



REMEDIATION CLOSURE REPORT

PREPARED FOR:
DEVON ENERGY PRODUCTION, LP.

PREPARED BY:
PIMA ENVIRONMENTAL SERVICES, LLC.

FEBRUARY 17, 2025
PIMA ENVIRONMENTAL SERVICES, LLC.
5614 N LOVINGTON HWY, HOBBS, NM 88240



NMOCD District 2
811 S First St
Artesia, NM 88210

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

RE: Remediation Closure Report
LOCATION: Cotton Draw 13 Federal #1H
WELL API #: 30-015-40385
GPS (NAD83): 32.1239395, -103.7380219
INCIDENT LOCATION: M-13-T25S-R31E
COUNTY: Eddy
NMOCD REF. NO. nAPP2110326244

Pima Environmental Services LLC. (Pima) has been contracted by Devon Energy Production Company, LP (Devon) to prepare this Remediation Closure Report for a produced water release that occurred at the Cotton Draw 13 Federal #1H (Cotton). This incident was assigned Incident ID nAPP2110326244 by the New Mexico Oil Conservation Division (NMOCD). The Initial Form C-141 can be found in Appendix C.

RELEASE INFORMATION

nAPP2110326244: On March 8, 2021, the, within the containment, water tank ran over. There was a breach in the containment which resulted in impact to the pad. Please see the attached calculations. Approximately 435 barrels (bbls) were released, approximately 420 bbls were recovered via vacuum truck.

SITE CHARACTERIZATION

The Cotton is located approximately twenty (20) miles southeast of Malaga, NM. This release area is in Unit M, Section 13, Township 25S, Range 31E, Latitude 32.1239395, Longitude -103.7380219, Eddy County, NM. Figure 1 references a Location Map.

Per the New Mexico Bureau of Geology and Mineral Resources, the geology 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. The soil in this area is made up of Berino complex, 0 to 3 percent slopes, eroded according to the United States Department of Agriculture Natural Resources Conservation Service soil survey (Appendix B). The drainage class is well-drained. There is a low potential for karst geology to be present around the Cotton (Figure 3) with the nearest medium karst zone being 1.44 miles to the southwest. Reference Figure 2 for a Topographic Map.

According to the New Mexico Office of the State Engineer, depth to the nearest groundwater in this area is greater than 55 feet below grade surface (bgs). This information is provided by C-04925-POD1 which is located approximately 0.45 miles west of the release area and was drilled on February 6, 2025. According to the United States Geological Survey, USGS 320932103443801 25S.31E.2.23441 puts the nearest groundwater at 390 feet bgs, with the last gauge being conducted in 1976. This well resides approximately 2.41 miles north of the Cotton release area. The closest surface water body is Red Bluff Reservoir located approximately 15.3 miles to the southwest of this location. See Appendix A for referenced Water Surveys and Water-Related Maps.

According to the U.S. Fish and Wildlife Service National Wetlands Inventory, a Freshwater Emergent Wetland lies approximately 1.91 miles to the northwest of the Cotton release area. According to a FEMA search for flood hazard information, the Cotton is in Zone X – Area of Minimal Flood Hazard.

Closure criteria for releases at the Cotton pad surface are classified under the 51-100-foot depth to groundwater section of Table 1 19.15.29.12 NMAC. The regulatory limits are as follows: Chlorides should be less than 10,000 mg/kg, TPH (GRO+DRO+MRO) should be less than 2,500 mg/kg, GRO+DRO should be less than 1,000 mg/kg, BTEX



should be less than 50 mg/kg, and Benzene should be less than 10 mg/kg.

SITE ASSESSMENT ACTIVITIES

On May 10, 2023, Pima personnel mobilized to the release site to perform an assessment of the affected area. Discrete soil samples were collected using a hand auger from three (3) different sample points within the release area. These samples were collected from depths of 1', 2', and 3' bgs. Discrete samples were collected from four (4) different sample points around the edges of the release area. These samples were collected from a depth of 6" bgs. One (10) discrete sample was collected from the pasture, just off the pad as a background sample. This sample was collected from a depth of 6" bgs. A total of fourteen (14) samples were collected, put on ice, prepared for delivery, then delivered to Envirotech Analytical Laboratory for official analysis of all constituents listed in Table 1 19.15.29.12 NMAC. An Original Site Map can be found in Figure 4.

On May 14, 2023, after a 48-hour notification of a liner inspection was submitted via email, Pima personnel mobilized to the site to perform the inspection. It was found that the deficiencies mentioned in the initial C141, in the containment wall at the southeast corner of the secondary containment, were still not properly repaired.

On May 19, 2023, the analytical report was received and verified vertical and horizontal delineation for all sample points. All sample results can be referenced in the Data Tables in Figure 5.

On January 5, 2024, after Devon submitted a 48-hour notification for a liner inspection, Pima personnel mobilized to the site to perform the final inspection. The deficiencies in the containment wall had been patched, the containment had been power washed, and the rest of the liner was inspected for tears, holes, and damage. None were found. It was concluded that this secondary containment liner now had the integrity to maintain a release. Photographic Documentation along with the Liner Inspection Form can be found in Appendix D.

On March 11, 2024, Pima personnel returned to the release site to reassess and correctly complete vertical and horizontal delineation of the release area. Using a hand auger, discrete samples were collected from four (4) new sample points within the release area. These samples were collected from depths of 1', 2', 3', and 4' bgs. Subsamples were collected from seven (7) new sample points around the edges of the release area for horizontal delineation. These subsamples were collected at 1' increments from each sample point to 4' bgs then combined to create composite samples. One sample was again collected, as a background sample, from the pasture just off the pad from a depth of 1' bgs. A total of twenty-four (24) samples were put on ice, prepared for delivery, then delivered to Envirotech Analytical Laboratories for official analysis of all constituents listed in Table 1. A New Site Map can be found in Figure 6.

On March 19, 2024, the analytical report was received and verified that vertical and horizontal delineation had been achieved for all sample points except S1 and S2.

On June 3, 2024, Pima personnel returned to the site to complete vertical delineation of sample points S1 and S2. Using a hand auger, each sample point was advanced to a depth of 5' bgs. The samples were collected, put on ice, prepared for delivery, then delivered to Cardinal Laboratories for official analysis of all constituents listed in Table 1.

On June 13, 2024, the analytical report was received and verified that vertical delineation of samples points S1 and S2 had been achieved. All sample results can be found in the Data Tables in Figure 5. Complete Laboratory Reports can be found in Appendix E.

REMEDIATION ACTIVITIES

On February 6, 2025, Devon contracted H&R Enterprises to install a borehole within ½-mile of the Cotton to obtain new groundwater data. A borehole was installed at 32 degrees, 7 minutes, 14.1 seconds N latitude, and -103 degrees, 44 minutes, 45.7 seconds W longitude in section 23, township 25S, range 31E in Eddy County, New Mexico. The borehole was drilled with a truck-mounted air rotary drill to a depth of 55 feet bgs. A temporary well casing was installed, and the borehole was left open for no less than 72 hours. Photographic Documentation can be found in Appendix D.

On February 10, 2025, a technician returned to the borehole site to gauge the bore for the presence of water. The



gauging event verified the hole to be dry, no water or water bearing soil was encountered. The hole was then plugged according to the approved-plugging plan, and the surface was restored to its previous state.

CLOSURE REQUEST

Based on the laboratory results, and the installation of C-04925-POD1, the contamination levels represented in all sample points are under the regulatory limits according to the closure criteria outlined in the 51-100-foot depth to groundwater section of Table 1 19.15.29.12 NMAC. The release area has been successfully delineated vertically and horizontally. Devon requests that this incident, nAPP2110326244, be closed. Devon is also aware of and understands that reclamation of this pad area once it is no longer needed for production or subsequent drilling operations will require an approved reclamation plan report addressing a minimum of four feet of non-waste containing earthen material. Followed by a revegetation plan report once the site has reached the required vegetative status.

Should you have any questions or need additional information, please feel free to contact:
Devon Energy Production – Jim Raley at 575-689-7597 or jim.raley@dvn.com.
Pima Environmental – Tom Bynum at 575-964-7740 or tom@pimaoil.com.

ATTACHMENTS

FIGURES:

- 1- Location Map
- 2- Topographic Map
- 3- Karst Map
- 4- Original Site Map
- 5- Data Tables
- 6- New Site Map

APPENDICES:

- Appendix A – Water Surveys & Water-Related Maps
- Appendix B – Soil Survey & Geological Data
- Appendix C – Initial Form C-141 & 48-Hour Notification
- Appendix D – Photographic Documentation & Liner Inspection Form
- Appendix E – Laboratory Reports



FIGURES

- 1- Location Map
- 2- Topographic Map
- 3- Karst Map
- 4- Original Site Map
- 5- Data Tables
- 6- New Site Map



Pima Environmental Services, LLC
5614 N Lovington Hwy, Hobbs, NM 88240
575-964-7740 | www.pimaoil.com

Roche Federal #001 | nJMW1301749383

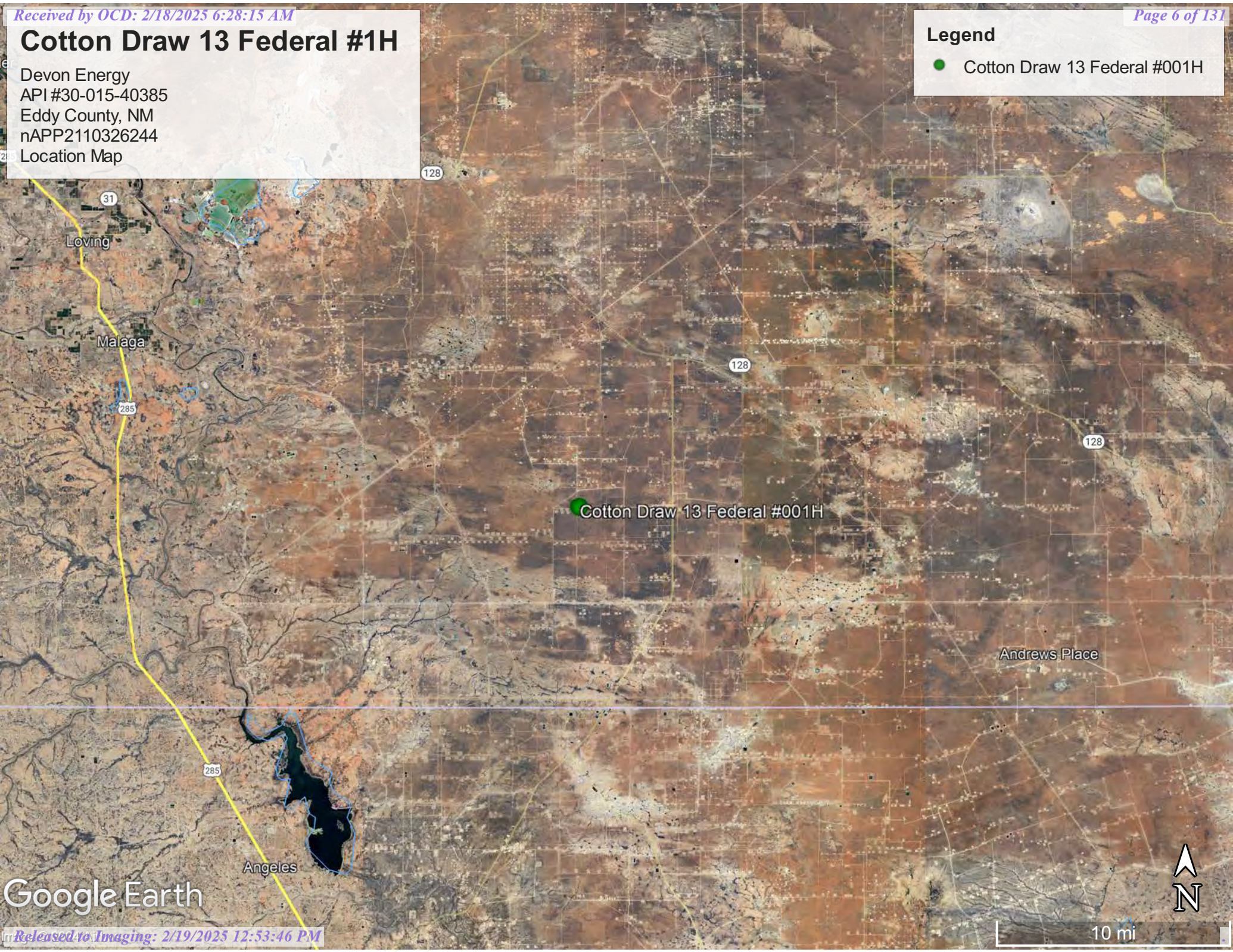
DEVON ENERGY PRODUCTION, LP.

Cotton Draw 13 Federal #1H

Devon Energy
API #30-015-40385
Eddy County, NM
nAPP2110326244
Location Map

Legend

- Cotton Draw 13 Federal #001H



Google Earth

10 mi

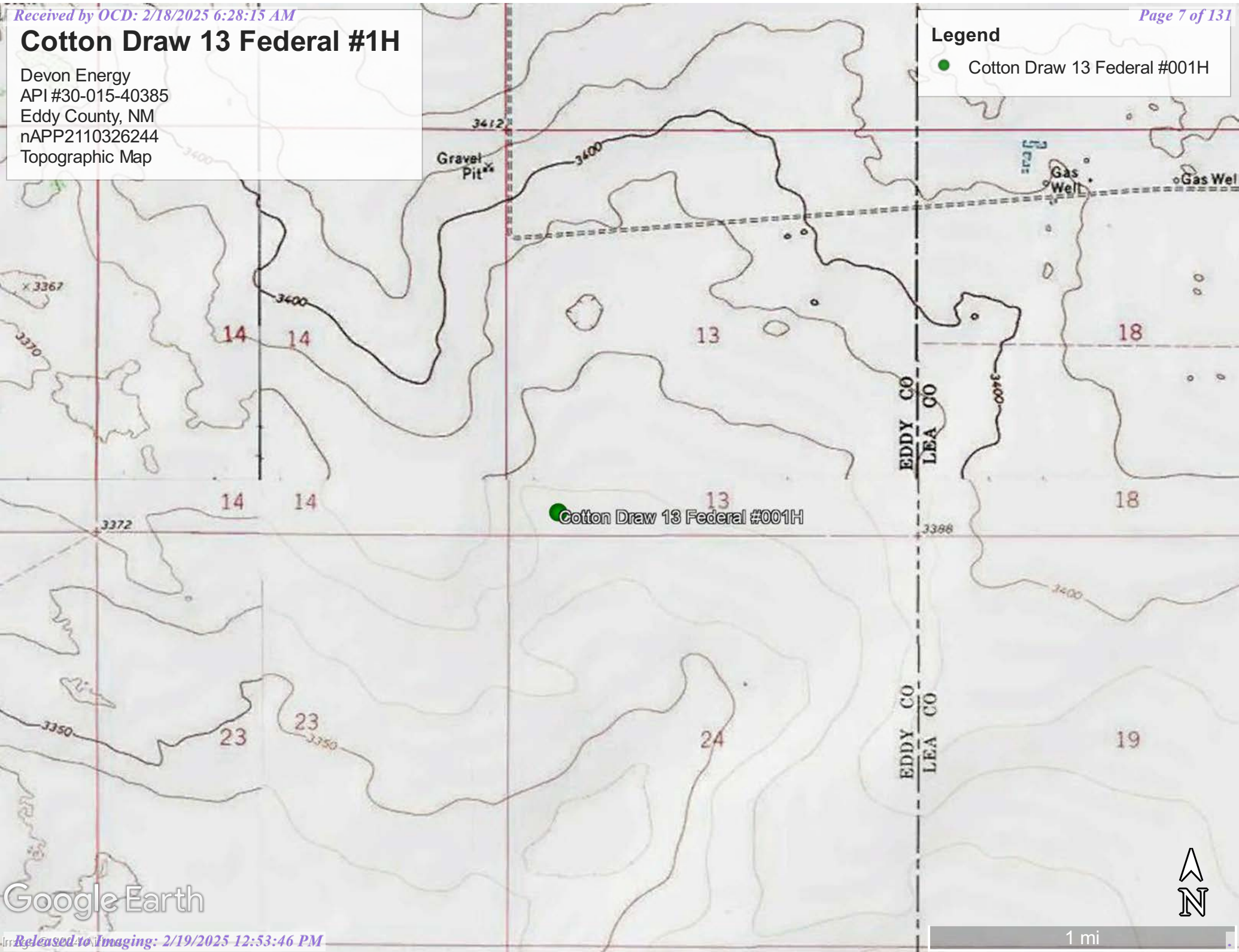


Cotton Draw 13 Federal #1H

Devon Energy
API #30-015-40385
Eddy County, NM
nAPP2110326244
Topographic Map

Legend




- Cotton Draw 13 Federal #001H



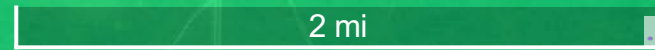
Cotton Draw 13 Federal #1H

Devon Energy
API #30-015-40385
Eddy County, NM
nAPP2110326244
Karst Map

Legend

-  High Karst
-  Low Karst
-  Medium Karst

Cotton Draw 13 Federal #001H



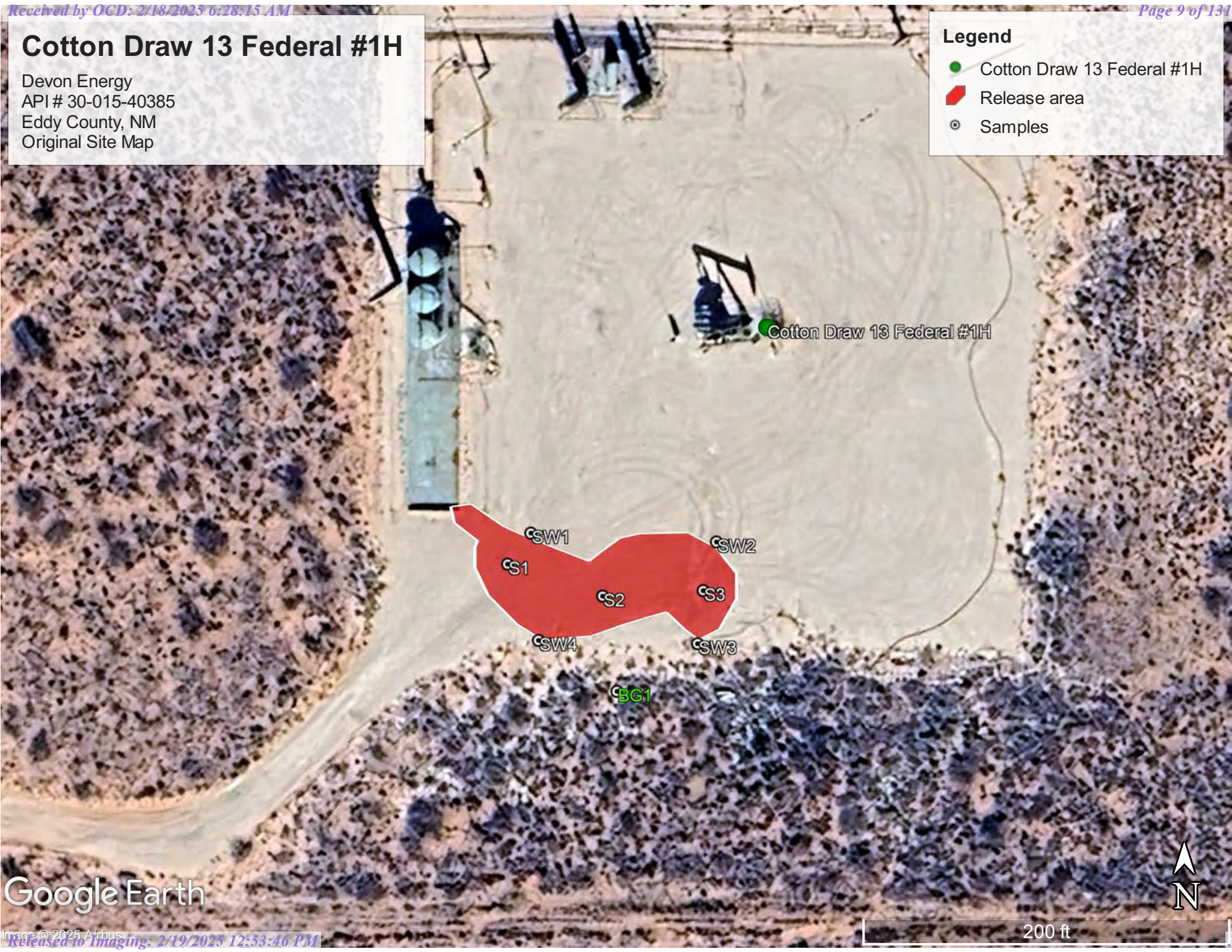
Google Earth

Cotton Draw 13 Federal #1H

Devon Energy
API # 30-015-40385
Eddy County, NM
Original Site Map

Legend

- Cotton Draw 13 Federal #1H
- Release area
- Samples



Google Earth



200 ft

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is 51-100')								
DEVON ENERGY - COTTON DRAW 13 FED #001H - nAPP2110326244								
Date: 5/10/2023 NM Approved Laboratory Results								
Sample ID	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg
S-1	1'	ND	ND	ND	ND	ND	0	ND
	2'	ND	ND	ND	ND	ND	0	ND
	3'	ND	ND	ND	ND	ND	0	ND
S-2	1'	ND	ND	ND	ND	ND	0	ND
	2'	ND	ND	ND	ND	ND	0	ND
	3'	ND	ND	ND	ND	ND	0	ND
S-3	1'	ND	ND	ND	ND	ND	0	ND
	2'	ND	ND	ND	ND	ND	0	ND
	3'	ND	ND	ND	ND	ND	0	ND
SW 1	6"	ND	ND	ND	ND	ND	0	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

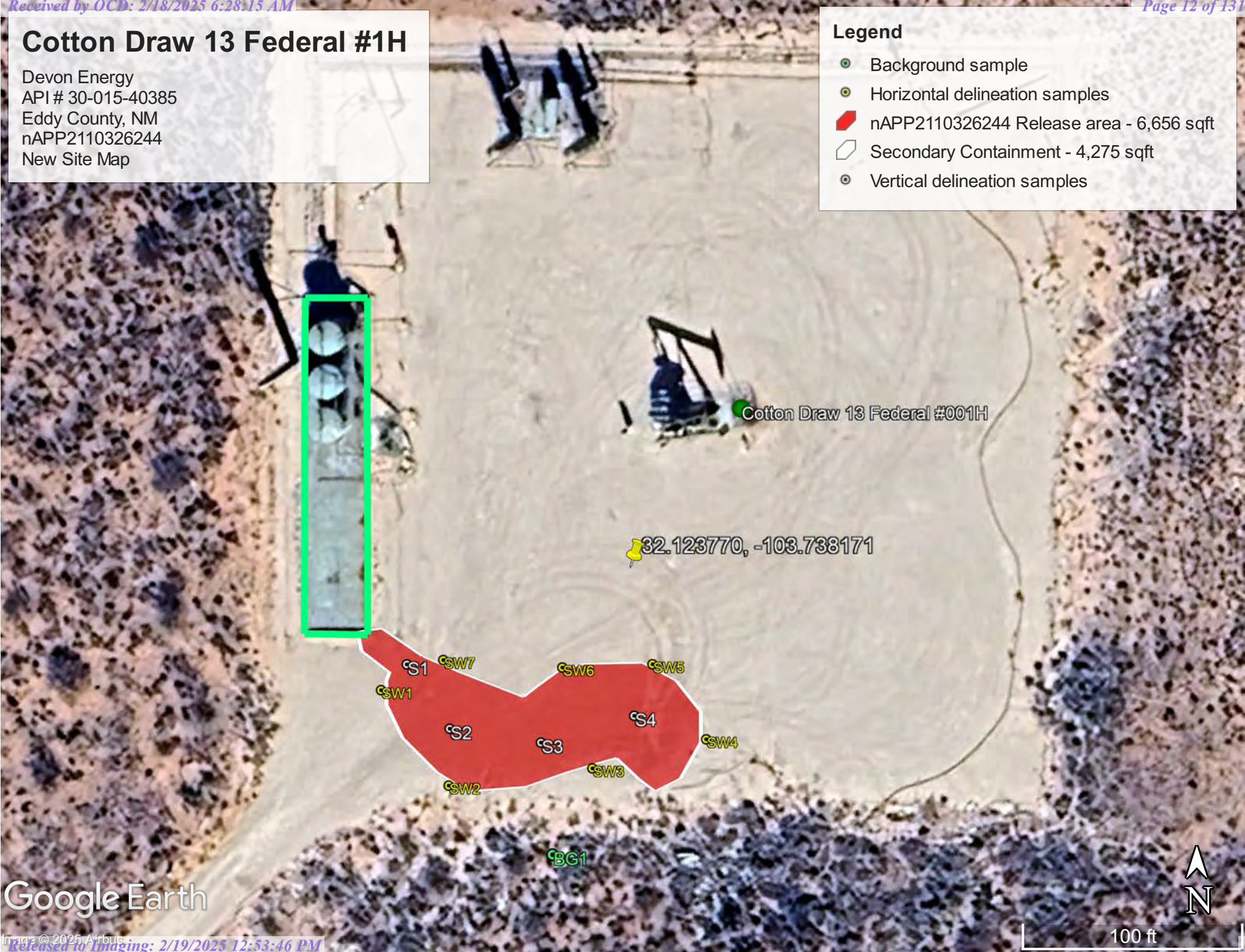
NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is 51-100')									
DEVON ENERGY - COTTON DRAW 13 FED #001H - nAPP2110326244									
NM Approved Laboratory Results									
Sample ID	Date	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg
S1	3/11/2024	1'	ND	ND	ND	ND	ND	ND	2160
	3/11/2024	2'	ND	ND	ND	ND	ND	ND	329
	3/11/2024	3'	ND	ND	ND	ND	ND	ND	576
	3/11/2024	4'	ND	ND	ND	ND	ND	ND	1790
S1 - 5'	6/3/2024	5'	ND	ND	ND	ND	ND	ND	32
S2	3/11/2024	1'	ND	ND	ND	ND	ND	ND	2210
	3/11/2024	2'	ND	ND	ND	ND	ND	ND	398
	3/11/2024	3'	ND	ND	ND	ND	ND	ND	566
	3/11/2024	4'	ND	ND	ND	ND	ND	ND	860
S2 - 5'	6/3/2024	5'	ND	ND	ND	ND	ND	ND	16
S3	3/11/2024	1'	ND	ND	ND	ND	ND	ND	2200
	3/11/2024	2'	ND	ND	ND	ND	ND	ND	364
	3/11/2024	3'	ND	ND	ND	ND	ND	ND	556
	3/11/2024	4'	ND	ND	ND	ND	ND	ND	183
S4	3/11/2024	1'	ND	ND	ND	ND	ND	ND	2170
	3/11/2024	2'	ND	ND	ND	ND	ND	ND	420
	3/11/2024	3'	ND	ND	ND	ND	ND	ND	814
	3/11/2024	4'	ND	ND	ND	ND	ND	ND	197
SW1	3/11/2024	0-4'	ND	ND	ND	ND	ND	ND	ND
SW2	3/11/2024	0-4'	ND	ND	ND	ND	ND	ND	ND
SW3	3/11/2024	0-4'	ND	ND	ND	ND	ND	ND	ND
SW4	3/11/2024	0-4'	ND	ND	ND	ND	ND	ND	ND
SW5	3/11/2024	0-4'	ND	ND	ND	ND	ND	ND	ND
SW6	3/11/2024	0-4'	ND	ND	ND	ND	ND	ND	ND
SW7	3/11/2024	0-4'	ND	ND	ND	ND	ND	ND	ND
BG1	3/11/2024	1'	ND	ND	ND	ND	ND	ND	ND

Cotton Draw 13 Federal #1H

Devon Energy
API # 30-015-40385
Eddy County, NM
nAPP2110326244
New Site Map

Legend

- Background sample
- Horizontal delineation samples
- nAPP2110326244 Release area - 6,656 sqft
- Secondary Containment - 4,275 sqft
- Vertical delineation samples



Cotton Draw 13 Federal #001H

32.123770, -103.738171

CS1 CSW7 CSW6 CSW5
 CSW1 CS2 CS3 CS4 CSW4
 CSW2 CSW3

BG1

Google Earth



100 ft

APPENDIX A

Water Surveys
Water-Related Maps



Pima Environmental Services, LLC
5614 N Lovington Hwy, Hobbs, NM 88240
575-964-7740 | www.pimaoil.com

Roche Federal #001 | nJMW1301749383

DEVON ENERGY PRODUCTION, LP.



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) Pod 1		WELL TAG ID NO.		OSE FILE NO(S) C-04925	
	WELL OWNER NAME(S) Devon Energy				PHONE (OPTIONAL)	
	WELL OWNER MAILING ADDRESS 5315 Buena Vista Drive				CITY Carlsbad	STATE ZIP NM 88220
	WELL LOCATION (FROM GPS)	DEGREES 32	MINUTES 07	SECONDS 14.1	* ACCURACY REQUIRED: ONE TENTH OF A SECOND	
		LATITUDE		N	* DATUM REQUIRED: WGS 84	
		LONGITUDE	103	44	45.7	W
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE S23 T25s R31e						

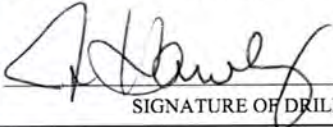
2. DRILLING & CASING INFORMATION	LICENSE NO. WD-1862		NAME OF LICENSED DRILLER James Hawley			NAME OF WELL DRILLING COMPANY H&R Enterprises, LLC		
	DRILLING STARTED 2-6-25	DRILLING ENDED 2-6-25	DEPTH OF COMPLETED WELL (FT) 55'	BORE HOLE DEPTH (FT) 55'	DEPTH WATER FIRST ENCOUNTERED (FT) N/A			
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN *add <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED) <small>Centralizer info below</small>				STATIC WATER LEVEL IN COMPLETED WELL (FT) N/A	DATE STATIC MEASURED 2-10-25		
	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:					CHECK HERE IF PITLESS ADAPTER IS INSTALLED <input type="checkbox"/>		
	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)	SLOT SIZE (inches)
	FROM	TO						
	0'	55'	5'	No casing left in hole				

3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL <i>*(if using Centralizers for Artesian wells- indicate the spacing below)</i>	AMOUNT (cubic feet)	METHOD OF PLACEMENT
	FROM	TO				
				N/A		

FOR OSE INTERNAL USE			WR-20 WELL RECORD & LOG (Version 09/22/2022)		
FILE NO.	POD NO.	TRN NO.			
LOCATION	WELL TAG ID NO.				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'	Caliche	Y <input checked="" type="checkbox"/> N	
	5'	15'	10'	Sand	Y <input checked="" type="checkbox"/> N	
	15'	25'	10''	Sandy Caliche	Y <input checked="" type="checkbox"/> N	
	25'	55'	30'	Sand	Y <input checked="" type="checkbox"/> N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
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					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: <input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input checked="" type="checkbox"/> OTHER - SPECIFY: DTGW Bore					TOTAL ESTIMATED WELL YIELD (gpm): 0.00	

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:	Depth to groundwater bore was gauged for water on 2-10-25. DTGW bore was dry. Temporary well casing was removed, bore hole was backfilled with drill cutting to 10' BGS. Hydrated bentonite hole plug was poured from 10' BGS to surface.
	PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:	Nathan Smelcer

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 HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING:	
	 _____ SIGNATURE OF DRILLER / PRINT SIGNEE NAME	James Hawley _____ DATE
		2-10-25

FOR OSE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 09/22/2022)	
FILE NO.	POD NO.	TRN NO.	
LOCATION	WELL TAG ID NO.	PAGE 2 OF 2	

- 10) Log of Plugging Activities - Label vertical scale with depths, and indicate separate plugging intervals with horizontal lines as necessary to illustrate material or methodology changes. Attach additional pages if necessary.

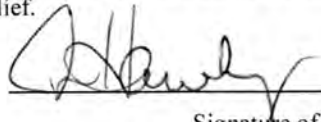
For each interval plugged, describe within the following columns:

<u>Depth</u> (ft bgl)	<u>Plugging Material Used</u> (include any additives used)	<u>Volume of Material Placed</u> (gallons)	<u>Theoretical Volume of Borehole/ Casing</u> (gallons)	<u>Placement Method</u> (tremie pipe, other)	<u>Comments</u> ("casing perforated first", "open annular space also plugged", etc.)
0' - 10'	Hydrated Bentonite	Approx. 10.2 gallons	10.2 gallons	Pour	
10' - 55'	Drill Cuttings	Approx. 46 gallons	46 gallons	Pour	

MULTIPLY	BY	AND OBTAIN
cubic feet x	7.4805	= gallons
cubic yards x	201.97	= gallons

III. SIGNATURE:

I, James Hawley, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.



 Signature of Well Driller

2-10-25

 Date



PLUGGING RECORD



NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: C-04925-POD1
Well owner: Devon Energy Phone No.: _____
Mailing address: 5315 Buena Vista Drive
City: Carlsbad State: NM Zip code: 88220

II. WELL PLUGGING INFORMATION:

- 1) Name of well drilling company that plugged well: H&R Enterprises, LLC.
- 2) New Mexico Well Driller License No.: WD-1862 Expiration Date: 6-16-25
- 3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s):
Nathan Smelcer
- 4) Date well plugging began: 2-10-25 Date well plugging concluded: 2-10-25
- 5) GPS Well Location: Latitude: 32 deg, 07 min, 14.1 sec
Longitude: 103 deg, 44 min, 45.7 sec, WGS 84
- 6) Depth of well confirmed at initiation of plugging as: 55' ft below ground level (bgl),
by the following manner: well sounder
- 7) Static water level measured at initiation of plugging: N/A ft bgl
- 8) Date well plugging plan of operations was approved by the State Engineer: 12-27-24
- 9) Were all plugging activities consistent with an approved plugging plan? yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

OSE POD Location Map

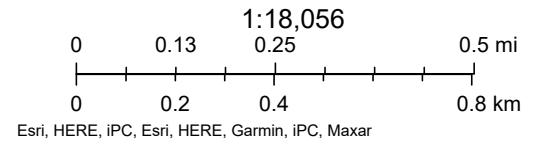


1/24/2025, 8:27:18 AM

GIS WATERS PODs OSE District Boundary Artesian Planning Area

● Active Water Right Regulations

● Pending Closure Area





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	POD Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Q 3	Q 18	Sec	Twps	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
C_04618 POD1		CUB	LE	3	4	3	18	25S	32E	621041	3554886	1995	55				
C_04619 POD1		CUB	ED	2	1	2	27	25S	31E	616750	3552958	2987	55				
C_04635 POD1		CUB	ED	4	3	4	01	25S	31E	619958	3558078	3335	55				
C_03830 POD1		CUB	ED	4	2	4	02	25S	31E	618632	3558432	3586	450				
C_02570		CUB	ED	4	2	4	02	25S	31E	618704	3558489*	3634	895				
C_04632 POD1		CUB	ED	1	2	2	10	25S	31E	616802	3557964	3821	55				
C_04620 POD1		CUB	LE	4	3	4	06	25S	32E	621445	3558018	3958	55				
C_02568		CUB	ED	4	3	1	01	25S	31E	619103	3558892*	4022	1025				
C_02569		CUB	ED	4	4	2	02	25S	31E	618699	3558891*	4035	1016				
C_02573		CUB	ED	1	4	2	02	25S	31E	618499	3559091*	4255					
C_02250		CUB	ED	3	1	4	21	25S	31E	614912	3553620*	4317	400	390	10		
C_02572		CUB	ED	4	2	2	02	25S	31E	618695	3559294*	4437	852				
C_02571		CUB	ED	4	1	2	02	25S	31E	618292	3559294*	4487	860				
C_02574		CUB	ED	1	1	2	02	25S	31E	618092	3559494*	4720					

Average Depth to Water: **390 feet**
 Minimum Depth: **390 feet**
 Maximum Depth: **390 feet**

Record Count: 14

UTMNAD83 Radius Search (in meters):

Easting (X): 619045

Northing (Y): 3554870.21

Radius: 5000

*UTM location was derived from PLSS - see Help

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

3/30/23 10:08 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER



USGS Home
Contact USGS
Search USGS

National Water Information System: Web Interface

USGS Water Resources

Data Category:


Groundwater

Geographic Area:

United States

GO

Click to hide News Bulletins

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

Groundwater levels for the Nation

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

Search Results -- 1 sites found

site_no list =

- 320932103443801

Minimum number of levels = 1

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

USGS 320932103443801 25S.31E.02.23441

Available data for this site

Groundwater: Field measurements

GO

Eddy County, New Mexico

Hydrologic Unit Code 13070001

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

Land-surface elevation 3,460.00 feet above NGVD29

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

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

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

Output formats

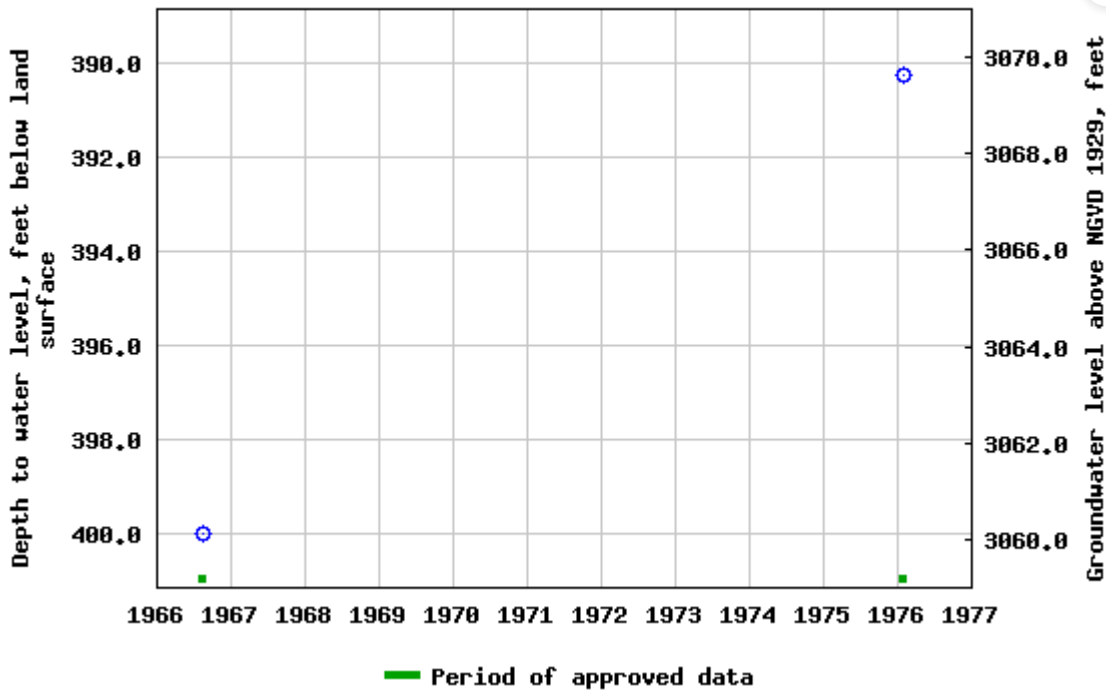
[Table of data](#)

[Tab-separated data](#)

[Graph of data](#)

[Reselect period](#)

USGS 320932103443801 25S,31E.02,23441



Breaks in the plot represent a gap of at least one year between field measurements. [Download a presentation-quality graph](#)

- [Questions or Comments](#)
- [Automated retrievals](#)
- [Help](#)
- [Data Tips](#)
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[U.S. Department of the Interior](#) | [U.S. Geological Survey](#)

Title: Groundwater for USA: Water Levels

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



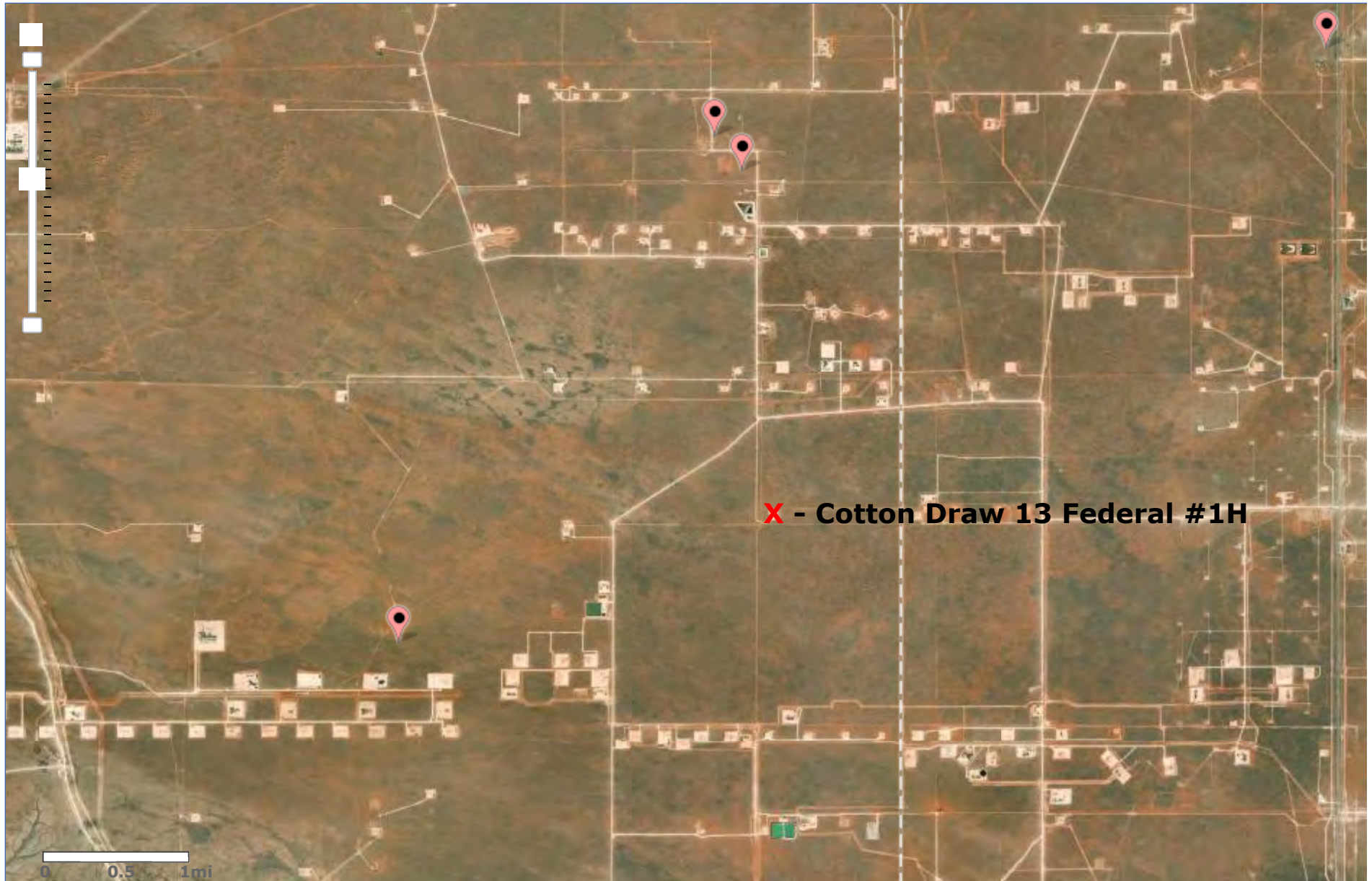
Page Contact Information: [USGS Water Data Support Team](#)

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

0.66 0.56 nadww01





National Water Information System: Mapper

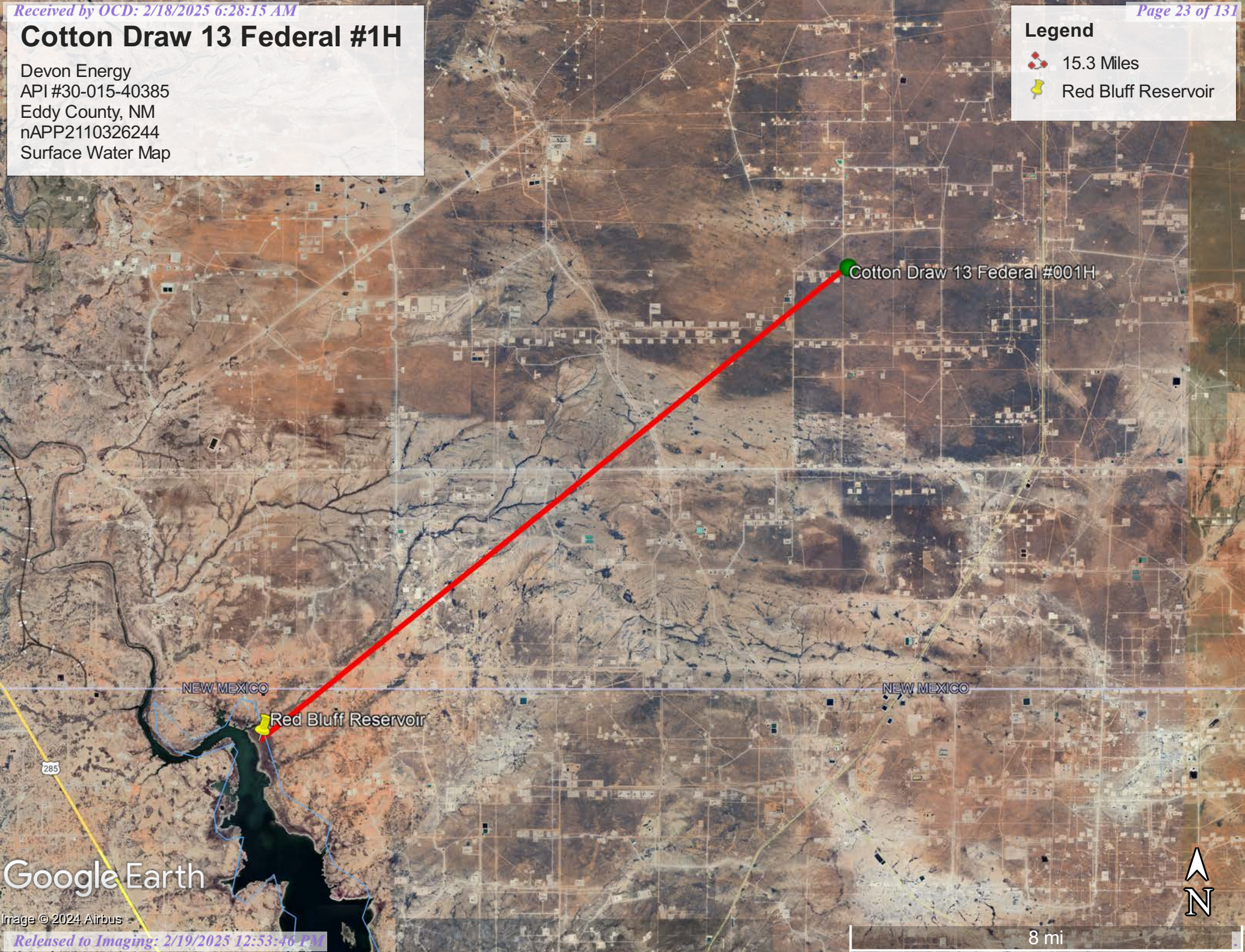


Cotton Draw 13 Federal #1H

Devon Energy
API #30-015-40385
Eddy County, NM
nAPP2110326244
Surface Water Map

Legend

-  15.3 Miles
-  Red Bluff Reservoir

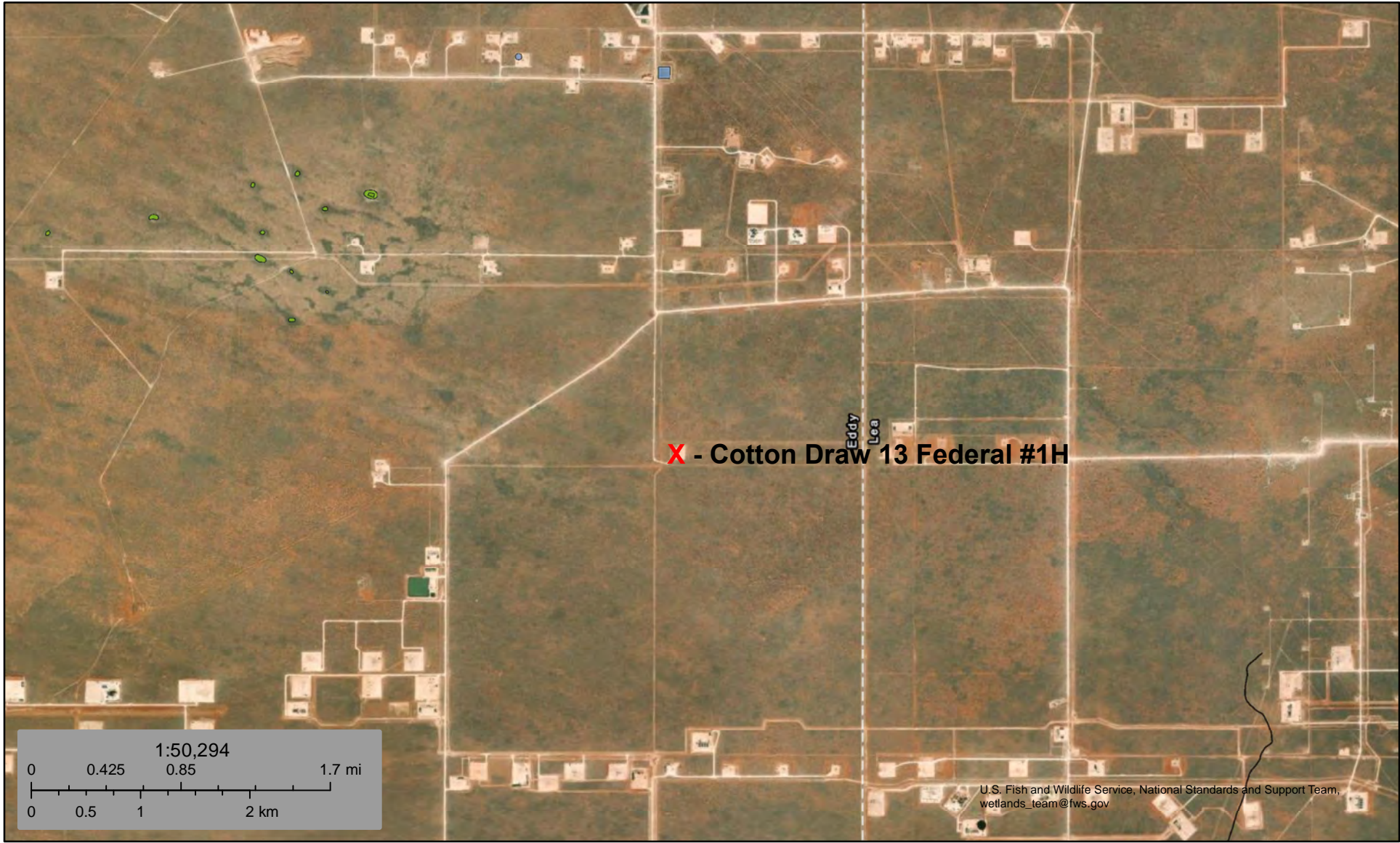


Google Earth

Image © 2024 Airbus











Wetlands Map



June 2, 2024

Wetlands

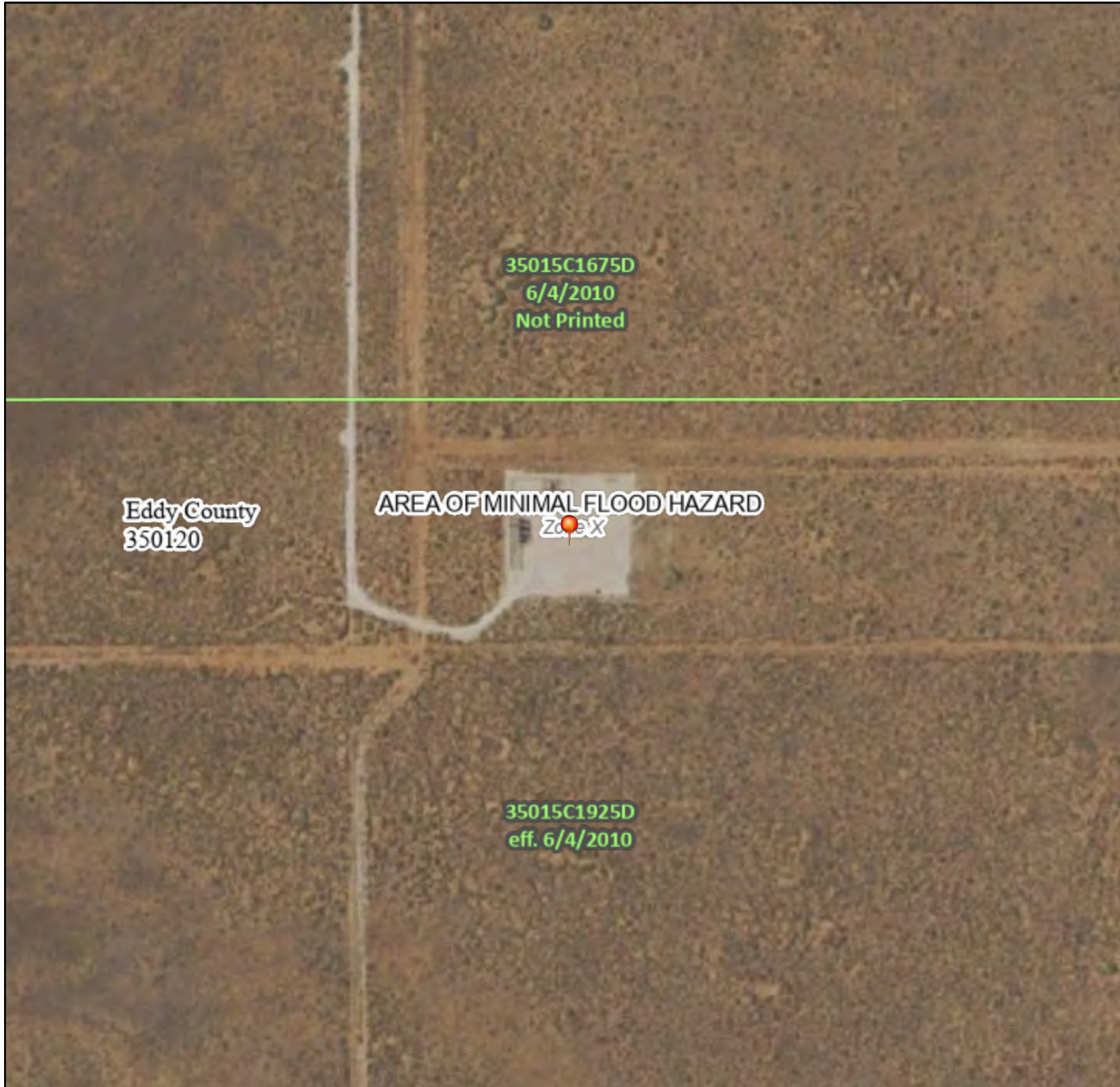
-  Estuarine and Marine Deepwater
-  Freshwater Emergent Wetland
-  Lake
-  Estuarine and Marine Wetland
-  Freshwater Forested/Shrub Wetland
-  Other
-  Freshwater Pond
-  Riverine

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°44'36"W 32°7'41"N



Legend

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

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) <i>Zone A, V, A99</i>
		With BFE or Depth <i>Zone AE, AO, AH, VE, AR</i>
		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 <i>Zone X</i>
		Future Conditions 1% Annual Chance Flood Hazard <i>Zone X</i>
		Area with Reduced Flood Risk due to Levee. See Notes. <i>Zone X</i>
		Area with Flood Risk due to Levee <i>Zone D</i>

OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard <i>Zone X</i>
		Effective LOMRs

GENERAL STRUCTURES		Area of Undetermined Flood Hazard <i>Zone D</i>
		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall

OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5 Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
OTHER FEATURES		Coastal Transect Baseline
		Profile Baseline
		Hydrographic Feature

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 2/16/2025 at 11:37 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.



1:6,000

103°43'58"W 32°7'11"N

APPENDIX B

Soil Survey

Soil Map

Geologic Unit Map



Pima Environmental Services, LLC
5614 N Lovington Hwy, Hobbs, NM 88240
575-964-7740 | www.pimaoil.com

Roche Federal #001 | nJMW1301749383

DEVON ENERGY PRODUCTION, LP.

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

Eddy Area, New Mexico

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

Map Unit Setting

National map unit symbol: 1w43

Elevation: 2,000 to 5,700 feet

Mean annual precipitation: 5 to 15 inches

Mean annual air temperature: 57 to 70 degrees F

Frost-free period: 180 to 260 days

Farmland classification: Not prime farmland

Map Unit Composition

Berino and similar soils: 60 percent

Pajarito and similar soils: 25 percent

Minor components: 15 percent

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

Description of Berino

Setting

Landform: Plains, fan piedmonts

Landform position (three-dimensional): Riser

Down-slope shape: Convex

Across-slope shape: Linear

Parent material: Mixed alluvium and/or eolian sands

Typical profile

H1 - 0 to 17 inches: fine sand

H2 - 17 to 58 inches: sandy clay loam

H3 - 58 to 60 inches: loamy sand

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained

Runoff class: Low

Capacity of the most limiting layer to transmit water

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

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum content: 40 percent

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

Sodium adsorption ratio, maximum: 1.0

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

Interpretive groups

Land capability classification (irrigated): None specified

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

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

Description of Pajarito

Setting

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

Typical profile

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

Properties and qualities

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

Interpretive groups

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

Minor Components

Wink

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

Cacique

Percent of map unit: 4 percent
Ecological site: R070BD004NM - Sandy
Hydric soil rating: No

Pajarito

Percent of map unit: 4 percent

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

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

Kermit

Percent of map unit: 3 percent
Ecological site: R070BD005NM - Deep Sand
Hydric soil rating: No

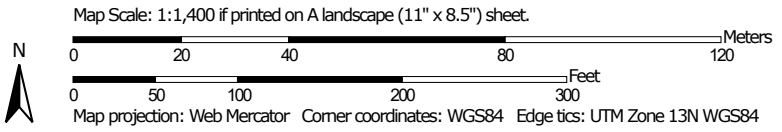
Data Source Information

Soil Survey Area: Eddy Area, New Mexico
Survey Area Data: Version 19, Sep 7, 2023

Soil Map—Eddy Area, New Mexico




Soil Map may not be valid at this scale.



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.

Soil Map—Eddy Area, New Mexico

Map Unit Legend

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

Legend

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

Cotton Draw 13 Federal #1H

Devon Energy
API #30-015-40385
Eddy County, NM
nAPP2110326244
Geologic Unit Map

Cotton Draw 13 Federal #001H

Orla Rd

1



2 mi

Google Earth

Image © 2024 Airbus

APPENDIX C

Initial Form C-141

48-Hour Notification



Pima Environmental Services, LLC
5614 N Lovington Hwy, Hobbs, NM 88240
575-964-7740 | www.pimaoil.com

Roche Federal #001 | nJMW1301749383

DEVON ENERGY PRODUCTION, LP.

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

State of New Mexico
Energy Minerals and Natural
Resources Department

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

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

Incident ID	NAPP2110326244
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

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

Location of Release Source

Latitude 32.1239395 Longitude -103.7380219
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Cotton Draw 13 Federal #001H	Site Type Battery
Date Release Discovered	API# (if applicable) 30-015-40385

Unit Letter	Section	Township	Range	County
M	13	25S	31E	Eddy

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

Nature and Volume of Release

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

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 435	Volume Recovered (bbls) 420
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release: **The, within the containment, water tank ran over. There was a breach in the containment which resulted in impact to the pad. Please see the attached calculations.**

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2110326244
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? The reported volume was over the quantity as specified in 19.15.29.7(A) NMAC
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Notice as sent by A Davis at 10:06 p, on 3/8/21 to OCDonline@state.us.nm and blm_nm_cfo_spill@blm.gov	

Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: <u>Amanda Davis</u>	Title: <u>Environmental Professional</u>
Signature: <u><i>Amanda T. Davis</i></u>	Date: <u>4/10/2021</u>
email: <u>amanda.davis@dvn.com</u>	Telephone: <u>575-748-0176</u>
<u>OCD Only</u> Received by: _____ Date: _____	

Spills In Lined Containment	
Measurements Of Standing Fluid	
Length(Ft)	150
Width(Ft)	26
Depth(in.)	9
Total Capacity without tank displacements (bbls)	520.96
No. of 500 bbl Tanks In Standing Fluid	4
No. of Other Tanks In Standing Fluid	
OD Of Other Tanks In Standing Fluid(feet)	
Total Volume of standing fluid accounting for tank displacement.	420.19



Gio PimaOil <gio@pimaoil.com>

NAPP2110326244 - Liner Inspection Cotton Draw 13 Federal 1H

1 message

Gio PimaOil <gio@pimaoil.com>

Thu, May 11, 2023 at 3:48 PM

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

Good Afternoon,

Pima Environmental would like to notify you that we will be conducting a liner Inspection at the Cotton Draw 13 Federal 1H for the incident NAPP2110326244. Pima personnel are scheduled to be on site for this Inspection event at approximately 8:00 a.m. On Sunday, May 14, 2023. If you have any questions or concerns, please let me know. Thank you

--

Gio Gomez

Project Manager

cell-806-782-1151

Office- 575-964-7740

Pima Environmental Services, LLC.

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

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

QUESTIONS

Action 299181

QUESTIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 299181
	Action Type: [NOTIFY] Notification Of Liner Inspection (C-141L)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2110326244
Incident Name	NAPP2110326244 COTTON DRAW 13 FEDERAL #1H @ 30-015-40385
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-015-40385] COTTON DRAW 13 FEDERAL #001H

Location of Release Source	
Site Name	COTTON DRAW 13 FEDERAL #1H
Date Release Discovered	03/08/2021
Surface Owner	Federal

Liner Inspection Event Information	
<i>Please answer all the questions in this group.</i>	
What is the liner inspection surface area in square feet	3,940
Have all the impacted materials been removed from the liner	Yes
Liner inspection date pursuant to Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC	01/05/2024
Time liner inspection will commence	09:00 AM
Please provide any information necessary for observers to liner inspection	visually inspected for any pinholes or punctures, will be conducted by Andrew Franco 806-200-0054
Please provide any information necessary for navigation to liner inspection site	M-13-25S-31E, (32.1239395, -103.7380219 NAD83) From the intersection of NM 128 and Orla Rd, travel south on Orla Rd for 6.26 miles, turn West on Monsanto Ln lease road for 2.06 miles, turn North on lease road for 0.80 of a miles, turn West for lease Road 1.98 miles, then turn South on lease road 0.68 of a mile arriving to location.

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

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

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

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

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

CONDITIONS

Action 299181

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 299181
	Action Type: [NOTIFY] Notification Of Liner Inspection (C-141L)

CONDITIONS

Created By	Condition	Condition Date
wdale	Failure to notify the OCD of liner inspections including any changes in date/time per the requirements of 19.15.29.11.A(5)(a)(ii) NMAC, may result in the inspection not being accepted.	1/2/2024

APPENDIX D

Photographic Documentation

Liner Inspection Form



Pima Environmental Services, LLC
5614 N Lovington Hwy, Hobbs, NM 88240
575-964-7740 | www.pimaoil.com

Roche Federal #001 | nJMW1301749383

DEVON ENERGY PRODUCTION, LP.



+32.123985,-103.738384
 Eddy County
 Devon
 Cotton Draw 13 Federal 001H
 Assessment
 6244



+32.124139,-103.738371
 Eddy County
 Devon
 Cotton Draw 13 Federal 001H
 Assessment
 6244

+32.124476,-103.738448
 Eddy County
 Devon
 Cotton Draw 13 Federal 001H
 Assessment
 6244

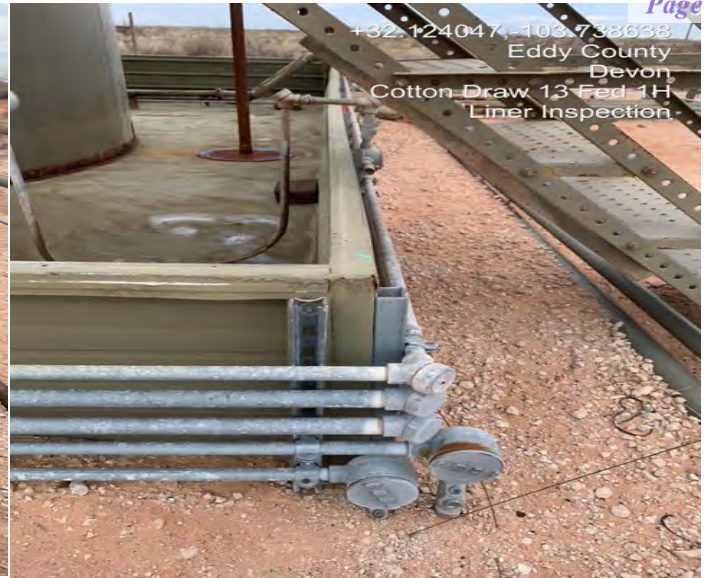


+32.124476,-103.738448
 Eddy County
 Devon
 Cotton Draw 13 Federal 001H
 Assessment
 6244

+32.123685,-103.738647
 Eddy County
 Devon
 Cotton Draw 13 Federal 001H
 Assessment
 6244



+32.124047, -103.738638
Eddy County
Devon
Cotton Draw 13 Fed 1H
Liner Inspection



+32.124047, -103.738638
Eddy County
Devon
Cotton Draw 13 Fed 1H
Liner Inspection



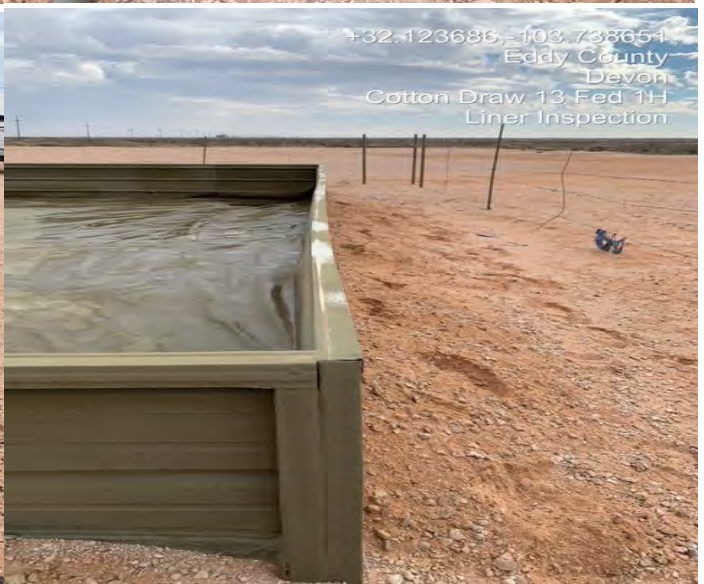
+32.124047, -103.738638
Eddy County
Devon
Cotton Draw 13 Fed 1H
Liner Inspection



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Eddy County
Devon
Cotton Draw 13 Fed 1H
Liner Inspection



+32.123698, -103.738603
Eddy County
Devon
Cotton Draw 13 Fed 1H
Liner Inspection



+32.123686, -103.738651
Eddy County
Devon
Cotton Draw 13 Fed 1H
Liner Inspection



+32.123793.-103.738703
Eddy County
Devon
Cotton Draw 13 Fed 1H
Liner Inspection



+32.123639.-103.738547
Eddy County
Devon
Cotton Draw 13 Fed 1H
Liner Inspection



+32.123745.-103.738526
Cotton Draw 13 Fed 1H
Devon
Liner Patch



+32.123745.-103.738526
Cotton Draw 13 Fed 1H
Devon
Liner Patch



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Cotton Draw 13 Fed 1H
Devon
Liner Patch

+32.123650,-103.738217
Eddy County
Devon
Cotton draw 13 federal 1H
Assessment

+32.123606,-103.738358
Eddy County
Devon
Cotton draw 13 federal 1H
Assessment



+32.123742,-103.738472
Eddy County
Devon
Cotton draw 13 federal 1H
Assessment

+32.123475,-103.738512
Eddy County
Devon
Cotton draw 13 federal 1H
Assessment



+32.123475,-103.738512
Eddy County
Devon
Cotton draw 13 federal 1H
Assessment

+32.123622,-103.738406
Eddy County
Devon
Cotton Draw 13 Fed 1H
Assessment









Pima Environmental Services, LLC

Liner Inspection Form

Company Name: Devon Energy

Site: Cotton Draw 13 Federal #1H

Lat/Long: 32.1239395, -103.7380219

NMOCD Incident ID & Incident Date: NAPP2110326244 3/8/2021

2-Day Notification Sent: OCD Online: Permitting – Action ID 299181

Inspection Date: 1/5/2024

Liner Type: Earthen w/liner Earthen no liner Polystar

Steel w/poly liner Steel w/spray epoxy No Liner

Other: _____

Visualization	Yes	No	Comments
Is there a tear in the liner?		X	
Are there holes in the liner?		X	
Is the liner retaining any fluids?		X	Traces from recent power washing
Does the liner have the integrity to contain a leak?	X		

Comments: Patches are solid, and very well bonded

Inspector Name: Andrew Franco Inspector Signature: Andrew Franco

APPENDIX E

Laboratory Reports

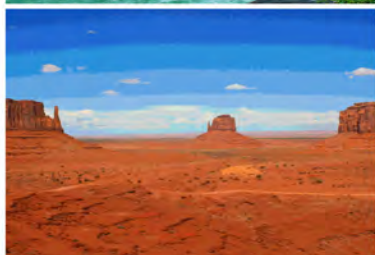


Pima Environmental Services, LLC
5614 N Lovington Hwy, Hobbs, NM 88240
575-964-7740 | www.pimaoil.com

Roche Federal #001 | nJMW1301749383

DEVON ENERGY PRODUCTION, LP.

Report to:
Tom Bynum



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Pima Environmental Services-Carlsbad

Project Name: Cotton Draw 13 Fed. 001 H

Work Order: E305082

Job Number: 01058-0007

Received: 5/15/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
5/19/23

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 5/19/23



Tom Bynum
PO Box 247
Plains, TX 79355-0247

Project Name: Cotton Draw 13 Fed. 001 H
Workorder: E305082
Date Received: 5/15/2023 5:00:00AM

Tom Bynum,

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

The analytical test results summarized in this report with the Project Name: Cotton Draw 13 Fed. 001 H apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman
Laboratory Director
Office: 505-632-1881
Cell: 775-287-1762
whinchman@envirotech-inc.com

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

Alexa Michaels
Sample Custody Officer
Office: 505-632-1881
labadmin@envirotech-inc.com

Field Offices:

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

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

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Cotton Draw 13 Fed. 001 H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 05/19/23 08:50
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
S1-1'	E305082-01A	Soil	05/10/23	05/15/23	Glass Jar, 2 oz.
S1-2'	E305082-02A	Soil	05/10/23	05/15/23	Glass Jar, 2 oz.
S1-3'	E305082-03A	Soil	05/10/23	05/15/23	Glass Jar, 2 oz.
S2-1'	E305082-04A	Soil	05/10/23	05/15/23	Glass Jar, 2 oz.
S2-2'	E305082-05A	Soil	05/10/23	05/15/23	Glass Jar, 2 oz.
S2-3'	E305082-06A	Soil	05/10/23	05/15/23	Glass Jar, 2 oz.
S3-1'	E305082-07A	Soil	05/10/23	05/15/23	Glass Jar, 2 oz.
S3-2'	E305082-08A	Soil	05/10/23	05/15/23	Glass Jar, 2 oz.
S3-3'	E305082-09A	Soil	05/10/23	05/15/23	Glass Jar, 2 oz.
SW-1'	E305082-10A	Soil	05/10/23	05/15/23	Glass Jar, 2 oz.
SW-2	E305082-11A	Soil	05/10/23	05/15/23	Glass Jar, 2 oz.
SW-3	E305082-12A	Soil	05/10/23	05/15/23	Glass Jar, 2 oz.
SW-4	E305082-13A	Soil	05/10/23	05/15/23	Glass Jar, 2 oz.
BG-1	E305082-14A	Soil	05/10/23	05/15/23	Glass Jar, 2 oz.

Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Cotton Draw 13 Fed. 001 H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 5/19/2023 8:50:49AM
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S1-1'

E305082-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2320014
Benzene	ND	0.0250	1	05/15/23	05/16/23	
Ethylbenzene	ND	0.0250	1	05/15/23	05/16/23	
Toluene	ND	0.0250	1	05/15/23	05/16/23	
o-Xylene	ND	0.0250	1	05/15/23	05/16/23	
p,m-Xylene	ND	0.0500	1	05/15/23	05/16/23	
Total Xylenes	ND	0.0250	1	05/15/23	05/16/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.4 %	70-130		05/15/23	05/16/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2320014
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/15/23	05/16/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.0 %	70-130		05/15/23	05/16/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2320061
Diesel Range Organics (C10-C28)	ND	25.0	1	05/17/23	05/17/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/17/23	05/17/23	
<i>Surrogate: n-Nonane</i>						
	87.7 %	50-200		05/17/23	05/17/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2320035
Chloride	ND	20.0	1	05/16/23	05/16/23	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Cotton Draw 13 Fed. 001 H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 5/19/2023 8:50:49AM
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S1-2'

E305082-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: RKS		Batch: 2320014
Benzene	ND	0.0250	1	05/15/23	05/16/23	
Ethylbenzene	ND	0.0250	1	05/15/23	05/16/23	
Toluene	ND	0.0250	1	05/15/23	05/16/23	
o-Xylene	ND	0.0250	1	05/15/23	05/16/23	
p,m-Xylene	ND	0.0500	1	05/15/23	05/16/23	
Total Xylenes	ND	0.0250	1	05/15/23	05/16/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		97.5 %	70-130	05/15/23	05/16/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RKS		Batch: 2320014
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/15/23	05/16/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		89.5 %	70-130	05/15/23	05/16/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: JL		Batch: 2320061
Diesel Range Organics (C10-C28)	ND	25.0	1	05/17/23	05/17/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/17/23	05/17/23	
<i>Surrogate: n-Nonane</i>		86.9 %	50-200	05/17/23	05/17/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2320035
Chloride	ND	20.0	1	05/16/23	05/16/23	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Cotton Draw 13 Fed. 001 H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 5/19/2023 8:50:49AM
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S1-3'

E305082-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: RKS		Batch: 2320014
Benzene	ND	0.0250	1	05/15/23	05/16/23	
Ethylbenzene	ND	0.0250	1	05/15/23	05/16/23	
Toluene	ND	0.0250	1	05/15/23	05/16/23	
o-Xylene	ND	0.0250	1	05/15/23	05/16/23	
p,m-Xylene	ND	0.0500	1	05/15/23	05/16/23	
Total Xylenes	ND	0.0250	1	05/15/23	05/16/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		98.5 %	70-130	05/15/23	05/16/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RKS		Batch: 2320014
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/15/23	05/16/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		90.5 %	70-130	05/15/23	05/16/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: JL		Batch: 2320061
Diesel Range Organics (C10-C28)	ND	25.0	1	05/17/23	05/17/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/17/23	05/17/23	
<i>Surrogate: n-Nonane</i>		89.7 %	50-200	05/17/23	05/17/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2320035
Chloride	ND	20.0	1	05/16/23	05/16/23	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Cotton Draw 13 Fed. 001 H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 5/19/2023 8:50:49AM
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S2-1'

E305082-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: RKS		Batch: 2320014
Benzene	ND	0.0250	1	05/15/23	05/16/23	
Ethylbenzene	ND	0.0250	1	05/15/23	05/16/23	
Toluene	ND	0.0250	1	05/15/23	05/16/23	
o-Xylene	ND	0.0250	1	05/15/23	05/16/23	
p,m-Xylene	ND	0.0500	1	05/15/23	05/16/23	
Total Xylenes	ND	0.0250	1	05/15/23	05/16/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		97.3 %	70-130	05/15/23	05/16/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RKS		Batch: 2320014
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/15/23	05/16/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		90.2 %	70-130	05/15/23	05/16/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: JL		Batch: 2320061
Diesel Range Organics (C10-C28)	ND	25.0	1	05/17/23	05/17/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/17/23	05/17/23	
<i>Surrogate: n-Nonane</i>		86.2 %	50-200	05/17/23	05/17/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2320035
Chloride	ND	20.0	1	05/16/23	05/16/23	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Cotton Draw 13 Fed. 001 H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 5/19/2023 8:50:49AM
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S2-2'

E305082-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: RKS		Batch: 2320014
Benzene	ND	0.0250	1	05/15/23	05/16/23	
Ethylbenzene	ND	0.0250	1	05/15/23	05/16/23	
Toluene	ND	0.0250	1	05/15/23	05/16/23	
o-Xylene	ND	0.0250	1	05/15/23	05/16/23	
p,m-Xylene	ND	0.0500	1	05/15/23	05/16/23	
Total Xylenes	ND	0.0250	1	05/15/23	05/16/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		97.6 %	70-130	05/15/23	05/16/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RKS		Batch: 2320014
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/15/23	05/16/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		91.2 %	70-130	05/15/23	05/16/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: JL		Batch: 2320061
Diesel Range Organics (C10-C28)	ND	25.0	1	05/17/23	05/17/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/17/23	05/17/23	
<i>Surrogate: n-Nonane</i>		86.5 %	50-200	05/17/23	05/17/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2320035
Chloride	ND	20.0	1	05/16/23	05/16/23	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Cotton Draw 13 Fed. 001 H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 5/19/2023 8:50:49AM
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S2-3'

E305082-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: RKS		Batch: 2320014
Benzene	ND	0.0250	1	05/15/23	05/16/23	
Ethylbenzene	ND	0.0250	1	05/15/23	05/16/23	
Toluene	ND	0.0250	1	05/15/23	05/16/23	
o-Xylene	ND	0.0250	1	05/15/23	05/16/23	
p,m-Xylene	ND	0.0500	1	05/15/23	05/16/23	
Total Xylenes	ND	0.0250	1	05/15/23	05/16/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		96.6 %	70-130	05/15/23	05/16/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RKS		Batch: 2320014
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/15/23	05/16/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		90.9 %	70-130	05/15/23	05/16/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: JL		Batch: 2320061
Diesel Range Organics (C10-C28)	ND	25.0	1	05/17/23	05/17/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/17/23	05/17/23	
<i>Surrogate: n-Nonane</i>		86.4 %	50-200	05/17/23	05/17/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2320035
Chloride	ND	20.0	1	05/16/23	05/16/23	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Cotton Draw 13 Fed. 001 H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 5/19/2023 8:50:49AM
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S3-1'

E305082-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: RKS		Batch: 2320014
Benzene	ND	0.0250	1	05/15/23	05/16/23	
Ethylbenzene	ND	0.0250	1	05/15/23	05/16/23	
Toluene	ND	0.0250	1	05/15/23	05/16/23	
o-Xylene	ND	0.0250	1	05/15/23	05/16/23	
p,m-Xylene	ND	0.0500	1	05/15/23	05/16/23	
Total Xylenes	ND	0.0250	1	05/15/23	05/16/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		96.7 %	70-130	05/15/23	05/16/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RKS		Batch: 2320014
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/15/23	05/16/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		89.5 %	70-130	05/15/23	05/16/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: JL		Batch: 2320061
Diesel Range Organics (C10-C28)	ND	25.0	1	05/17/23	05/17/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/17/23	05/17/23	
<i>Surrogate: n-Nonane</i>		88.7 %	50-200	05/17/23	05/17/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2320035
Chloride	ND	20.0	1	05/16/23	05/16/23	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Cotton Draw 13 Fed. 001 H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 5/19/2023 8:50:49AM
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S3-2'

E305082-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2320014
Benzene	ND	0.0250	1	05/15/23	05/16/23	
Ethylbenzene	ND	0.0250	1	05/15/23	05/16/23	
Toluene	ND	0.0250	1	05/15/23	05/16/23	
o-Xylene	ND	0.0250	1	05/15/23	05/16/23	
p,m-Xylene	ND	0.0500	1	05/15/23	05/16/23	
Total Xylenes	ND	0.0250	1	05/15/23	05/16/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		96.5 %	70-130	05/15/23	05/16/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2320014
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/15/23	05/16/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		88.4 %	70-130	05/15/23	05/16/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2320061
Diesel Range Organics (C10-C28)	ND	25.0	1	05/17/23	05/17/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/17/23	05/17/23	
<i>Surrogate: n-Nonane</i>						
		89.5 %	50-200	05/17/23	05/17/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2320035
Chloride	ND	20.0	1	05/16/23	05/16/23	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Cotton Draw 13 Fed. 001 H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 5/19/2023 8:50:49AM
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S3-3'

E305082-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2320014
Benzene	ND	0.0250	1	05/15/23	05/16/23	
Ethylbenzene	ND	0.0250	1	05/15/23	05/16/23	
Toluene	ND	0.0250	1	05/15/23	05/16/23	
o-Xylene	ND	0.0250	1	05/15/23	05/16/23	
p,m-Xylene	ND	0.0500	1	05/15/23	05/16/23	
Total Xylenes	ND	0.0250	1	05/15/23	05/16/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		96.2 %	70-130	05/15/23	05/16/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2320014
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/15/23	05/16/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		88.8 %	70-130	05/15/23	05/16/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2320061
Diesel Range Organics (C10-C28)	ND	25.0	1	05/17/23	05/17/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/17/23	05/17/23	
<i>Surrogate: n-Nonane</i>						
		90.1 %	50-200	05/17/23	05/17/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2320035
Chloride	ND	20.0	1	05/16/23	05/16/23	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Cotton Draw 13 Fed. 001 H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 5/19/2023 8:50:49AM
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SW-1'
E305082-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2320014
Benzene	ND	0.0250	1	05/15/23	05/16/23	
Ethylbenzene	ND	0.0250	1	05/15/23	05/16/23	
Toluene	ND	0.0250	1	05/15/23	05/16/23	
o-Xylene	ND	0.0250	1	05/15/23	05/16/23	
p,m-Xylene	ND	0.0500	1	05/15/23	05/16/23	
Total Xylenes	ND	0.0250	1	05/15/23	05/16/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		98.0 %	70-130	05/15/23	05/16/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2320014
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/15/23	05/16/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		90.5 %	70-130	05/15/23	05/16/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2320061
Diesel Range Organics (C10-C28)	ND	25.0	1	05/17/23	05/17/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/17/23	05/17/23	
<i>Surrogate: n-Nonane</i>						
		89.7 %	50-200	05/17/23	05/17/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2320035
Chloride	ND	20.0	1	05/16/23	05/16/23	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Cotton Draw 13 Fed. 001 H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 5/19/2023 8:50:49AM
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SW-2

E305082-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: RKS		Batch: 2320014
Benzene	ND	0.0250	1	05/15/23	05/16/23	
Ethylbenzene	ND	0.0250	1	05/15/23	05/16/23	
Toluene	ND	0.0250	1	05/15/23	05/16/23	
o-Xylene	ND	0.0250	1	05/15/23	05/16/23	
p,m-Xylene	ND	0.0500	1	05/15/23	05/16/23	
Total Xylenes	ND	0.0250	1	05/15/23	05/16/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		97.1 %	70-130	05/15/23	05/16/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RKS		Batch: 2320014
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/15/23	05/16/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		91.4 %	70-130	05/15/23	05/16/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: JL		Batch: 2320061
Diesel Range Organics (C10-C28)	ND	25.0	1	05/17/23	05/18/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/17/23	05/18/23	
<i>Surrogate: n-Nonane</i>		89.8 %	50-200	05/17/23	05/18/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2320035
Chloride	ND	20.0	1	05/16/23	05/16/23	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Cotton Draw 13 Fed. 001 H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 5/19/2023 8:50:49AM
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SW-3

E305082-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2320014
Benzene	ND	0.0250	1	05/15/23	05/16/23	
Ethylbenzene	ND	0.0250	1	05/15/23	05/16/23	
Toluene	ND	0.0250	1	05/15/23	05/16/23	
o-Xylene	ND	0.0250	1	05/15/23	05/16/23	
p,m-Xylene	ND	0.0500	1	05/15/23	05/16/23	
Total Xylenes	ND	0.0250	1	05/15/23	05/16/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		96.6 %	70-130	05/15/23	05/16/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2320014
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/15/23	05/16/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		92.7 %	70-130	05/15/23	05/16/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2320061
Diesel Range Organics (C10-C28)	ND	25.0	1	05/17/23	05/18/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/17/23	05/18/23	
<i>Surrogate: n-Nonane</i>						
		90.3 %	50-200	05/17/23	05/18/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2320035
Chloride	ND	20.0	1	05/16/23	05/16/23	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Cotton Draw 13 Fed. 001 H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 5/19/2023 8:50:49AM
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SW-4

E305082-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2320014
Benzene	ND	0.0250	1	05/15/23	05/16/23	
Ethylbenzene	ND	0.0250	1	05/15/23	05/16/23	
Toluene	ND	0.0250	1	05/15/23	05/16/23	
o-Xylene	ND	0.0250	1	05/15/23	05/16/23	
p,m-Xylene	ND	0.0500	1	05/15/23	05/16/23	
Total Xylenes	ND	0.0250	1	05/15/23	05/16/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		97.5 %	70-130	05/15/23	05/16/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2320014
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/15/23	05/16/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		89.6 %	70-130	05/15/23	05/16/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2320061
Diesel Range Organics (C10-C28)	ND	25.0	1	05/17/23	05/18/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/17/23	05/18/23	
<i>Surrogate: n-Nonane</i>						
		88.3 %	50-200	05/17/23	05/18/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2320035
Chloride	ND	20.0	1	05/16/23	05/16/23	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Cotton Draw 13 Fed. 001 H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 5/19/2023 8:50:49AM
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BG-1
E305082-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2320014
Benzene	ND	0.0250	1	05/15/23	05/16/23	
Ethylbenzene	ND	0.0250	1	05/15/23	05/16/23	
Toluene	ND	0.0250	1	05/15/23	05/16/23	
o-Xylene	ND	0.0250	1	05/15/23	05/16/23	
p,m-Xylene	ND	0.0500	1	05/15/23	05/16/23	
Total Xylenes	ND	0.0250	1	05/15/23	05/16/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		96.0 %	70-130	05/15/23	05/16/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2320014
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/15/23	05/16/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		89.5 %	70-130	05/15/23	05/16/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2320061
Diesel Range Organics (C10-C28)	ND	25.0	1	05/17/23	05/18/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/17/23	05/18/23	
<i>Surrogate: n-Nonane</i>						
		86.4 %	50-200	05/17/23	05/18/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2320035
Chloride	ND	20.0	1	05/16/23	05/16/23	



QC Summary Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Cotton Draw 13 Fed. 001 H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 5/19/2023 8:50:49AM
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Volatile Organics by EPA 8021B

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2320014-BLK1)

Prepared: 05/15/23 Analyzed: 05/16/23

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.65		8.00		95.6	70-130			

LCS (2320014-BS1)

Prepared: 05/15/23 Analyzed: 05/18/23

Benzene	4.57	0.0250	5.00		91.4	70-130			
Ethylbenzene	4.75	0.0250	5.00		95.0	70-130			
Toluene	4.83	0.0250	5.00		96.7	70-130			
o-Xylene	4.87	0.0250	5.00		97.4	70-130			
p,m-Xylene	9.64	0.0500	10.0		96.4	70-130			
Total Xylenes	14.5	0.0250	15.0		96.8	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.98		8.00		99.8	70-130			

Matrix Spike (2320014-MS1)

Source: E305082-01

Prepared: 05/15/23 Analyzed: 05/16/23

Benzene	4.49	0.0250	5.00	ND	89.8	54-133			
Ethylbenzene	4.81	0.0250	5.00	ND	96.2	61-133			
Toluene	4.85	0.0250	5.00	ND	97.0	61-130			
o-Xylene	4.95	0.0250	5.00	ND	99.1	63-131			
p,m-Xylene	9.79	0.0500	10.0	ND	97.9	63-131			
Total Xylenes	14.7	0.0250	15.0	ND	98.3	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.94		8.00		99.2	70-130			

Matrix Spike Dup (2320014-MSD1)

Source: E305082-01

Prepared: 05/15/23 Analyzed: 05/16/23

Benzene	4.28	0.0250	5.00	ND	85.7	54-133	4.76	20	
Ethylbenzene	4.58	0.0250	5.00	ND	91.7	61-133	4.83	20	
Toluene	4.62	0.0250	5.00	ND	92.4	61-130	4.85	20	
o-Xylene	4.71	0.0250	5.00	ND	94.2	63-131	5.01	20	
p,m-Xylene	9.34	0.0500	10.0	ND	93.4	63-131	4.77	20	
Total Xylenes	14.0	0.0250	15.0	ND	93.7	63-131	4.85	20	
Surrogate: 4-Bromochlorobenzene-PID	7.89		8.00		98.6	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Cotton Draw 13 Fed. 001 H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 5/19/2023 8:50:49AM
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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 (2320014-BLK1)

Prepared: 05/15/23 Analyzed: 05/16/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.19		8.00		89.8	70-130			

LCS (2320014-BS2)

Prepared: 05/15/23 Analyzed: 05/16/23

Gasoline Range Organics (C6-C10)	45.0	20.0	50.0		90.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.34		8.00		91.8	70-130			

Matrix Spike (2320014-MS2)

Source: E305082-01

Prepared: 05/15/23 Analyzed: 05/18/23

Gasoline Range Organics (C6-C10)	47.0	20.0	50.0	ND	94.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.02		8.00		87.7	70-130			

Matrix Spike Dup (2320014-MSD2)

Source: E305082-01

Prepared: 05/15/23 Analyzed: 05/17/23

Gasoline Range Organics (C6-C10)	49.1	20.0	50.0	ND	98.2	70-130	4.29	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.18		8.00		89.8	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Cotton Draw 13 Fed. 001 H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 5/19/2023 8:50:49AM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2320061-BLK1)

Prepared: 05/17/23 Analyzed: 05/17/23

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

LCS (2320061-BS1)

Prepared: 05/17/23 Analyzed: 05/17/23

Diesel Range Organics (C10-C28)	233	25.0	250		93.2	38-132			
Surrogate: n-Nonane	42.6		50.0		85.1	50-200			

Matrix Spike (2320061-MS1)

Source: E305092-05

Prepared: 05/17/23 Analyzed: 05/17/23

Diesel Range Organics (C10-C28)	230	25.0	250	ND	92.1	38-132			
Surrogate: n-Nonane	42.5		50.0		85.0	50-200			

Matrix Spike Dup (2320061-MSD1)

Source: E305092-05

Prepared: 05/17/23 Analyzed: 05/18/23

Diesel Range Organics (C10-C28)	228	25.0	250	ND	91.2	38-132	0.926	20	
Surrogate: n-Nonane	42.7		50.0		85.4	50-200			



QC Summary Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Cotton Draw 13 Fed. 001 H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 5/19/2023 8:50:49AM
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Anions by EPA 300.0/9056A

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2320035-BLK1)

Prepared: 05/16/23 Analyzed: 05/16/23

Chloride ND 20.0

LCS (2320035-BS1)

Prepared: 05/16/23 Analyzed: 05/16/23

Chloride 245 20.0 250 98.0 90-110

Matrix Spike (2320035-MS1)

Source: E305082-01

Prepared: 05/16/23 Analyzed: 05/16/23

Chloride 252 20.0 250 ND 101 80-120

Matrix Spike Dup (2320035-MSD1)

Source: E305082-01

Prepared: 05/16/23 Analyzed: 05/16/23

Chloride 250 20.0 250 ND 100 80-120 0.839 20

QC Summary Report Comment:

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



Definitions and Notes

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw 13 Fed. 001 H	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	05/19/23 08:50

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.



Released to Imaging 2/19/2025 12:53:46 PM

Project Information

Chain of Custody

Client: Pima Environmental Services
 Project: Cotton Down 13 Fed. 0014
 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 # 283-2

Lab Use Only		TAT			EPA Program		
Lab WCH#	Job Number	1D	2D	3D	Standard	CWA	SDWA
305052	0056-0001				X		
Analysis and Method						RCRA	

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	Remarks
8:00	5/10/23	S	1	S1-1'	1									
8:05				S1-2'	2									
8:10				S1-3'	3									
8:15				S2-1'	4									
8:20				S2-2'	5									
8:25				S2-3'	6									
8:30				S3-1'	7									
8:35				S3-2'	8									
8:40				S3-3'	9									
8:45				SW-1'	10									

Additional Instructions: Billing # 21146265

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

Relinquished by: (Signature) Korine Hume	Date 5/12/23	Time 200	Received by: (Signature) Michelle Cumpala	Date 5-12-23	Time 1400	Lab Use Only Received on ice: <input checked="" type="radio"/> Y / <input type="radio"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C 4
Relinquished by: (Signature) Michelle Cumpala	Date 5-12-23	Time 1700	Received by: (Signature) Andrew M...	Date 5-12-23	Time 1700	
Relinquished by: (Signature) Andrew M...	Date 5-12-23	Time 2300	Received by: (Signature) Alex...	Date 5-12-23	Time 1500	

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.



Received by: OCD: 2/18/2025 6:28:15 AM

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Project Information

Chain of Custody

Client: Pima Environmental Services
 Project: Cotton Drive 13 Red COI H
 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 # 283-2

Lab Use Only		TAT				EPA Program	
Lab Work	Job Number	1D	2D	3D	Standard	CWA	SDWA
283-2	0105X-000				X		
Analysis and Method							
DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	Remarks
8:50	5/10/23	S	1	SW-2	11									
8:55				SW-3	12									
9:00				SW-4	13									
9:05				BG-1	14									

Additional Instructions: Billing H 21146265

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.
 Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature) Karime Adams	Date 5/12/23	Time 200	Received by: (Signature) Michelle Kemyala	Date 5/12/23	Time 1400	Lab Use Only Received on ice: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N T1 T2 T3 AVG Temp °C 4
Relinquished by: (Signature) Michelle Kemyala	Date 5-12-23	Time 1700	Received by: (Signature) Andrew Mosa	Date 5.12.23	Time 1700	
Relinquished by: (Signature) Andrew Mosa	Date 5.12.23	Time 2300	Received by: (Signature) [Signature]	Date 5/12/23	Time 500	

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

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



Envirotech Analytical Laboratory

Printed: 5/15/2023 7:17:18AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client: Pima Environmental Services-Carlsbad Date Received: 05/15/23 05:00 Work Order ID: E305082
Phone: (575) 631-6977 Date Logged In: 05/15/23 07:13 Logged In By: Alexa Michaels
Email: tom@pimaoil.com Due Date: 05/19/23 17:00 (4 day TAT)

Chain of Custody (COC)

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

Carrier: Courier

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

Comments/Resolution

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Client Instruction

Empty box for client instruction.

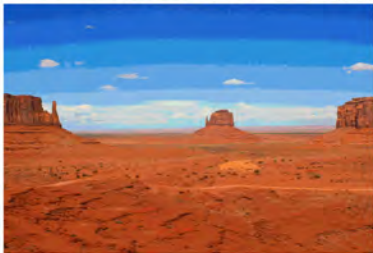
Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

Report to:
Gio Gomez



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Pima Environmental Services-Carlsbad

Project Name: Cotton Draw 13 Federal 1H

Work Order: E403123

Job Number: 01058-0007

Received: 3/13/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
3/19/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 3/19/24



Gio Gomez
PO Box 247
Plains, TX 79355-0247

Project Name: Cotton Draw 13 Federal 1H
Workorder: E403123
Date Received: 3/13/2024 7:00:00AM

Gio Gomez,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 3/13/2024 7:00:00AM, under the Project Name: Cotton Draw 13 Federal 1H.

The analytical test results summarized in this report with the Project Name: Cotton Draw 13 Federal 1H apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman
Laboratory Director
Office: 505-632-1881
Cell: 775-287-1762
whinchman@envirotech-inc.com

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

Alexa Michaels
Sample Custody Officer
Office: 505-632-1881
labadmin@envirotech-inc.com

Field Offices:

Southern New Mexico Area

Lynn Jarboe
Laboratory Technical Representative
Office: 505-421-LABS(5227)
Cell: 505-320-4759
ljjarboe@envirotech-inc.com

Michelle Golzales
Client Representative
Office: 505-421-LABS(5227)
Cell: 505-947-8222
mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

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

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

Reported:
03/19/24 16:47

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
S1 -1'	E403123-01A	Soil	03/11/24	03/13/24	Glass Jar, 2 oz.
S1 -2'	E403123-02A	Soil	03/11/24	03/13/24	Glass Jar, 2 oz.
S1 -3'	E403123-03A	Soil	03/11/24	03/13/24	Glass Jar, 2 oz.
S1 -4'	E403123-04A	Soil	03/11/24	03/13/24	Glass Jar, 2 oz.
S2 -1'	E403123-05A	Soil	03/11/24	03/13/24	Glass Jar, 2 oz.
S2 -2'	E403123-06A	Soil	03/11/24	03/13/24	Glass Jar, 2 oz.
S2 -3'	E403123-07A	Soil	03/11/24	03/13/24	Glass Jar, 2 oz.
S2 -4'	E403123-08A	Soil	03/11/24	03/13/24	Glass Jar, 2 oz.
S3 -1'	E403123-09A	Soil	03/11/24	03/13/24	Glass Jar, 2 oz.
S3 -2'	E403123-10A	Soil	03/11/24	03/13/24	Glass Jar, 2 oz.
S3 -3'	E403123-11A	Soil	03/11/24	03/13/24	Glass Jar, 2 oz.
S3 -4'	E403123-12A	Soil	03/11/24	03/13/24	Glass Jar, 2 oz.
S4 -1'	E403123-13A	Soil	03/11/24	03/13/24	Glass Jar, 2 oz.
S14	E403123-14A	Solid	03/12/24	03/13/24	Glass Jar, 2 oz.
S4 -3'	E403123-15A	Soil	03/12/24	03/13/24	Glass Jar, 2 oz.
S4 -4'	E403123-16A	Soil	03/11/24	03/13/24	Glass Jar, 2 oz.
SW1	E403123-17A	Soil	03/11/24	03/13/24	Glass Jar, 2 oz.
SW2	E403123-18A	Soil	03/11/24	03/13/24	Glass Jar, 2 oz.
SW3	E403123-19A	Soil	03/11/24	03/13/24	Glass Jar, 2 oz.
SW4	E403123-20A	Soil	03/11/24	03/13/24	Glass Jar, 2 oz.
SW5	E403123-21A	Soil	03/11/24	03/13/24	Glass Jar, 2 oz.
SW6	E403123-22A	Soil	03/11/24	03/13/24	Glass Jar, 2 oz.
SW7	E403123-23A	Soil	03/11/24	03/13/24	Glass Jar, 2 oz.
BG1	E403123-24A	Soil	03/11/24	03/13/24	Glass Jar, 2 oz.



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Cotton Draw 13 Federal 1H Project Number: 01058-0007 Project Manager: Gio Gomez	Reported: 3/19/2024 4:47:36PM
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S1 -1'
E403123-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: RAS		Batch: 2411079
Benzene	ND	0.0250	1	03/13/24	03/18/24	
Ethylbenzene	ND	0.0250	1	03/13/24	03/18/24	
Toluene	ND	0.0250	1	03/13/24	03/18/24	
o-Xylene	ND	0.0250	1	03/13/24	03/18/24	
p,m-Xylene	ND	0.0500	1	03/13/24	03/18/24	
Total Xylenes	ND	0.0250	1	03/13/24	03/18/24	
<i>Surrogate: Bromofluorobenzene</i>		106 %	70-130	03/13/24	03/18/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98.9 %	70-130	03/13/24	03/18/24	
<i>Surrogate: Toluene-d8</i>		104 %	70-130	03/13/24	03/18/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RAS		Batch: 2411079
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/13/24	03/18/24	
<i>Surrogate: Bromofluorobenzene</i>		106 %	70-130	03/13/24	03/18/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98.9 %	70-130	03/13/24	03/18/24	
<i>Surrogate: Toluene-d8</i>		104 %	70-130	03/13/24	03/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2411135
Diesel Range Organics (C10-C28)	ND	25.0	1	03/15/24	03/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/15/24	03/16/24	
<i>Surrogate: n-Nonane</i>		86.9 %	50-200	03/15/24	03/16/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2412018
Chloride	2160	40.0	2	03/18/24	03/19/24	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Cotton Draw 13 Federal 1H Project Number: 01058-0007 Project Manager: Gio Gomez	Reported: 3/19/2024 4:47:36PM
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S1 -2'

E403123-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: RAS		Batch: 2411079
Benzene	ND	0.0250	1	03/13/24	03/18/24	
Ethylbenzene	ND	0.0250	1	03/13/24	03/18/24	
Toluene	ND	0.0250	1	03/13/24	03/18/24	
o-Xylene	ND	0.0250	1	03/13/24	03/18/24	
p,m-Xylene	ND	0.0500	1	03/13/24	03/18/24	
Total Xylenes	ND	0.0250	1	03/13/24	03/18/24	
<i>Surrogate: Bromofluorobenzene</i>		103 %	70-130	03/13/24	03/18/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98.8 %	70-130	03/13/24	03/18/24	
<i>Surrogate: Toluene-d8</i>		103 %	70-130	03/13/24	03/18/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RAS		Batch: 2411079
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/13/24	03/18/24	
<i>Surrogate: Bromofluorobenzene</i>		103 %	70-130	03/13/24	03/18/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98.8 %	70-130	03/13/24	03/18/24	
<i>Surrogate: Toluene-d8</i>		103 %	70-130	03/13/24	03/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2411135
Diesel Range Organics (C10-C28)	ND	25.0	1	03/15/24	03/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/15/24	03/16/24	
<i>Surrogate: n-Nonane</i>		84.6 %	50-200	03/15/24	03/16/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2412018
Chloride	329	20.0	1	03/18/24	03/19/24	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Cotton Draw 13 Federal 1H Project Number: 01058-0007 Project Manager: Gio Gomez	Reported: 3/19/2024 4:47:36PM
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S1 -3'

E403123-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B		mg/kg	mg/kg	Analyst: RAS		Batch: 2411079
Benzene	ND	0.0250	1	03/13/24	03/18/24	
Ethylbenzene	ND	0.0250	1	03/13/24	03/18/24	
Toluene	ND	0.0250	1	03/13/24	03/18/24	
o-Xylene	ND	0.0250	1	03/13/24	03/18/24	
p,m-Xylene	ND	0.0500	1	03/13/24	03/18/24	
Total Xylenes	ND	0.0250	1	03/13/24	03/18/24	
<i>Surrogate: Bromofluorobenzene</i>		105 %	70-130	03/13/24	03/18/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		103 %	70-130	03/13/24	03/18/24	
<i>Surrogate: Toluene-d8</i>		104 %	70-130	03/13/24	03/18/24	
Nonhalogenated Organics by EPA 8015D - GRO		mg/kg	mg/kg	Analyst: RAS		Batch: 2411079
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/13/24	03/18/24	
<i>Surrogate: Bromofluorobenzene</i>		105 %	70-130	03/13/24	03/18/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		103 %	70-130	03/13/24	03/18/24	
<i>Surrogate: Toluene-d8</i>		104 %	70-130	03/13/24	03/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO		mg/kg	mg/kg	Analyst: NV		Batch: 2411135
Diesel Range Organics (C10-C28)	ND	25.0	1	03/15/24	03/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/15/24	03/16/24	
<i>Surrogate: n-Nonane</i>		89.0 %	50-200	03/15/24	03/16/24	
Anions by EPA 300.0/9056A		mg/kg	mg/kg	Analyst: DT		Batch: 2412018
Chloride	576	20.0	1	03/18/24	03/19/24	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Cotton Draw 13 Federal 1H Project Number: 01058-0007 Project Manager: Gio Gomez	Reported: 3/19/2024 4:47:36PM
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S1 -4'

E403123-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: RAS		Batch: 2411079
Benzene	ND	0.0250	1	03/13/24	03/18/24	
Ethylbenzene	ND	0.0250	1	03/13/24	03/18/24	
Toluene	ND	0.0250	1	03/13/24	03/18/24	
o-Xylene	ND	0.0250	1	03/13/24	03/18/24	
p,m-Xylene	ND	0.0500	1	03/13/24	03/18/24	
Total Xylenes	ND	0.0250	1	03/13/24	03/18/24	
<i>Surrogate: Bromofluorobenzene</i>		98.2 %	70-130	03/13/24	03/18/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		99.0 %	70-130	03/13/24	03/18/24	
<i>Surrogate: Toluene-d8</i>		105 %	70-130	03/13/24	03/18/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RAS		Batch: 2411079
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/13/24	03/18/24	
<i>Surrogate: Bromofluorobenzene</i>		98.2 %	70-130	03/13/24	03/18/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		99.0 %	70-130	03/13/24	03/18/24	
<i>Surrogate: Toluene-d8</i>		105 %	70-130	03/13/24	03/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2411135
Diesel Range Organics (C10-C28)	ND	25.0	1	03/15/24	03/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/15/24	03/16/24	
<i>Surrogate: n-Nonane</i>		87.7 %	50-200	03/15/24	03/16/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2412018
Chloride	1790	20.0	1	03/18/24	03/19/24	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Cotton Draw 13 Federal 1H Project Number: 01058-0007 Project Manager: Gio Gomez	Reported: 3/19/2024 4:47:36PM
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S2 -1'

E403123-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: RAS		Batch: 2411079
Benzene	ND	0.0250	1	03/13/24	03/18/24	
Ethylbenzene	ND	0.0250	1	03/13/24	03/18/24	
Toluene	ND	0.0250	1	03/13/24	03/18/24	
o-Xylene	ND	0.0250	1	03/13/24	03/18/24	
p,m-Xylene	ND	0.0500	1	03/13/24	03/18/24	
Total Xylenes	ND	0.0250	1	03/13/24	03/18/24	
<i>Surrogate: Bromofluorobenzene</i>		107 %	70-130	03/13/24	03/18/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		102 %	70-130	03/13/24	03/18/24	
<i>Surrogate: Toluene-d8</i>		106 %	70-130	03/13/24	03/18/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RAS		Batch: 2411079
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/13/24	03/18/24	
<i>Surrogate: Bromofluorobenzene</i>		107 %	70-130	03/13/24	03/18/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		102 %	70-130	03/13/24	03/18/24	
<i>Surrogate: Toluene-d8</i>		106 %	70-130	03/13/24	03/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2411135
Diesel Range Organics (C10-C28)	ND	25.0	1	03/15/24	03/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/15/24	03/16/24	
<i>Surrogate: n-Nonane</i>		87.3 %	50-200	03/15/24	03/16/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2412018
Chloride	2210	40.0	2	03/18/24	03/19/24	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Cotton Draw 13 Federal 1H Project Number: 01058-0007 Project Manager: Gio Gomez	Reported: 3/19/2024 4:47:36PM
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S2 -2'

E403123-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: RAS		Batch: 2411079
Benzene	ND	0.0250	1	03/13/24	03/18/24	
Ethylbenzene	ND	0.0250	1	03/13/24	03/18/24	
Toluene	ND	0.0250	1	03/13/24	03/18/24	
o-Xylene	ND	0.0250	1	03/13/24	03/18/24	
p,m-Xylene	ND	0.0500	1	03/13/24	03/18/24	
Total Xylenes	ND	0.0250	1	03/13/24	03/18/24	
<i>Surrogate: Bromofluorobenzene</i>		75.2 %	70-130	03/13/24	03/18/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		100 %	70-130	03/13/24	03/18/24	
<i>Surrogate: Toluene-d8</i>		104 %	70-130	03/13/24	03/18/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RAS		Batch: 2411079
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/13/24	03/18/24	
<i>Surrogate: Bromofluorobenzene</i>		75.2 %	70-130	03/13/24	03/18/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		100 %	70-130	03/13/24	03/18/24	
<i>Surrogate: Toluene-d8</i>		104 %	70-130	03/13/24	03/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2411135
Diesel Range Organics (C10-C28)	ND	25.0	1	03/15/24	03/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/15/24	03/16/24	
<i>Surrogate: n-Nonane</i>		88.0 %	50-200	03/15/24	03/16/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2412018
Chloride	398	20.0	1	03/18/24	03/19/24	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Cotton Draw 13 Federal 1H Project Number: 01058-0007 Project Manager: Gio Gomez	Reported: 3/19/2024 4:47:36PM
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S2 -3'

E403123-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: RAS		Batch: 2411079
Benzene	ND	0.0250	1	03/13/24	03/18/24	
Ethylbenzene	ND	0.0250	1	03/13/24	03/18/24	
Toluene	ND	0.0250	1	03/13/24	03/18/24	
o-Xylene	ND	0.0250	1	03/13/24	03/18/24	
p,m-Xylene	ND	0.0500	1	03/13/24	03/18/24	
Total Xylenes	ND	0.0250	1	03/13/24	03/18/24	
<i>Surrogate: Bromofluorobenzene</i>		105 %	70-130	03/13/24	03/18/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		94.7 %	70-130	03/13/24	03/18/24	
<i>Surrogate: Toluene-d8</i>		103 %	70-130	03/13/24	03/18/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RAS		Batch: 2411079
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/13/24	03/18/24	
<i>Surrogate: Bromofluorobenzene</i>		105 %	70-130	03/13/24	03/18/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		94.7 %	70-130	03/13/24	03/18/24	
<i>Surrogate: Toluene-d8</i>		103 %	70-130	03/13/24	03/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2411135
Diesel Range Organics (C10-C28)	ND	25.0	1	03/15/24	03/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/15/24	03/16/24	
<i>Surrogate: n-Nonane</i>		87.1 %	50-200	03/15/24	03/16/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2412018
Chloride	566	20.0	1	03/18/24	03/19/24	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Cotton Draw 13 Federal 1H Project Number: 01058-0007 Project Manager: Gio Gomez	Reported: 3/19/2024 4:47:36PM
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S2 -4'

E403123-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: RAS		Batch: 2411079
Benzene	ND	0.0250	1	03/13/24	03/18/24	
Ethylbenzene	ND	0.0250	1	03/13/24	03/18/24	
Toluene	ND	0.0250	1	03/13/24	03/18/24	
o-Xylene	ND	0.0250	1	03/13/24	03/18/24	
p,m-Xylene	ND	0.0500	1	03/13/24	03/18/24	
Total Xylenes	ND	0.0250	1	03/13/24	03/18/24	
<i>Surrogate: Bromofluorobenzene</i>		136 %	70-130	03/13/24	03/18/24	S3
<i>Surrogate: 1,2-Dichloroethane-d4</i>		101 %	70-130	03/13/24	03/18/24	
<i>Surrogate: Toluene-d8</i>		103 %	70-130	03/13/24	03/18/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RAS		Batch: 2411079
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/13/24	03/18/24	
<i>Surrogate: Bromofluorobenzene</i>		136 %	70-130	03/13/24	03/18/24	S3
<i>Surrogate: 1,2-Dichloroethane-d4</i>		101 %	70-130	03/13/24	03/18/24	
<i>Surrogate: Toluene-d8</i>		103 %	70-130	03/13/24	03/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2411135
Diesel Range Organics (C10-C28)	ND	25.0	1	03/15/24	03/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/15/24	03/16/24	
<i>Surrogate: n-Nonane</i>		85.4 %	50-200	03/15/24	03/16/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2412018
Chloride	860	20.0	1	03/18/24	03/19/24	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Cotton Draw 13 Federal 1H Project Number: 01058-0007 Project Manager: Gio Gomez	Reported: 3/19/2024 4:47:36PM
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S3 -1'

E403123-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: RAS		Batch: 2411079
Benzene	ND	0.0250	1	03/13/24	03/18/24	
Ethylbenzene	ND	0.0250	1	03/13/24	03/18/24	
Toluene	ND	0.0250	1	03/13/24	03/18/24	
o-Xylene	ND	0.0250	1	03/13/24	03/18/24	
p,m-Xylene	ND	0.0500	1	03/13/24	03/18/24	
Total Xylenes	ND	0.0250	1	03/13/24	03/18/24	
<i>Surrogate: Bromofluorobenzene</i>		103 %	70-130	03/13/24	03/18/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98.4 %	70-130	03/13/24	03/18/24	
<i>Surrogate: Toluene-d8</i>		97.7 %	70-130	03/13/24	03/18/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RAS		Batch: 2411079
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/13/24	03/18/24	
<i>Surrogate: Bromofluorobenzene</i>		103 %	70-130	03/13/24	03/18/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98.4 %	70-130	03/13/24	03/18/24	
<i>Surrogate: Toluene-d8</i>		97.7 %	70-130	03/13/24	03/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2411135
Diesel Range Organics (C10-C28)	ND	25.0	1	03/15/24	03/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/15/24	03/16/24	
<i>Surrogate: n-Nonane</i>		86.7 %	50-200	03/15/24	03/16/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2412018
Chloride	2200	40.0	2	03/18/24	03/19/24	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Cotton Draw 13 Federal 1H Project Number: 01058-0007 Project Manager: Gio Gomez	Reported: 3/19/2024 4:47:36PM
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S3 -2'

E403123-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: RAS		Batch: 2411079
Benzene	ND	0.0250	1	03/13/24	03/18/24	
Ethylbenzene	ND	0.0250	1	03/13/24	03/18/24	
Toluene	ND	0.0250	1	03/13/24	03/18/24	
o-Xylene	ND	0.0250	1	03/13/24	03/18/24	
p,m-Xylene	ND	0.0500	1	03/13/24	03/18/24	
Total Xylenes	ND	0.0250	1	03/13/24	03/18/24	
<i>Surrogate: Bromofluorobenzene</i>		104 %	70-130	03/13/24	03/18/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		100 %	70-130	03/13/24	03/18/24	
<i>Surrogate: Toluene-d8</i>		126 %	70-130	03/13/24	03/18/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RAS		Batch: 2411079
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/13/24	03/18/24	
<i>Surrogate: Bromofluorobenzene</i>		104 %	70-130	03/13/24	03/18/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		100 %	70-130	03/13/24	03/18/24	
<i>Surrogate: Toluene-d8</i>		126 %	70-130	03/13/24	03/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2411135
Diesel Range Organics (C10-C28)	ND	25.0	1	03/15/24	03/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/15/24	03/16/24	
<i>Surrogate: n-Nonane</i>		85.4 %	50-200	03/15/24	03/16/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2412018
Chloride	364	20.0	1	03/18/24	03/19/24	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Cotton Draw 13 Federal 1H Project Number: 01058-0007 Project Manager: Gio Gomez	Reported: 3/19/2024 4:47:36PM
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S3 -3'

E403123-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: RAS		Batch: 2411079
Benzene	ND	0.0250	1	03/13/24	03/18/24	
Ethylbenzene	ND	0.0250	1	03/13/24	03/18/24	
Toluene	ND	0.0250	1	03/13/24	03/18/24	
o-Xylene	ND	0.0250	1	03/13/24	03/18/24	
p,m-Xylene	ND	0.0500	1	03/13/24	03/18/24	
Total Xylenes	ND	0.0250	1	03/13/24	03/18/24	
<i>Surrogate: Bromofluorobenzene</i>		105 %	70-130	03/13/24	03/18/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		99.7 %	70-130	03/13/24	03/18/24	
<i>Surrogate: Toluene-d8</i>		100 %	70-130	03/13/24	03/18/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RAS		Batch: 2411079
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/13/24	03/18/24	
<i>Surrogate: Bromofluorobenzene</i>		105 %	70-130	03/13/24	03/18/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		99.7 %	70-130	03/13/24	03/18/24	
<i>Surrogate: Toluene-d8</i>		100 %	70-130	03/13/24	03/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2411135
Diesel Range Organics (C10-C28)	ND	25.0	1	03/15/24	03/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/15/24	03/16/24	
<i>Surrogate: n-Nonane</i>		87.6 %	50-200	03/15/24	03/16/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2412018
Chloride	556	20.0	1	03/18/24	03/19/24	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Cotton Draw 13 Federal 1H Project Number: 01058-0007 Project Manager: Gio Gomez	Reported: 3/19/2024 4:47:36PM
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S3 -4'

E403123-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: RAS		Batch: 2411079
Benzene	ND	0.0250	1	03/13/24	03/18/24	
Ethylbenzene	ND	0.0250	1	03/13/24	03/18/24	
Toluene	ND	0.0250	1	03/13/24	03/18/24	
o-Xylene	ND	0.0250	1	03/13/24	03/18/24	
p,m-Xylene	ND	0.0500	1	03/13/24	03/18/24	
Total Xylenes	ND	0.0250	1	03/13/24	03/18/24	
<i>Surrogate: Bromofluorobenzene</i>		95.6 %	70-130	03/13/24	03/18/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		99.7 %	70-130	03/13/24	03/18/24	
<i>Surrogate: Toluene-d8</i>		105 %	70-130	03/13/24	03/18/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RAS		Batch: 2411079
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/13/24	03/18/24	
<i>Surrogate: Bromofluorobenzene</i>		95.6 %	70-130	03/13/24	03/18/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		99.7 %	70-130	03/13/24	03/18/24	
<i>Surrogate: Toluene-d8</i>		105 %	70-130	03/13/24	03/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2411135
Diesel Range Organics (C10-C28)	ND	25.0	1	03/15/24	03/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/15/24	03/16/24	
<i>Surrogate: n-Nonane</i>		91.0 %	50-200	03/15/24	03/16/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2412018
Chloride	183	20.0	1	03/18/24	03/19/24	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Cotton Draw 13 Federal 1H Project Number: 01058-0007 Project Manager: Gio Gomez	Reported: 3/19/2024 4:47:36PM
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S4 -1'

E403123-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: RAS		Batch: 2411079
Benzene	ND	0.0250	1	03/13/24	03/18/24	
Ethylbenzene	ND	0.0250	1	03/13/24	03/18/24	
Toluene	ND	0.0250	1	03/13/24	03/18/24	
o-Xylene	ND	0.0250	1	03/13/24	03/18/24	
p,m-Xylene	ND	0.0500	1	03/13/24	03/18/24	
Total Xylenes	ND	0.0250	1	03/13/24	03/18/24	
<i>Surrogate: Bromofluorobenzene</i>		100 %	70-130	03/13/24	03/18/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		97.3 %	70-130	03/13/24	03/18/24	
<i>Surrogate: Toluene-d8</i>		100 %	70-130	03/13/24	03/18/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RAS		Batch: 2411079
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/13/24	03/18/24	
<i>Surrogate: Bromofluorobenzene</i>		100 %	70-130	03/13/24	03/18/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		97.3 %	70-130	03/13/24	03/18/24	
<i>Surrogate: Toluene-d8</i>		100 %	70-130	03/13/24	03/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2411135
Diesel Range Organics (C10-C28)	ND	25.0	1	03/15/24	03/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/15/24	03/16/24	
<i>Surrogate: n-Nonane</i>		87.1 %	50-200	03/15/24	03/16/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2412018
Chloride	2170	40.0	2	03/18/24	03/19/24	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Cotton Draw 13 Federal 1H Project Number: 01058-0007 Project Manager: Gio Gomez	Reported: 3/19/2024 4:47:36PM
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S14

E403123-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: RAS		Batch: 2411079
Benzene	ND	0.0250	1	03/13/24	03/18/24	
Ethylbenzene	ND	0.0250	1	03/13/24	03/18/24	
Toluene	ND	0.0250	1	03/13/24	03/18/24	
o-Xylene	ND	0.0250	1	03/13/24	03/18/24	
p,m-Xylene	ND	0.0500	1	03/13/24	03/18/24	
Total Xylenes	ND	0.0250	1	03/13/24	03/18/24	
<i>Surrogate: Bromofluorobenzene</i>		105 %	70-130	03/13/24	03/18/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		97.1 %	70-130	03/13/24	03/18/24	
<i>Surrogate: Toluene-d8</i>		105 %	70-130	03/13/24	03/18/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RAS		Batch: 2411079
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/13/24	03/18/24	
<i>Surrogate: Bromofluorobenzene</i>		105 %	70-130	03/13/24	03/18/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		97.1 %	70-130	03/13/24	03/18/24	
<i>Surrogate: Toluene-d8</i>		105 %	70-130	03/13/24	03/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2411135
Diesel Range Organics (C10-C28)	ND	25.0	1	03/15/24	03/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/15/24	03/16/24	
<i>Surrogate: n-Nonane</i>		79.0 %	50-200	03/15/24	03/16/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2412018
Chloride	420	20.0	1	03/18/24	03/19/24	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Cotton Draw 13 Federal 1H Project Number: 01058-0007 Project Manager: Gio Gomez	Reported: 3/19/2024 4:47:36PM
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S4 -3'

E403123-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: RAS		Batch: 2411079
Benzene	ND	0.0250	1	03/13/24	03/18/24	
Ethylbenzene	ND	0.0250	1	03/13/24	03/18/24	
Toluene	ND	0.0250	1	03/13/24	03/18/24	
o-Xylene	ND	0.0250	1	03/13/24	03/18/24	
p,m-Xylene	ND	0.0500	1	03/13/24	03/18/24	
Total Xylenes	ND	0.0250	1	03/13/24	03/18/24	
<i>Surrogate: Bromofluorobenzene</i>		93.0 %	70-130	03/13/24	03/18/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		100 %	70-130	03/13/24	03/18/24	
<i>Surrogate: Toluene-d8</i>		85.3 %	70-130	03/13/24	03/18/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RAS		Batch: 2411079
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/13/24	03/18/24	
<i>Surrogate: Bromofluorobenzene</i>		93.0 %	70-130	03/13/24	03/18/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		100 %	70-130	03/13/24	03/18/24	
<i>Surrogate: Toluene-d8</i>		85.3 %	70-130	03/13/24	03/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2411135
Diesel Range Organics (C10-C28)	ND	25.0	1	03/15/24	03/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/15/24	03/16/24	
<i>Surrogate: n-Nonane</i>		83.9 %	50-200	03/15/24	03/16/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2412018
Chloride	814	20.0	1	03/18/24	03/19/24	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Cotton Draw 13 Federal 1H Project Number: 01058-0007 Project Manager: Gio Gomez	Reported: 3/19/2024 4:47:36PM
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S4 -4'

E403123-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: RAS		Batch: 2411079
Benzene	ND	0.0250	1	03/13/24	03/18/24	
Ethylbenzene	ND	0.0250	1	03/13/24	03/18/24	
Toluene	ND	0.0250	1	03/13/24	03/18/24	
o-Xylene	ND	0.0250	1	03/13/24	03/18/24	
p,m-Xylene	ND	0.0500	1	03/13/24	03/18/24	
Total Xylenes	ND	0.0250	1	03/13/24	03/18/24	
<i>Surrogate: Bromofluorobenzene</i>		106 %	70-130	03/13/24	03/18/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		104 %	70-130	03/13/24	03/18/24	
<i>Surrogate: Toluene-d8</i>		102 %	70-130	03/13/24	03/18/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RAS		Batch: 2411079
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/13/24	03/18/24	
<i>Surrogate: Bromofluorobenzene</i>		106 %	70-130	03/13/24	03/18/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		104 %	70-130	03/13/24	03/18/24	
<i>Surrogate: Toluene-d8</i>		102 %	70-130	03/13/24	03/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2411135
Diesel Range Organics (C10-C28)	ND	25.0	1	03/15/24	03/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/15/24	03/16/24	
<i>Surrogate: n-Nonane</i>		86.7 %	50-200	03/15/24	03/16/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2412018
Chloride	197	20.0	1	03/18/24	03/19/24	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Cotton Draw 13 Federal 1H Project Number: 01058-0007 Project Manager: Gio Gomez	Reported: 3/19/2024 4:47:36PM
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SW1

E403123-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: RAS		Batch: 2411079
Benzene	ND	0.0250	1	03/13/24	03/18/24	
Ethylbenzene	ND	0.0250	1	03/13/24	03/18/24	
Toluene	ND	0.0250	1	03/13/24	03/18/24	
o-Xylene	ND	0.0250	1	03/13/24	03/18/24	
p,m-Xylene	ND	0.0500	1	03/13/24	03/18/24	
Total Xylenes	ND	0.0250	1	03/13/24	03/18/24	
<i>Surrogate: Bromofluorobenzene</i>		102 %	70-130	03/13/24	03/18/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		97.3 %	70-130	03/13/24	03/18/24	
<i>Surrogate: Toluene-d8</i>		121 %	70-130	03/13/24	03/18/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RAS		Batch: 2411079
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/13/24	03/18/24	
<i>Surrogate: Bromofluorobenzene</i>		102 %	70-130	03/13/24	03/18/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		97.3 %	70-130	03/13/24	03/18/24	
<i>Surrogate: Toluene-d8</i>		121 %	70-130	03/13/24	03/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2411135
Diesel Range Organics (C10-C28)	ND	25.0	1	03/15/24	03/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/15/24	03/16/24	
<i>Surrogate: n-Nonane</i>		96.6 %	50-200	03/15/24	03/16/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2412018
Chloride	ND	20.0	1	03/18/24	03/19/24	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Cotton Draw 13 Federal 1H Project Number: 01058-0007 Project Manager: Gio Gomez	Reported: 3/19/2024 4:47:36PM
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SW2

E403123-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: RAS		Batch: 2411079
Benzene	ND	0.0250	1	03/13/24	03/18/24	
Ethylbenzene	ND	0.0250	1	03/13/24	03/18/24	
Toluene	ND	0.0250	1	03/13/24	03/18/24	
o-Xylene	ND	0.0250	1	03/13/24	03/18/24	
p,m-Xylene	ND	0.0500	1	03/13/24	03/18/24	
Total Xylenes	ND	0.0250	1	03/13/24	03/18/24	
<i>Surrogate: Bromofluorobenzene</i>		101 %	70-130	03/13/24	03/18/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		102 %	70-130	03/13/24	03/18/24	
<i>Surrogate: Toluene-d8</i>		99.3 %	70-130	03/13/24	03/18/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RAS		Batch: 2411079
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/13/24	03/18/24	
<i>Surrogate: Bromofluorobenzene</i>		101 %	70-130	03/13/24	03/18/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		102 %	70-130	03/13/24	03/18/24	
<i>Surrogate: Toluene-d8</i>		99.3 %	70-130	03/13/24	03/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2411135
Diesel Range Organics (C10-C28)	ND	25.0	1	03/15/24	03/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/15/24	03/16/24	
<i>Surrogate: n-Nonane</i>		92.6 %	50-200	03/15/24	03/16/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2412018
Chloride	ND	20.0	1	03/18/24	03/19/24	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Cotton Draw 13 Federal 1H Project Number: 01058-0007 Project Manager: Gio Gomez	Reported: 3/19/2024 4:47:36PM
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SW3

E403123-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: RAS		Batch: 2411079
Benzene	ND	0.0250	1	03/13/24	03/18/24	
Ethylbenzene	ND	0.0250	1	03/13/24	03/18/24	
Toluene	ND	0.0250	1	03/13/24	03/18/24	
o-Xylene	ND	0.0250	1	03/13/24	03/18/24	
p,m-Xylene	ND	0.0500	1	03/13/24	03/18/24	
Total Xylenes	ND	0.0250	1	03/13/24	03/18/24	
<i>Surrogate: Bromofluorobenzene</i>		100 %	70-130	03/13/24	03/18/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		99.1 %	70-130	03/13/24	03/18/24	
<i>Surrogate: Toluene-d8</i>		99.2 %	70-130	03/13/24	03/18/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RAS		Batch: 2411079
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/13/24	03/18/24	
<i>Surrogate: Bromofluorobenzene</i>		100 %	70-130	03/13/24	03/18/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		99.1 %	70-130	03/13/24	03/18/24	
<i>Surrogate: Toluene-d8</i>		99.2 %	70-130	03/13/24	03/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2411135
Diesel Range Organics (C10-C28)	ND	25.0	1	03/15/24	03/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/15/24	03/16/24	
<i>Surrogate: n-Nonane</i>		92.3 %	50-200	03/15/24	03/16/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2412018
Chloride	ND	20.0	1	03/18/24	03/19/24	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Cotton Draw 13 Federal 1H Project Number: 01058-0007 Project Manager: Gio Gomez	Reported: 3/19/2024 4:47:36PM
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SW4

E403123-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: RAS		Batch: 2411079
Benzene	ND	0.0250	1	03/13/24	03/18/24	
Ethylbenzene	ND	0.0250	1	03/13/24	03/18/24	
Toluene	ND	0.0250	1	03/13/24	03/18/24	
o-Xylene	ND	0.0250	1	03/13/24	03/18/24	
p,m-Xylene	ND	0.0500	1	03/13/24	03/18/24	
Total Xylenes	ND	0.0250	1	03/13/24	03/18/24	
<i>Surrogate: Bromofluorobenzene</i>		101 %	70-130	03/13/24	03/18/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		103 %	70-130	03/13/24	03/18/24	
<i>Surrogate: Toluene-d8</i>		125 %	70-130	03/13/24	03/18/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RAS		Batch: 2411079
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/13/24	03/18/24	
<i>Surrogate: Bromofluorobenzene</i>		101 %	70-130	03/13/24	03/18/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		103 %	70-130	03/13/24	03/18/24	
<i>Surrogate: Toluene-d8</i>		125 %	70-130	03/13/24	03/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2411135
Diesel Range Organics (C10-C28)	ND	25.0	1	03/15/24	03/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/15/24	03/16/24	
<i>Surrogate: n-Nonane</i>		94.7 %	50-200	03/15/24	03/16/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2412018
Chloride	ND	20.0	1	03/18/24	03/19/24	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Cotton Draw 13 Federal 1H Project Number: 01058-0007 Project Manager: Gio Gomez	Reported: 3/19/2024 4:47:36PM
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SW5

E403123-21

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: RAS		Batch: 2411081
Benzene	ND	0.0250	1	03/13/24	03/17/24	
Ethylbenzene	ND	0.0250	1	03/13/24	03/17/24	
Toluene	ND	0.0250	1	03/13/24	03/17/24	
o-Xylene	ND	0.0250	1	03/13/24	03/17/24	
p,m-Xylene	ND	0.0500	1	03/13/24	03/17/24	
Total Xylenes	ND	0.0250	1	03/13/24	03/17/24	
<i>Surrogate: Bromofluorobenzene</i>		99.1 %	70-130	03/13/24	03/17/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		99.4 %	70-130	03/13/24	03/17/24	
<i>Surrogate: Toluene-d8</i>		103 %	70-130	03/13/24	03/17/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RAS		Batch: 2411081
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/13/24	03/17/24	
<i>Surrogate: Bromofluorobenzene</i>		99.1 %	70-130	03/13/24	03/17/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		99.4 %	70-130	03/13/24	03/17/24	
<i>Surrogate: Toluene-d8</i>		103 %	70-130	03/13/24	03/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2411114
Diesel Range Organics (C10-C28)	ND	25.0	1	03/14/24	03/15/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/14/24	03/15/24	
<i>Surrogate: n-Nonane</i>		91.1 %	50-200	03/14/24	03/15/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: WF		Batch: 2412019
Chloride	ND	20.0	1	03/18/24	03/18/24	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Cotton Draw 13 Federal 1H Project Number: 01058-0007 Project Manager: Gio Gomez	Reported: 3/19/2024 4:47:36PM
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SW6

E403123-22

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: RAS		Batch: 2411081
Benzene	ND	0.0250	1	03/13/24	03/17/24	
Ethylbenzene	ND	0.0250	1	03/13/24	03/17/24	
Toluene	ND	0.0250	1	03/13/24	03/17/24	
o-Xylene	ND	0.0250	1	03/13/24	03/17/24	
p,m-Xylene	ND	0.0500	1	03/13/24	03/17/24	
Total Xylenes	ND	0.0250	1	03/13/24	03/17/24	
<i>Surrogate: Bromofluorobenzene</i>		103 %	70-130	03/13/24	03/17/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		101 %	70-130	03/13/24	03/17/24	
<i>Surrogate: Toluene-d8</i>		94.9 %	70-130	03/13/24	03/17/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RAS		Batch: 2411081
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/13/24	03/17/24	
<i>Surrogate: Bromofluorobenzene</i>		103 %	70-130	03/13/24	03/17/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		101 %	70-130	03/13/24	03/17/24	
<i>Surrogate: Toluene-d8</i>		94.9 %	70-130	03/13/24	03/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2411114
Diesel Range Organics (C10-C28)	ND	25.0	1	03/14/24	03/15/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/14/24	03/15/24	
<i>Surrogate: n-Nonane</i>		96.9 %	50-200	03/14/24	03/15/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: WF		Batch: 2412019
Chloride	ND	20.0	1	03/18/24	03/18/24	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Cotton Draw 13 Federal 1H Project Number: 01058-0007 Project Manager: Gio Gomez	Reported: 3/19/2024 4:47:36PM
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SW7

E403123-23

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: RAS		Batch: 2411081
Benzene	ND	0.0250	1	03/13/24	03/17/24	
Ethylbenzene	ND	0.0250	1	03/13/24	03/17/24	
Toluene	ND	0.0250	1	03/13/24	03/17/24	
o-Xylene	ND	0.0250	1	03/13/24	03/17/24	
p,m-Xylene	ND	0.0500	1	03/13/24	03/17/24	
Total Xylenes	ND	0.0250	1	03/13/24	03/17/24	
<i>Surrogate: Bromofluorobenzene</i>		98.2 %	70-130	03/13/24	03/17/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		100 %	70-130	03/13/24	03/17/24	
<i>Surrogate: Toluene-d8</i>		102 %	70-130	03/13/24	03/17/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RAS		Batch: 2411081
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/13/24	03/17/24	
<i>Surrogate: Bromofluorobenzene</i>		98.2 %	70-130	03/13/24	03/17/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		100 %	70-130	03/13/24	03/17/24	
<i>Surrogate: Toluene-d8</i>		102 %	70-130	03/13/24	03/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2411114
Diesel Range Organics (C10-C28)	ND	25.0	1	03/14/24	03/15/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/14/24	03/15/24	
<i>Surrogate: n-Nonane</i>		98.2 %	50-200	03/14/24	03/15/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: WF		Batch: 2412019
Chloride	ND	20.0	1	03/18/24	03/18/24	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Cotton Draw 13 Federal 1H Project Number: 01058-0007 Project Manager: Gio Gomez	Reported: 3/19/2024 4:47:36PM
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BG1

E403123-24

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: RAS		Batch: 2411081
Benzene	ND	0.0250	1	03/13/24	03/17/24	
Ethylbenzene	ND	0.0250	1	03/13/24	03/17/24	
Toluene	ND	0.0250	1	03/13/24	03/17/24	
o-Xylene	ND	0.0250	1	03/13/24	03/17/24	
p,m-Xylene	ND	0.0500	1	03/13/24	03/17/24	
Total Xylenes	ND	0.0250	1	03/13/24	03/17/24	
<i>Surrogate: Bromofluorobenzene</i>		96.8 %	70-130	03/13/24	03/17/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		104 %	70-130	03/13/24	03/17/24	
<i>Surrogate: Toluene-d8</i>		101 %	70-130	03/13/24	03/17/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RAS		Batch: 2411081
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/13/24	03/17/24	
<i>Surrogate: Bromofluorobenzene</i>		96.8 %	70-130	03/13/24	03/17/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		104 %	70-130	03/13/24	03/17/24	
<i>Surrogate: Toluene-d8</i>		101 %	70-130	03/13/24	03/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2411114
Diesel Range Organics (C10-C28)	ND	25.0	1	03/14/24	03/15/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/14/24	03/15/24	
<i>Surrogate: n-Nonane</i>		101 %	50-200	03/14/24	03/15/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: WF		Batch: 2412019
Chloride	ND	20.0	1	03/18/24	03/18/24	



QC Summary Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Cotton Draw 13 Federal 1H Project Number: 01058-0007 Project Manager: Gio Gomez	Reported: 3/19/2024 4:47:36PM
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Volatile Organic Compounds by EPA 8260B

Analyst: RAS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec % %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2411079-BLK1)

Prepared: 03/13/24 Analyzed: 03/18/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.539		0.500		108		70-130		
Surrogate: 1,2-Dichloroethane-d4	0.431		0.500		86.2		70-130		
Surrogate: Toluene-d8	0.519		0.500		104		70-130		

LCS (2411079-BS1)

Prepared: 03/13/24 Analyzed: 03/19/24

Benzene	2.44	0.0250	2.50		97.6		70-130		
Ethylbenzene	2.35	0.0250	2.50		94.0		70-130		
Toluene	2.40	0.0250	2.50		95.8		70-130		
o-Xylene	2.60	0.0250	2.50		104		70-130		
p,m-Xylene	4.98	0.0500	5.00		99.7		70-130		
Total Xylenes	7.59	0.0250	7.50		101		70-130		
Surrogate: Bromofluorobenzene	0.499		0.500		99.7		70-130		
Surrogate: 1,2-Dichloroethane-d4	0.498		0.500		99.5		70-130		
Surrogate: Toluene-d8	0.520		0.500		104		70-130		

Matrix Spike (2411079-MS1)

Source: E403123-04

Prepared: 03/13/24 Analyzed: 03/19/24

Benzene	2.45	0.0250	2.50	ND	98.0		48-131		
Ethylbenzene	2.44	0.0250	2.50	ND	97.6		45-135		
Toluene	2.35	0.0250	2.50	ND	93.9		48-130		
o-Xylene	2.49	0.0250	2.50	ND	99.4		43-135		
p,m-Xylene	4.92	0.0500	5.00	ND	98.4		43-135		
Total Xylenes	7.40	0.0250	7.50	ND	98.7		43-135		
Surrogate: Bromofluorobenzene	0.518		0.500		104		70-130		
Surrogate: 1,2-Dichloroethane-d4	0.488		0.500		97.5		70-130		
Surrogate: Toluene-d8	0.503		0.500		101		70-130		

Matrix Spike Dup (2411079-MSD1)

Source: E403123-04

Prepared: 03/13/24 Analyzed: 03/19/24

Benzene	2.47	0.0250	2.50	ND	98.6		48-131	0.590	23
Ethylbenzene	2.45	0.0250	2.50	ND	97.9		45-135	0.368	27
Toluene	2.36	0.0250	2.50	ND	94.3		48-130	0.446	24
o-Xylene	2.52	0.0250	2.50	ND	101		43-135	1.18	27
p,m-Xylene	4.97	0.0500	5.00	ND	99.4		43-135	1.01	27
Total Xylenes	7.48	0.0250	7.50	ND	99.8		43-135	1.07	27
Surrogate: Bromofluorobenzene	0.523		0.500		105		70-130		
Surrogate: 1,2-Dichloroethane-d4	0.490		0.500		97.9		70-130		
Surrogate: Toluene-d8	0.499		0.500		99.8		70-130		



QC Summary Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Cotton Draw 13 Federal 1H Project Number: 01058-0007 Project Manager: Gio Gomez	Reported: 3/19/2024 4:47:36PM
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Volatile Organic Compounds by EPA 8260B

Analyst: RAS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec % %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2411081-BLK1)

Prepared: 03/13/24 Analyzed: 03/16/24

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

LCS (2411081-BS1)

Prepared: 03/13/24 Analyzed: 03/16/24

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

Matrix Spike (2411081-MS1)

Source: E403124-21

Prepared: 03/13/24 Analyzed: 03/17/24

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

Matrix Spike Dup (2411081-MSD1)

Source: E403124-21

Prepared: 03/13/24 Analyzed: 03/17/24

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



QC Summary Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Cotton Draw 13 Federal 1H Project Number: 01058-0007 Project Manager: Gio Gomez	Reported: 3/19/2024 4:47:36PM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RAS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2411079-BLK1)

Prepared: 03/13/24 Analyzed: 03/18/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.539		0.500		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.431		0.500		86.2	70-130			
Surrogate: Toluene-d8	0.519		0.500		104	70-130			

LCS (2411079-BS2)

Prepared: 03/13/24 Analyzed: 03/19/24

Gasoline Range Organics (C6-C10)	54.5	20.0	50.0		109	70-130			
Surrogate: Bromofluorobenzene	0.517		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.494		0.500		98.8	70-130			
Surrogate: Toluene-d8	0.564		0.500		113	70-130			

Matrix Spike (2411079-MS2)

Source: E403123-04

Prepared: 03/13/24 Analyzed: 03/19/24

Gasoline Range Organics (C6-C10)	57.0	20.0	50.0	ND	114	70-130			
Surrogate: Bromofluorobenzene	0.527		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.477		0.500		95.3	70-130			
Surrogate: Toluene-d8	0.512		0.500		102	70-130			

Matrix Spike Dup (2411079-MSD2)

Source: E403123-04

Prepared: 03/13/24 Analyzed: 03/19/24

Gasoline Range Organics (C6-C10)	54.6	20.0	50.0	ND	109	70-130	4.32	20	
Surrogate: Bromofluorobenzene	0.527		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.487		0.500		97.4	70-130			
Surrogate: Toluene-d8	0.508		0.500		102	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Cotton Draw 13 Federal 1H Project Number: 01058-0007 Project Manager: Gio Gomez	Reported: 3/19/2024 4:47:36PM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RAS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec % %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2411081-BLK1)

Prepared: 03/13/24 Analyzed: 03/16/24

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

LCS (2411081-BS2)

Prepared: 03/13/24 Analyzed: 03/17/24

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

Matrix Spike (2411081-MS2)

Source: E403124-21

Prepared: 03/13/24 Analyzed: 03/17/24

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

Matrix Spike Dup (2411081-MSD2)

Source: E403124-21

Prepared: 03/13/24 Analyzed: 03/17/24

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



QC Summary Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Cotton Draw 13 Federal 1H Project Number: 01058-0007 Project Manager: Gio Gomez	Reported: 3/19/2024 4:47:36PM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2411114-BLK1)

Prepared: 03/14/24 Analyzed: 03/15/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	44.7		50.0		89.3	50-200			

LCS (2411114-BS1)

Prepared: 03/14/24 Analyzed: 03/15/24

Diesel Range Organics (C10-C28)	225	25.0	250		89.9	38-132			
Surrogate: n-Nonane	44.0		50.0		88.1	50-200			

LCS Dup (2411114-BSD1)

Prepared: 03/14/24 Analyzed: 03/15/24

Diesel Range Organics (C10-C28)	222	25.0	250		88.7	38-132	1.27	20	
Surrogate: n-Nonane	43.4		50.0		86.7	50-200			



QC Summary Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Cotton Draw 13 Federal 1H Project Number: 01058-0007 Project Manager: Gio Gomez	Reported: 3/19/2024 4:47:36PM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

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 (2411135-BLK1)

Prepared: 03/15/24 Analyzed: 03/16/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	44.1		50.0		88.2	50-200			

LCS (2411135-BS1)

Prepared: 03/15/24 Analyzed: 03/16/24

Diesel Range Organics (C10-C28)	247	25.0	250		98.9	38-132			
Surrogate: n-Nonane	44.7		50.0		89.4	50-200			

Matrix Spike (2411135-MS1)

Source: E403123-05

Prepared: 03/15/24 Analyzed: 03/16/24

Diesel Range Organics (C10-C28)	247	25.0	250	ND	98.6	38-132			
Surrogate: n-Nonane	42.5		50.0		84.9	50-200			

Matrix Spike Dup (2411135-MSD1)

Source: E403123-05

Prepared: 03/15/24 Analyzed: 03/16/24

Diesel Range Organics (C10-C28)	238	25.0	250	ND	95.3	38-132	3.38	20	
Surrogate: n-Nonane	39.9		50.0		79.7	50-200			



QC Summary Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Cotton Draw 13 Federal 1H Project Number: 01058-0007 Project Manager: Gio Gomez	Reported: 3/19/2024 4:47:36PM
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Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2412018-BLK1)

Prepared: 03/18/24 Analyzed: 03/19/24

Chloride ND 20.0

LCS (2412018-BS1)

Prepared: 03/18/24 Analyzed: 03/19/24

Chloride 251 20.0 250 100 90-110

LCS Dup (2412018-BSD1)

Prepared: 03/18/24 Analyzed: 03/19/24

Chloride 252 20.0 250 101 90-110 0.454 20



QC Summary Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Cotton Draw 13 Federal 1H Project Number: 01058-0007 Project Manager: Gio Gomez	Reported: 3/19/2024 4:47:36PM
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Anions by EPA 300.0/9056A

Analyst: WF

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 (2412019-BLK1)

Prepared: 03/18/24 Analyzed: 03/18/24

Chloride	ND	20.0							
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LCS (2412019-BS1)

Prepared: 03/18/24 Analyzed: 03/18/24

Chloride	248	20.0	250		99.3	90-110			
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LCS Dup (2412019-BSD1)

Prepared: 03/18/24 Analyzed: 03/18/24

Chloride	250	20.0	250		100	90-110	0.680	20	
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QC Summary Report Comment:

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



Definitions and Notes

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw 13 Federal 1H	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Gio Gomez	03/19/24 16:47

S3 Surrogate spike recovery was outside acceptance limits. LCS spike recovery was acceptable.

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

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

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



Project Information

Chain of Custody

Client: Pima Environmental Services
 Project: Cotton Draw 13 Federal 4-H
 Project Manager: Gio Gomez
 Address: 5614 N. Lovington Hwy.
 City, State, Zip Hobbs, NM, 88240
 Phone: 806-782-1151
 Email: gio@pimaoil.com
 Report due by:

Attention: Devon **Bill To**
 Address:
 City, State, Zip
 Phone:
 Email:
 Pima Project # 1-283-2

Lab Use Only		TAT			EPA Program		
Lab WO#	Job Number	1D	2D	3D	Standard	CWA	SDWA
E 403123	01058-0007				X		

Analysis and Method								RCRA	
DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	State	

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	Remarks
8:16	3/11	S		S1-1'	1							X		
8:25				S1-2'	2									
8:33				S1-3'	3									
8:46				S1-4'	4									
8:59				S2-1'	5									
9:16				S2-2'	6									
9:22				S2-3'	7									
9:36				S2-4'	8									
9:46				S3-1'	9									
9:59				S3-2'	10									

Additional Instructions: Billing # 21146265

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

Relinquished by: (Signature) <u>Varime Adams</u>	Date <u>3/12/24</u>	Time <u>2:51</u>	Received by: (Signature) <u>Michelle Guff</u>	Date <u>3-12-24</u>	Time <u>1451</u>	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days. Lab Use Only Received on ice: <input checked="" type="radio"/> Y <input type="radio"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
Relinquished by: (Signature) <u>Michelle Guff</u>	Date <u>3-12-24</u>	Time <u>1700</u>	Received by: (Signature) <u>Andrew McRob</u>	Date <u>3-12-24</u>	Time <u>1700</u>	
Relinquished by: (Signature) <u>Andrew McRob</u>	Date <u>3-12-24</u>	Time <u>2300</u>	Received by: (Signature) <u>AG</u>	Date <u>3/13/24</u>	Time <u>0700</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

Client: Pima Environmental Services
 Project: Cotton Draw 13 Federal 14
 Project Manager: Gio Gomez
 Address: 5614 N. Lovington Hwy.
 City, State, Zip Hobbs, NM, 88240
 Phone: 806-782-1151
 Email: gio@pimaoil.com
 Report due by:

Bill To
 Attention: Davon
 Address:
 City, State, Zip
 Phone:
 Email:
 Pima Project # 1-283-2

Lab Use Only
 Lab WO# E 40312.3
 Job Number 01058-0007
 TAT
 1D 2D 3D Standard X
 EPA Program
 CWA SDWA

Analysis and Method
 DRO/DRO by 8015
 GRO/DRO by 8015
 BTEX by 8021
 VOC by 8260
 Metals 6010
 Chloride 300.0
 BGDOC NM
 BGDOC TX
 RCRA
 State
 NM CO UT AZ TX
 X

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	Remarks
10:03	3/11	S		S3-3'	11							X		
10:16				S3-4'	12									
10:25				S4-1'	13									
10:33				S4-2'	14									
10:47				S4-3'	15									
10:55				S4-4'	16									
11:12				SW1	17									
11:28				SW2	18									
11:39				SW3	19									
11:51				SW4	20									

Additional Instructions: Billing # 21146265

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

Relinquished by: (Signature) Kerime Adams	Date 3/12/24	Time 2:51	Received by: (Signature) Myelle Cuyf	Date 3-12-24	Time 1451	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days. Received on ice: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C 4
Relinquished by: (Signature) Myelle Cuyf	Date 3-12-24	Time 1700	Received by: (Signature) Andrew H...	Date 3-12-24	Time 1700	
Relinquished by: (Signature) Andrew H...	Date 3-12-24	Time 2300	Received by: (Signature) [Signature]	Date 3/13/24	Time 0700	

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

Client: Pima Environmental Services Project: Cotton Draw 13 Federal LH Project Manager: Gio Gomez Address: 5614 N. Lovington Hwy. City, State, Zip: Hobbs, NM, 88240 Phone: 806-782-1151 Email: gio@pimaoil.com Report due by:				Bill To Attention: Devon Address: City, State, Zip: Phone: Email: Pima Project # 1-283-2				Lab Use Only Lab WO# E403123 Job Number 01058-0007				TAT 1D 2D 3D Standard <input checked="" type="checkbox"/>				EPA Program CWA SDWA RCRA			
								Analysis and Method DRO/DRO by 8015 GRO/DRO by 8015 BTEX by 8021 VOC by 8260 Metals 6010 Chloride 300.0 BGDOC NM BGDOC TX				State NM CO UT AZ TX <input checked="" type="checkbox"/>				Remarks			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number														
12:06	3/11	S		SW5	21														
12:21		I		SW6	22														
12:33		I		SW7	23														
12:41		I		BG1	24														
Additional Instructions: Billing# 21146265																			
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																			
Relinquished by: (Signature) Kerime Adame Date 3/12/24 Time 2:51						Received by: (Signature) Michelle Cuyf Date 3-12-24 Time 17451						Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.							
Relinquished by: (Signature) Michelle Cuyf Date 3-12-24 Time 1700						Received by: (Signature) Andrew M... Date 3-12-24 Time 1700						Received on ice: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N							
Relinquished by: (Signature) Andrew M... Date 3-12-24 Time 2300						Received by: (Signature) [Signature] Date 3/13/24 Time 0700						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: 3/13/2024 2:11:08PM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client: Pima Environmental Services-Carlsbad	Date Received: 03/13/24 07:00	Work Order ID: E403123
Phone: (575) 631-6977	Date Logged In: 03/12/24 17:42	Logged In By: Alexa Michaels
Email: gio@pimaoil.com	Due Date: 03/19/24 17:00 (4 day TAT)	

Chain of Custody (COC)

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

Carrier: Courier

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

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

Comments/Resolution

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

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

Date



envirotech Inc.



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

June 13, 2024

GIO GOMEZ

PIMA ENVIROMENTAL

1601 N TURNER STE. 500

HOBBS, NM 88240

RE: COTTON DRAW 13 FED. 1H

Enclosed are the results of analyses for samples received by the laboratory on 06/07/24 12:37.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	06/07/2024	Sampling Date:	06/03/2024
Reported:	06/13/2024	Sampling Type:	Soil
Project Name:	COTTON DRAW 13 FED. 1H	Sampling Condition:	Cool & Intact
Project Number:	283-2	Sample Received By:	Tamara Oldaker
Project Location:	DEVON		

Sample ID: S 1 - 5' (H243272-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/10/2024	ND	1.97	98.7	2.00	4.27	
Toluene*	<0.050	0.050	06/10/2024	ND	2.10	105	2.00	4.12	
Ethylbenzene*	<0.050	0.050	06/10/2024	ND	2.10	105	2.00	3.62	
Total Xylenes*	<0.150	0.150	06/10/2024	ND	6.43	107	6.00	3.28	
Total BTEX	<0.300	0.300	06/10/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/10/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/10/2024	ND	200	100	200	2.08	
DRO >C10-C28*	<10.0	10.0	06/10/2024	ND	182	91.1	200	5.14	
EXT DRO >C28-C36	<10.0	10.0	06/10/2024	ND					

Surrogate: 1-Chlorooctane 98.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	06/07/2024	Sampling Date:	06/03/2024
Reported:	06/13/2024	Sampling Type:	Soil
Project Name:	COTTON DRAW 13 FED. 1H	Sampling Condition:	Cool & Intact
Project Number:	283-2	Sample Received By:	Tamara Oldaker
Project Location:	DEVON		

Sample ID: S 2 - 5' (H243272-02)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/10/2024	ND	1.97	98.7	2.00	4.27	
Toluene*	<0.050	0.050	06/10/2024	ND	2.10	105	2.00	4.12	
Ethylbenzene*	<0.050	0.050	06/10/2024	ND	2.10	105	2.00	3.62	
Total Xylenes*	<0.150	0.150	06/10/2024	ND	6.43	107	6.00	3.28	
Total BTEX	<0.300	0.300	06/10/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/10/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/10/2024	ND	200	100	200	2.08	
DRO >C10-C28*	<10.0	10.0	06/10/2024	ND	182	91.1	200	5.14	
EXT DRO >C28-C36	<10.0	10.0	06/10/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- S-05 The surrogate recovery is outside of lab established statistical control limits but still within method limits. Data is not adversely affected.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Pima Environmental				BILL TO		ANALYSIS REQUEST																										
Project Manager: Gio Gomez				P.O. #:																												
Address: 5614 N Lovington Hwy				Company: Devon																												
City: Hobbs		State: NM Zip: 88240		Attn:																												
Phone #: (506) 782-1151		Fax #:		Address:																												
Project #: 283-2		Project Owner: Devon		City:																												
Project Name: Cotton Draw 13 Fed. 1H				State: Zip:																												
Project Location:				Phone #:																												
Sampler Name:				Fax #:																												
FOR LAB USE ONLY																																
Lab I.D.		Sample I.D.				MATRIX		PRESERV.		SAMPLING																						
												# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL ✓	OTHER:	DATE	TIME	BTEX			TPH			Chloride		
												1	SI-5'	I		X				X		6/3/24	8:38	X			X					
2	SZ-5'	I																														

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Relinquished By: Karime Adams		Date: 6-7-24		Received By: [Signature]		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:	
Relinquished By:		Date:		Received By:		All Results are emailed. Please provide Email address: Tom @ pimaoil.com			
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Observed Temp. °C: -1.1		Sample Condition: Cool Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		CHECKED BY: (Initials): [Signature]		REMARKS: Billing # 21146265	
		Corrected Temp. °C:				Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>		Bacteria (only) Sample Condition: Cool Intact Observed Temp. °C: <input type="checkbox"/> Yes <input type="checkbox"/> No	
FORM 000-R 3.4 07/11/23						Thermometer ID #140		Corrected Temp. °C:	

* Cardinal cannot accept verbal changes. Please email changes to: kerr@cardinallabsnm.com

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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

Action 432860

QUESTIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 432860
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2110326244
Incident Name	NAPP2110326244 COTTON DRAW 13 FEDERAL #1H @ 30-015-40385
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received
Incident Well	[30-015-40385] COTTON DRAW 13 FEDERAL #001H

Location of Release Source	
<i>Please answer all the questions in this group.</i>	
Site Name	COTTON DRAW 13 FEDERAL #1H
Date Release Discovered	03/08/2021
Surface Owner	Federal

Incident Details	
<i>Please answer all the questions in this group.</i>	
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	
<i>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.</i>	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Overflow - Tank, Pit, Etc. Tank (Any) Produced Water Released: 435 BBL Recovered: 420 BBL Lost: 15 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
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QUESTIONS, Page 2

Action 432860

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 432860
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
<i>With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.</i>	

Initial Response

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

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	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@dvn.com Date: 02/18/2025
--	--

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QUESTIONS, Page 3

Action 432860

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 432860
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Site Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 51 and 75 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
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	No

Remediation Plan

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

Requesting a remediation plan approval with this submission	Yes
<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)	2210
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	0
GRO+DRO (EPA SW-846 Method 8015M)	0
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0

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

On what estimated date will the remediation commence	02/06/2025
On what date will (or did) the final sampling or liner inspection occur	03/11/2024
On what date will (or was) the remediation complete(d)	03/11/2024
What is the estimated surface area (in square feet) that will be reclaimed	0
What is the estimated volume (in cubic yards) that will be reclaimed	0
What is the estimated surface area (in square feet) that will be remediated	0
What is the estimated volume (in cubic yards) that will be remediated	0

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

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

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1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS, Page 4

Action 432860

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 432860
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)

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

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

(Select all answers below that apply.)

(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	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)	Yes
Other Non-listed Remedial Process. Please specify	Soil removal not required

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

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

I hereby agree and sign off to the above statement	Name: James Raley Title: EHS Professional Email: jim.raley@dvn.com Date: 02/18/2025
--	--

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

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QUESTIONS, Page 5

Action 432860

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 432860
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Deferral Requests Only	
<i>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.</i>	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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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 6

Action 432860

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 432860
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

Remediation Closure Request	
<i>Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.</i>	
Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	0
What was the total volume (cubic yards) remediated	0
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	0
What was the total volume (in cubic yards) reclaimed	0
Summarize any additional remediation activities not included by answers (above)	Soils meet site standards

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

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

I hereby agree and sign off to the above statement	Name: James Raley Title: EHS Professional Email: jim.raley@dvn.com Date: 02/18/2025
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Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

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QUESTIONS, Page 7

Action 432860

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 432860
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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Phone: (505) 476-3441

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CONDITIONS

Action 432860

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 432860
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
crystal.walker	Operator failed to provide proper Sampling Notification pursuant to 19.15.29.12.D.(1).(a) NMAC. Failure to provide proper sampling notice is a compliance issue and the OCD may pursue compliance actions pursuant to 19.15.5 NMAC. Operator shall ensure future compliance with 19.15.29.12.D.(1).(a) NMAC.	2/19/2025
crystal.walker	Closure Report Approved. Be sure to submit soil sampling notification for any and all confirmation soil sampling events two days prior to sampling per the regulations.	2/19/2025