



COTTON DRAW UNIT #605H

Incident ID nAPP2311446508

PREPARED BY:
PIMA ENVIRONMENTAL SERVICES, LLC

PREPARED FOR:
DEVON ENERGY PRODUCTION CO, LP

Remediation Work Plan

December 2, 2024

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

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

Re: Site Characteristic and Remediation Plan Report
Cotton Draw Unit #605H
API # 30-015-47297
NMOCD Incident ID nAPP2311446508
ULSTR - C - 26 - 24S - 31E 385 FNL 2530 FWL Eddy County, NM
GPS Coordinates: Latitude 32.1953226 Longitude -103.751473

This produced water release was discovered by the operator on April 17, 2023. The initial notification of release was submitted and approved on April 24, 2023 (OCD Online: Permitting - Application ID 210183). The initial C-141 form was submitted and approved on August 24, 2023 (OCD Online: Permitting - Application ID 256961). This incident was assigned Incident ID nAPP2311446508 by the New Mexico Oil Conservation Division (NMOCD).

Release Information

nAPP2311446508: On April 17, 2023, Operator found fluid coming up from the flow line for the CDU 605 at the edge of the well pad. The well was shut in to stop the leak. Fluid from spill soaked into the ground approximately 20 feet of the south side of the well pad. No fluids were recovered.

Site Characterization

The Cotton Draw Unit #605H (Cotton) is located approximately nineteen (19) miles east of Malaga, NM. This release area is in Unit C, Section 26, Township 24S, Range 31E, Latitude 32.1953226 Longitude -103.751473, Eddy County, NM. Figure 1 references a Location Map.

Per the New Mexico Bureau of Geology and Mineral Resources, the geology in this area is Eolian and piedmont deposits. Interlayered eolian sands and piedmont-slope deposits along the eastern flank of the Pecos River valley, primarily between Roswell and Carlsbad. Typically capped by thin eolian deposits (Appendix B). The soil in this area is made up of Berino complex, 0 to 3 percent slopes, eroded according to the United States Department of Agriculture Natural Resources Conservation Service soil survey. The drainage class in this area is well drained (Appendix B). There is a low potential for karst geology to be present around the Cotton (Figure 3). Reference Figure 2 for a Topographic Map.

Based on the well water data from the New Mexico Office of the State Engineer, the depth to the nearest groundwater in this vicinity measures 868 feet below grade surface (bgs). This information is based on OSE C-04388-POD1 which was drilled February 22, 2020, and is located approximately 0.9 miles north of this release area. Conversely, as per the United States Geological Survey well water data the nearest groundwater depth in this region is recorded at 406 feet bgs, from well USGS 320952103444401 25S.31E.02.214411 with the last gauge being conducted in 1998. This well is situated approximately 2 miles south of the Cotton release area. The nearest surface water body is a salt pond at United Salt Lake Plant approximately 14.7 miles northwest of this release area. For detailed references to Water Surveys and Water-Related Maps, please refer to Appendix A. The closure criteria for this area will be classified under the less than 50-foot depth to groundwater section of Table 1 19.15.29.12 NMAC due to a lack of current and close groundwater data and the fact that the release is in the pasture.

Site Assessment and Delineation Activities

On April 25, 2023, Pima Environmental mobilized personnel to the site to collect soil samples from within and around the edges of the release area for vertical and horizontal delineation. A roustabout crew was on site repairing the damaged flowline. Pima field personnel were instructed by Devon to return later to complete delineation efforts.

Due to continued work in the pipeline right of way, Pima personnel were able to return on September 5, 2023, to complete delineation of the previous release area. Eight (8) discrete samples were collected from 5 different sample points within and around the edges of the release area for vertical and horizontal delineation. At the S1 sample point, samples were collected from depth intervals of 1', 2', 3', and 4' bgs. At the SW1 through SW4 sample points, samples were collected from a depth of 6" bgs. One (1) sample was collected from the pasture at a depth of 6" bgs to serve as a background sample. The

samples were put on ice, prepared for delivery, then delivered to Envirotech Analytical Laboratories for official analysis of all constituents listed in Table 1 19.15.29.12 NMAC. A corresponding Site Map 9/5/23 can be found in Figure 4. The lab sample results can be found in the Data Tables in Figure 5. Due to more work being performed on the pad and in the pipeline right of ways, Devon instructed Pima to hold off on any further activities until all other operations were completed.

On May 15, 2024, Pima personnel returned to the site to reassess the release area. Soil had been removed from this area and replaced during the previous pipeline/flowline work activities. Samples needed to be collected and analyzed to find out if contamination had been removed as well. Four (4) discrete samples were collected from the S1 sample point from depths of 1', 2', 3', and 4' bgs. Four (4) discrete samples were collected from SW1 through SW4 sample points from a depth of 1' bgs. One (1) sample was collected from the previous BG1 sample point at a depth of 1' bgs. These samples were put on ice, prepared for delivery, and delivered to Envirotech Analytical Laboratories for official analysis of all constituents listed in Table 1 19.15.29.12 NMAC.

On May 21, 2024, Pima personnel returned to the site to collect additional delineation samples. Sample point S2 was added along with 5-point composite samples from SW1 through SW4 consisting of sub-samples from depths of surface, 1', 2', 3', and 4' bgs. All samples were put on ice, prepared for delivery, then delivered to Envirotech Analytical Laboratories for official analysis of all constituents listed in Table 1. The lab sample results from this sampling event can be found in the Data Tables included in Figure 5. The sample points in this sampling event can be seen in the Proposed Excavation Map found in Figure 6. Complete laboratory reports can be found in Appendix D. Photographic Documentation can be referenced in Appendix C.

Proposed Remediation Activities

On behalf of Devon, Pima proposes the following method for the remediation of this release area:

- The estimated total volume of soil to be remediated is approximately 2 cubic yards from the 18 square foot area surrounding sample point S2.
- We propose to excavate the 18 square foot area to a depth of 2.5' bgs, or until sample results are verified to be under the regulatory limits as per the less than 50-foot depth to groundwater requirement in Table 1 19.15.29.12 NMAC.
- The contaminated soil will be disposed of at an NMOCD-approved disposal facility. Then clean, like material will be brought to the location to be used for backfilling. A Proposed Excavation Map can be found in Figure 6.
- A 48-hour sampling notification will be issued to NMOCD for confirmation sampling of the area.
- Confirmation samples will be composite samples representing no more than 200 square feet from the base and walls of the excavated area.
- Once all sample results confirm the contamination has been removed from each area, a remediation closure report will be drafted and submitted to the NMOCD Portal for review/approval.

Devon has complied with the applicable requirements set forth in 19.15.29.12 NMAC and requests that this remediation work plan for incident ID nAPP2311446508 be approved.

For questions or additional information, please feel free to contact:

Devon Energy Production – Jim Raley at 575-689-7597 or jim.rale@dyn.com.

Pima Environmental Services – Tom Bynum at 580-748-1613 or tom@pimaoil.com.

Attachments

Figures:

- 1- Location Map
- 2- Topographic Map
- 3- Karst Map
- 4- Site Map 9/5/23
- 5- Data Tables
- 6- Proposed Excavation Map

Appendices:

- Appendix A – Referenced Water Surveys & Water-Related Maps
- Appendix B – Soil Survey & Geological Data
- Appendix C – Photographic Documentation
- Appendix D – Laboratory Reports

Figures:

Location Map

Topographic Map

Karst Map

Site Map 9/5/23

Data Tables

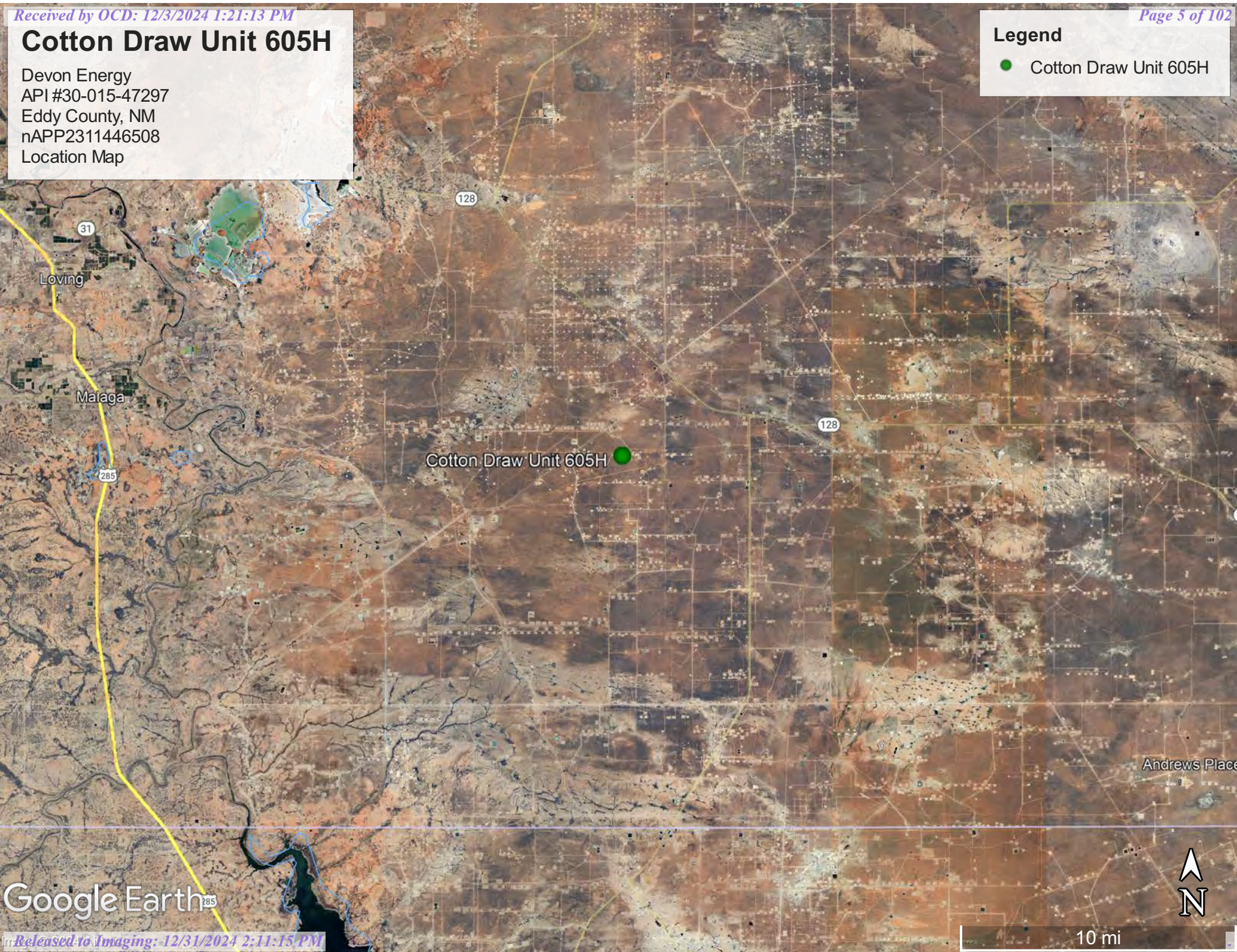
Proposed Excavation Map

Cotton Draw Unit 605H

Devon Energy
API #30-015-47297
Eddy County, NM
nAPP2311446508
Location Map

Legend

● Cotton Draw Unit 605H



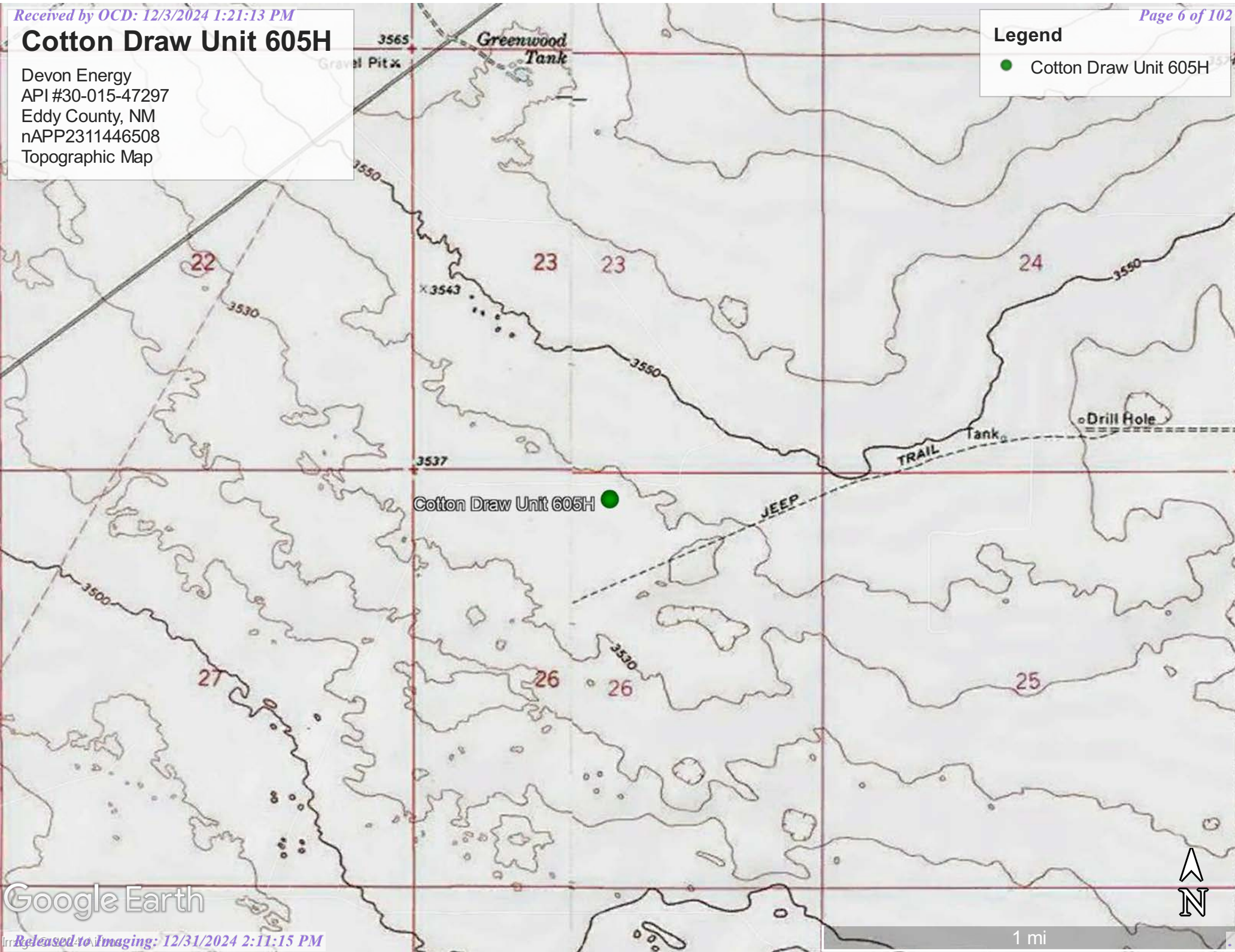
Google Earth

Cotton Draw Unit 605H

Devon Energy
API #30-015-47297
Eddy County, NM
nAPP2311446508
Topographic Map

Legend

● Cotton Draw Unit 605H






Google Earth



Cotton Draw Unit 605H

Devon Energy
API #30-015-47297
Eddy County, NM
nAPP2311446508
Karst Map

Legend

-  High Karst
-  Low Karst
-  Medium Karst

Cotton Draw Unit 605H



128

128

128

Google Earth

Image © 2024 Airbus



5 mi

Cotton Draw Unit #605H

Devon Energy
API #30-015-47297
Eddy County, NM
nAPP2311446508
Site Map 9/5/23

Legend

- Background sample
- Release area - 36 sqft
- Side wall samples
- Vertical sample

32.193764, -103.749564

Cotton Draw Unit 605H

SW1

SW4

CS1

SW2

SW3

BG1

Google Earth



NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is <50')								
DEVON ENERGY - COTTON DRAW UNIT #605H - nAPP2311446508								
Date: 9/5/2023		NM Approved Lab 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'	0.0575	ND	ND	1510	486	1996.058	63.5
	2'	0.736	ND	33.8	6500	2480	9014.536	ND
	3'	0.849	ND	33.8	4450	1570	6054.649	49.5
	4'	0.975	ND	40.9	6030	2280	8351.875	ND
SW 1	6"	0.0869	ND	ND	ND	ND	0.0869	ND
SW 2	6"	ND	ND	ND	ND	ND	0	ND
SW 3	6"	ND	ND	ND	ND	ND	0	ND
SW 4	6"	ND	ND	ND	ND	ND	0	ND
BG 1	6"	ND	ND	ND	ND	ND	0	ND

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is <50')									
DEVON ENERGY - COTTON DRAW UNIT #605H - nAPP2311446508									
Dates: 5/15/24 & 5/21/24			NM Approved Lab Results						
Sample ID	Date	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg
S1	5/15/2024	1'	ND	ND	ND	ND	ND	0	57.1
	5/15/2024	2'	ND	ND	ND	ND	ND	0	36.5
	5/15/2024	3'	ND	ND	ND	ND	ND	0	34.5
	5/15/2024	4'	ND	ND	ND	ND	ND	0	ND
S2	5/21/2024	1'	ND	ND	ND	ND	ND	0	ND
	5/21/2024	2'	ND	ND	ND	93.1	52.7	145.8	75.8
	5/21/2024	3'	ND	ND	ND	ND	ND	0	27.1
	5/21/2024	4'	ND	ND	ND	ND	ND	0	ND
SW1	5/15/2024	1'	ND	ND	ND	ND	ND	0	21.2
SW2	5/15/2024	1'	ND	ND	ND	ND	ND	0	27.5
SW3	5/15/2024	1'	ND	ND	ND	ND	ND	0	22.3
SW4	5/15/2024	1'	ND	ND	ND	ND	ND	0	33.6
SW1	5/21/2024	0-4' Comp	ND	ND	ND	ND	ND	0	ND
SW2	5/21/2024	0-4' Comp	ND	ND	ND	ND	ND	0	ND
SW3	5/21/2024	0-4' Comp	ND	ND	ND	ND	ND	0	ND
SW4	5/21/2024	0-4' Comp	ND	ND	ND	ND	ND	0	ND
BG1	5/15/2024	1'	ND	ND	ND	ND	ND	0	26.4

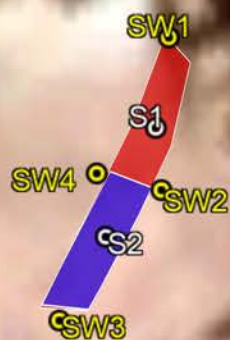
Cotton Draw Unit #605H

Devon Energy
API #30-015-47297
Eddy County, NM
nAPP2311446508
Proposed Excavation Map

Legend

- Background sample
- Excavation area - 18 sqft
- Horizontal delineation samples
- Release area - 36 sqft
- Vertical delineation samples

32.193764, -103.749564



BG1



30 ft

Google Earth

Appendix A

Water Surveys

Water Related Maps



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	Tw	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
C 04388 POD1		C	ED	3	2	1	23	24S	31E	617546	3564006	1245	910	868	42
C 04576 POD1		CUB	ED	1	2	1	23	24S	31E	617700	3564324	1556	910	850	60
C 04633 POD1		CUB	ED	2	1	1	35	24S	31E	617394	3561170	1624			
C 04636 POD1		CUB	ED	3	4	3	25	24S	31E	619200	3561279	2124			
C 04643 POD1		C	ED	4	2	2	05	23S	27E	619200	3561279	2124	305	135	170
C 04508 POD1		CUB	ED	4	4	3	15	24S	31E	616298	3564493	2212	110		
C 04654 POD1		CUB	ED	3	3	4	25	24S	31E	619764	3561226	2589	55		

Average Depth to Water: **617 feet**

Minimum Depth: **135 feet**

Maximum Depth: **868 feet**

Record Count: 7

UTM NAD83 Radius Search (in meters):

Easting (X): 617684.29

Northing (Y): 3562768.72

Radius: 3000

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

5/30/24 7:07 AM

WATER COLUMN/ AVERAGE DEPTH TO
WATER



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

OSE DIT FEB 27 2020 PM 5:04

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.)		WELL TAG ID NO. 22333		OSE FILE NO(S). C 04388		
	WELL OWNER NAME(S) Steve McCutcheon				PHONE (OPTIONAL)		
	WELL OWNER MAILING ADDRESS PO BOX 3175				CITY Carlsbad	STATE NM	
					ZIP 88221		
WELL LOCATION (FROM GPS)	DEGREES 32		MINUTES 4220 12	SECONDS 23.384111 N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND		
	LONGITUDE 103		4555 45	9.95 W	* DATUM REQUIRED: WGS 84		
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE							
2. DRILLING & CASING INFORMATION	LICENSE NO. WD1058		NAME OF LICENSED DRILLER GARY KEY			NAME OF WELL DRILLING COMPANY KEY'S DRILLING & PUMP SERVICE, INC	
	DRILLING STARTED 12/18/19	DRILLING ENDED 02/22/20	DEPTH OF COMPLETED WELL (FT) 910	BORE HOLE DEPTH (FT) 910	DEPTH WATER FIRST ENCOUNTERED (FT) 868		
	COMPLETED WELL IS: <input checked="" type="checkbox"/> ARTESIAN <input type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)				STATIC WATER LEVEL IN COMPLETED WELL (FT) 550		
	DRILLING FLUID: <input checked="" type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:						
	DRILLING METHOD: <input checked="" type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input type="checkbox"/> OTHER - SPECIFY:						
	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)
	FROM	TO					
	-1.5	50	16"	STEEL	WELD	10"	.250
	-1.5	816	9-7/8	STEEL	WELD	6"	.250
	810	850	9-7/8	STEEL	WELD	4.62	.188
850	910	9-7/8"	STEEL	WELD	4.62	.188	
3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT	
	FROM	TO					
	0	50	16"	CEMENT		HAND	
	280	817.5	9-7/8	CEMENT	303.75	PUMP PLUG	
	0	280	9-7/8"	CEMENT	135	TREMIE	

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 06/30/17)

FILE NO. C-4388	POD NO. 1	TRN NO. 664131
LOCATION Don 24-31.23.321	WELL TAG ID NO. 22333	PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
	FROM	TO				
	0	5	5	TOP SOIL	Y ✓ N	
	5	28	23	RED SAND	Y ✓ N	
	28	47	19	RED SANDSTONE	Y ✓ N	
	47	102	55	RED SANDSTONE & CLAY	Y ✓ N	
	102	210	108	RED SANDSTONE	Y ✓ N	
	210	325	115	RED & GARY SANDSTONE	Y ✓ N	
	325	332	37	ANHYDRITE	Y ✓ N	
	332	655	293	RED SANDSTONE	Y ✓ N	
	655	662	7	ANHYDRITE	Y ✓ N	
	662	670	8	GYPSUM & RED SANDSTONE	Y ✓ N	
	670	747	77	GYPSOM	Y ✓ N	
	747	770	23	GRAY SANDSTONE	Y ✓ N	
	770	866	94	LIMESTONE	Y ✓ N	
	866	868	2	WATER BEARING LIMESTONE	✓ Y N	60
	868	910	42	LIMESTONE	Y ✓ N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: <input checked="" type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input type="checkbox"/> OTHER - SPECIFY:					TOTAL ESTIMATED WELL YIELD (gpm): 60	

5. TEST; RIG SUPERVISION	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.
	MISCELLANEOUS INFORMATION: COMPLETED WELL W/94FT OPEN HOLE AND INSTALLED TEST PUMP. PUMPED 60GPM BUT BOTTOM OF HOLE WOULD NOT STAY OPEN. PULLED PUMP AND INSTALLED STEEL LINER TO STABILIZE HOLE.	
PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: CASEY KEY		

6. SIGNATURE	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT FOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING:	
	GARY KEY	2/27/2020
	SIGNATURE OF DRILLER / PRINT SIGNEE NAME	DATE

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 06/30/2017)






FILE NO. C-4388	POD NO. 1	TRN NO. 664131
LOCATION Dom 24.31.23.321	WELL TAG ID NO. 22333	PAGE 2 OF 2

OSE POD Location Map

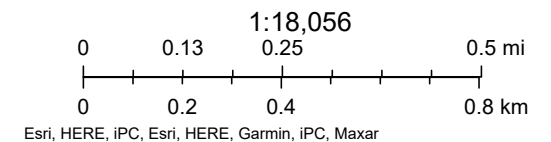


5/30/2024, 8:15:25 AM

GIS WATERS PODs

	OSE District Boundary		Artesian Planning Area
	Active		Closure Area
	Plugged		

Water Right Regulations





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

USGS Water Resources

Data Category:


Groundwater

Geographic Area:

United States

GO

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- [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.

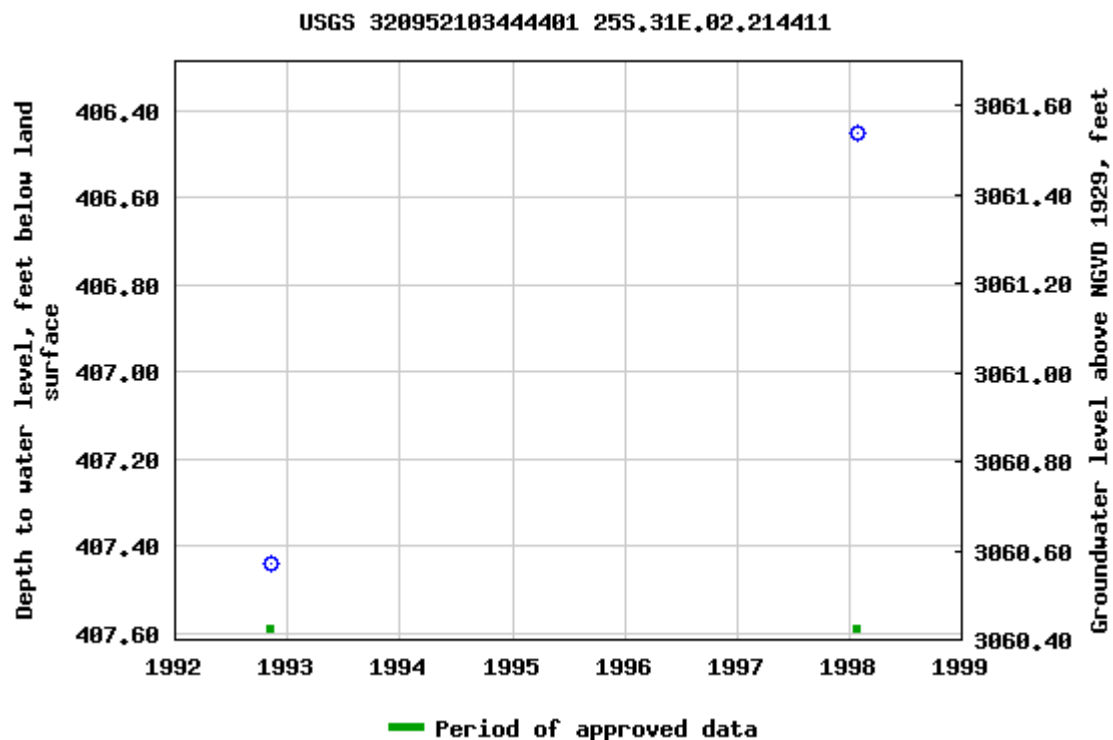
Output formats

[Table of data](#)

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

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Title: Groundwater for USA: Water Levels

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



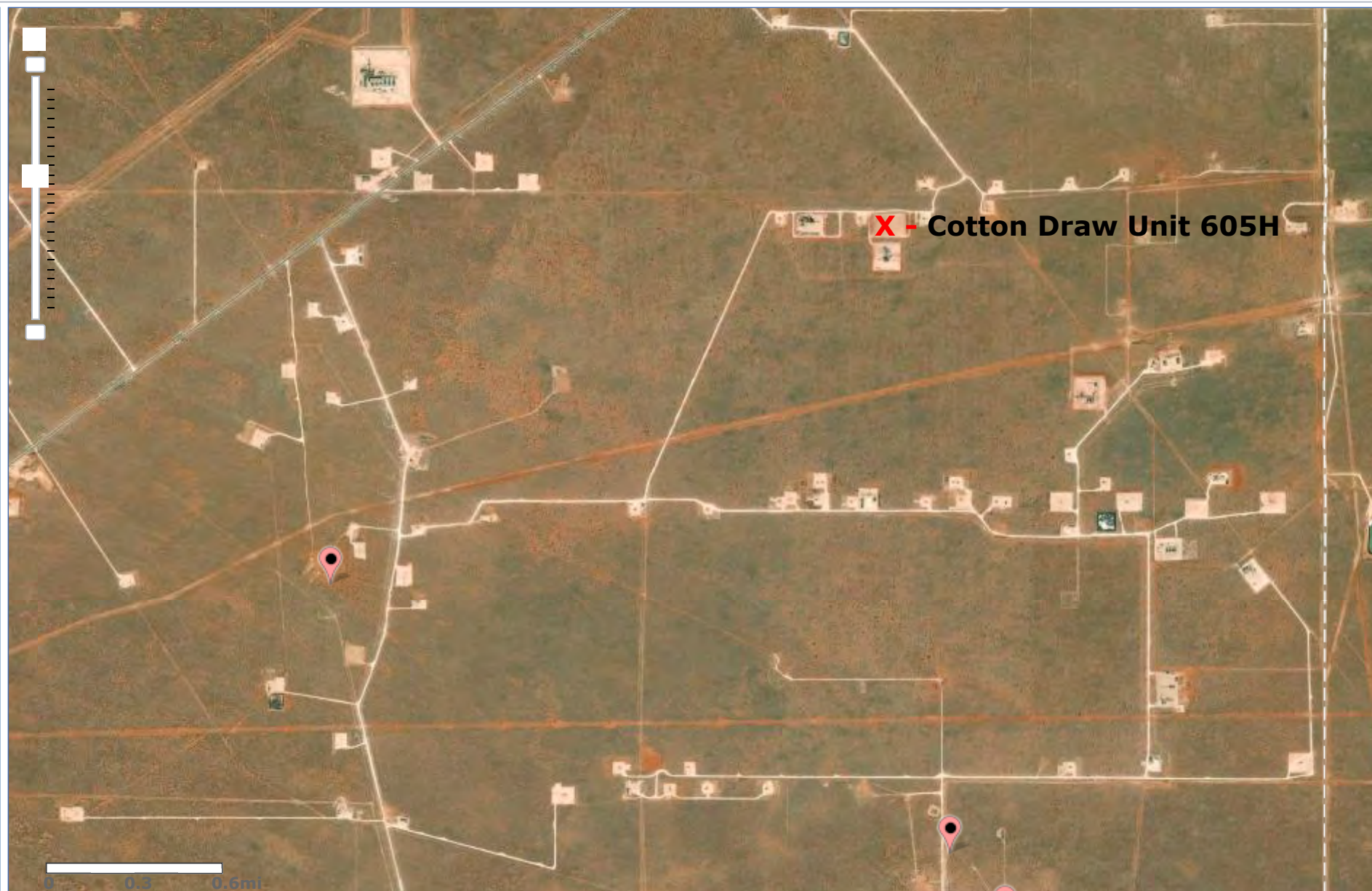
Page Contact Information: [USGS Water Data Support Team](#)

Page Last Modified: 2023-04-24 15:32:30 EDT

0.62 0.54 nadww02





National Water Information System: Mapper

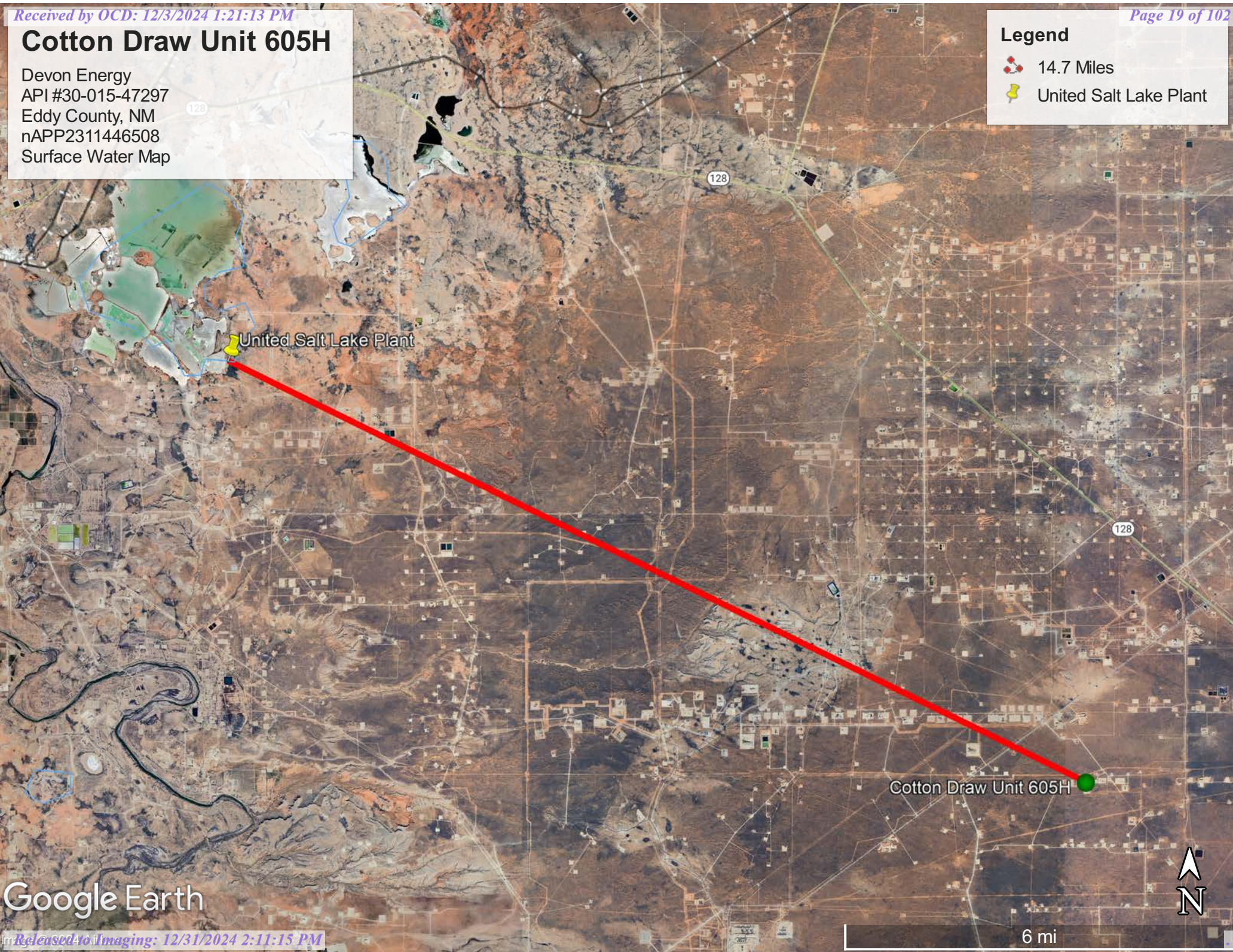


Cotton Draw Unit 605H

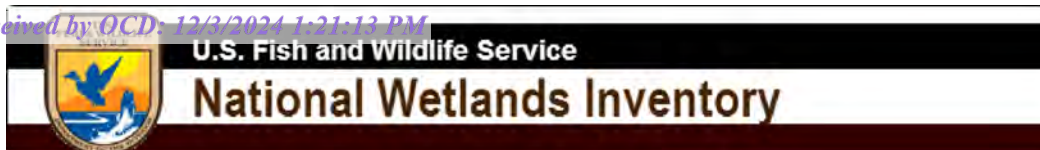
Devon Energy
API #30-015-47297
Eddy County, NM
nAPP2311446508
Surface Water Map

Legend

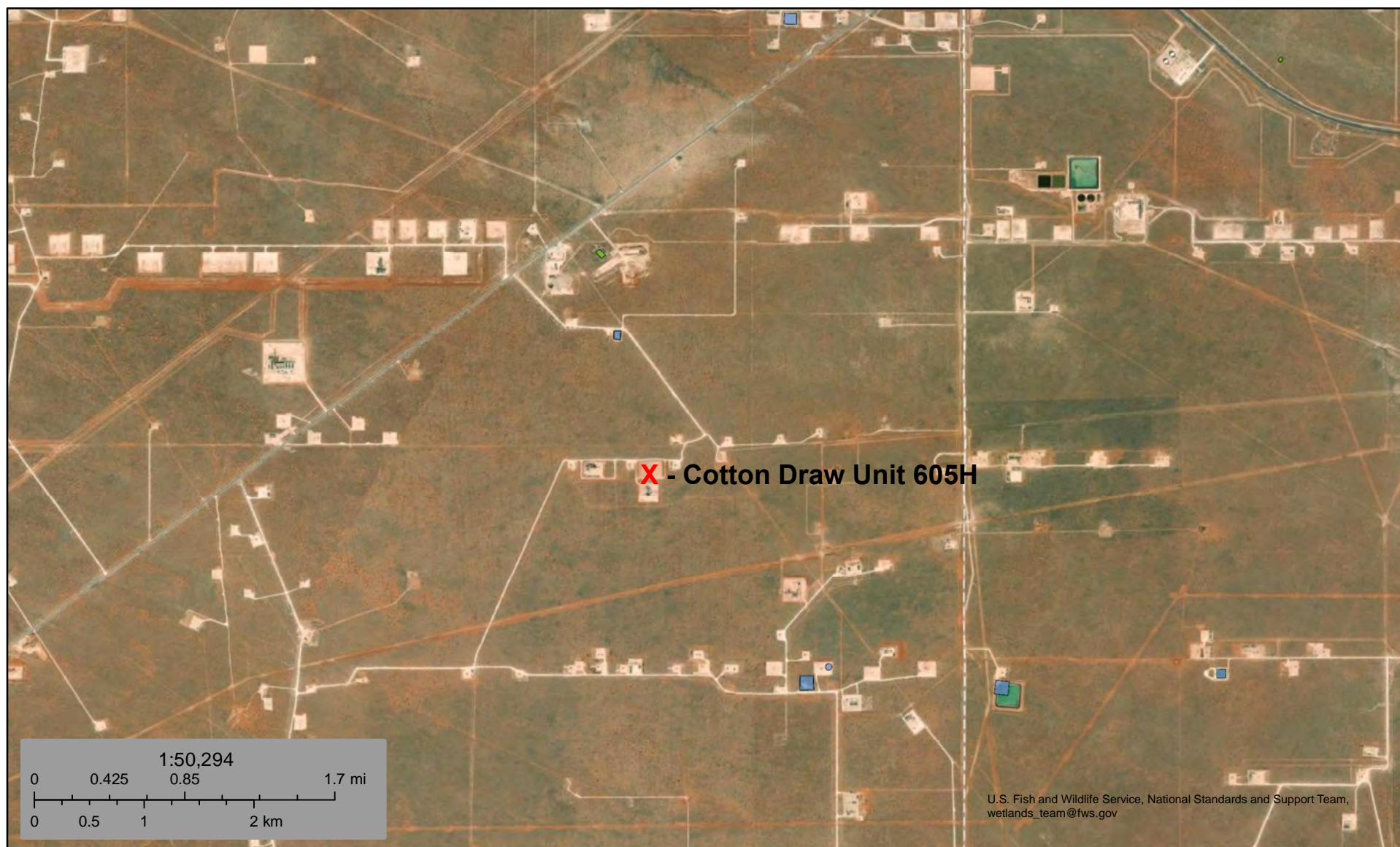
-  14.7 Miles
-  United Salt Lake Plant



Google Earth



Wetlands Map



May 21, 2024

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

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

- Lake
- Other
- Riverine

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

National Flood Hazard Layer FIRMette



103°45'27"W 32°11'55"N



1:6,000

103°44'50"W 32°11'24"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		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5 Cross Sections with 1% Annual Chance Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
		Profile Baseline
MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped



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

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 5/20/2024 at 8:41 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.

Appendix B

Soil Survey

Soil Map

Geologic Unit Map

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

Eddy Area, New Mexico

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

Map Unit Setting

National map unit symbol: 1w43

Elevation: 2,000 to 5,700 feet

Mean annual precipitation: 5 to 15 inches

Mean annual air temperature: 57 to 70 degrees F

Frost-free period: 180 to 260 days

Farmland classification: Not prime farmland

Map Unit Composition

Berino and similar soils: 60 percent

Pajarito and similar soils: 25 percent

Minor components: 15 percent

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

Description of Berino

Setting

Landform: Plains, fan piedmonts

Landform position (three-dimensional): Riser

Down-slope shape: Convex

Across-slope shape: Linear

Parent material: Mixed alluvium and/or eolian sands

Typical profile

H1 - 0 to 17 inches: fine sand

H2 - 17 to 58 inches: sandy clay loam

H3 - 58 to 60 inches: loamy sand

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained

Runoff class: Low

Capacity of the most limiting layer to transmit water

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

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum content: 40 percent

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

Sodium adsorption ratio, maximum: 1.0

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

Interpretive groups

Land capability classification (irrigated): None specified

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

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

Description of Pajarito

Setting

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

Typical profile

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

Properties and qualities

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

Interpretive groups

Land capability classification (irrigated): 2e
Land capability classification (nonirrigated): 7e
Hydrologic Soil Group: A
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Minor Components

Pajarito

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

Wink

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

Cacique

Percent of map unit: 4 percent

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

Ecological site: R070BD004NM - Sandy

Hydric soil rating: No

Kermit

Percent of map unit: 3 percent

Ecological site: R070BD005NM - Deep Sand

Hydric soil rating: No

Data Source Information

Soil Survey Area: Eddy Area, New Mexico

Survey Area Data: Version 18, Sep 8, 2022



Soil Map—Eddy Area, New Mexico



Soil Map—Eddy Area, New Mexico

MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)

Soils

 Soil Map Unit Polygons

 Soil Map Unit Lines

 Soil Map Unit Points

Special Point Features



Blowout



Borrow Pit



Clay Spot



Closed Depression



Gravel Pit



Gravelly Spot



Landfill



Lava Flow



Marsh or swamp



Mine or Quarry



Miscellaneous Water



Perennial Water



Rock Outcrop



Saline Spot



Sandy Spot



Severely Eroded Spot



Sinkhole



Slide or Slip



Sodic Spot



Spoil Area



Stony Spot



Very Stony Spot



Wet Spot



Other



Special Line Features

Water Features



Streams and Canals

Transportation



Rails



Interstate Highways



US Routes



Major Roads



Local Roads

Background



Aerial Photography

MAP INFORMATION

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

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

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

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

Source of Map: Natural Resources Conservation Service

Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

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

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

Soil Survey Area: Eddy Area, New Mexico

Survey Area Data: Version 19, Sep 7, 2023

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

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

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

Map Unit Legend

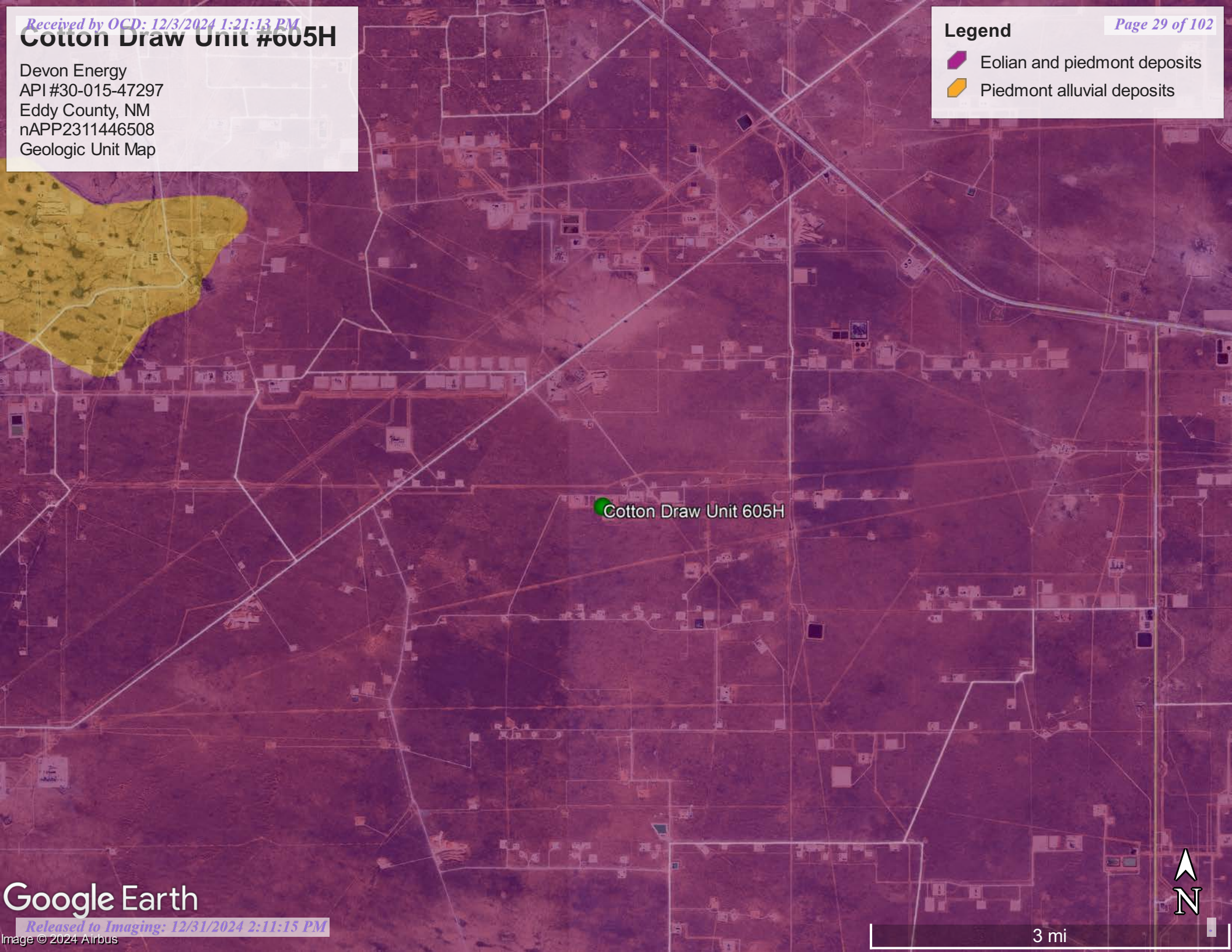
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
BB	Berino complex, 0 to 3 percent slopes, eroded	118.0	100.0%
Totals for Area of Interest		118.0	100.0%

Cotton Draw Unit #605H

Devon Energy
API #30-015-47297
Eddy County, NM
nAPP2311446508
Geologic Unit Map

Legend

- Eolian and piedmont deposits
- Piedmont alluvial deposits



Cotton Draw Unit 605H



Appendix C

Photographic Documentation

Photographic Documentation
Cotton Draw Unit #605H

Initial Release and Flowline Repair - 2023



**Photographic Documentation
Cotton Draw Unit #605H**



Reassessment 2024



**Photographic Documentation
Cotton Draw Unit #605H**



Flagging/Marking – August 2024



Photographic Documentation
Cotton Draw Unit #605H



Appendix D

Laboratory Reports

Report to:
Tom Bynum



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Pima Environmental Services-Carlsbad

Project Name: Cotton Draw Unit 605H

Work Order: E309044

Job Number: 01058-0007

Received: 9/7/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
9/13/23

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: 9/13/23

Tom Bynum
PO Box 247
Plains, TX 79355-0247



Project Name: Cotton Draw Unit 605H
Workorder: E309044
Date Received: 9/7/2023 8:15:00AM

Tom Bynum,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/7/2023 8:15:00AM, under the Project Name: Cotton Draw Unit 605H.

The analytical test results summarized in this report with the Project Name: Cotton Draw Unit 605H 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
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Cell: 775-287-1762
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Sample Summary

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 605H	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	09/13/23 14:48

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
S1 - 1	E309044-01A	Soil	09/05/23	09/07/23	Glass Jar, 2 oz.
S1 - 2	E309044-02A	Soil	09/05/23	09/07/23	Glass Jar, 2 oz.
S1 - 3	E309044-03A	Soil	09/05/23	09/07/23	Glass Jar, 32 oz.
S1 - 4	E309044-04A	Soil	09/05/23	09/07/23	Glass Jar, 2 oz.
SW1	E309044-05A	Soil	09/05/23	09/07/23	Glass Jar, 2 oz.
SW2	E309044-06A	Soil	09/05/23	09/07/23	Glass Jar, 2 oz.
SW3	E309044-07A	Soil	09/05/23	09/07/23	Glass Jar, 2 oz.
SW4	E309044-08A	Soil	09/05/23	09/07/23	Glass Jar, 2 oz.
BG1	E309044-09A	Soil	09/05/23	09/07/23	Glass Jar, 2 oz.



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 605H	Reported: 9/13/2023 2:48:33PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

S1 - 1

E309044-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2336095	
Benzene	ND	0.0250	1	09/09/23	09/11/23	
Ethylbenzene	ND	0.0250	1	09/09/23	09/11/23	
Toluene	ND	0.0250	1	09/09/23	09/11/23	
o-Xylene	ND	0.0250	1	09/09/23	09/11/23	
p,m-Xylene	0.0575	0.0500	1	09/09/23	09/11/23	
Total Xylenes	0.0575	0.0250	1	09/09/23	09/11/23	
Surrogate: 4-Bromochlorobenzene-PID	95.8 %	70-130		09/09/23	09/11/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2336095	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/09/23	09/11/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	93.0 %	70-130		09/09/23	09/11/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2337003	
Diesel Range Organics (C10-C28)	1510	25.0	1	09/11/23	09/11/23	
Oil Range Organics (C28-C36)	486	50.0	1	09/11/23	09/11/23	
Surrogate: n-Nonane	106 %	50-200		09/11/23	09/11/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2337012	
Chloride	63.5	20.0	1	09/11/23	09/12/23	



Sample Data

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

Project Name: Cotton Draw Unit 605H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
9/13/2023 2:48:33PM

S1 - 2

E309044-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2336095
Benzene	ND	0.0250	1	09/09/23	09/11/23	
Ethylbenzene	0.178	0.0250	1	09/09/23	09/11/23	
Toluene	ND	0.0250	1	09/09/23	09/11/23	
o-Xylene	0.109	0.0250	1	09/09/23	09/11/23	
p,m-Xylene	0.627	0.0500	1	09/09/23	09/11/23	
Total Xylenes	0.736	0.0250	1	09/09/23	09/11/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		104 %	70-130	09/09/23	09/11/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2336095
Gasoline Range Organics (C6-C10)	33.8	20.0	1	09/09/23	09/11/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		96.9 %	70-130	09/09/23	09/11/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2337003
Diesel Range Organics (C10-C28)	6500	500	20	09/11/23	09/13/23	
Oil Range Organics (C28-C36)	2480	1000	20	09/11/23	09/13/23	
<i>Surrogate: n-Nonane</i>						
		103 %	50-200	09/11/23	09/13/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2337012
Chloride	ND	20.0	1	09/11/23	09/12/23	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 605H	Reported: 9/13/2023 2:48:33PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

S1 - 3

E309044-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2336095	
Benzene	ND	0.0250	1	09/09/23	09/11/23	
Ethylbenzene	0.181	0.0250	1	09/09/23	09/11/23	
Toluene	0.0289	0.0250	1	09/09/23	09/11/23	
o-Xylene	0.180	0.0250	1	09/09/23	09/11/23	
p,m-Xylene	0.669	0.0500	1	09/09/23	09/11/23	
Total Xylenes	0.849	0.0250	1	09/09/23	09/11/23	
Surrogate: 4-Bromochlorobenzene-PID	102 %	70-130		09/09/23	09/11/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2336095	
Gasoline Range Organics (C6-C10)	33.8	20.0	1	09/09/23	09/11/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	95.9 %	70-130		09/09/23	09/11/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2337003	
Diesel Range Organics (C10-C28)	4450	250	10	09/11/23	09/13/23	
Oil Range Organics (C28-C36)	1570	500	10	09/11/23	09/13/23	
Surrogate: n-Nonane	92.5 %	50-200		09/11/23	09/13/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2337012	
Chloride	49.5	20.0	1	09/11/23	09/12/23	



Sample Data

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

Project Name: Cotton Draw Unit 605H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
9/13/2023 2:48:33PM

S1 - 4

E309044-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2336095
Benzene	ND	0.0250	1	09/09/23	09/11/23	
Ethylbenzene	0.203	0.0250	1	09/09/23	09/11/23	
Toluene	ND	0.0250	1	09/09/23	09/11/23	
o-Xylene	0.186	0.0250	1	09/09/23	09/11/23	
p,m-Xylene	0.789	0.0500	1	09/09/23	09/11/23	
Total Xylenes	0.975	0.0250	1	09/09/23	09/11/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		106 %	70-130	09/09/23	09/11/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2336095
Gasoline Range Organics (C6-C10)	40.9	20.0	1	09/09/23	09/11/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		96.3 %	70-130	09/09/23	09/11/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2337003
Diesel Range Organics (C10-C28)	6030	500	20	09/11/23	09/13/23	
Oil Range Organics (C28-C36)	2280	1000	20	09/11/23	09/13/23	
<i>Surrogate: n-Nonane</i>						
		98.5 %	50-200	09/11/23	09/13/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2337012
Chloride	ND	20.0	1	09/11/23	09/12/23	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 605H	Reported: 9/13/2023 2:48:33PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

SW1

E309044-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2336095	
Benzene	ND	0.0250	1	09/09/23	09/11/23	
Ethylbenzene	0.0422	0.0250	1	09/09/23	09/11/23	
Toluene	ND	0.0250	1	09/09/23	09/11/23	
o-Xylene	0.0869	0.0250	1	09/09/23	09/11/23	
p,m-Xylene	ND	0.0500	1	09/09/23	09/11/23	
Total Xylenes	0.0869	0.0250	1	09/09/23	09/11/23	
Surrogate: 4-Bromochlorobenzene-PID	94.1 %	70-130		09/09/23	09/11/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2336095	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/09/23	09/11/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	93.0 %	70-130		09/09/23	09/11/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2337003	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/11/23	09/13/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/11/23	09/13/23	
Surrogate: n-Nonane	102 %	50-200		09/11/23	09/13/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2337012	
Chloride	ND	20.0	1	09/11/23	09/12/23	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 605H	Reported: 9/13/2023 2:48:33PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

SW2

E309044-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2336095
Benzene	ND	0.0250	1	09/09/23	09/11/23	
Ethylbenzene	ND	0.0250	1	09/09/23	09/11/23	
Toluene	ND	0.0250	1	09/09/23	09/11/23	
o-Xylene	ND	0.0250	1	09/09/23	09/11/23	
p,m-Xylene	ND	0.0500	1	09/09/23	09/11/23	
Total Xylenes	ND	0.0250	1	09/09/23	09/11/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.7 %	70-130		09/09/23	09/11/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2336095
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/09/23	09/11/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.9 %	70-130		09/09/23	09/11/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2337003
Diesel Range Organics (C10-C28)	ND	25.0	1	09/11/23	09/13/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/11/23	09/13/23	
<i>Surrogate: n-Nonane</i>						
	103 %	50-200		09/11/23	09/13/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2337012
Chloride	ND	20.0	1	09/11/23	09/12/23	



Sample Data

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

Project Name: Cotton Draw Unit 605H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
9/13/2023 2:48:33PM

SW3

E309044-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2336095
Benzene	ND	0.0250	1	09/09/23	09/11/23	
Ethylbenzene	ND	0.0250	1	09/09/23	09/11/23	
Toluene	ND	0.0250	1	09/09/23	09/11/23	
o-Xylene	ND	0.0250	1	09/09/23	09/11/23	
p,m-Xylene	ND	0.0500	1	09/09/23	09/11/23	
Total Xylenes	ND	0.0250	1	09/09/23	09/11/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.8 %	70-130		09/09/23	09/11/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2336095
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/09/23	09/11/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.5 %	70-130		09/09/23	09/11/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2337003
Diesel Range Organics (C10-C28)	ND	25.0	1	09/11/23	09/12/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/11/23	09/12/23	
<i>Surrogate: n-Nonane</i>						
	101 %	50-200		09/11/23	09/12/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2337012
Chloride	ND	20.0	1	09/11/23	09/12/23	



Sample Data

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

Project Name: Cotton Draw Unit 605H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
9/13/2023 2:48:33PM

SW4

E309044-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2336095
Benzene	ND	0.0250	1	09/09/23	09/11/23	
Ethylbenzene	ND	0.0250	1	09/09/23	09/11/23	
Toluene	ND	0.0250	1	09/09/23	09/11/23	
o-Xylene	ND	0.0250	1	09/09/23	09/11/23	
p,m-Xylene	ND	0.0500	1	09/09/23	09/11/23	
Total Xylenes	ND	0.0250	1	09/09/23	09/11/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.4 %	70-130		09/09/23	09/11/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2336095
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/09/23	09/11/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.4 %	70-130		09/09/23	09/11/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2337003
Diesel Range Organics (C10-C28)	ND	25.0	1	09/11/23	09/12/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/11/23	09/12/23	
<i>Surrogate: n-Nonane</i>						
	101 %	50-200		09/11/23	09/12/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2337012
Chloride	ND	20.0	1	09/11/23	09/12/23	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Cotton Draw Unit 605H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 9/13/2023 2:48:33PM
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BG1

E309044-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2336095
Benzene	ND	0.0250	1	09/09/23	09/11/23	
Ethylbenzene	ND	0.0250	1	09/09/23	09/11/23	
Toluene	ND	0.0250	1	09/09/23	09/11/23	
o-Xylene	ND	0.0250	1	09/09/23	09/11/23	
p,m-Xylene	ND	0.0500	1	09/09/23	09/11/23	
Total Xylenes	ND	0.0250	1	09/09/23	09/11/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.8 %	70-130		09/09/23	09/11/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2336095
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/09/23	09/11/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.1 %	70-130		09/09/23	09/11/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2337003
Diesel Range Organics (C10-C28)	ND	25.0	1	09/11/23	09/12/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/11/23	09/12/23	
<i>Surrogate: n-Nonane</i>						
	104 %	50-200		09/11/23	09/12/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2337012
Chloride	ND	20.0	1	09/11/23	09/12/23	



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 605H	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	9/13/2023 2:48:33PM

Volatile Organics by EPA 8021B

Analyst: RKS

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

Blank (2336095-BLK1) Prepared: 09/09/23 Analyzed: 09/11/23

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.53		8.00		94.1	70-130			

LCS (2336095-BS1) Prepared: 09/09/23 Analyzed: 09/11/23

Benzene	4.75	0.0250	5.00		95.0	70-130			
Ethylbenzene	4.75	0.0250	5.00		95.0	70-130			
Toluene	4.77	0.0250	5.00		95.4	70-130			
o-Xylene	4.76	0.0250	5.00		95.2	70-130			
p,m-Xylene	9.70	0.0500	10.0		97.0	70-130			
Total Xylenes	14.5	0.0250	15.0		96.4	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.59		8.00		94.9	70-130			

Matrix Spike (2336095-MS1) Source: E309039-01 Prepared: 09/09/23 Analyzed: 09/11/23

Benzene	4.65	0.0250	5.00	ND	93.0	54-133			
Ethylbenzene	4.66	0.0250	5.00	ND	93.1	61-133			
Toluene	4.70	0.0250	5.00	ND	94.0	61-130			
o-Xylene	4.68	0.0250	5.00	ND	93.6	63-131			
p,m-Xylene	9.53	0.0500	10.0	ND	95.3	63-131			
Total Xylenes	14.2	0.0250	15.0	ND	94.7	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.40		8.00		92.5	70-130			

Matrix Spike Dup (2336095-MSD1) Source: E309039-01 Prepared: 09/09/23 Analyzed: 09/11/23

Benzene	4.49	0.0250	5.00	ND	89.8	54-133	3.55	20	
Ethylbenzene	4.48	0.0250	5.00	ND	89.5	61-133	3.94	20	
Toluene	4.51	0.0250	5.00	ND	90.3	61-130	4.06	20	
o-Xylene	4.50	0.0250	5.00	ND	90.0	63-131	3.84	20	
p,m-Xylene	9.15	0.0500	10.0	ND	91.5	63-131	4.03	20	
Total Xylenes	13.7	0.0250	15.0	ND	91.0	63-131	3.97	20	
Surrogate: 4-Bromochlorobenzene-PID	7.36		8.00		92.1	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 605H	Reported: 9/13/2023 2:48:33PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2336095-BLK1) Prepared: 09/09/23 Analyzed: 09/11/23

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

LCS (2336095-BS2) Prepared: 09/09/23 Analyzed: 09/11/23

Gasoline Range Organics (C6-C10)	47.9	20.0	50.0		95.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.64		8.00		95.5	70-130			

Matrix Spike (2336095-MS2) Source: E309039-01 Prepared: 09/09/23 Analyzed: 09/11/23

Gasoline Range Organics (C6-C10)	48.3	20.0	50.0	ND	96.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.71		8.00		96.4	70-130			

Matrix Spike Dup (2336095-MSD2) Source: E309039-01 Prepared: 09/09/23 Analyzed: 09/11/23

Gasoline Range Organics (C6-C10)	46.2	20.0	50.0	ND	92.5	70-130	4.43	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.60		8.00		95.1	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 605H	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	9/13/2023 2:48:33PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2337003-BLK1)					Prepared: 09/11/23 Analyzed: 09/11/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	63.3		50.0		127	50-200			

LCS (2337003-BS1)					Prepared: 09/11/23 Analyzed: 09/11/23				
Diesel Range Organics (C10-C28)	267	25.0	250		107	38-132			
Surrogate: n-Nonane	50.6		50.0		101	50-200			

Matrix Spike (2337003-MS1)					Source: E309042-02		Prepared: 09/11/23 Analyzed: 09/11/23		
Diesel Range Organics (C10-C28)	268	25.0	250	ND	107	38-132			
Surrogate: n-Nonane	52.0		50.0		104	50-200			

Matrix Spike Dup (2337003-MSD1)					Source: E309042-02		Prepared: 09/11/23 Analyzed: 09/11/23		
Diesel Range Organics (C10-C28)	266	25.0	250	ND	107	38-132	0.651	20	
Surrogate: n-Nonane	51.6		50.0		103	50-200			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 605H	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	9/13/2023 2:48:33PM

Anions by EPA 300.0/9056A

Analyst: BA

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

Blank (2337012-BLK1)					Prepared: 09/11/23 Analyzed: 09/11/23				
Chloride	ND	20.0							
LCS (2337012-BS1)					Prepared: 09/11/23 Analyzed: 09/11/23				
Chloride	244	20.0	250		97.5	90-110			
Matrix Spike (2337012-MS1)					Source: E309039-01		Prepared: 09/11/23 Analyzed: 09/11/23		
Chloride	587	200	250	361	90.2	80-120			
Matrix Spike Dup (2337012-MSD1)					Source: E309039-01		Prepared: 09/11/23 Analyzed: 09/11/23		
Chloride	636	200	250	361	110	80-120	8.12	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 605H	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	09/13/23 14:48

- 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 1

Client: Pima Environmental Services
 Project: CDU 605H
 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:

Attention: Devon
 Address:
 City, State, Zip
 Phone:
 Email:
 Pima Project # 297

E309044 | 01058-0007

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Analysis and Method										EPA Program				
						DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	1D	2D	3D	Standard	CWA	SDWA	RCRA
8:00	9/5	S	1	SI-1	1							X								
8:05			2	SI-2	2															
8:07			3	SI-3	3															
8:11			4	SI-4	4															
8:13			5	SW1	5															
8:15			6	SW2	6															
8:16			7	SW3	7															
8:19			8	SW4	8															
8:22			9	BG1	9															

Additional Instructions:

Billing# 21155757

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

Sampled by:

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 5 °C on subsequent days.

Relinquished by: (Signature) <u>Karime Adams</u>	Date <u>9/6/23</u>	Time <u>1:00</u>	Received by: (Signature) <u>Michelle Camp</u>	Date <u>9-6-23</u>	Time <u>1:30</u>
Relinquished by: (Signature) <u>Michelle Camp</u>	Date <u>9-6-23</u>	Time <u>1:30</u>	Received by: (Signature) <u>Andrew Messo</u>	Date <u>9-6-23</u>	Time <u>1:600</u>
Relinquished by: (Signature) <u>Andrew Messo</u>	Date <u>9-7-23</u>	Time <u>0100</u>	Received by: (Signature) <u>Cathy Mac</u>	Date <u>9/7/23</u>	Time <u>8:15</u>

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

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

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



Project Information

Chain of Custody

Page 1 of 1

Client: Pima Environmental Services
 Project: CDU 605H
 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
 Address:
 City, State, Zip
 Phone:
 Email:
 Pima Project # 297

E309044 | 01058-0007

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/ORO	GRO/DRO	BTEX by	VOC by	Metals & Chloride		BGDOC	BGDOC	Remarks
8:00	9/5	S	1	SI-1	1							X		Corrected
8:05			2	SI-2	2									No. of Containers.
8:07			3	SI-3	3									9/7/23 CM
8:11			4	SI-4	4									
8:13			5	SW1	5									
8:15			6	SW2	6									
8:16			7	SW3	7									
8:19			8	SW4	8									
8:22	↓	↓	9	BG1	9									

Additional Instructions:

Billing# 21155757

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

Sampled by:

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 5 °C on subsequent days.

Relinquished by: (Signature) <u>Varime Adams</u>	Date <u>9/6/23</u>	Time <u>1:00</u>	Received by: (Signature) <u>Michelle Camp</u>	Date <u>9-6-23</u>	Time <u>1:30</u>	Lab Use Only Received on ice: <u>Y/N</u> TL _____ TL _____ TL _____ AVG Temp °C <u>4</u>
Relinquished by: (Signature) <u>Michelle Camp</u>	Date <u>9-6-23</u>	Time <u>1530</u>	Received by: (Signature) <u>Steven Mlysa</u>	Date <u>9-6-23</u>	Time <u>1600</u>	
Relinquished by: (Signature) <u>Steven Mlysa</u>	Date <u>9-7-23</u>	Time <u>0600</u>	Received by: (Signature) <u>Cathy Mac</u>	Date <u>9/7/23</u>	Time <u>8:15</u>	

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

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

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



Envirotech Analytical Laboratory

Printed: 9/7/2023 9:31:58AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Pima Environmental Services-Carlsbad	Date Received:	09/07/23 08:15	Work Order ID:	E309044
Phone:	(575) 631-6977	Date Logged In:	09/06/23 15:42	Logged In By:	Caitlin Mars
Email:	tom@pimaoil.com	Due Date:	09/13/23 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/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:
Gio Gomez



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Pima Environmental Services-Carlsbad

Project Name: Cotton Draw Unit 605

Work Order: E405247

Job Number: 01058-0007

Received: 5/17/2024

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
5/29/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 5/29/24

Gio Gomez
PO Box 247
Plains, TX 79355-0247



Project Name: Cotton Draw Unit 605
Workorder: E405247
Date Received: 5/17/2024 7:45:00AM

Gio Gomez,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/17/2024 7:45:00AM, under the Project Name: Cotton Draw Unit 605.

The analytical test results summarized in this report with the Project Name: Cotton Draw Unit 605 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
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Sample Summary

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 605	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	05/29/24 12:04

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
S1 - 1'	E405247-01A	Soil	05/15/24	05/17/24	Glass Jar, 2 oz.
S1 - 2'	E405247-02A	Soil	05/15/24	05/17/24	Glass Jar, 2 oz.
S1 - 3'	E405247-03A	Soil	05/15/24	05/17/24	Glass Jar, 2 oz.
S1 - 4'	E405247-04A	Soil	05/15/24	05/17/24	Glass Jar, 2 oz.
SW1	E405247-05A	Soil	05/15/24	05/17/24	Glass Jar, 2 oz.
SW2	E405247-06A	Soil	05/15/24	05/17/24	Glass Jar, 2 oz.
SW3	E405247-07A	Soil	05/15/24	05/17/24	Glass Jar, 2 oz.
SW4	E405247-08A	Soil	05/15/24	05/17/24	Glass Jar, 2 oz.
BG1	E405247-09A	Soil	05/15/24	05/17/24	Glass Jar, 2 oz.



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Cotton Draw Unit 605 Project Number: 01058-0007 Project Manager: Gio Gomez	Reported: 5/29/2024 12:04:48PM
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S1 - 1'

E405247-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2421054	
Benzene	ND	0.0250	1	05/21/24	05/25/24	
Ethylbenzene	ND	0.0250	1	05/21/24	05/25/24	
Toluene	ND	0.0250	1	05/21/24	05/25/24	
o-Xylene	ND	0.0250	1	05/21/24	05/25/24	
p,m-Xylene	ND	0.0500	1	05/21/24	05/25/24	
Total Xylenes	ND	0.0250	1	05/21/24	05/25/24	
Surrogate: 4-Bromochlorobenzene-PID	94.0 %	70-130		05/21/24	05/25/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2421054	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/21/24	05/25/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	106 %	70-130		05/21/24	05/25/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2421069	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/22/24	05/23/24	
Oil Range Organics (C28-C36)	ND	50.0	1	05/22/24	05/23/24	
Surrogate: n-Nonane	115 %	50-200		05/22/24	05/23/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2421094	
Chloride	57.1	20.0	1	05/22/24	05/22/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 605	Reported: 5/29/2024 12:04:48PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

S1 - 2'

E405247-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2421054	
Benzene	ND	0.0250	1	05/21/24	05/25/24	
Ethylbenzene	ND	0.0250	1	05/21/24	05/25/24	
Toluene	ND	0.0250	1	05/21/24	05/25/24	
o-Xylene	ND	0.0250	1	05/21/24	05/25/24	
p,m-Xylene	ND	0.0500	1	05/21/24	05/25/24	
Total Xylenes	ND	0.0250	1	05/21/24	05/25/24	
Surrogate: 4-Bromochlorobenzene-PID	92.7 %	70-130		05/21/24	05/25/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2421054	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/21/24	05/25/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	106 %	70-130		05/21/24	05/25/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2421069	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/22/24	05/23/24	
Oil Range Organics (C28-C36)	ND	50.0	1	05/22/24	05/23/24	
Surrogate: n-Nonane	114 %	50-200		05/22/24	05/23/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2421094	
Chloride	36.5	20.0	1	05/22/24	05/22/24	



Sample Data

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

Project Name: Cotton Draw Unit 605
Project Number: 01058-0007
Project Manager: Gio Gomez

Reported:
5/29/2024 12:04:48PM

S1 - 3'

E405247-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2421054
Benzene	ND	0.0250	1	05/21/24	05/25/24	
Ethylbenzene	ND	0.0250	1	05/21/24	05/25/24	
Toluene	ND	0.0250	1	05/21/24	05/25/24	
o-Xylene	ND	0.0250	1	05/21/24	05/25/24	
p,m-Xylene	ND	0.0500	1	05/21/24	05/25/24	
Total Xylenes	ND	0.0250	1	05/21/24	05/25/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	91.9 %	70-130		05/21/24	05/25/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2421054
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/21/24	05/25/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	107 %	70-130		05/21/24	05/25/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2421069
Diesel Range Organics (C10-C28)	ND	25.0	1	05/22/24	05/23/24	
Oil Range Organics (C28-C36)	ND	50.0	1	05/22/24	05/23/24	
<i>Surrogate: n-Nonane</i>						
	109 %	50-200		05/22/24	05/23/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2421094
Chloride	34.5	20.0	1	05/22/24	05/22/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 605	Reported: 5/29/2024 12:04:48PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

S1 - 4'

E405247-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2421054	
Benzene	ND	0.0250	1	05/21/24	05/25/24	
Ethylbenzene	ND	0.0250	1	05/21/24	05/25/24	
Toluene	ND	0.0250	1	05/21/24	05/25/24	
o-Xylene	ND	0.0250	1	05/21/24	05/25/24	
p,m-Xylene	ND	0.0500	1	05/21/24	05/25/24	
Total Xylenes	ND	0.0250	1	05/21/24	05/25/24	
Surrogate: 4-Bromochlorobenzene-PID	91.6 %	70-130		05/21/24	05/25/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2421054	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/21/24	05/25/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	106 %	70-130		05/21/24	05/25/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2421069	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/22/24	05/23/24	
Oil Range Organics (C28-C36)	ND	50.0	1	05/22/24	05/23/24	
Surrogate: n-Nonane	112 %	50-200		05/22/24	05/23/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2421094	
Chloride	ND	20.0	1	05/22/24	05/22/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 605	Reported: 5/29/2024 12:04:48PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

SW1

E405247-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2421054	
Benzene	ND	0.0250	1	05/21/24	05/25/24	
Ethylbenzene	ND	0.0250	1	05/21/24	05/25/24	
Toluene	ND	0.0250	1	05/21/24	05/25/24	
o-Xylene	ND	0.0250	1	05/21/24	05/25/24	
p,m-Xylene	ND	0.0500	1	05/21/24	05/25/24	
Total Xylenes	ND	0.0250	1	05/21/24	05/25/24	
Surrogate: 4-Bromochlorobenzene-PID	91.2 %	70-130		05/21/24	05/25/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2421054	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/21/24	05/25/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	106 %	70-130		05/21/24	05/25/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2421069	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/22/24	05/23/24	
Oil Range Organics (C28-C36)	ND	50.0	1	05/22/24	05/23/24	
Surrogate: n-Nonane	109 %	50-200		05/22/24	05/23/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2421094	
Chloride	21.2	20.0	1	05/22/24	05/22/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 605	Reported: 5/29/2024 12:04:48PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

SW2

E405247-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2421054	
Benzene	ND	0.0250	1	05/21/24	05/25/24	
Ethylbenzene	ND	0.0250	1	05/21/24	05/25/24	
Toluene	ND	0.0250	1	05/21/24	05/25/24	
o-Xylene	ND	0.0250	1	05/21/24	05/25/24	
p,m-Xylene	ND	0.0500	1	05/21/24	05/25/24	
Total Xylenes	ND	0.0250	1	05/21/24	05/25/24	
Surrogate: 4-Bromochlorobenzene-PID	91.3 %	70-130		05/21/24	05/25/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2421054	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/21/24	05/25/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	107 %	70-130		05/21/24	05/25/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2421069	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/22/24	05/23/24	
Oil Range Organics (C28-C36)	ND	50.0	1	05/22/24	05/23/24	
Surrogate: n-Nonane	110 %	50-200		05/22/24	05/23/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2421094	
Chloride	27.5	20.0	1	05/22/24	05/22/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 605	Reported: 5/29/2024 12:04:48PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

SW3

E405247-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2421054	
Benzene	ND	0.0250	1	05/21/24	05/25/24	
Ethylbenzene	ND	0.0250	1	05/21/24	05/25/24	
Toluene	ND	0.0250	1	05/21/24	05/25/24	
o-Xylene	ND	0.0250	1	05/21/24	05/25/24	
p,m-Xylene	ND	0.0500	1	05/21/24	05/25/24	
Total Xylenes	ND	0.0250	1	05/21/24	05/25/24	
Surrogate: 4-Bromochlorobenzene-PID	91.1 %	70-130		05/21/24	05/25/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2421054	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/21/24	05/25/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	109 %	70-130		05/21/24	05/25/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2421069	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/22/24	05/23/24	
Oil Range Organics (C28-C36)	ND	50.0	1	05/22/24	05/23/24	
Surrogate: n-Nonane	110 %	50-200		05/22/24	05/23/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2421094	
Chloride	22.3	20.0	1	05/22/24	05/22/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 605	Reported: 5/29/2024 12:04:48PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

SW4

E405247-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2421054	
Benzene	ND	0.0250	1	05/21/24	05/25/24	
Ethylbenzene	ND	0.0250	1	05/21/24	05/25/24	
Toluene	ND	0.0250	1	05/21/24	05/25/24	
o-Xylene	ND	0.0250	1	05/21/24	05/25/24	
p,m-Xylene	ND	0.0500	1	05/21/24	05/25/24	
Total Xylenes	ND	0.0250	1	05/21/24	05/25/24	
Surrogate: 4-Bromochlorobenzene-PID	91.6 %	70-130		05/21/24	05/25/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2421054	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/21/24	05/25/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	106 %	70-130		05/21/24	05/25/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2421069	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/22/24	05/23/24	
Oil Range Organics (C28-C36)	ND	50.0	1	05/22/24	05/23/24	
Surrogate: n-Nonane	113 %	50-200		05/22/24	05/23/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2421094	
Chloride	33.6	20.0	1	05/22/24	05/22/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 605	Reported: 5/29/2024 12:04:48PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

BG1

E405247-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2421054	
Benzene	ND	0.0250	1	05/21/24	05/25/24	
Ethylbenzene	ND	0.0250	1	05/21/24	05/25/24	
Toluene	ND	0.0250	1	05/21/24	05/25/24	
o-Xylene	ND	0.0250	1	05/21/24	05/25/24	
p,m-Xylene	ND	0.0500	1	05/21/24	05/25/24	
Total Xylenes	ND	0.0250	1	05/21/24	05/25/24	
Surrogate: 4-Bromochlorobenzene-PID	91.9 %	70-130		05/21/24	05/25/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2421054	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/21/24	05/25/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	107 %	70-130		05/21/24	05/25/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2421069	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/22/24	05/23/24	
Oil Range Organics (C28-C36)	ND	50.0	1	05/22/24	05/23/24	
Surrogate: n-Nonane	105 %	50-200		05/22/24	05/23/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2421094	
Chloride	26.4	20.0	1	05/22/24	05/22/24	



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 605	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	5/29/2024 12:04:48PM

Volatile Organics by EPA 8021B

Analyst: BA

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

Blank (2421054-BLK1)

Prepared: 05/21/24 Analyzed: 05/25/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.53		8.00		94.1	70-130			

LCS (2421054-BS1)

Prepared: 05/21/24 Analyzed: 05/28/24

Benzene	5.24	0.0250	5.00		105	70-130			
Ethylbenzene	5.04	0.0250	5.00		101	70-130			
Toluene	5.24	0.0250	5.00		105	70-130			
o-Xylene	5.14	0.0250	5.00		103	70-130			
p,m-Xylene	10.4	0.0500	10.0		104	70-130			
Total Xylenes	15.5	0.0250	15.0		104	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.37		8.00		92.1	70-130			

LCS Dup (2421054-BSD1)

Prepared: 05/21/24 Analyzed: 05/28/24

Benzene	4.87	0.0250	5.00		97.4	70-130	7.39	20	
Ethylbenzene	4.68	0.0250	5.00		93.6	70-130	7.37	20	
Toluene	4.86	0.0250	5.00		97.2	70-130	7.48	20	
o-Xylene	4.77	0.0250	5.00		95.3	70-130	7.49	20	
p,m-Xylene	9.66	0.0500	10.0		96.6	70-130	7.37	20	
Total Xylenes	14.4	0.0250	15.0		96.1	70-130	7.41	20	
Surrogate: 4-Bromochlorobenzene-PID	7.36		8.00		92.0	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 605	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	5/29/2024 12:04:48PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2421054-BLK1) Prepared: 05/21/24 Analyzed: 05/25/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.54		8.00		107	70-130			

LCS (2421054-BS2) Prepared: 05/21/24 Analyzed: 05/25/24

Gasoline Range Organics (C6-C10)	51.3	20.0	50.0		103	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.71		8.00		109	70-130			

LCS Dup (2421054-BSD2) Prepared: 05/21/24 Analyzed: 05/25/24

Gasoline Range Organics (C6-C10)	51.4	20.0	50.0		103	70-130	0.215	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.56		8.00		107	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 605	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	5/29/2024 12:04:48PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2421069-BLK1) Prepared: 05/22/24 Analyzed: 05/23/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	59.3		50.0		119	50-200			

LCS (2421069-BS1) Prepared: 05/22/24 Analyzed: 05/23/24

Diesel Range Organics (C10-C28)	229	25.0	250		91.5	38-132			
Surrogate: n-Nonane	57.0		50.0		114	50-200			

LCS Dup (2421069-BSD1) Prepared: 05/22/24 Analyzed: 05/23/24

Diesel Range Organics (C10-C28)	247	25.0	250		98.9	38-132	7.82	20	
Surrogate: n-Nonane	57.6		50.0		115	50-200			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 605	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	5/29/2024 12:04:48PM

Anions by EPA 300.0/9056A

Analyst: IY

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

Blank (2421094-BLK1)					Prepared: 05/22/24 Analyzed: 05/22/24				
Chloride	ND	20.0							
LCS (2421094-BS1)					Prepared: 05/22/24 Analyzed: 05/22/24				
Chloride	251	20.0	250		100	90-110			
LCS Dup (2421094-BSD1)					Prepared: 05/22/24 Analyzed: 05/22/24				
Chloride	251	20.0	250		101	90-110	0.115	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 605	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Gio Gomez	05/29/24 12:04

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



Project Information

Chain of Custody

Page 1 of 1

Client: Pima Environmental Services

Project: Cotton Draw Unit 605

Project Manager: Glo Gomez

Address: 5614 N. Lovington Hwy.

City, State, Zip: Hobbs, NM, 88240

Phone: 800-782-1151

Email: glo@pimaoli.com

Report due by:

Bill To

Attention: Devon

Address:

City, State, Zip

Phone:

Email:

Pima Project # 297

Job #
E 405247 01058-0007

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID		DRO/DRO	GRQ/DRO	BTEX by 81	VOC by 82	Metals 60	Chloride 3			BDOC N	BDOC T			Remarks
8:12	5/15	S		SI-1'	1									X				
8:21				SI-2'	2													
8:33				SI-3'	3													
8:42				SI-4'	4													
8:51				SW1	5													
9:14				SW2	6													
9:26				SW3	7													
9:34				SW4	8													
9:50				BG1	9													

Additional Instructions:

Billing # 21155757

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

Sampled by:

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

Relinquished by: (Signature) Karime Adame	Date 5-16-24	Time 1315	Received by: (Signature) CP	Date 5-16-24	Time 1315
Relinquished by: (Signature) CP	Date 5-16-24	Time 1600	Received by: (Signature) CP	Date 5-16-24	Time 1830
Relinquished by: (Signature) CP	Date 5-16-24	Time 2400	Received by: (Signature) CP	Date 5-17-24	Time 0745

Lab Use Only

Received on ice: (Y) N

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.



Envirotech Analytical Laboratory

Printed: 5/17/2024 12:25:15PM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Pima Environmental Services-Carlsbad	Date Received:	05/17/24 07:45	Work Order ID:	E405247
Phone:	(575) 631-6977	Date Logged In:	05/17/24 09:06	Logged In By:	Angelina Pineda
Email:	gio@pimaoil.com	Due Date:	05/23/24 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/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? 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

No. of containers not documented on COC by client

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

Date



envirotech Inc.

Report to:
Gio Gomez



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Pima Environmental Services-Carlsbad

Project Name: Cotton Draw Unit 605H

Work Order: E405331

Job Number: 01058-0007

Received: 5/23/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
6/3/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 6/3/24

Gio Gomez
PO Box 247
Plains, TX 79355-0247



Project Name: Cotton Draw Unit 605H
Workorder: E405331
Date Received: 5/23/2024 6:00:00AM

Gio Gomez,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/23/2024 6:00:00AM, under the Project Name: Cotton Draw Unit 605H.

The analytical test results summarized in this report with the Project Name: Cotton Draw Unit 605H 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
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Cell: 775-287-1762
whinchman@envirotech-inc.com

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Laboratory Administrator
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Sample Summary

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 605H	Reported: 06/03/24 15:00
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
S2 - 1'	E405331-01A	Soil	05/21/24	05/23/24	Glass Jar, 2 oz.
S2 - 2'	E405331-02A	Soil	05/21/24	05/23/24	Glass Jar, 2 oz.
S2 - 3'	E405331-03A	Soil	05/21/24	05/23/24	Glass Jar, 2 oz.
S2 - 4'	E405331-04A	Soil	05/21/24	05/23/24	Glass Jar, 2 oz.
SW1 (0-4')	E405331-05A	Soil	05/21/24	05/23/24	Glass Jar, 2 oz.
SW2 (0-4')	E405331-06A	Soil	05/21/24	05/23/24	Glass Jar, 2 oz.
SW3 (0-4')	E405331-07A	Soil	05/21/24	05/23/24	Glass Jar, 2 oz.
SW4 (0-4')	E405331-08A	Soil	05/21/24	05/23/24	Glass Jar, 2 oz.



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Cotton Draw Unit 605H Project Number: 01058-0007 Project Manager: Gio Gomez	Reported: 6/3/2024 3:00:48PM
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S2 - 1'
E405331-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS		Batch: 2421166	
Benzene	ND	0.0250	1	05/24/24	05/25/24	
Ethylbenzene	ND	0.0250	1	05/24/24	05/25/24	
Toluene	ND	0.0250	1	05/24/24	05/25/24	
o-Xylene	ND	0.0250	1	05/24/24	05/25/24	
p,m-Xylene	ND	0.0500	1	05/24/24	05/25/24	
Total Xylenes	ND	0.0250	1	05/24/24	05/25/24	
Surrogate: Bromofluorobenzene		112 %	70-130	05/24/24	05/25/24	
Surrogate: 1,2-Dichloroethane-d4		90.9 %	70-130	05/24/24	05/25/24	
Surrogate: Toluene-d8		107 %	70-130	05/24/24	05/25/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2421166	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/24/24	05/25/24	
Surrogate: Bromofluorobenzene		112 %	70-130	05/24/24	05/25/24	
Surrogate: 1,2-Dichloroethane-d4		90.9 %	70-130	05/24/24	05/25/24	
Surrogate: Toluene-d8		107 %	70-130	05/24/24	05/25/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2422111	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/31/24	06/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	05/31/24	06/01/24	
Surrogate: n-Nonane		103 %	50-200	05/31/24	06/01/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2421183	
Chloride	ND	20.0	1	05/25/24	05/26/24	



Sample Data

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

Project Name: Cotton Draw Unit 605H
Project Number: 01058-0007
Project Manager: Gio Gomez

Reported:
6/3/2024 3:00:48PM

S2 - 2'

E405331-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2421166
Benzene	ND	0.0250	1	05/24/24	05/25/24	
Ethylbenzene	ND	0.0250	1	05/24/24	05/25/24	
Toluene	ND	0.0250	1	05/24/24	05/25/24	
o-Xylene	ND	0.0250	1	05/24/24	05/25/24	
p,m-Xylene	ND	0.0500	1	05/24/24	05/25/24	
Total Xylenes	ND	0.0250	1	05/24/24	05/25/24	
Surrogate: Bromofluorobenzene		110 %	70-130	05/24/24	05/25/24	
Surrogate: 1,2-Dichloroethane-d4		90.7 %	70-130	05/24/24	05/25/24	
Surrogate: Toluene-d8		107 %	70-130	05/24/24	05/25/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2421166
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/24/24	05/25/24	
Surrogate: Bromofluorobenzene		110 %	70-130	05/24/24	05/25/24	
Surrogate: 1,2-Dichloroethane-d4		90.7 %	70-130	05/24/24	05/25/24	
Surrogate: Toluene-d8		107 %	70-130	05/24/24	05/25/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2422111
Diesel Range Organics (C10-C28)	93.1	25.0	1	05/31/24	06/01/24	
Oil Range Organics (C28-C36)	52.7	50.0	1	05/31/24	06/01/24	
Surrogate: n-Nonane		107 %	50-200	05/31/24	06/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2421183
Chloride	75.8	20.0	1	05/25/24	05/26/24	



Sample Data

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

Project Name: Cotton Draw Unit 605H
Project Number: 01058-0007
Project Manager: Gio Gomez

Reported:
6/3/2024 3:00:48PM

S2 - 3'

E405331-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2421166
Benzene	ND	0.0250	1	05/24/24	05/25/24	
Ethylbenzene	ND	0.0250	1	05/24/24	05/25/24	
Toluene	ND	0.0250	1	05/24/24	05/25/24	
o-Xylene	ND	0.0250	1	05/24/24	05/25/24	
p,m-Xylene	ND	0.0500	1	05/24/24	05/25/24	
Total Xylenes	ND	0.0250	1	05/24/24	05/25/24	
Surrogate: Bromofluorobenzene		107 %	70-130	05/24/24	05/25/24	
Surrogate: 1,2-Dichloroethane-d4		91.3 %	70-130	05/24/24	05/25/24	
Surrogate: Toluene-d8		105 %	70-130	05/24/24	05/25/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2421166
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/24/24	05/25/24	
Surrogate: Bromofluorobenzene		107 %	70-130	05/24/24	05/25/24	
Surrogate: 1,2-Dichloroethane-d4		91.3 %	70-130	05/24/24	05/25/24	
Surrogate: Toluene-d8		105 %	70-130	05/24/24	05/25/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2422111
Diesel Range Organics (C10-C28)	ND	25.0	1	05/31/24	06/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	05/31/24	06/01/24	
Surrogate: n-Nonane		106 %	50-200	05/31/24	06/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2421183
Chloride	27.1	20.0	1	05/25/24	05/26/24	



Sample Data

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

Project Name: Cotton Draw Unit 605H
Project Number: 01058-0007
Project Manager: Gio Gomez

Reported:
6/3/2024 3:00:48PM

S2 - 4'

E405331-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2421166
Benzene	ND	0.0250	1	05/24/24	05/25/24	
Ethylbenzene	ND	0.0250	1	05/24/24	05/25/24	
Toluene	ND	0.0250	1	05/24/24	05/25/24	
o-Xylene	ND	0.0250	1	05/24/24	05/25/24	
p,m-Xylene	ND	0.0500	1	05/24/24	05/25/24	
Total Xylenes	ND	0.0250	1	05/24/24	05/25/24	
Surrogate: Bromofluorobenzene		112 %	70-130	05/24/24	05/25/24	
Surrogate: 1,2-Dichloroethane-d4		90.7 %	70-130	05/24/24	05/25/24	
Surrogate: Toluene-d8		106 %	70-130	05/24/24	05/25/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2421166
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/24/24	05/25/24	
Surrogate: Bromofluorobenzene		112 %	70-130	05/24/24	05/25/24	
Surrogate: 1,2-Dichloroethane-d4		90.7 %	70-130	05/24/24	05/25/24	
Surrogate: Toluene-d8		106 %	70-130	05/24/24	05/25/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2422111
Diesel Range Organics (C10-C28)	ND	25.0	1	05/31/24	06/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	05/31/24	06/01/24	
Surrogate: n-Nonane		108 %	50-200	05/31/24	06/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2421183
Chloride	ND	20.0	1	05/25/24	05/26/24	



Sample Data

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

Project Name: Cotton Draw Unit 605H
Project Number: 01058-0007
Project Manager: Gio Gomez

Reported:
6/3/2024 3:00:48PM

SW1 (0-4')

E405331-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2421166
Benzene	ND	0.0250	1	05/24/24	05/25/24	
Ethylbenzene	ND	0.0250	1	05/24/24	05/25/24	
Toluene	ND	0.0250	1	05/24/24	05/25/24	
o-Xylene	ND	0.0250	1	05/24/24	05/25/24	
p,m-Xylene	ND	0.0500	1	05/24/24	05/25/24	
Total Xylenes	ND	0.0250	1	05/24/24	05/25/24	
Surrogate: Bromofluorobenzene		109 %	70-130	05/24/24	05/25/24	
Surrogate: 1,2-Dichloroethane-d4		93.0 %	70-130	05/24/24	05/25/24	
Surrogate: Toluene-d8		106 %	70-130	05/24/24	05/25/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2421166
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/24/24	05/25/24	
Surrogate: Bromofluorobenzene		109 %	70-130	05/24/24	05/25/24	
Surrogate: 1,2-Dichloroethane-d4		93.0 %	70-130	05/24/24	05/25/24	
Surrogate: Toluene-d8		106 %	70-130	05/24/24	05/25/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2422111
Diesel Range Organics (C10-C28)	ND	25.0	1	05/31/24	06/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	05/31/24	06/01/24	
Surrogate: n-Nonane		109 %	50-200	05/31/24	06/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2421183
Chloride	ND	20.0	1	05/25/24	05/26/24	



Sample Data

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

Project Name: Cotton Draw Unit 605H
Project Number: 01058-0007
Project Manager: Gio Gomez

Reported:
6/3/2024 3:00:48PM

SW2 (0-4')

E405331-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2421166
Benzene	ND	0.0250	1	05/24/24	05/26/24	
Ethylbenzene	ND	0.0250	1	05/24/24	05/26/24	
Toluene	ND	0.0250	1	05/24/24	05/26/24	
o-Xylene	ND	0.0250	1	05/24/24	05/26/24	
p,m-Xylene	ND	0.0500	1	05/24/24	05/26/24	
Total Xylenes	ND	0.0250	1	05/24/24	05/26/24	
Surrogate: Bromofluorobenzene		108 %	70-130	05/24/24	05/26/24	
Surrogate: 1,2-Dichloroethane-d4		92.2 %	70-130	05/24/24	05/26/24	
Surrogate: Toluene-d8		106 %	70-130	05/24/24	05/26/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2421166
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/24/24	05/26/24	
Surrogate: Bromofluorobenzene		108 %	70-130	05/24/24	05/26/24	
Surrogate: 1,2-Dichloroethane-d4		92.2 %	70-130	05/24/24	05/26/24	
Surrogate: Toluene-d8		106 %	70-130	05/24/24	05/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2422111
Diesel Range Organics (C10-C28)	ND	25.0	1	05/31/24	06/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	05/31/24	06/01/24	
Surrogate: n-Nonane		104 %	50-200	05/31/24	06/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2421183
Chloride	ND	20.0	1	05/25/24	05/26/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 605H	Reported: 6/3/2024 3:00:48PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

SW3 (0-4')
E405331-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2421166
Benzene	ND	0.0250	1	05/24/24	05/26/24	
Ethylbenzene	ND	0.0250	1	05/24/24	05/26/24	
Toluene	ND	0.0250	1	05/24/24	05/26/24	
o-Xylene	ND	0.0250	1	05/24/24	05/26/24	
p,m-Xylene	ND	0.0500	1	05/24/24	05/26/24	
Total Xylenes	ND	0.0250	1	05/24/24	05/26/24	
Surrogate: Bromofluorobenzene		110 %	70-130	05/24/24	05/26/24	
Surrogate: 1,2-Dichloroethane-d4		89.1 %	70-130	05/24/24	05/26/24	
Surrogate: Toluene-d8		106 %	70-130	05/24/24	05/26/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2421166
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/24/24	05/26/24	
Surrogate: Bromofluorobenzene		110 %	70-130	05/24/24	05/26/24	
Surrogate: 1,2-Dichloroethane-d4		89.1 %	70-130	05/24/24	05/26/24	
Surrogate: Toluene-d8		106 %	70-130	05/24/24	05/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2422111
Diesel Range Organics (C10-C28)	ND	25.0	1	05/31/24	06/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	05/31/24	06/01/24	
Surrogate: n-Nonane		105 %	50-200	05/31/24	06/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2421183
Chloride	ND	20.0	1	05/25/24	05/26/24	



Sample Data

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

Project Name: Cotton Draw Unit 605H
Project Number: 01058-0007
Project Manager: Gio Gomez

Reported:
6/3/2024 3:00:48PM

SW4 (0-4')

E405331-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2421166
Benzene	ND	0.0250	1	05/24/24	05/26/24	
Ethylbenzene	ND	0.0250	1	05/24/24	05/26/24	
Toluene	ND	0.0250	1	05/24/24	05/26/24	
o-Xylene	ND	0.0250	1	05/24/24	05/26/24	
p,m-Xylene	ND	0.0500	1	05/24/24	05/26/24	
Total Xylenes	ND	0.0250	1	05/24/24	05/26/24	
Surrogate: Bromofluorobenzene		108 %	70-130	05/24/24	05/26/24	
Surrogate: 1,2-Dichloroethane-d4		94.5 %	70-130	05/24/24	05/26/24	
Surrogate: Toluene-d8		105 %	70-130	05/24/24	05/26/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2421166
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/24/24	05/26/24	
Surrogate: Bromofluorobenzene		108 %	70-130	05/24/24	05/26/24	
Surrogate: 1,2-Dichloroethane-d4		94.5 %	70-130	05/24/24	05/26/24	
Surrogate: Toluene-d8		105 %	70-130	05/24/24	05/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2422111
Diesel Range Organics (C10-C28)	ND	25.0	1	05/31/24	06/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	05/31/24	06/01/24	
Surrogate: n-Nonane		104 %	50-200	05/31/24	06/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2421183
Chloride	ND	20.0	1	05/25/24	05/26/24	



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 605H	Reported: 6/3/2024 3:00:48PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

Volatile Organic Compounds by EPA 8260B

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 (2421166-BLK1) Prepared: 05/24/24 Analyzed: 05/25/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.557		0.500		111	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.465		0.500		93.0	70-130			
Surrogate: Toluene-d8	0.528		0.500		106	70-130			

LCS (2421166-BS1) Prepared: 05/24/24 Analyzed: 05/25/24

Benzene	2.30	0.0250	2.50		92.1	70-130			
Ethylbenzene	2.53	0.0250	2.50		101	70-130			
Toluene	2.52	0.0250	2.50		101	70-130			
o-Xylene	2.61	0.0250	2.50		105	70-130			
p,m-Xylene	5.23	0.0500	5.00		105	70-130			
Total Xylenes	7.85	0.0250	7.50		105	70-130			
Surrogate: Bromofluorobenzene	0.568		0.500		114	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.474		0.500		94.7	70-130			
Surrogate: Toluene-d8	0.538		0.500		108	70-130			

LCS Dup (2421166-BSD1) Prepared: 05/24/24 Analyzed: 05/25/24

Benzene	2.27	0.0250	2.50		90.7	70-130	1.51	23	
Ethylbenzene	2.48	0.0250	2.50		99.1	70-130	2.20	27	
Toluene	2.47	0.0250	2.50		98.9	70-130	2.08	24	
o-Xylene	2.66	0.0250	2.50		106	70-130	1.65	27	
p,m-Xylene	5.34	0.0500	5.00		107	70-130	1.96	27	
Total Xylenes	8.00	0.0250	7.50		107	70-130	1.86	27	
Surrogate: Bromofluorobenzene	0.556		0.500		111	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.447		0.500		89.4	70-130			
Surrogate: Toluene-d8	0.521		0.500		104	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 605H	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	6/3/2024 3:00:48PM

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 (2421166-BLK1) Prepared: 05/24/24 Analyzed: 05/25/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.557		0.500		111	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.465		0.500		93.0	70-130			
Surrogate: Toluene-d8	0.528		0.500		106	70-130			

LCS (2421166-BS2) Prepared: 05/24/24 Analyzed: 05/25/24

Gasoline Range Organics (C6-C10)	57.7	20.0	50.0		115	70-130			
Surrogate: Bromofluorobenzene	0.557		0.500		111	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.451		0.500		90.2	70-130			
Surrogate: Toluene-d8	0.535		0.500		107	70-130			

LCS Dup (2421166-BSD2) Prepared: 05/24/24 Analyzed: 05/25/24

Gasoline Range Organics (C6-C10)	57.7	20.0	50.0		115	70-130	0.00521	20	
Surrogate: Bromofluorobenzene	0.547		0.500		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.473		0.500		94.6	70-130			
Surrogate: Toluene-d8	0.544		0.500		109	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 605H	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	6/3/2024 3:00:48PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

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

Blank (2422111-BLK1)					Prepared: 05/31/24 Analyzed: 05/31/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	51.4		50.0		103	50-200			

LCS (2422111-BS1)					Prepared: 05/31/24 Analyzed: 05/31/24				
Diesel Range Organics (C10-C28)	273	25.0	250		109	38-132			
Surrogate: n-Nonane	54.9		50.0		110	50-200			

LCS Dup (2422111-BSD1)					Prepared: 05/31/24 Analyzed: 06/01/24				
Diesel Range Organics (C10-C28)	261	25.0	250		104	38-132	4.73	20	
Surrogate: n-Nonane	54.9		50.0		110	50-200			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 605H	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	6/3/2024 3:00:48PM

Anions by EPA 300.0/9056A

Analyst: IY

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

Blank (2421183-BLK1)					Prepared: 05/25/24 Analyzed: 05/25/24				
Chloride	ND	20.0							
LCS (2421183-BS1)					Prepared: 05/25/24 Analyzed: 05/25/24				
Chloride	252	20.0	250		101	90-110			
LCS Dup (2421183-BSD1)					Prepared: 05/25/24 Analyzed: 05/25/24				
Chloride	252	20.0	250		101	90-110	0.137	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 605H	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Gio Gomez	06/03/24 15:00

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

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

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

Project Information

Chain of Custody

Page 1 of 1

Client: Pima Environmental Services Project: Cotton Drive Unit 605H Project Manager: Glo Gomez Address: 5614 N. Lovington Hwy. City, State, Zip: Hobbs, NM, 88240 Phone: 806-782-1151 Email: glo@pimaoil.com Report due by:					Bill To Attention: Devon Address: City, State, Zip: Phone: Email: Pima Project # 1-297					Lab Use Only						TAT				EPA Program																			
										Lab WO# E 405331		Job Number 01058-0001				1D	2D	3D	Standard	CWA	SDWA																		
										Analysis and Method										State																			
										DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0		BDOC NM	BDOC TX		NM	CO	UT	AZ	TX															
Time Sampled					Date Sampled					Matrix					No. of Containers					Sample ID					Lab Number														
8:00					S					S										S2-1'					1														
8:03																				S2-2'					2														
8:11																				S2-3'					3														
8:16																				S2-4'					4														
8:20																				SW1 (0-4')					5														
8:27																				SW2 (0-4')					6														
8:33																				SW3 (0-4')					7														
8:39																				SW4 (0-4')					8														
Additional Instructions: B# 21155757																																							
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 5 °C on subsequent days.																			
Relinquished by: (Signature) <u>Kerime Adame</u>										Date <u>5/22/24</u> Time <u>12:56</u>					Received by: (Signature) <u>Michelle Gonzalez</u>																								
Relinquished by: (Signature) <u>Michelle Gonzalez</u>										Date <u>5-22-24</u> Time <u>1545</u>					Received by: (Signature) <u>[Signature]</u>																								
Relinquished by: (Signature) <u>[Signature]</u>										Date <u>5-22-24</u> Time <u>2400</u>					Received by: (Signature) <u>[Signature]</u>																								
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other																				Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																			
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																																							

Envirotech Analytical Laboratory

Printed: 5/28/2024 8:27:15AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Pima Environmental Services-Carlsbad	Date Received:	05/23/24 06:00	Work Order ID:	E405331
Phone:	(575) 631-6977	Date Logged In:	05/23/24 10:44	Logged In By:	Angelina Pineda
Email:	gio@pimaoil.com	Due Date:	05/30/24 17:00 (5 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/Resolution

No. of containers and Date sampled is not documented on COC by client

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

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

General Information
Phone: (505) 629-6116

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

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

QUESTIONS

Action 408142

QUESTIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 408142
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2311446508
Incident Name	NAPP2311446508 COTTON DRAW UNIT #605H @ 30-015-47297
Incident Type	Produced Water Release
Incident Status	Remediation Plan Received
Incident Well	[30-015-47297] COTTON DRAW UNIT #605H

Location of Release Source	
Please answer all the questions in this group.	
Site Name	COTTON DRAW UNIT #605H
Date Release Discovered	04/17/2023
Surface Owner	Federal

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Equipment Failure Pipeline (Any) Produced Water Released: 1 BBL Recovered: 0 BBL Lost: 1 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Operator found fluid coming up from the flow line for the CDU 605 at the edge of the well pad. The well was shut in to stop the leak. Fluid from spill soaked into the ground approximately 20 feet of the south side of the well pad. No fluids were recovered.

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

General Information
Phone: (505) 629-6116

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

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

QUESTIONS, Page 2

Action 408142

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 408142
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	More info needed to determine if this will be treated as a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Unavailable.
Reasons why this would be considered a submission for a notification of a major release	Unavailable.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response

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

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

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

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

I hereby agree and sign off to the above statement	Name: James Raley Title: EHS Professional Email: jim.raley@dvni.com Date: 12/03/2024
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Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

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

QUESTIONS, Page 3

Action 408142

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 408142
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Site Characterization	
<i>Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	U.S. Geological Survey
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	75
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	9014
GRO+DRO (EPA SW-846 Method 8015M)	6533
BTEX (EPA SW-846 Method 8021B or 8260B)	0.9
Benzene (EPA SW-846 Method 8021B or 8260B)	0
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
On what estimated date will the remediation commence	01/06/2025
On what date will (or did) the final sampling or liner inspection occur	01/06/2025
On what date will (or was) the remediation complete(d)	01/10/2025
What is the estimated surface area (in square feet) that will be reclaimed	18
What is the estimated volume (in cubic yards) that will be reclaimed	2
What is the estimated surface area (in square feet) that will be remediated	18
What is the estimated volume (in cubic yards) that will be remediated	2
<i>These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.</i>	
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 4

Action 408142

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 408142
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Remediation Plan (continued)	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	HALFWAY DISPOSAL AND LANDFILL [FEEM0112334510]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: James Raley Title: EHS Professional Email: jim.raley@dv.com Date: 12/03/2024
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 5

Action 408142

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 408142
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

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

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QUESTIONS, Page 6

Action 408142

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 408142
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	{Unavailable.}

Remediation Closure Request	
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.	
Requesting a remediation closure approval with this submission	No

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CONDITIONS

Action 408142

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 408142
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	The Remediation Plan is Conditionally Approved. All samples must be analyzed for all constituents listed in Table I of 19.15.29.12 NMAC. Floor confirmation samples should be delineated/excavated to meet closure criteria standards from Table 1 of the OCD Spill Rule for site assessment/characterization/proven depth to water determination. The release area will need confirmation floor/sidewall samples representing no more than 200 ft2. Sidewall/Edge samples should be delineated/excavated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release. Please make sure that the edge of the release extent is accurately defined, especially around equipment. Make sure the exact same S-1 sample location (9/5/2023) is resampled to ensure the TPH contaminants have been removed. The work will need to occur in 90 days after the report has been reviewed.	12/31/2024