



Wetlands Map



September 23, 2022

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

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

- Lake
- Other
- Riverine

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



Pima Environmental Services

Appendix C

C-141 Form

48-Hour Notification

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

State of New Mexico
Energy Minerals and Natural
Resources Department

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

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

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	OGRID
Contact Name	Contact Telephone
Contact email	Incident # (assigned by OCD)
Contact mailing address	

Location of Release Source

Latitude _____ Longitude _____
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Site Type
Date Release Discovered	API# (if applicable)

Unit Letter	Section	Township	Range	County

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☐ Private (Name: _____)

Nature and Volume of Release

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

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

Cause of Release

Incident ID	
District RP	
Facility ID	
Application ID	

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

Initial Response

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

<input type="checkbox"/> The source of the release has been stopped.	
<input type="checkbox"/> The impacted area has been secured to protect human health and the environment.	
<input type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.	
<input type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: _____	Title: _____
Signature: <u>Kendra DeHoyos</u>	Date: _____
email: _____	Telephone: _____
<u>OCD Only</u>	
Received by: <u>Ramona Marcus</u>	Date: <u>9/1/2021</u>

NAPP2124337960

Spill Volume(Bbls) Calculator	
<i>Inputs in blue, Outputs in red</i>	
Contaminated Soil measurement	
Area (square feet)	Depth(inches)
<u>26293.75</u>	<u>0.021</u>
Cubic Feet of Soil Impacted	<u>46.014</u>
Barrels of Soil Impacted	<u>8.20</u>
Soil Type	Sand
Barrels of Oil Assuming 100% Saturation	<u>1.64</u>
Saturation	Fluid present when squeezed
Estimated Barrels of Oil Released	0.82
Free Standing Fluid Only	
Area (square feet)	Depth(inches)
<u>2007.57</u>	<u>0.083</u>
Standing fluid	<u>2.475</u>
<u>Total fluids spilled</u>	<u>4.116</u>

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

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

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

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

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

CONDITIONS

Action 45886

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 45886
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
marcus	None	9/1/2021

Incident ID	nAPP2124337960
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

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

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

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

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

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

State of New Mexico
Oil Conservation Division

Page 4

Incident ID	nAPP2124337960
District RP	
Facility ID	
Application ID	

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

Printed Name: Dale Woodall Title: Environmental ProfessionalSignature: Dale Woodall Date: 4/4/2023email: dale.woodall@dv.com Telephone: 575-748-1839**OCD Only**

Received by: _____ Date: _____

Incident ID	nAPP2124337960
District RP	
Facility ID	
Application ID	

Closure

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

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

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

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

Printed Name: Dale Woodall Title: Environmental Professional
Signature: Dale Woodall Date: 4/4/2023
email: dale.woodall@dvn.com Telephone: 575-748-1839

OCD Only

Received by: _____ Date: _____

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

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____



Gio PimaOil <gio@pimaoil.com>

Confirmation of Sampling CDU Unit 167 CTB

1 message

Gio PimaOil <gio@pimaoil.com>

Fri, Mar 24, 2023 at 8:19 AM

To: ocdonline@state.nm.us, Tom Pima Oil <tom@pimaoil.com>

Good Morning,

Pima Environmental would like to notify you that we will begin collecting confirmation samples at the Cotton Draw Unit 167 CTB for incident **NAPP2124337960**. Pima personnel are scheduled to be on site for this sampling event at approximately 7:00 a.m. on Monday, March 27, 2023. If you have any questions or concerns, please let me know. Thank you.

--

Gio Gomez

Project Manager

cell-806-782-1151

Office- 575-964-7740

Pima Environmental Services, LLC.



Pima Environmental Services

Appendix D

Photographic Documentation



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

Site Assessment





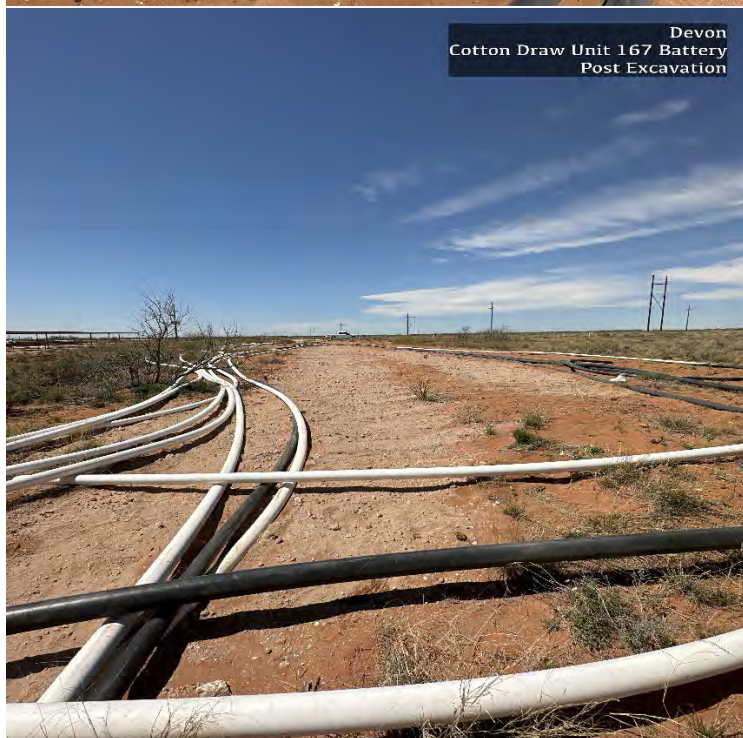
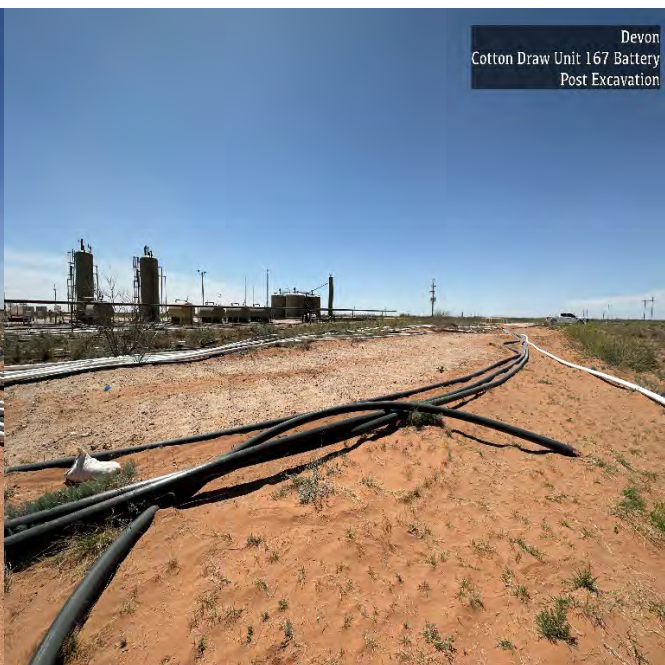
Excavation







Post Excavation







Pima Environmental Services

Appendix E

Laboratory Reports

Report to:
Tom Bynum



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Pima Environmental Services-Carlsbad

Project Name: Cotton Draw Unit 167 Batt

Work Order: E209129

Job Number: 01058-0007

Received: 9/22/2022

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
9/28/22

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.
Envirotech Inc. holds the NM SDWA certification for data reported. (Lab #NM00979)

Date Reported: 9/28/22

Tom Bynum
PO Box 247
Plains, TX 79355-0247



Project Name: Cotton Draw Unit 167 Batt
Workorder: E209129
Date Received: 9/22/2022 10:30:00AM

Tom Bynum,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/22/2022 10:30:00AM, under the Project Name: Cotton Draw Unit 167 Batt.

The analytical test results summarized in this report with the Project Name: Cotton Draw Unit 167 Batt 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
Office: 505-632-1881
labadmin@envirotech-inc.com

Field Offices:

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

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

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 167 Batt	Reported: 09/28/22 16:45
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
S.1 1'	E209129-01A	Soil	09/19/22	09/22/22	Glass Jar, 4 oz.
S.1 3'	E209129-02A	Soil	09/19/22	09/22/22	Glass Jar, 4 oz.
S.1 4'	E209129-03A	Soil	09/19/22	09/22/22	Glass Jar, 4 oz.
S.1 5'	E209129-04A	Soil	09/19/22	09/22/22	Glass Jar, 4 oz.
S.2 1'	E209129-05A	Soil	09/19/22	09/22/22	Glass Jar, 4 oz.
S.2 3'	E209129-06A	Soil	09/19/22	09/22/22	Glass Jar, 4 oz.
S.2 4'	E209129-07A	Soil	09/19/22	09/22/22	Glass Jar, 4 oz.
S.2 5'	E209129-08A	Soil	09/19/22	09/22/22	Glass Jar, 4 oz.
S.3 1'	E209129-09A	Soil	09/19/22	09/22/22	Glass Jar, 4 oz.
S.3 3'	E209129-10A	Soil	09/19/22	09/22/22	Glass Jar, 4 oz.
S.3 4'	E209129-11A	Soil	09/19/22	09/22/22	Glass Jar, 4 oz.
S.3 5'	E209129-12A	Soil	09/19/22	09/22/22	Glass Jar, 4 oz.
SW1	E209129-13A	Soil	09/19/22	09/22/22	Glass Jar, 4 oz.
SW2	E209129-14A	Soil	09/19/22	09/22/22	Glass Jar, 4 oz.
SW3	E209129-15A	Soil	09/19/22	09/22/22	Glass Jar, 4 oz.
SW4	E209129-16A	Soil	09/19/22	09/22/22	Glass Jar, 4 oz.
SW5	E209129-17A	Soil	09/19/22	09/22/22	Glass Jar, 4 oz.
SW6	E209129-18A	Soil	09/19/22	09/22/22	Glass Jar, 4 oz.
BG1	E209129-19A	Soil	09/19/22	09/22/22	Glass Jar, 4 oz.
BG2	E209129-20A	Soil	09/19/22	09/22/22	Glass Jar, 4 oz.



Sample Data

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

Project Name: Cotton Draw Unit 167 Batt
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
9/28/2022 4:45:27PM

S.1 1'

E209129-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: RKS		Batch: 2239090	
Benzene	ND	0.0250	1	09/22/22	09/28/22	
Ethylbenzene	ND	0.0250	1	09/22/22	09/28/22	
Toluene	ND	0.0250	1	09/22/22	09/28/22	
o-Xylene	ND	0.0250	1	09/22/22	09/28/22	
p,m-Xylene	ND	0.0500	1	09/22/22	09/28/22	
Total Xylenes	ND	0.0250	1	09/22/22	09/28/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.0 %	70-130		09/22/22	09/28/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: RKS		Batch: 2239090	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/22/22	09/28/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	87.5 %	70-130		09/22/22	09/28/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2239102	
Diesel Range Organics (C10-C28)	586	25.0	1	09/26/22	09/27/22	
Oil Range Organics (C28-C36)	335	50.0	1	09/26/22	09/27/22	
<i>Surrogate: n-Nonane</i>						
	84.0 %	50-200		09/26/22	09/27/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2239108	
Chloride	491	20.0	1	09/23/22	09/26/22	



Sample Data

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

Project Name: Cotton Draw Unit 167 Batt
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
9/28/2022 4:45:27PM

S.1 3'

E209129-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2239090
Benzene	ND	0.0250	1	09/22/22	09/28/22	
Ethylbenzene	ND	0.0250	1	09/22/22	09/28/22	
Toluene	ND	0.0250	1	09/22/22	09/28/22	
o-Xylene	ND	0.0250	1	09/22/22	09/28/22	
p,m-Xylene	ND	0.0500	1	09/22/22	09/28/22	
Total Xylenes	ND	0.0250	1	09/22/22	09/28/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.5 %	70-130		09/22/22	09/28/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2239090
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/22/22	09/28/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	89.6 %	70-130		09/22/22	09/28/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2239102
Diesel Range Organics (C10-C28)	64.6	25.0	1	09/26/22	09/27/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/26/22	09/27/22	
<i>Surrogate: n-Nonane</i>						
	84.1 %	50-200		09/26/22	09/27/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2239108
Chloride	66.9	20.0	1	09/23/22	09/26/22	



Sample Data

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

Project Name: Cotton Draw Unit 167 Batt
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
9/28/2022 4:45:27PM

S.1 4'

E209129-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2239090
Benzene	ND	0.0250	1	09/22/22	09/28/22	
Ethylbenzene	ND	0.0250	1	09/22/22	09/28/22	
Toluene	ND	0.0250	1	09/22/22	09/28/22	
o-Xylene	ND	0.0250	1	09/22/22	09/28/22	
p,m-Xylene	ND	0.0500	1	09/22/22	09/28/22	
Total Xylenes	ND	0.0250	1	09/22/22	09/28/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.7 %	70-130		09/22/22	09/28/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2239090
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/22/22	09/28/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	89.1 %	70-130		09/22/22	09/28/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2239102
Diesel Range Organics (C10-C28)	33.6	25.0	1	09/26/22	09/27/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/26/22	09/27/22	
<i>Surrogate: n-Nonane</i>						
	84.8 %	50-200		09/26/22	09/27/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2239108
Chloride	197	20.0	1	09/23/22	09/26/22	



Sample Data

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

Project Name: Cotton Draw Unit 167 Batt
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
9/28/2022 4:45:27PM

S.1 5'

E209129-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2239090
Benzene	ND	0.0250	1	09/22/22	09/28/22	
Ethylbenzene	ND	0.0250	1	09/22/22	09/28/22	
Toluene	ND	0.0250	1	09/22/22	09/28/22	
o-Xylene	ND	0.0250	1	09/22/22	09/28/22	
p,m-Xylene	ND	0.0500	1	09/22/22	09/28/22	
Total Xylenes	ND	0.0250	1	09/22/22	09/28/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.9 %	70-130		09/22/22	09/28/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2239090
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/22/22	09/28/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	89.1 %	70-130		09/22/22	09/28/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2239102
Diesel Range Organics (C10-C28)	ND	25.0	1	09/26/22	09/27/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/26/22	09/27/22	
<i>Surrogate: n-Nonane</i>						
	84.6 %	50-200		09/26/22	09/27/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2239108
Chloride	ND	20.0	1	09/23/22	09/26/22	



Sample Data

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

Project Name: Cotton Draw Unit 167 Batt
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
9/28/2022 4:45:27PM

S.2 1'

E209129-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2239090
Benzene	ND	0.0250	1	09/22/22	09/28/22	
Ethylbenzene	ND	0.0250	1	09/22/22	09/28/22	
Toluene	ND	0.0250	1	09/22/22	09/28/22	
o-Xylene	ND	0.0250	1	09/22/22	09/28/22	
p,m-Xylene	ND	0.0500	1	09/22/22	09/28/22	
Total Xylenes	ND	0.0250	1	09/22/22	09/28/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.2 %	70-130		09/22/22	09/28/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2239090
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/22/22	09/28/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	89.1 %	70-130		09/22/22	09/28/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2239102
Diesel Range Organics (C10-C28)	666	25.0	1	09/26/22	09/26/22	
Oil Range Organics (C28-C36)	372	50.0	1	09/26/22	09/26/22	
<i>Surrogate: n-Nonane</i>						
	63.5 %	50-200		09/26/22	09/26/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2239108
Chloride	509	20.0	1	09/23/22	09/26/22	



Sample Data

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

Project Name: Cotton Draw Unit 167 Batt
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
9/28/2022 4:45:27PM

S.2 3'

E209129-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2239090
Benzene	ND	0.0250	1	09/22/22	09/28/22	
Ethylbenzene	ND	0.0250	1	09/22/22	09/28/22	
Toluene	ND	0.0250	1	09/22/22	09/28/22	
o-Xylene	ND	0.0250	1	09/22/22	09/28/22	
p,m-Xylene	ND	0.0500	1	09/22/22	09/28/22	
Total Xylenes	ND	0.0250	1	09/22/22	09/28/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		100 %	70-130	09/22/22	09/28/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2239090
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/22/22	09/28/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		89.0 %	70-130	09/22/22	09/28/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2239102
Diesel Range Organics (C10-C28)	129	25.0	1	09/26/22	09/27/22	
Oil Range Organics (C28-C36)	72.2	50.0	1	09/26/22	09/27/22	
<i>Surrogate: n-Nonane</i>						
		85.0 %	50-200	09/26/22	09/27/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2239108
Chloride	149	20.0	1	09/23/22	09/26/22	



Sample Data

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

Project Name: Cotton Draw Unit 167 Batt
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
9/28/2022 4:45:27PM

S.2 4'

E209129-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2239090
Benzene	ND	0.0250	1	09/22/22	09/28/22	
Ethylbenzene	ND	0.0250	1	09/22/22	09/28/22	
Toluene	ND	0.0250	1	09/22/22	09/28/22	
o-Xylene	ND	0.0250	1	09/22/22	09/28/22	
p,m-Xylene	ND	0.0500	1	09/22/22	09/28/22	
Total Xylenes	ND	0.0250	1	09/22/22	09/28/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		103 %	70-130	09/22/22	09/28/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2239090
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/22/22	09/28/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		87.6 %	70-130	09/22/22	09/28/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2239102
Diesel Range Organics (C10-C28)	28.6	25.0	1	09/26/22	09/27/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/26/22	09/27/22	
<i>Surrogate: n-Nonane</i>						
		81.3 %	50-200	09/26/22	09/27/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2239108
Chloride	190	20.0	1	09/23/22	09/26/22	



Sample Data

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

Project Name: Cotton Draw Unit 167 Batt
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
9/28/2022 4:45:27PM

S.2 5'

E209129-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2239090
Benzene	ND	0.0250	1	09/22/22	09/28/22	
Ethylbenzene	ND	0.0250	1	09/22/22	09/28/22	
Toluene	ND	0.0250	1	09/22/22	09/28/22	
o-Xylene	ND	0.0250	1	09/22/22	09/28/22	
p,m-Xylene	ND	0.0500	1	09/22/22	09/28/22	
Total Xylenes	ND	0.0250	1	09/22/22	09/28/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		100 %	70-130	09/22/22	09/28/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2239090
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/22/22	09/28/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		86.5 %	70-130	09/22/22	09/28/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2239102
Diesel Range Organics (C10-C28)	ND	25.0	1	09/26/22	09/26/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/26/22	09/26/22	
<i>Surrogate: n-Nonane</i>						
		88.7 %	50-200	09/26/22	09/26/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2239108
Chloride	ND	20.0	1	09/23/22	09/26/22	



Sample Data

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

Project Name: Cotton Draw Unit 167 Batt
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
9/28/2022 4:45:27PM

S.3 1'

E209129-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2239090
Benzene	ND	0.0250	1	09/22/22	09/28/22	
Ethylbenzene	ND	0.0250	1	09/22/22	09/28/22	
Toluene	ND	0.0250	1	09/22/22	09/28/22	
o-Xylene	ND	0.0250	1	09/22/22	09/28/22	
p,m-Xylene	ND	0.0500	1	09/22/22	09/28/22	
Total Xylenes	ND	0.0250	1	09/22/22	09/28/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	09/22/22	09/28/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2239090
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/22/22	09/28/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		86.4 %	70-130	09/22/22	09/28/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2239102
Diesel Range Organics (C10-C28)	426	25.0	1	09/26/22	09/27/22	
Oil Range Organics (C28-C36)	236	50.0	1	09/26/22	09/27/22	
<i>Surrogate: n-Nonane</i>						
		85.3 %	50-200	09/26/22	09/27/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2239108
Chloride	275	20.0	1	09/23/22	09/26/22	



Sample Data

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

Project Name: Cotton Draw Unit 167 Batt
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
9/28/2022 4:45:27PM

S.3 3'

E209129-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2239090
Benzene	ND	0.0250	1	09/22/22	09/28/22	
Ethylbenzene	ND	0.0250	1	09/22/22	09/28/22	
Toluene	ND	0.0250	1	09/22/22	09/28/22	
o-Xylene	ND	0.0250	1	09/22/22	09/28/22	
p,m-Xylene	ND	0.0500	1	09/22/22	09/28/22	
Total Xylenes	ND	0.0250	1	09/22/22	09/28/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		103 %	70-130	09/22/22	09/28/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2239090
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/22/22	09/28/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		86.3 %	70-130	09/22/22	09/28/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2239102
Diesel Range Organics (C10-C28)	112	25.0	1	09/26/22	09/27/22	
Oil Range Organics (C28-C36)	73.2	50.0	1	09/26/22	09/27/22	
<i>Surrogate: n-Nonane</i>						
		83.6 %	50-200	09/26/22	09/27/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2239108
Chloride	120	20.0	1	09/23/22	09/26/22	



Sample Data

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

Project Name: Cotton Draw Unit 167 Batt
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
9/28/2022 4:45:27PM

S.3 4'

E209129-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2239090
Benzene	ND	0.0250	1	09/22/22	09/28/22	
Ethylbenzene	ND	0.0250	1	09/22/22	09/28/22	
Toluene	ND	0.0250	1	09/22/22	09/28/22	
o-Xylene	ND	0.0250	1	09/22/22	09/28/22	
p,m-Xylene	ND	0.0500	1	09/22/22	09/28/22	
Total Xylenes	ND	0.0250	1	09/22/22	09/28/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		102 %	70-130	09/22/22	09/28/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2239090
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/22/22	09/28/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		88.9 %	70-130	09/22/22	09/28/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2239102
Diesel Range Organics (C10-C28)	ND	25.0	1	09/26/22	09/26/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/26/22	09/26/22	
<i>Surrogate: n-Nonane</i>						
		67.0 %	50-200	09/26/22	09/26/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2239108
Chloride	84.4	20.0	1	09/23/22	09/26/22	



Sample Data

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

Project Name: Cotton Draw Unit 167 Batt
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
9/28/2022 4:45:27PM

S.3 5'

E209129-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2239090
Benzene	ND	0.0250	1	09/22/22	09/28/22	
Ethylbenzene	ND	0.0250	1	09/22/22	09/28/22	
Toluene	ND	0.0250	1	09/22/22	09/28/22	
o-Xylene	ND	0.0250	1	09/22/22	09/28/22	
p,m-Xylene	ND	0.0500	1	09/22/22	09/28/22	
Total Xylenes	ND	0.0250	1	09/22/22	09/28/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		102 %	70-130	09/22/22	09/28/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2239090
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/22/22	09/28/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		88.7 %	70-130	09/22/22	09/28/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2239102
Diesel Range Organics (C10-C28)	ND	25.0	1	09/26/22	09/26/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/26/22	09/26/22	
<i>Surrogate: n-Nonane</i>						
		87.2 %	50-200	09/26/22	09/26/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2239108
Chloride	ND	20.0	1	09/23/22	09/26/22	



Sample Data

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

Project Name: Cotton Draw Unit 167 Batt
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
9/28/2022 4:45:27PM

SW1

E209129-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2239090
Benzene	ND	0.0250	1	09/22/22	09/28/22	
Ethylbenzene	ND	0.0250	1	09/22/22	09/28/22	
Toluene	ND	0.0250	1	09/22/22	09/28/22	
o-Xylene	ND	0.0250	1	09/22/22	09/28/22	
p,m-Xylene	ND	0.0500	1	09/22/22	09/28/22	
Total Xylenes	ND	0.0250	1	09/22/22	09/28/22	
Surrogate: 4-Bromochlorobenzene-PID		102 %	70-130	09/22/22	09/28/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2239090
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/22/22	09/28/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		88.1 %	70-130	09/22/22	09/28/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2239102
Diesel Range Organics (C10-C28)	ND	25.0	1	09/26/22	09/27/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/26/22	09/27/22	
Surrogate: n-Nonane		82.6 %	50-200	09/26/22	09/27/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2239108
Chloride	ND	20.0	1	09/23/22	09/26/22	



Sample Data

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

Project Name: Cotton Draw Unit 167 Batt
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
9/28/2022 4:45:27PM

SW2

E209129-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2239090
Benzene	ND	0.0250	1	09/22/22	09/28/22	
Ethylbenzene	ND	0.0250	1	09/22/22	09/28/22	
Toluene	ND	0.0250	1	09/22/22	09/28/22	
o-Xylene	ND	0.0250	1	09/22/22	09/28/22	
p,m-Xylene	ND	0.0500	1	09/22/22	09/28/22	
Total Xylenes	ND	0.0250	1	09/22/22	09/28/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		102 %	70-130	09/22/22	09/28/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2239090
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/22/22	09/28/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		85.8 %	70-130	09/22/22	09/28/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2239102
Diesel Range Organics (C10-C28)	ND	25.0	1	09/26/22	09/27/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/26/22	09/27/22	
<i>Surrogate: n-Nonane</i>						
		86.7 %	50-200	09/26/22	09/27/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2239108
Chloride	ND	20.0	1	09/23/22	09/26/22	



Sample Data

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

Project Name: Cotton Draw Unit 167 Batt
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
9/28/2022 4:45:27PM

SW3

E209129-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2239090
Benzene	ND	0.0250	1	09/22/22	09/28/22	
Ethylbenzene	ND	0.0250	1	09/22/22	09/28/22	
Toluene	ND	0.0250	1	09/22/22	09/28/22	
o-Xylene	ND	0.0250	1	09/22/22	09/28/22	
p,m-Xylene	ND	0.0500	1	09/22/22	09/28/22	
Total Xylenes	ND	0.0250	1	09/22/22	09/28/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	09/22/22	09/28/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2239090
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/22/22	09/28/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		86.1 %	70-130	09/22/22	09/28/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2239102
Diesel Range Organics (C10-C28)	ND	25.0	1	09/26/22	09/27/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/26/22	09/27/22	
<i>Surrogate: n-Nonane</i>						
		91.6 %	50-200	09/26/22	09/27/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2239108
Chloride	ND	20.0	1	09/23/22	09/26/22	



Sample Data

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

Project Name: Cotton Draw Unit 167 Batt
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
9/28/2022 4:45:27PM

SW4

E209129-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2239090
Benzene	ND	0.0250	1	09/22/22	09/28/22	
Ethylbenzene	ND	0.0250	1	09/22/22	09/28/22	
Toluene	ND	0.0250	1	09/22/22	09/28/22	
o-Xylene	ND	0.0250	1	09/22/22	09/28/22	
p,m-Xylene	ND	0.0500	1	09/22/22	09/28/22	
Total Xylenes	ND	0.0250	1	09/22/22	09/28/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	09/22/22	09/28/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2239090
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/22/22	09/28/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		87.5 %	70-130	09/22/22	09/28/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2239102
Diesel Range Organics (C10-C28)	ND	25.0	1	09/26/22	09/27/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/26/22	09/27/22	
<i>Surrogate: n-Nonane</i>						
		82.0 %	50-200	09/26/22	09/27/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2239108
Chloride	ND	20.0	1	09/23/22	09/26/22	



Sample Data

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

Project Name: Cotton Draw Unit 167 Batt
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
9/28/2022 4:45:27PM

SW5

E209129-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2239090
Benzene	ND	0.0250	1	09/22/22	09/28/22	
Ethylbenzene	ND	0.0250	1	09/22/22	09/28/22	
Toluene	ND	0.0250	1	09/22/22	09/28/22	
o-Xylene	ND	0.0250	1	09/22/22	09/28/22	
p,m-Xylene	ND	0.0500	1	09/22/22	09/28/22	
Total Xylenes	ND	0.0250	1	09/22/22	09/28/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		100 %	70-130	09/22/22	09/28/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2239090
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/22/22	09/28/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		88.7 %	70-130	09/22/22	09/28/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2239102
Diesel Range Organics (C10-C28)	ND	25.0	1	09/26/22	09/27/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/26/22	09/27/22	
<i>Surrogate: n-Nonane</i>						
		85.6 %	50-200	09/26/22	09/27/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2239108
Chloride	ND	20.0	1	09/23/22	09/26/22	



Sample Data

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

Project Name: Cotton Draw Unit 167 Batt
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
9/28/2022 4:45:27PM

SW6

E209129-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2239090
Benzene	ND	0.0250	1	09/22/22	09/28/22	
Ethylbenzene	ND	0.0250	1	09/22/22	09/28/22	
Toluene	ND	0.0250	1	09/22/22	09/28/22	
o-Xylene	ND	0.0250	1	09/22/22	09/28/22	
p,m-Xylene	ND	0.0500	1	09/22/22	09/28/22	
Total Xylenes	ND	0.0250	1	09/22/22	09/28/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		100 %	70-130	09/22/22	09/28/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2239090
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/22/22	09/28/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		88.5 %	70-130	09/22/22	09/28/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2239102
Diesel Range Organics (C10-C28)	ND	25.0	1	09/26/22	09/27/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/26/22	09/27/22	
<i>Surrogate: n-Nonane</i>						
		87.0 %	50-200	09/26/22	09/27/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2239108
Chloride	ND	20.0	1	09/23/22	09/26/22	



Sample Data

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

Project Name: Cotton Draw Unit 167 Batt
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
9/28/2022 4:45:27PM

BG1

E209129-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2239090
Benzene	ND	0.0250	1	09/22/22	09/28/22	
Ethylbenzene	ND	0.0250	1	09/22/22	09/28/22	
Toluene	ND	0.0250	1	09/22/22	09/28/22	
o-Xylene	ND	0.0250	1	09/22/22	09/28/22	
p,m-Xylene	ND	0.0500	1	09/22/22	09/28/22	
Total Xylenes	ND	0.0250	1	09/22/22	09/28/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	09/22/22	09/28/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2239090
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/22/22	09/28/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		85.7 %	70-130	09/22/22	09/28/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2239102
Diesel Range Organics (C10-C28)	ND	25.0	1	09/26/22	09/27/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/26/22	09/27/22	
<i>Surrogate: n-Nonane</i>						
		86.9 %	50-200	09/26/22	09/27/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2239108
Chloride	ND	20.0	1	09/23/22	09/26/22	



Sample Data

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

Project Name: Cotton Draw Unit 167 Batt
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
9/28/2022 4:45:27PM

BG2

E209129-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2239090
Benzene	ND	0.0250	1	09/22/22	09/28/22	
Ethylbenzene	ND	0.0250	1	09/22/22	09/28/22	
Toluene	ND	0.0250	1	09/22/22	09/28/22	
o-Xylene	ND	0.0250	1	09/22/22	09/28/22	
p,m-Xylene	ND	0.0500	1	09/22/22	09/28/22	
Total Xylenes	ND	0.0250	1	09/22/22	09/28/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		100 %	70-130	09/22/22	09/28/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2239090
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/22/22	09/28/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		87.7 %	70-130	09/22/22	09/28/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2239102
Diesel Range Organics (C10-C28)	ND	25.0	1	09/26/22	09/27/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/26/22	09/27/22	
<i>Surrogate: n-Nonane</i>						
		86.2 %	50-200	09/26/22	09/27/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2239108
Chloride	ND	20.0	1	09/23/22	09/26/22	



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 167 Batt	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	9/28/2022 4:45:27PM

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 (2239090-BLK1)

Prepared: 09/22/22 Analyzed: 09/27/22

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	8.09		8.00		101	70-130			

LCS (2239090-BS1)

Prepared: 09/22/22 Analyzed: 09/27/22

Benzene	5.07	0.0250	5.00		101	70-130			
Ethylbenzene	4.11	0.0250	5.00		82.1	70-130			
Toluene	4.39	0.0250	5.00		87.9	70-130			
o-Xylene	4.19	0.0250	5.00		83.8	70-130			
p,m-Xylene	8.31	0.0500	10.0		83.1	70-130			
Total Xylenes	12.5	0.0250	15.0		83.4	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.03		8.00		100	70-130			

LCS Dup (2239090-BSD1)

Prepared: 09/22/22 Analyzed: 09/27/22

Benzene	4.88	0.0250	5.00		97.6	70-130	3.86	20	
Ethylbenzene	3.99	0.0250	5.00		79.8	70-130	2.90	20	
Toluene	4.23	0.0250	5.00		84.7	70-130	3.75	20	
o-Xylene	4.04	0.0250	5.00		80.7	70-130	3.77	20	
p,m-Xylene	8.10	0.0500	10.0		81.0	70-130	2.57	20	
Total Xylenes	12.1	0.0250	15.0		80.9	70-130	2.97	20	
Surrogate: 4-Bromochlorobenzene-PID	7.99		8.00		99.8	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 167 Batt	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	9/28/2022 4:45:27PM

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 (2239090-BLK1)

Prepared: 09/22/22 Analyzed: 09/27/22

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.00		8.00		87.5	70-130			

LCS (2239090-BS2)

Prepared: 09/22/22 Analyzed: 09/27/22

Gasoline Range Organics (C6-C10)	47.7	20.0	50.0		95.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.13		8.00		89.1	70-130			

LCS Dup (2239090-BSD2)

Prepared: 09/22/22 Analyzed: 09/27/22

Gasoline Range Organics (C6-C10)	51.2	20.0	50.0		102	70-130	7.08	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.91		8.00		86.3	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 167 Batt	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	9/28/2022 4:45:27PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2239102-BLK1)

Prepared: 09/26/22 Analyzed: 09/27/22

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	43.4		50.0		86.7	50-200			

LCS (2239102-BS1)

Prepared: 09/26/22 Analyzed: 09/27/22

Diesel Range Organics (C10-C28)	240	25.0	250		96.0	38-132			
Surrogate: n-Nonane	42.5		50.0		85.0	50-200			

Matrix Spike (2239102-MS1)

Source: E209129-07

Prepared: 09/26/22 Analyzed: 09/27/22

Diesel Range Organics (C10-C28)	283	25.0	250	28.6	102	38-132			
Surrogate: n-Nonane	43.7		50.0		87.4	50-200			

Matrix Spike Dup (2239102-MSD1)

Source: E209129-07

Prepared: 09/26/22 Analyzed: 09/27/22

Diesel Range Organics (C10-C28)	287	25.0	250	28.6	103	38-132	1.21	20	
Surrogate: n-Nonane	41.2		50.0		82.3	50-200			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 167 Batt	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	9/28/2022 4:45:27PM

Anions by EPA 300.0/9056A

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 (2239108-BLK1)					Prepared: 09/23/22 Analyzed: 09/26/22				
Chloride	ND	20.0							
LCS (2239108-BS1)					Prepared: 09/23/22 Analyzed: 09/26/22				
Chloride	253	20.0	250		101	90-110			
Matrix Spike (2239108-MS1)					Source: E209129-01		Prepared: 09/23/22 Analyzed: 09/26/22		
Chloride	731	20.0	250	491	96.3	80-120			
Matrix Spike Dup (2239108-MSD1)					Source: E209129-01		Prepared: 09/23/22 Analyzed: 09/26/22		
Chloride	743	20.0	250	491	101	80-120	1.61	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 167 Batt	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	09/28/22 16:45

- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite

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

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



Project Information

Chain of Custody

Page 1 of 2

Client: Pima Environmental Services Project: Cotton Draw Unit 167 Bkt. Project Manager: Tom Bynum Address: 5614 N. Lovington Hwy. City, State, Zip: Hobbs, NM. 88240 Phone: 580-748-1613 Email: tom@pimaoil.com Report due by:					Bill To Attention: Devon Energy Address: City, State, Zip: Phone: Email: Pima Project # 203					Lab Use Only Lab WO# E209128 Job Number 01058-0007					TAT 1D 2D 3D Standard X				EPA Program CWA SDWA RCRA	
Analysis and Method DRO/ORO by 8015 GRO/DRO by 8015 BTEX by 8021 VOC by 8260 Metals 6010 Chloride 300.0 BGDOC NM BGDOC TX										State NM CO UT AZ TX X				Remarks						
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	Remarks						
9:00	9/19/22	S	1	S.1 1'	1							X								
9:05				S.1 3'	2															
9:10				S.1 4'	3															
9:15				S.1 5'	4															
9:20				S.2 1'	5															
9:25				S.2 3'	6															
9:30				S.2 4'	7															
9:35				S.2 5'	8															
9:40				S.3 1'	9															
9:45				S.3 3'	10															
Additional Instructions: Billing # 20967517																				
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.										Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only Received on ice: (Y) N												
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1 T2 T3 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.																				

Project Information

Chain of Custody

Page 2 of 2

Client: Pima Environmental Services Project: Cotton Draw Unit 1107 Bath Project Manager: Tom Bynum Address: 5614 N. Lovington Hwy. City, State, Zip: Hobbs, NM, 88240 Phone: 580-748-1613 Email: tom@pimaoil.com Report due by:					Bill To Attention: Devon Energy Address: City, State, Zip: Phone: Email: Pima Project # 203					Lab Use Only Lab WO# E2091289 Job Number 01058-0007					TAT 1D 2D 3D Standard X				EPA Program CWA SDWA RCRA	
					Analysis and Method DRO/ORO by 8015 GRO/DRO by 8015 BTEX by 8021 VOC by 8260 Metals 6010 Chloride 300.0 BGDOC NM BGDOC TX					State NM CO UT AZ TX X				Remarks						
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX							
9:50	9/19/22	S	1	S.3 4'	11							X								
9:55				S.3 5'	12															
10:00				SW1	13															
10:05				SW2	14															
10:10				SW3	15															
10:15				SW4	16															
10:20				SW5	17															
10:25				SW6	18															
10:30				BG1	19															
10:35				BG2	20															
Additional Instructions:																				
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																				
Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.																				
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		Lab Use Only Received on ice: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N								
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		T1 T2 T3								
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		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: 9/22/2022 11:20:26AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Pima Environmental Services-Carlsbad	Date Received:	09/22/22 10:30	Work Order ID:	E209129
Phone:	(575) 631-6977	Date Logged In:	09/21/22 16:21	Logged In By:	Caitlin Christian
Email:	tom@pimaoil.com	Due Date:	09/28/22 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: UPSComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

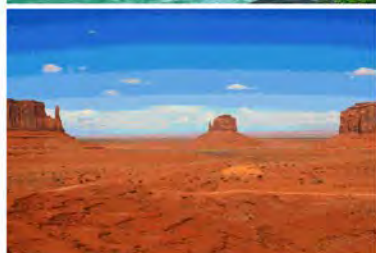
Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

Report to:
Tom Bynum



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Pima Environmental Services-Carlsbad

Project Name: Cotton Draw Unit 167 CTB

Work Order: E303109

Job Number: 01058-0007

Received: 3/29/2023

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
3/30/23

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 3/30/23



Tom Bynum
PO Box 247
Plains, TX 79355-0247

Project Name: Cotton Draw Unit 167 CTB
Workorder: E303109
Date Received: 3/29/2023 6:45:00AM

Tom Bynum,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 3/29/2023 6:45:00AM, under the Project Name: Cotton Draw Unit 167 CTB.

The analytical test results summarized in this report with the Project Name: Cotton Draw Unit 167 CTB 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
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Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 167 CTB	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	03/30/23 15:28

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
CS1	E303109-01A	Soil	03/27/23	03/29/23	Glass Jar, 2 oz.
CS2	E303109-02A	Soil	03/27/23	03/29/23	Glass Jar, 2 oz.
CS3	E303109-03A	Soil	03/27/23	03/29/23	Glass Jar, 2 oz.
CS4	E303109-04A	Soil	03/27/23	03/29/23	Glass Jar, 2 oz.
CS5	E303109-05A	Soil	03/27/23	03/29/23	Glass Jar, 2 oz.
CS6	E303109-06A	Soil	03/27/23	03/29/23	Glass Jar, 2 oz.
CS7	E303109-07A	Soil	03/27/23	03/29/23	Glass Jar, 2 oz.
CS8	E303109-08A	Soil	03/27/23	03/29/23	Glass Jar, 2 oz.
CSW1	E303109-09A	Soil	03/27/23	03/29/23	Glass Jar, 2 oz.
CSW2	E303109-10A	Soil	03/27/23	03/29/23	Glass Jar, 2 oz.
CSW3	E303109-11A	Soil	03/27/23	03/29/23	Glass Jar, 2 oz.
CSW4	E303109-12A	Soil	03/27/23	03/29/23	Glass Jar, 2 oz.
CSW5	E303109-13A	Soil	03/27/23	03/29/23	Glass Jar, 2 oz.
CSW6	E303109-14A	Soil	03/27/23	03/29/23	Glass Jar, 2 oz.
CSW7	E303109-15A	Soil	03/27/23	03/29/23	Glass Jar, 2 oz.
CSW8	E303109-16A	Soil	03/27/23	03/29/23	Glass Jar, 2 oz.
CSW9	E303109-17A	Soil	03/27/23	03/29/23	Glass Jar, 2 oz.
CSW10	E303109-18A	Soil	03/27/23	03/29/23	Glass Jar, 32 oz.
CSW11	E303109-19A	Soil	03/27/23	03/29/23	Glass Jar, 2 oz.
CSW12	E303109-20A	Soil	03/27/23	03/29/23	Glass Jar, 2 oz.
CSW13	E303109-21A	Soil	03/27/23	03/29/23	Glass Jar, 2 oz.
CSW14	E303109-22A	Soil	03/27/23	03/29/23	Glass Jar, 2 oz.



Sample Data

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

Project Name: Cotton Draw Unit 167 CTB
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
3/30/2023 3:28:58PM

CS1

E303109-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2313029
Benzene	ND	0.0250	1	03/29/23	03/29/23	
Ethylbenzene	ND	0.0250	1	03/29/23	03/29/23	
Toluene	ND	0.0250	1	03/29/23	03/29/23	
o-Xylene	ND	0.0250	1	03/29/23	03/29/23	
p,m-Xylene	ND	0.0500	1	03/29/23	03/29/23	
Total Xylenes	ND	0.0250	1	03/29/23	03/29/23	
<i>Surrogate: Bromofluorobenzene</i>	92.5 %	70-130		03/29/23	03/29/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	100 %	70-130		03/29/23	03/29/23	
<i>Surrogate: Toluene-d8</i>	99.1 %	70-130		03/29/23	03/29/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2313029
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/29/23	03/29/23	
<i>Surrogate: Bromofluorobenzene</i>	92.5 %	70-130		03/29/23	03/29/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	100 %	70-130		03/29/23	03/29/23	
<i>Surrogate: Toluene-d8</i>	99.1 %	70-130		03/29/23	03/29/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2313035
Diesel Range Organics (C10-C28)	ND	25.0	1	03/29/23	03/29/23	
Oil Range Organics (C28-C36)	ND	50.0	1	03/29/23	03/29/23	
<i>Surrogate: n-Nonane</i>	108 %	50-200		03/29/23	03/29/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2313039
Chloride	22.9	20.0	1	03/29/23	03/29/23	



Sample Data

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

Project Name: Cotton Draw Unit 167 CTB
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
3/30/2023 3:28:58PM

CS2

E303109-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2313029
Benzene	ND	0.0250	1	03/29/23	03/29/23	
Ethylbenzene	ND	0.0250	1	03/29/23	03/29/23	
Toluene	ND	0.0250	1	03/29/23	03/29/23	
o-Xylene	ND	0.0250	1	03/29/23	03/29/23	
p,m-Xylene	ND	0.0500	1	03/29/23	03/29/23	
Total Xylenes	ND	0.0250	1	03/29/23	03/29/23	
Surrogate: Bromofluorobenzene	89.8 %	70-130		03/29/23	03/29/23	
Surrogate: 1,2-Dichloroethane-d4	96.1 %	70-130		03/29/23	03/29/23	
Surrogate: Toluene-d8	99.5 %	70-130		03/29/23	03/29/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2313029
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/29/23	03/29/23	
Surrogate: Bromofluorobenzene	89.8 %	70-130		03/29/23	03/29/23	
Surrogate: 1,2-Dichloroethane-d4	96.1 %	70-130		03/29/23	03/29/23	
Surrogate: Toluene-d8	99.5 %	70-130		03/29/23	03/29/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2313035
Diesel Range Organics (C10-C28)	ND	25.0	1	03/29/23	03/29/23	
Oil Range Organics (C28-C36)	ND	50.0	1	03/29/23	03/29/23	
Surrogate: n-Nonane	110 %	50-200		03/29/23	03/29/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2313039
Chloride	21.8	20.0	1	03/29/23	03/29/23	



Sample Data

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

Project Name: Cotton Draw Unit 167 CTB
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
3/30/2023 3:28:58PM

CS3

E303109-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2313029
Benzene	ND	0.0250	1	03/29/23	03/29/23	
Ethylbenzene	ND	0.0250	1	03/29/23	03/29/23	
Toluene	ND	0.0250	1	03/29/23	03/29/23	
o-Xylene	ND	0.0250	1	03/29/23	03/29/23	
p,m-Xylene	ND	0.0500	1	03/29/23	03/29/23	
Total Xylenes	ND	0.0250	1	03/29/23	03/29/23	
Surrogate: Bromofluorobenzene	93.2 %	70-130		03/29/23	03/29/23	
Surrogate: 1,2-Dichloroethane-d4	97.9 %	70-130		03/29/23	03/29/23	
Surrogate: Toluene-d8	102 %	70-130		03/29/23	03/29/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2313029
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/29/23	03/29/23	
Surrogate: Bromofluorobenzene	93.2 %	70-130		03/29/23	03/29/23	
Surrogate: 1,2-Dichloroethane-d4	97.9 %	70-130		03/29/23	03/29/23	
Surrogate: Toluene-d8	102 %	70-130		03/29/23	03/29/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2313035
Diesel Range Organics (C10-C28)	ND	25.0	1	03/29/23	03/29/23	
Oil Range Organics (C28-C36)	ND	50.0	1	03/29/23	03/29/23	
Surrogate: n-Nonane	112 %	50-200		03/29/23	03/29/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2313039
Chloride	ND	20.0	1	03/29/23	03/29/23	



Sample Data

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

Project Name: Cotton Draw Unit 167 CTB
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
3/30/2023 3:28:58PM

CS4

E303109-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2313029
Benzene	ND	0.0250	1	03/29/23	03/29/23	
Ethylbenzene	ND	0.0250	1	03/29/23	03/29/23	
Toluene	ND	0.0250	1	03/29/23	03/29/23	
o-Xylene	ND	0.0250	1	03/29/23	03/29/23	
p,m-Xylene	ND	0.0500	1	03/29/23	03/29/23	
Total Xylenes	ND	0.0250	1	03/29/23	03/29/23	
Surrogate: Bromofluorobenzene	93.6 %	70-130		03/29/23	03/29/23	
Surrogate: 1,2-Dichloroethane-d4	99.3 %	70-130		03/29/23	03/29/23	
Surrogate: Toluene-d8	103 %	70-130		03/29/23	03/29/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2313029
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/29/23	03/29/23	
Surrogate: Bromofluorobenzene	93.6 %	70-130		03/29/23	03/29/23	
Surrogate: 1,2-Dichloroethane-d4	99.3 %	70-130		03/29/23	03/29/23	
Surrogate: Toluene-d8	103 %	70-130		03/29/23	03/29/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2313035
Diesel Range Organics (C10-C28)	ND	25.0	1	03/29/23	03/29/23	
Oil Range Organics (C28-C36)	ND	50.0	1	03/29/23	03/29/23	
Surrogate: n-Nonane	111 %	50-200		03/29/23	03/29/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2313039
Chloride	20.1	20.0	1	03/29/23	03/29/23	



Sample Data

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

Project Name: Cotton Draw Unit 167 CTB
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
3/30/2023 3:28:58PM

CS5

E303109-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2313029
Benzene	ND	0.0250	1	03/29/23	03/29/23	
Ethylbenzene	ND	0.0250	1	03/29/23	03/29/23	
Toluene	ND	0.0250	1	03/29/23	03/29/23	
o-Xylene	ND	0.0250	1	03/29/23	03/29/23	
p,m-Xylene	ND	0.0500	1	03/29/23	03/29/23	
Total Xylenes	ND	0.0250	1	03/29/23	03/29/23	
Surrogate: Bromofluorobenzene	95.2 %	70-130		03/29/23	03/29/23	
Surrogate: 1,2-Dichloroethane-d4	105 %	70-130		03/29/23	03/29/23	
Surrogate: Toluene-d8	102 %	70-130		03/29/23	03/29/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2313029
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/29/23	03/29/23	
Surrogate: Bromofluorobenzene	95.2 %	70-130		03/29/23	03/29/23	
Surrogate: 1,2-Dichloroethane-d4	105 %	70-130		03/29/23	03/29/23	
Surrogate: Toluene-d8	102 %	70-130		03/29/23	03/29/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2313035
Diesel Range Organics (C10-C28)	ND	25.0	1	03/29/23	03/29/23	
Oil Range Organics (C28-C36)	ND	50.0	1	03/29/23	03/29/23	
Surrogate: n-Nonane	115 %	50-200		03/29/23	03/29/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2313039
Chloride	24.3	20.0	1	03/29/23	03/29/23	



Sample Data

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

Project Name: Cotton Draw Unit 167 CTB
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
3/30/2023 3:28:58PM

CS6

E303109-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2313029
Benzene	ND	0.0250	1	03/29/23	03/29/23	
Ethylbenzene	ND	0.0250	1	03/29/23	03/29/23	
Toluene	ND	0.0250	1	03/29/23	03/29/23	
o-Xylene	ND	0.0250	1	03/29/23	03/29/23	
p,m-Xylene	ND	0.0500	1	03/29/23	03/29/23	
Total Xylenes	ND	0.0250	1	03/29/23	03/29/23	
Surrogate: Bromofluorobenzene	94.5 %	70-130		03/29/23	03/29/23	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		03/29/23	03/29/23	
Surrogate: Toluene-d8	102 %	70-130		03/29/23	03/29/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2313029
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/29/23	03/29/23	
Surrogate: Bromofluorobenzene	94.5 %	70-130		03/29/23	03/29/23	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		03/29/23	03/29/23	
Surrogate: Toluene-d8	102 %	70-130		03/29/23	03/29/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2313035
Diesel Range Organics (C10-C28)	ND	25.0	1	03/29/23	03/29/23	
Oil Range Organics (C28-C36)	ND	50.0	1	03/29/23	03/29/23	
Surrogate: n-Nonane	110 %	50-200		03/29/23	03/29/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2313039
Chloride	21.4	20.0	1	03/29/23	03/29/23	



Sample Data

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

Project Name: Cotton Draw Unit 167 CTB
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
3/30/2023 3:28:58PM

CS7

E303109-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2313029
Benzene	ND	0.0250	1	03/29/23	03/29/23	
Ethylbenzene	ND	0.0250	1	03/29/23	03/29/23	
Toluene	ND	0.0250	1	03/29/23	03/29/23	
o-Xylene	ND	0.0250	1	03/29/23	03/29/23	
p,m-Xylene	ND	0.0500	1	03/29/23	03/29/23	
Total Xylenes	ND	0.0250	1	03/29/23	03/29/23	
Surrogate: Bromofluorobenzene	89.9 %	70-130		03/29/23	03/29/23	
Surrogate: 1,2-Dichloroethane-d4	94.4 %	70-130		03/29/23	03/29/23	
Surrogate: Toluene-d8	99.6 %	70-130		03/29/23	03/29/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2313029
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/29/23	03/29/23	
Surrogate: Bromofluorobenzene	89.9 %	70-130		03/29/23	03/29/23	
Surrogate: 1,2-Dichloroethane-d4	94.4 %	70-130		03/29/23	03/29/23	
Surrogate: Toluene-d8	99.6 %	70-130		03/29/23	03/29/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2313035
Diesel Range Organics (C10-C28)	ND	25.0	1	03/29/23	03/29/23	
Oil Range Organics (C28-C36)	ND	50.0	1	03/29/23	03/29/23	
Surrogate: n-Nonane	110 %	50-200		03/29/23	03/29/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2313039
Chloride	21.6	20.0	1	03/29/23	03/29/23	



Sample Data

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

Project Name: Cotton Draw Unit 167 CTB
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
3/30/2023 3:28:58PM

CS8

E303109-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2313029
Benzene	ND	0.0250	1	03/29/23	03/29/23	
Ethylbenzene	ND	0.0250	1	03/29/23	03/29/23	
Toluene	ND	0.0250	1	03/29/23	03/29/23	
o-Xylene	ND	0.0250	1	03/29/23	03/29/23	
p,m-Xylene	ND	0.0500	1	03/29/23	03/29/23	
Total Xylenes	ND	0.0250	1	03/29/23	03/29/23	
Surrogate: Bromofluorobenzene	90.2 %	70-130		03/29/23	03/29/23	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		03/29/23	03/29/23	
Surrogate: Toluene-d8	101 %	70-130		03/29/23	03/29/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2313029
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/29/23	03/29/23	
Surrogate: Bromofluorobenzene	90.2 %	70-130		03/29/23	03/29/23	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		03/29/23	03/29/23	
Surrogate: Toluene-d8	101 %	70-130		03/29/23	03/29/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2313035
Diesel Range Organics (C10-C28)	ND	25.0	1	03/29/23	03/29/23	
Oil Range Organics (C28-C36)	ND	50.0	1	03/29/23	03/29/23	
Surrogate: n-Nonane	113 %	50-200		03/29/23	03/29/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2313039
Chloride	21.6	20.0	1	03/29/23	03/29/23	



Sample Data

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

Project Name: Cotton Draw Unit 167 CTB
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
3/30/2023 3:28:58PM

CSW1

E303109-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2313029
Benzene	ND	0.0250	1	03/29/23	03/29/23	
Ethylbenzene	ND	0.0250	1	03/29/23	03/29/23	
Toluene	ND	0.0250	1	03/29/23	03/29/23	
o-Xylene	ND	0.0250	1	03/29/23	03/29/23	
p,m-Xylene	ND	0.0500	1	03/29/23	03/29/23	
Total Xylenes	ND	0.0250	1	03/29/23	03/29/23	
Surrogate: Bromofluorobenzene	90.4 %	70-130		03/29/23	03/29/23	
Surrogate: 1,2-Dichloroethane-d4	97.7 %	70-130		03/29/23	03/29/23	
Surrogate: Toluene-d8	99.5 %	70-130		03/29/23	03/29/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2313029
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/29/23	03/29/23	
Surrogate: Bromofluorobenzene	90.4 %	70-130		03/29/23	03/29/23	
Surrogate: 1,2-Dichloroethane-d4	97.7 %	70-130		03/29/23	03/29/23	
Surrogate: Toluene-d8	99.5 %	70-130		03/29/23	03/29/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2313035
Diesel Range Organics (C10-C28)	ND	25.0	1	03/29/23	03/29/23	
Oil Range Organics (C28-C36)	ND	50.0	1	03/29/23	03/29/23	
Surrogate: n-Nonane	109 %	50-200		03/29/23	03/29/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2313039
Chloride	22.1	20.0	1	03/29/23	03/29/23	



Sample Data

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

Project Name: Cotton Draw Unit 167 CTB
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
3/30/2023 3:28:58PM

CSW2

E303109-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2313029
Benzene	ND	0.0250	1	03/29/23	03/29/23	
Ethylbenzene	ND	0.0250	1	03/29/23	03/29/23	
Toluene	ND	0.0250	1	03/29/23	03/29/23	
o-Xylene	ND	0.0250	1	03/29/23	03/29/23	
p,m-Xylene	ND	0.0500	1	03/29/23	03/29/23	
Total Xylenes	ND	0.0250	1	03/29/23	03/29/23	
Surrogate: Bromofluorobenzene	92.2 %	70-130		03/29/23	03/29/23	
Surrogate: 1,2-Dichloroethane-d4	98.2 %	70-130		03/29/23	03/29/23	
Surrogate: Toluene-d8	101 %	70-130		03/29/23	03/29/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2313029
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/29/23	03/29/23	
Surrogate: Bromofluorobenzene	92.2 %	70-130		03/29/23	03/29/23	
Surrogate: 1,2-Dichloroethane-d4	98.2 %	70-130		03/29/23	03/29/23	
Surrogate: Toluene-d8	101 %	70-130		03/29/23	03/29/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2313035
Diesel Range Organics (C10-C28)	ND	25.0	1	03/29/23	03/29/23	
Oil Range Organics (C28-C36)	ND	50.0	1	03/29/23	03/29/23	
Surrogate: n-Nonane	111 %	50-200		03/29/23	03/29/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2313039
Chloride	23.0	20.0	1	03/29/23	03/29/23	



Sample Data

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

Project Name: Cotton Draw Unit 167 CTB
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
3/30/2023 3:28:58PM

CSW3

E303109-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2313029
Benzene	ND	0.0250	1	03/29/23	03/29/23	
Ethylbenzene	ND	0.0250	1	03/29/23	03/29/23	
Toluene	ND	0.0250	1	03/29/23	03/29/23	
o-Xylene	ND	0.0250	1	03/29/23	03/29/23	
p,m-Xylene	ND	0.0500	1	03/29/23	03/29/23	
Total Xylenes	ND	0.0250	1	03/29/23	03/29/23	
Surrogate: Bromofluorobenzene		101 %	70-130	03/29/23	03/29/23	
Surrogate: 1,2-Dichloroethane-d4		106 %	70-130	03/29/23	03/29/23	
Surrogate: Toluene-d8		108 %	70-130	03/29/23	03/29/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2313029
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/29/23	03/29/23	
Surrogate: Bromofluorobenzene		101 %	70-130	03/29/23	03/29/23	
Surrogate: 1,2-Dichloroethane-d4		106 %	70-130	03/29/23	03/29/23	
Surrogate: Toluene-d8		108 %	70-130	03/29/23	03/29/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2313035
Diesel Range Organics (C10-C28)	ND	25.0	1	03/29/23	03/29/23	
Oil Range Organics (C28-C36)	ND	50.0	1	03/29/23	03/29/23	
Surrogate: n-Nonane		112 %	50-200	03/29/23	03/29/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2313039
Chloride	21.1	20.0	1	03/29/23	03/29/23	



Sample Data

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

Project Name: Cotton Draw Unit 167 CTB
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
3/30/2023 3:28:58PM

CSW4

E303109-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2313029
Benzene	ND	0.0250	1	03/29/23	03/29/23	
Ethylbenzene	ND	0.0250	1	03/29/23	03/29/23	
Toluene	ND	0.0250	1	03/29/23	03/29/23	
o-Xylene	ND	0.0250	1	03/29/23	03/29/23	
p,m-Xylene	ND	0.0500	1	03/29/23	03/29/23	
Total Xylenes	ND	0.0250	1	03/29/23	03/29/23	
Surrogate: Bromofluorobenzene	98.7 %	70-130		03/29/23	03/29/23	
Surrogate: 1,2-Dichloroethane-d4	109 %	70-130		03/29/23	03/29/23	
Surrogate: Toluene-d8	105 %	70-130		03/29/23	03/29/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2313029
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/29/23	03/29/23	
Surrogate: Bromofluorobenzene	98.7 %	70-130		03/29/23	03/29/23	
Surrogate: 1,2-Dichloroethane-d4	109 %	70-130		03/29/23	03/29/23	
Surrogate: Toluene-d8	105 %	70-130		03/29/23	03/29/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2313035
Diesel Range Organics (C10-C28)	ND	25.0	1	03/29/23	03/29/23	
Oil Range Organics (C28-C36)	ND	50.0	1	03/29/23	03/29/23	
Surrogate: n-Nonane	109 %	50-200		03/29/23	03/29/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2313039
Chloride	21.5	20.0	1	03/29/23	03/29/23	



Sample Data

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

Project Name: Cotton Draw Unit 167 CTB
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
3/30/2023 3:28:58PM

CSW5

E303109-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2313029
Benzene	ND	0.0250	1	03/29/23	03/29/23	
Ethylbenzene	ND	0.0250	1	03/29/23	03/29/23	
Toluene	ND	0.0250	1	03/29/23	03/29/23	
o-Xylene	ND	0.0250	1	03/29/23	03/29/23	
p,m-Xylene	ND	0.0500	1	03/29/23	03/29/23	
Total Xylenes	ND	0.0250	1	03/29/23	03/29/23	
Surrogate: Bromofluorobenzene	96.8 %	70-130		03/29/23	03/29/23	
Surrogate: 1,2-Dichloroethane-d4	108 %	70-130		03/29/23	03/29/23	
Surrogate: Toluene-d8	104 %	70-130		03/29/23	03/29/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2313029
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/29/23	03/29/23	
Surrogate: Bromofluorobenzene	96.8 %	70-130		03/29/23	03/29/23	
Surrogate: 1,2-Dichloroethane-d4	108 %	70-130		03/29/23	03/29/23	
Surrogate: Toluene-d8	104 %	70-130		03/29/23	03/29/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2313035
Diesel Range Organics (C10-C28)	ND	25.0	1	03/29/23	03/29/23	
Oil Range Organics (C28-C36)	ND	50.0	1	03/29/23	03/29/23	
Surrogate: n-Nonane	109 %	50-200		03/29/23	03/29/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2313039
Chloride	23.1	20.0	1	03/29/23	03/29/23	



Sample Data

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

Project Name: Cotton Draw Unit 167 CTB
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
3/30/2023 3:28:58PM

CSW6

E303109-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2313029
Benzene	ND	0.0250	1	03/29/23	03/29/23	
Ethylbenzene	ND	0.0250	1	03/29/23	03/29/23	
Toluene	ND	0.0250	1	03/29/23	03/29/23	
o-Xylene	ND	0.0250	1	03/29/23	03/29/23	
p,m-Xylene	ND	0.0500	1	03/29/23	03/29/23	
Total Xylenes	ND	0.0250	1	03/29/23	03/29/23	
Surrogate: Bromofluorobenzene		100 %	70-130	03/29/23	03/29/23	
Surrogate: 1,2-Dichloroethane-d4		110 %	70-130	03/29/23	03/29/23	
Surrogate: Toluene-d8		104 %	70-130	03/29/23	03/29/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2313029
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/29/23	03/29/23	
Surrogate: Bromofluorobenzene		100 %	70-130	03/29/23	03/29/23	
Surrogate: 1,2-Dichloroethane-d4		110 %	70-130	03/29/23	03/29/23	
Surrogate: Toluene-d8		104 %	70-130	03/29/23	03/29/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2313035
Diesel Range Organics (C10-C28)	ND	25.0	1	03/29/23	03/29/23	
Oil Range Organics (C28-C36)	ND	50.0	1	03/29/23	03/29/23	
Surrogate: n-Nonane		111 %	50-200	03/29/23	03/29/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2313039
Chloride	21.3	20.0	1	03/29/23	03/29/23	



Sample Data

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

Project Name: Cotton Draw Unit 167 CTB
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
3/30/2023 3:28:58PM

CSW7

E303109-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2313029
Benzene	ND	0.0250	1	03/29/23	03/29/23	
Ethylbenzene	ND	0.0250	1	03/29/23	03/29/23	
Toluene	ND	0.0250	1	03/29/23	03/29/23	
o-Xylene	ND	0.0250	1	03/29/23	03/29/23	
p,m-Xylene	ND	0.0500	1	03/29/23	03/29/23	
Total Xylenes	ND	0.0250	1	03/29/23	03/29/23	
Surrogate: Bromofluorobenzene	96.0 %	70-130		03/29/23	03/29/23	
Surrogate: 1,2-Dichloroethane-d4	113 %	70-130		03/29/23	03/29/23	
Surrogate: Toluene-d8	102 %	70-130		03/29/23	03/29/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2313029
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/29/23	03/29/23	
Surrogate: Bromofluorobenzene	96.0 %	70-130		03/29/23	03/29/23	
Surrogate: 1,2-Dichloroethane-d4	113 %	70-130		03/29/23	03/29/23	
Surrogate: Toluene-d8	102 %	70-130		03/29/23	03/29/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2313035
Diesel Range Organics (C10-C28)	ND	25.0	1	03/29/23	03/29/23	
Oil Range Organics (C28-C36)	ND	50.0	1	03/29/23	03/29/23	
Surrogate: n-Nonane	86.6 %	50-200		03/29/23	03/29/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2313039
Chloride	22.2	20.0	1	03/29/23	03/29/23	



Sample Data

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

Project Name: Cotton Draw Unit 167 CTB
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
3/30/2023 3:28:58PM

CSW8

E303109-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2313029
Benzene	ND	0.0250	1	03/29/23	03/29/23	
Ethylbenzene	ND	0.0250	1	03/29/23	03/29/23	
Toluene	ND	0.0250	1	03/29/23	03/29/23	
o-Xylene	ND	0.0250	1	03/29/23	03/29/23	
p,m-Xylene	ND	0.0500	1	03/29/23	03/29/23	
Total Xylenes	ND	0.0250	1	03/29/23	03/29/23	
Surrogate: Bromofluorobenzene	97.5 %	70-130		03/29/23	03/29/23	
Surrogate: 1,2-Dichloroethane-d4	113 %	70-130		03/29/23	03/29/23	
Surrogate: Toluene-d8	102 %	70-130		03/29/23	03/29/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2313029
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/29/23	03/29/23	
Surrogate: Bromofluorobenzene	97.5 %	70-130		03/29/23	03/29/23	
Surrogate: 1,2-Dichloroethane-d4	113 %	70-130		03/29/23	03/29/23	
Surrogate: Toluene-d8	102 %	70-130		03/29/23	03/29/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2313035
Diesel Range Organics (C10-C28)	ND	25.0	1	03/29/23	03/29/23	
Oil Range Organics (C28-C36)	ND	50.0	1	03/29/23	03/29/23	
Surrogate: n-Nonane	86.5 %	50-200		03/29/23	03/29/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2313039
Chloride	ND	20.0	1	03/29/23	03/29/23	



Sample Data

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

Project Name: Cotton Draw Unit 167 CTB
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
3/30/2023 3:28:58PM

CSW9

E303109-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2313029
Benzene	ND	0.0250	1	03/29/23	03/29/23	
Ethylbenzene	ND	0.0250	1	03/29/23	03/29/23	
Toluene	ND	0.0250	1	03/29/23	03/29/23	
o-Xylene	ND	0.0250	1	03/29/23	03/29/23	
p,m-Xylene	ND	0.0500	1	03/29/23	03/29/23	
Total Xylenes	ND	0.0250	1	03/29/23	03/29/23	
Surrogate: Bromofluorobenzene	97.8 %	70-130		03/29/23	03/29/23	
Surrogate: 1,2-Dichloroethane-d4	112 %	70-130		03/29/23	03/29/23	
Surrogate: Toluene-d8	101 %	70-130		03/29/23	03/29/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2313029
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/29/23	03/29/23	
Surrogate: Bromofluorobenzene	97.8 %	70-130		03/29/23	03/29/23	
Surrogate: 1,2-Dichloroethane-d4	112 %	70-130		03/29/23	03/29/23	
Surrogate: Toluene-d8	101 %	70-130		03/29/23	03/29/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2313035
Diesel Range Organics (C10-C28)	ND	25.0	1	03/29/23	03/29/23	
Oil Range Organics (C28-C36)	ND	50.0	1	03/29/23	03/29/23	
Surrogate: n-Nonane	85.4 %	50-200		03/29/23	03/29/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2313039
Chloride	23.7	20.0	1	03/29/23	03/29/23	



Sample Data

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

Project Name: Cotton Draw Unit 167 CTB
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
3/30/2023 3:28:58PM

CSW10

E303109-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2313029
Benzene	ND	0.0250	1	03/29/23	03/29/23	
Ethylbenzene	ND	0.0250	1	03/29/23	03/29/23	
Toluene	ND	0.0250	1	03/29/23	03/29/23	
o-Xylene	ND	0.0250	1	03/29/23	03/29/23	
p,m-Xylene	ND	0.0500	1	03/29/23	03/29/23	
Total Xylenes	ND	0.0250	1	03/29/23	03/29/23	
Surrogate: Bromofluorobenzene	99.8 %	70-130		03/29/23	03/29/23	
Surrogate: 1,2-Dichloroethane-d4	116 %	70-130		03/29/23	03/29/23	
Surrogate: Toluene-d8	102 %	70-130		03/29/23	03/29/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2313029
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/29/23	03/29/23	
Surrogate: Bromofluorobenzene	99.8 %	70-130		03/29/23	03/29/23	
Surrogate: 1,2-Dichloroethane-d4	116 %	70-130		03/29/23	03/29/23	
Surrogate: Toluene-d8	102 %	70-130		03/29/23	03/29/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2313035
Diesel Range Organics (C10-C28)	ND	25.0	1	03/29/23	03/29/23	
Oil Range Organics (C28-C36)	ND	50.0	1	03/29/23	03/29/23	
Surrogate: n-Nonane	111 %	50-200		03/29/23	03/29/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2313039
Chloride	24.0	20.0	1	03/29/23	03/29/23	



Sample Data

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

Project Name: Cotton Draw Unit 167 CTB
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
3/30/2023 3:28:58PM

CSW11

E303109-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2313029
Benzene	ND	0.0250	1	03/29/23	03/29/23	
Ethylbenzene	ND	0.0250	1	03/29/23	03/29/23	
Toluene	ND	0.0250	1	03/29/23	03/29/23	
o-Xylene	ND	0.0250	1	03/29/23	03/29/23	
p,m-Xylene	ND	0.0500	1	03/29/23	03/29/23	
Total Xylenes	ND	0.0250	1	03/29/23	03/29/23	
Surrogate: Bromofluorobenzene		101 %	70-130	03/29/23	03/29/23	
Surrogate: 1,2-Dichloroethane-d4		116 %	70-130	03/29/23	03/29/23	
Surrogate: Toluene-d8		102 %	70-130	03/29/23	03/29/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2313029
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/29/23	03/29/23	
Surrogate: Bromofluorobenzene		101 %	70-130	03/29/23	03/29/23	
Surrogate: 1,2-Dichloroethane-d4		116 %	70-130	03/29/23	03/29/23	
Surrogate: Toluene-d8		102 %	70-130	03/29/23	03/29/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2313035
Diesel Range Organics (C10-C28)	ND	25.0	1	03/29/23	03/29/23	
Oil Range Organics (C28-C36)	ND	50.0	1	03/29/23	03/29/23	
Surrogate: n-Nonane		111 %	50-200	03/29/23	03/29/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2313039
Chloride	21.8	20.0	1	03/29/23	03/29/23	



Sample Data

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

Project Name: Cotton Draw Unit 167 CTB
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
3/30/2023 3:28:58PM

CSW12

E303109-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2313029
Benzene	ND	0.0250	1	03/29/23	03/29/23	
Ethylbenzene	ND	0.0250	1	03/29/23	03/29/23	
Toluene	ND	0.0250	1	03/29/23	03/29/23	
o-Xylene	ND	0.0250	1	03/29/23	03/29/23	
p,m-Xylene	ND	0.0500	1	03/29/23	03/29/23	
Total Xylenes	ND	0.0250	1	03/29/23	03/29/23	
Surrogate: Bromofluorobenzene		103 %	70-130	03/29/23	03/29/23	
Surrogate: 1,2-Dichloroethane-d4		114 %	70-130	03/29/23	03/29/23	
Surrogate: Toluene-d8		101 %	70-130	03/29/23	03/29/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2313029
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/29/23	03/29/23	
Surrogate: Bromofluorobenzene		103 %	70-130	03/29/23	03/29/23	
Surrogate: 1,2-Dichloroethane-d4		114 %	70-130	03/29/23	03/29/23	
Surrogate: Toluene-d8		101 %	70-130	03/29/23	03/29/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2313035
Diesel Range Organics (C10-C28)	ND	25.0	1	03/29/23	03/29/23	
Oil Range Organics (C28-C36)	ND	50.0	1	03/29/23	03/29/23	
Surrogate: n-Nonane		111 %	50-200	03/29/23	03/29/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2313039
Chloride	23.9	20.0	1	03/29/23	03/29/23	



Sample Data

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

Project Name: Cotton Draw Unit 167 CTB
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
3/30/2023 3:28:58PM

CSW13

E303109-21

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2313031
Benzene	ND	0.0250	1	03/29/23	03/29/23	
Ethylbenzene	ND	0.0250	1	03/29/23	03/29/23	
Toluene	ND	0.0250	1	03/29/23	03/29/23	
o-Xylene	ND	0.0250	1	03/29/23	03/29/23	
p,m-Xylene	ND	0.0500	1	03/29/23	03/29/23	
Total Xylenes	ND	0.0250	1	03/29/23	03/29/23	
Surrogate: Bromofluorobenzene		100 %	70-130	03/29/23	03/29/23	
Surrogate: 1,2-Dichloroethane-d4		113 %	70-130	03/29/23	03/29/23	
Surrogate: Toluene-d8		102 %	70-130	03/29/23	03/29/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2313031
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/29/23	03/29/23	
Surrogate: Bromofluorobenzene		100 %	70-130	03/29/23	03/29/23	
Surrogate: 1,2-Dichloroethane-d4		113 %	70-130	03/29/23	03/29/23	
Surrogate: Toluene-d8		102 %	70-130	03/29/23	03/29/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2313038
Diesel Range Organics (C10-C28)	ND	25.0	1	03/29/23	03/29/23	
Oil Range Organics (C28-C36)	ND	50.0	1	03/29/23	03/29/23	
Surrogate: n-Nonane		109 %	50-200	03/29/23	03/29/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2313041
Chloride	22.4	20.0	1	03/29/23	03/30/23	



Sample Data

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

Project Name: Cotton Draw Unit 167 CTB
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
3/30/2023 3:28:58PM

CSW14

E303109-22

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2313031
Benzene	ND	0.0250	1	03/29/23	03/29/23	
Ethylbenzene	ND	0.0250	1	03/29/23	03/29/23	
Toluene	ND	0.0250	1	03/29/23	03/29/23	
o-Xylene	ND	0.0250	1	03/29/23	03/29/23	
p,m-Xylene	ND	0.0500	1	03/29/23	03/29/23	
Total Xylenes	ND	0.0250	1	03/29/23	03/29/23	
Surrogate: Bromofluorobenzene	96.7 %	70-130		03/29/23	03/29/23	
Surrogate: 1,2-Dichloroethane-d4	115 %	70-130		03/29/23	03/29/23	
Surrogate: Toluene-d8	102 %	70-130		03/29/23	03/29/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2313031
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/29/23	03/29/23	
Surrogate: Bromofluorobenzene	96.7 %	70-130		03/29/23	03/29/23	
Surrogate: 1,2-Dichloroethane-d4	115 %	70-130		03/29/23	03/29/23	
Surrogate: Toluene-d8	102 %	70-130		03/29/23	03/29/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2313038
Diesel Range Organics (C10-C28)	ND	25.0	1	03/29/23	03/29/23	
Oil Range Organics (C28-C36)	ND	50.0	1	03/29/23	03/29/23	
Surrogate: n-Nonane	107 %	50-200		03/29/23	03/29/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2313041
Chloride	24.3	20.0	1	03/29/23	03/30/23	



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 167 CTB	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	3/30/2023 3:28:58PM

Volatile Organic Compounds by EPA 8260B

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 (2313029-BLK1)

Prepared: 03/29/23 Analyzed: 03/29/23

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.442		0.500		88.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.471		0.500		94.2	70-130			
Surrogate: Toluene-d8	0.494		0.500		98.7	70-130			

LCS (2313029-BS1)

Prepared: 03/29/23 Analyzed: 03/29/23

Benzene	2.49	0.0250	2.50		99.4	70-130			
Ethylbenzene	2.39	0.0250	2.50		95.7	70-130			
Toluene	2.47	0.0250	2.50		99.0	70-130			
o-Xylene	2.55	0.0250	2.50		102	70-130			
p,m-Xylene	4.86	0.0500	5.00		97.3	70-130			
Total Xylenes	7.42	0.0250	7.50		98.9	70-130			
Surrogate: Bromofluorobenzene	0.461		0.500		92.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.479		0.500		95.8	70-130			
Surrogate: Toluene-d8	0.503		0.500		101	70-130			

LCS Dup (2313029-BSD1)

Prepared: 03/29/23 Analyzed: 03/29/23

Benzene	2.41	0.0250	2.50		96.6	70-130	2.92	23	
Ethylbenzene	2.34	0.0250	2.50		93.6	70-130	2.13	27	
Toluene	2.42	0.0250	2.50		96.8	70-130	2.19	24	
o-Xylene	2.50	0.0250	2.50		100	70-130	2.10	27	
p,m-Xylene	4.82	0.0500	5.00		96.4	70-130	0.867	27	
Total Xylenes	7.32	0.0250	7.50		97.6	70-130	1.29	27	
Surrogate: Bromofluorobenzene	0.469		0.500		93.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.502		0.500		100	70-130			
Surrogate: Toluene-d8	0.505		0.500		101	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 167 CTB	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	3/30/2023 3:28:58PM

Volatile Organic Compounds by EPA 8260B

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 (2313031-BLK1)

Prepared: 03/29/23 Analyzed: 03/29/23

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.488		0.500		97.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.549		0.500		110	70-130			
Surrogate: Toluene-d8	0.520		0.500		104	70-130			

LCS (2313031-BS1)

Prepared: 03/29/23 Analyzed: 03/29/23

Benzene	2.31	0.0250	2.50		92.3	70-130			
Ethylbenzene	2.31	0.0250	2.50		92.2	70-130			
Toluene	2.36	0.0250	2.50		94.3	70-130			
o-Xylene	2.35	0.0250	2.50		93.8	70-130			
p,m-Xylene	4.65	0.0500	5.00		93.0	70-130			
Total Xylenes	7.00	0.0250	7.50		93.3	70-130			
Surrogate: Bromofluorobenzene	0.525		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.562		0.500		112	70-130			
Surrogate: Toluene-d8	0.515		0.500		103	70-130			

LCS Dup (2313031-BSD1)

Prepared: 03/29/23 Analyzed: 03/29/23

Benzene	2.33	0.0250	2.50		93.2	70-130	0.992	23	
Ethylbenzene	2.36	0.0250	2.50		94.6	70-130	2.55	27	
Toluene	2.42	0.0250	2.50		96.7	70-130	2.53	24	
o-Xylene	2.38	0.0250	2.50		95.3	70-130	1.50	27	
p,m-Xylene	4.76	0.0500	5.00		95.2	70-130	2.31	27	
Total Xylenes	7.14	0.0250	7.50		95.2	70-130	2.04	27	
Surrogate: Bromofluorobenzene	0.538		0.500		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.580		0.500		116	70-130			
Surrogate: Toluene-d8	0.512		0.500		102	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 167 CTB	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	3/30/2023 3:28:58PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2313029-BLK1)

Prepared: 03/29/23 Analyzed: 03/29/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.442		0.500		88.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.471		0.500		94.2	70-130			
Surrogate: Toluene-d8	0.494		0.500		98.7	70-130			

LCS (2313029-BS2)

Prepared: 03/29/23 Analyzed: 03/29/23

Gasoline Range Organics (C6-C10)	41.7	20.0	50.0		83.4	70-130			
Surrogate: Bromofluorobenzene	0.456		0.500		91.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.470		0.500		94.0	70-130			
Surrogate: Toluene-d8	0.504		0.500		101	70-130			

LCS Dup (2313029-BSD2)

Prepared: 03/29/23 Analyzed: 03/29/23

Gasoline Range Organics (C6-C10)	43.2	20.0	50.0		86.4	70-130	3.47	20	
Surrogate: Bromofluorobenzene	0.454		0.500		90.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.485		0.500		97.0	70-130			
Surrogate: Toluene-d8	0.509		0.500		102	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 167 CTB	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	3/30/2023 3:28:58PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2313031-BLK1)

Prepared: 03/29/23 Analyzed: 03/29/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.488		0.500		97.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.549		0.500		110	70-130			
Surrogate: Toluene-d8	0.520		0.500		104	70-130			

LCS (2313031-BS2)

Prepared: 03/29/23 Analyzed: 03/29/23

Gasoline Range Organics (C6-C10)	50.2	20.0	50.0		100	70-130			
Surrogate: Bromofluorobenzene	0.510		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.568		0.500		114	70-130			
Surrogate: Toluene-d8	0.521		0.500		104	70-130			

LCS Dup (2313031-BSD2)

Prepared: 03/29/23 Analyzed: 03/29/23

Gasoline Range Organics (C6-C10)	48.4	20.0	50.0		96.7	70-130	3.80	20	
Surrogate: Bromofluorobenzene	0.516		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.574		0.500		115	70-130			
Surrogate: Toluene-d8	0.525		0.500		105	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 167 CTB	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	3/30/2023 3:28:58PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2313035-BLK1)

Prepared: 03/29/23 Analyzed: 03/29/23

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	55.6		50.0		111	50-200			

LCS (2313035-BS1)

Prepared: 03/29/23 Analyzed: 03/29/23

Diesel Range Organics (C10-C28)	190	25.0	250		75.9	38-132			
Surrogate: n-Nonane	52.8		50.0		106	50-200			

Matrix Spike (2313035-MS1)

Source: E303109-18

Prepared: 03/29/23 Analyzed: 03/29/23

Diesel Range Organics (C10-C28)	206	25.0	250	ND	82.5	38-132			
Surrogate: n-Nonane	53.8		50.0		108	50-200			

Matrix Spike Dup (2313035-MSD1)

Source: E303109-18

Prepared: 03/29/23 Analyzed: 03/29/23

Diesel Range Organics (C10-C28)	196	25.0	250	ND	78.5	38-132	5.03	20	
Surrogate: n-Nonane	53.7		50.0		107	50-200			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 167 CTB	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	3/30/2023 3:28:58PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2313038-BLK1)

Prepared: 03/29/23 Analyzed: 03/29/23

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	54.5		50.0		109	50-200			

LCS (2313038-BS1)

Prepared: 03/29/23 Analyzed: 03/29/23

Diesel Range Organics (C10-C28)	174	25.0	250		69.5	38-132			
Surrogate: n-Nonane	50.5		50.0		101	50-200			

Matrix Spike (2313038-MS1)

Source: E303114-02

Prepared: 03/29/23 Analyzed: 03/29/23

Diesel Range Organics (C10-C28)	186	25.0	250	ND	74.2	38-132			
Surrogate: n-Nonane	49.4		50.0		98.7	50-200			

Matrix Spike Dup (2313038-MSD1)

Source: E303114-02

Prepared: 03/29/23 Analyzed: 03/29/23

Diesel Range Organics (C10-C28)	171	25.0	250	ND	68.3	38-132	8.32	20	
Surrogate: n-Nonane	50.1		50.0		100	50-200			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 167 CTB	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	3/30/2023 3:28:58PM

Anions by EPA 300.0/9056A

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 (2313039-BLK1)					Prepared: 03/29/23 Analyzed: 03/29/23				
Chloride	ND	20.0							
LCS (2313039-BS1)					Prepared: 03/29/23 Analyzed: 03/29/23				
Chloride	254	20.0	250		101	90-110			
Matrix Spike (2313039-MS1)					Source: E303109-01		Prepared: 03/29/23 Analyzed: 03/29/23		
Chloride	276	20.0	250	22.9	101	80-120			
Matrix Spike Dup (2313039-MSD1)					Source: E303109-01		Prepared: 03/29/23 Analyzed: 03/29/23		
Chloride	280	20.0	250	22.9	103	80-120	1.40	20	



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 167 CTB	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	3/30/2023 3:28:58PM

Anions by EPA 300.0/9056A

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 (2313041-BLK1)					Prepared: 03/29/23 Analyzed: 03/30/23				
Chloride	ND	20.0							
LCS (2313041-BS1)					Prepared: 03/29/23 Analyzed: 03/30/23				
Chloride	255	20.0	250		102	90-110			
Matrix Spike (2313041-MS1)					Source: E303109-21		Prepared: 03/29/23 Analyzed: 03/30/23		
Chloride	285	20.0	250	22.4	105	80-120			
Matrix Spike Dup (2313041-MSD1)					Source: E303109-21		Prepared: 03/29/23 Analyzed: 03/30/23		
Chloride	282	20.0	250	22.4	104	80-120	0.923	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 167 CTB	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	03/30/23 15:28

- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite

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

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



Project Information

Chain of Custody

Page 1 of 3

Client: Pima Environmental Services		Bill To		Lab Use Only		TAT		EPA Program					
Project: <u>Cotton Draw Unit 1 & 7 CTS</u>		Attention: <u>Devon</u>		Lab WO# <u>E 303109</u>		Job Number <u>01058-0071</u>		1D	2D	3D	Standard	CWA	SDWA
Project Manager: Tom Bynum		Address:		Analysis and Method								RCRA	
Address: 5614 N. Lovington Hwy.		City, State, Zip											
City, State, Zip: <u>Hobbs, NM, 88240</u>		Phone:											
Phone: <u>580-748-1613</u>		Email:											
Email: <u>tom@pimaoil.com</u>		Pima Project # <u>203</u>											
Report due by:													

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	State	Remarks
8:00	3/27/23	S	1	CS1	1							X			
8:05				CS2	2										
8:10				CS3	3										
8:15				CS4	4										
8:20				CS5	5										
8:25				CS6	6										
8:30				CS7	7										
8:35				CS8	8										
8:40				CSW1	9										
8:45				CSW2	10										

Additional Instructions:

Billing #: 20907517

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

Sampled by: Audriana Benavidez

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

Relinquished by: (Signature) <u>AB</u>	Date <u>3-28-23</u>	Time <u>2:00</u>	Received by: (Signature) <u>Michelle Cuyahua</u>	Date <u>3-28-23</u>	Time <u>1400</u>	Lab Use Only Received on ice: <u>Y</u> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4.0</u>
Relinquished by: (Signature) <u>Michelle Cuyahua</u>	Date <u>3-28-23</u>	Time <u>1600</u>	Received by: (Signature) <u>Lorena Len</u>	Date <u>3-28-23</u>	Time <u>1700</u>	
Relinquished by: (Signature) <u>Lorena Len</u>	Date <u>3-28-23</u>	Time <u>2300</u>	Received by: (Signature) <u>Juan Zappa</u>	Date <u>03/29/23</u>	Time <u>6:45</u>	

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

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



Project Information


Chain of Custody

Page 2 of 3

Client: Pima Environmental Services		Bill To		Lab Use Only		TAT		EPA Program					
Project: <u>Cotton Draw Unit 1107 CTB</u>		Attention: <u>Devon</u>		Lab WO# <u>E 303109</u>		Job Number <u>0058-0007</u>		1D	2D	3D	Standard	CWA	SDWA
Project Manager: Tom Bynum		Address:		Analysis and Method								RCRA	
Address: 5614 N. Lovington Hwy.		City, State, Zip											
City, State, Zip: Hobbs, NM, 88240		Phone:											
Phone: 580-748-1613		Email:											
Email: tom@pimaoil.com		Pima Project # <u>203</u>											
Report due by:													

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	Remarks
8:50	3/27/23	S	1	CSW 3	11							X		
8:55				CSW 4	12									
9:00				CSW 5	13									
9:05				CSW 6	14									
9:10				CSW 7	15									
9:15				CSW 8	16									
9:20				CSW 9	17									
9:25				CSW 10	18									
9:30				CSW 11	19									
9:35				CSW 12	20									

Additional Instructions: <u>Billing #: 20967517</u>						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.					
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location date or time of collection is considered fraud and may be grounds for legal action.						Sampled by: <u>Audriana Benandez</u>					
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only					
<u>AB</u>	3-28-23	2:00	<u>Michelle Campbell</u>	3-28-23	1400	Received on ice: <u>Y</u> / N					
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	T1 T2 T3					
<u>Michelle Campbell</u>	3-28-23	1600	<u>Horacio Lei</u>	3-28-23	1700						
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	AVG Temp °C <u>4.6</u>					
<u>Horacio Lei</u>	3-28-23	2300	<u>Ziem ZBC</u>	03/29/23	4:45	Container Type <u>g - glass</u> p - poly/plastic, ag - amber glass, v - VOA					
Sample Matrix: <u>S</u> - Soil, <u>Sd</u> - Solid, <u>Sg</u> - Sludge, <u>A</u> - Aqueous, <u>O</u> - Other											
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: 3/29/2023 8:48:40AM

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:	03/29/23 06:45	Work Order ID:	E303109
Phone:	(575) 631-6977	Date Logged In:	03/28/23 14:25	Logged In By:	Caitlin Christian
Email:	tom@pimaoil.com	Due Date:	03/29/23 17:00 (0 day TAT)		

Chain of Custody (COC)

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

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

Carrier: Courier**Comments/Resolution****Sample Turn Around Time (TAT)**

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

20. Were field sample labels filled out with the minimum information:
 - Sample ID? Yes
 - Date/Time Collected? Yes
 - Collectors name? Yes

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

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

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

CONDITIONS

Action 204179

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 204179
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your closure report and final C-141 for Incident #NAPP2124337960 COTTON DRAW UNIT 167 BATTERY, thank you. This closure is approved.	8/18/2023