Volume calculator

There was no volume calculator prepared when the spill occurred.

Devon Energy Production Company, LP
6488 Seven Rivers Hwy
Artesia, NM 88210
575-748-0167

June 7, 2024

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

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

Re: Remediation Closure Report
Cotton Draw Unit 171H
API No. 30-015-42503
GPS: Latitude 32.1526200 Longitude -103.7320907
ULSTR – N – 1 – 25S – 31E 200FSL 2480FWL Eddy County, NM
NMOCD Incident ID nAB1508251701

This release was initially discovered on March 19, 2015. An initial C-141 form was submitted on March 23, 2018, and accepted by the NMOCD (OCD Online: Permitting -> Incident Details -> Incident Files). This incident was assigned Incident ID nAB1508251701, by the New Mexico Oil Conservation Division (NMOCD).

Site Characterization

Site information and characterization documents can be found in the most recent, previously denied Remediation Closure Report located in OCD Online: Permitting – Application ID: 280716.

Release Information

NAB1508251701: On March 19, 2015, Failure to equalize frac tanks resulted in an overflow of a mix of 52 barrels (bbls) of produced water and 1 barrel of crude oil. Opening the equalizing line stopped the overflow. A vacuum truck was called and recovered approximately 44 bbls of standing fluid.

Countermeasures Due to Rejected Closure Report: (Application 215418)

On March 4, 2024, the NMOCD denied the remediation closure report citing:
"The OCD has rejected the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nAB1508251701, for the following reasons:

- **The Closure Report is Denied. This is an old legacy release that occurred in March of 2015. Sampling to a depth of 4 feet is not sufficient to verify chlorides. A 52-barrel release is a very large release and needs to be explored more thoroughly. Chlorides most likely moved down the soil column over the years. The OCD requests two boreholes be advanced in the release area in 1-foot increments down to a depth of 10 feet. The first borehole should be advanced near soil sample location S-5 and the second should be advanced near soil sample location S-1.**

The rejected C-141 can be found in the OCD Online: Permitting - Action Status, under the Application ID: 280716. Please review and make the required correction(s) prior to resubmitting. If you have any questions why this application was rejected or believe it was rejected in error, please contact me prior to submitting an additional C-141."

According to the original release description, a total of 53 bbls of fluid was released onto this pad, and a total of 44 bbls of standing fluid was recovered. The approximate amount of fluid that has absorbed into the soil is 9 bbls, not 52 bbls.

On March 13, 2024, Pima, along with the Devon construction department, mobilized personnel and equipment to the site to begin advancing the requested boreholes. A backhoe was used to dig down in 1' increments so that a sample could be collected from

each foot. The hole CS1 was dug at the site of the original sample point S1. The hole CS5 was dug at the site of the original sample point S5. Each hole was advanced to the required 10' bgs, and samples were collected from each foot. A total of 20 samples were collected, put on ice, jarred, and delivered to the lab for official testing. All samples were tested for all constituents. A Lab Sample Results table can be found in Figure 1. The corresponding Borehole Map can be found in Figure 2. A complete Laboratory Report can be found in Appendix C.

Photographic Documentation can be found in Appendix B.

Approval Request

The laboratory results of this sampling event show the contaminants in this release area to be under the regulatory limits as per Table 1 19.15.29 NMAC. On behalf of Devon, Pima requests that this Remediation Closure Report for incident ID# nAB1508251701 be approved. Devon has complied with the applicable closure requirements outlined in rule 19.15.29.12 NMAC.

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

Attachments

Figures:
1- Lab Sample Results Table
2- Borehole Map

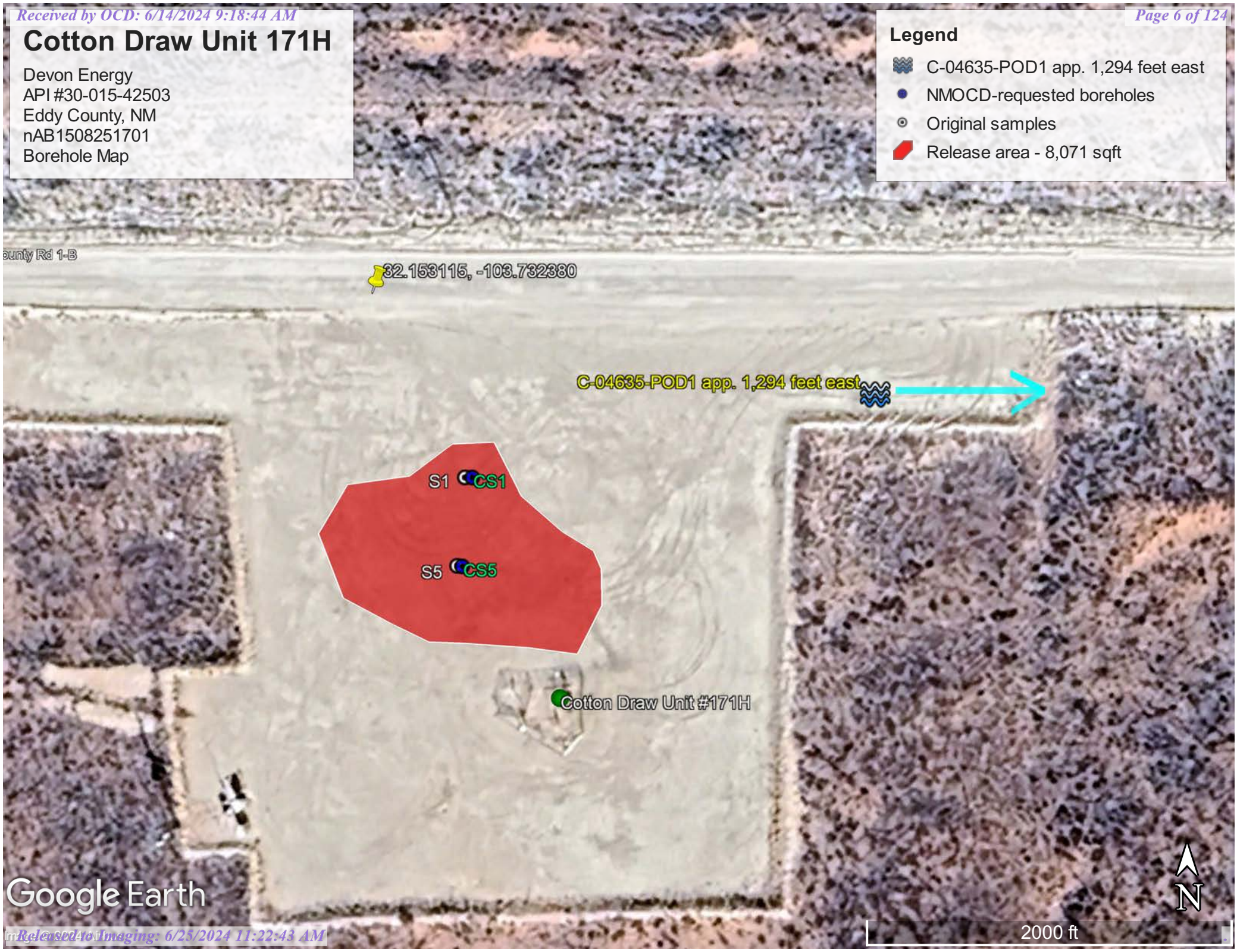
Appendices:
Appendix A – 48-Hour Notification & NMOCD Email Correspondence
Appendix B – Photographic Documentation
Appendix C – Laboratory Report

Figures:

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is 51-100')								
DEVON ENERGY - COTTON DRAW 171H - nAB1508251701								
Date: 3/13/24		NM Approved Laboratory Results						
Sample ID	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg
CS1	1'	ND	ND	ND	ND	ND	0	ND
	2'	ND	ND	ND	ND	ND	0	ND
	3'	ND	ND	ND	ND	ND	0	ND
	4'	ND	ND	ND	ND	ND	0	ND
	5'	ND	ND	ND	ND	ND	0	ND
	6'	ND	ND	ND	ND	ND	0	ND
	7'	ND	ND	ND	ND	ND	0	ND
	8'	ND	ND	ND	ND	ND	0	ND
	9'	ND	ND	ND	ND	ND	0	ND
	10'	ND	ND	ND	ND	ND	0	ND
CS5	1'	ND	ND	ND	ND	ND	0	ND
	2'	ND	ND	ND	ND	ND	0	ND
	3'	ND	ND	ND	ND	ND	0	ND
	4'	ND	ND	ND	ND	ND	0	ND
	5'	ND	ND	ND	ND	ND	0	ND
	6'	ND	ND	ND	ND	ND	0	ND
	7'	ND	ND	ND	ND	ND	0	ND
	8'	ND	ND	ND	ND	ND	0	ND
	9'	ND	ND	ND	ND	ND	0	ND
	10'	ND	ND	ND	ND	ND	0	ND

Cotton Draw Unit 171H

Devon Energy
API #30-015-42503
Eddy County, NM
nAB1508251701
Borehole Map



Appendix A

48-Hour Notification

NMOCD Correspondence

lynsey@pimaoil.com

From: Woodall, Dale <Dale.Woodall@dvn.com>
Sent: Monday, March 11, 2024 9:47 AM
To: 'Gio PimaOil'; Lynsey Pima Oil
Subject: FW: [EXTERNAL] The Oil Conservation Division (OCD) has accepted the application, Application ID: 322026

Dale Woodall
Environmental Professional
Hobbs, NM
Office: 575-748-1838
Mobile: 405-318-4697
Dale.Woodall@dvn.com

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Monday, March 11, 2024 9:44 AM
To: Woodall, Dale <Dale.Woodall@dvn.com>
Subject: [EXTERNAL] The Oil Conservation Division (OCD) has accepted the application, Application ID: 322026

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

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAB1508251701.

The sampling event is expected to take place:

When: 03/13/2024 @ 08:00
Where: N-01-25S-31E 200 FSL 2480 FWL (32.1520689,-103.7315342)

Additional Information: Andrew Franco -806-200-0054

Additional Instructions: (32.1526200,-103.7320907 NAD83)
From the intersection of County Rd 1 (Orla Rd) and Monsanto Ln, travel West on Monsanto Ln for 2.08 miles, turn North on lease Rd for 2.03 miles, turn West on lease rd for 1.67 miles, arriving at location on the left.

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

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

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

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

OCD Permitting

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

Submission Information

Submission ID:	280716	**Districts:**	Artesia
Operator:	[6137] DEVON ENERGY PRODUCTION COMPANY, LP	**Counties:**	Eddy
Description:	DEVON ENERGY PRODUCTION COMPANY, LP [6137] , COTTON DRAW UNIT #171H , nAB1508251701		
Status:	REJECTED		
Status Date:	03/04/2024		
References (2):	30-015-42503, nAB1508251701		

Forms

Attachments: C-141

Scaled Site Map

Questions

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

Comments

No comments found for this submission.

Conditions

No conditions found for this submission.

Reasons

Summary: *rhamlet (3/4/2024),* The Closure Report is Denied. This is an old legacy release that occurred in March of 2015. Sampling to a depth of 4 feet is not sufficient to verify chlorides. A 52-barrel release is a very large release and needs to be explored more thoroughly. Chlorides most likely moved down the soil column over the years. The OCD requests two boreholes be advanced in the release area in 1-foot increments down to a depth of 10 feet. The first borehole should be advanced near soil sample location S-5 and the second should be advanced near soil sample location S-1.

Go Back

1220 South St. Francis Drive | Santa Fe, NM 87505 | P: (505) 476-3200 | F: (505) 476-3220

Appendix B

Photographic Documentation

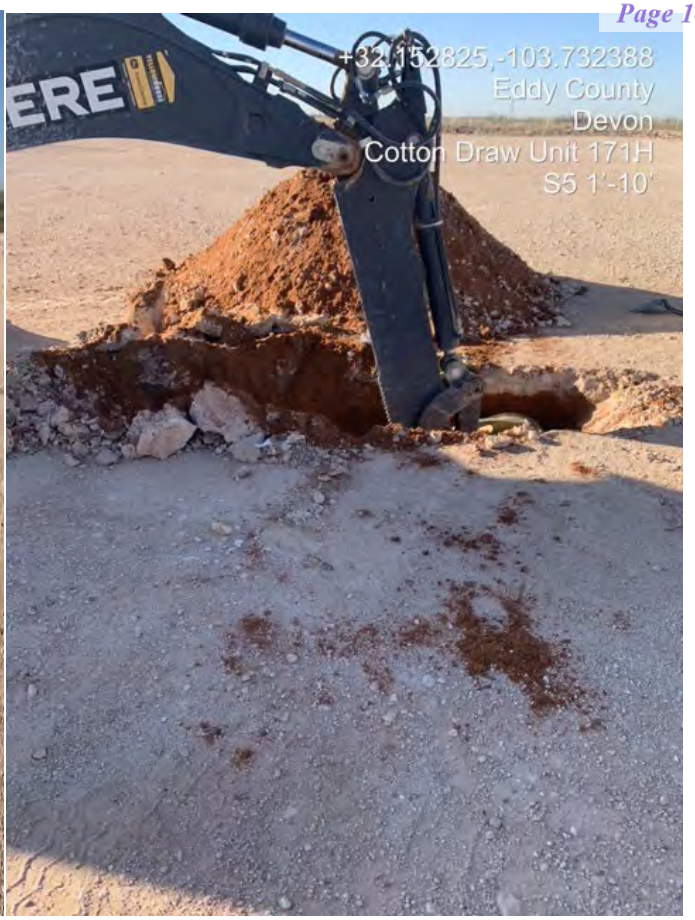

devon
COTTON DRAW 171H
30-015-42503 NMNM-000503
SL: SEC.01-T25S-R31E 200'FSL & 2480'FWL
BL: SEC.01-T25S-R31E 330'FNL & 1980'FWL
EDDY COUNTY, NEW MEXICO
LAT. N 32° 09' 9.432" LONG. W 103° 43' 55.526"
DEVON CORPORATE CONTACT: 800-361-3377

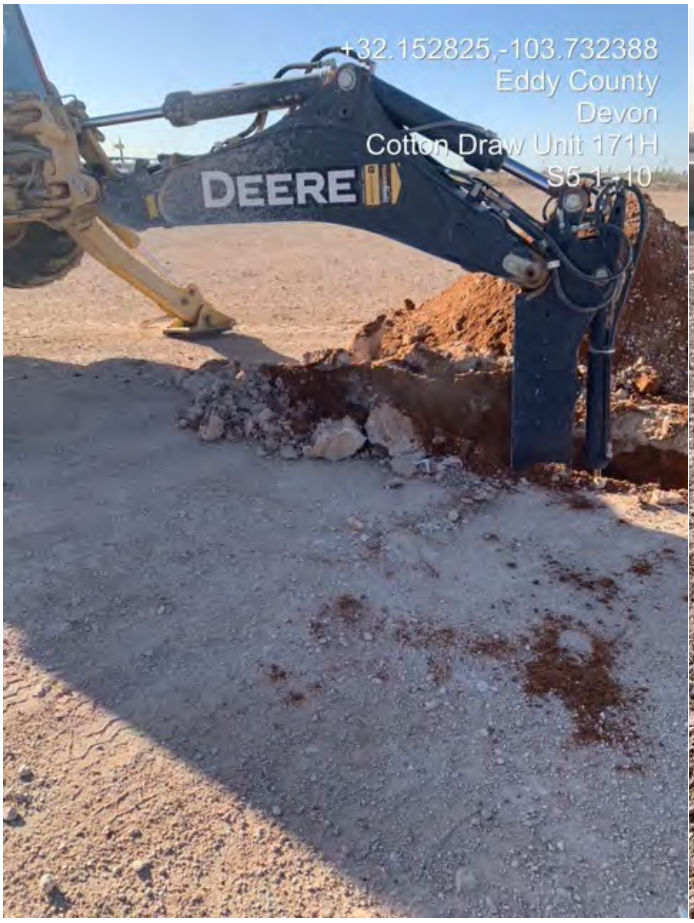

+32.152974,-103.732275
Eddy County
Devon
Cotton Draw Unit 171H
Flagged


+32.152974,-103.732275
Eddy County
Devon
Cotton Draw Unit 171H
Flagged


+32.152873,-103.732243
Eddy County
Devon
Cotton Draw Unit 171H
Flagged


+32.152978,-103.732257
Eddy County
Devon
Cotton Draw Unit 171H
Flagged


+32.152825,-103.732388
Eddy County
Devon
Cotton Draw Unit 171H
S5 1'-10'


+32.152825,-103.732388
Eddy County
Devon
Cotton Draw Unit 171H
S5 1'-10'
DEERE


+32.152903,-103.732496
Eddy County
Devon
Cotton Draw Unit 171H
S5 1'-10'


+32.152940,-103.732345
Eddy County
Devon
Cotton Draw Unit 171H
S1 1'-10'
DEERE


+32.152940,-103.732345
Eddy County
Devon
Cotton Draw Unit 171H
S1 1'-10'
DEERE


+32.152956,-103.732419
Eddy County
Devon
Cotton Draw Unit 171H
S1 1'-10'
DEERE

Appendix C

Laboratory Report

Report to:

Tom Bynum

5796 U.S. Hwy 64
Farmington, NM 87401

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

envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Pima Environmental Services-Carlsbad

Project Name:	Cotton Draw Unit 171H
Work Order:	E403127
Job Number:	01058-0007
Received:	3/14/2024

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
3/15/24

Date Reported: 3/15/24

Tom Bynum
PO Box 247
Plains, TX 79355-0247

Project Name: Cotton Draw Unit 171H
Workorder: E403127
Date Received: 3/14/2024 7:30:00AM

Tom Bynum,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 3/14/2024 7:30:00AM, under the Project Name: Cotton Draw Unit 171H.

The analytical test results summarized in this report with the Project Name: Cotton Draw Unit 171H 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 reguarding 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
ljarboe@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

Table of Contents

Table of Contents (continued)

Sample Summary

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 171H	**Reported:**
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	03/15/24 15:31

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
CS1-1'	E403127-01A	Soil	03/13/24	03/14/24	Glass Jar, 2 oz.
CS1-2'	E403127-02A	Soil	03/13/24	03/14/24	Glass Jar, 2 oz.
CS1-3'	E403127-03A	Soil	03/13/24	03/14/24	Glass Jar, 2 oz.
CS1-4'	E403127-04A	Soil	03/13/24	03/14/24	Glass Jar, 2 oz.
CS1-5'	E403127-05A	Soil	03/13/24	03/14/24	Glass Jar, 2 oz.
CS1-6'	E403127-06A	Soil	03/13/24	03/14/24	Glass Jar, 2 oz.
CS1-7'	E403127-07A	Soil	03/13/24	03/14/24	Glass Jar, 2 oz.
CS1-8'	E403127-08A	Soil	03/13/24	03/14/24	Glass Jar, 2 oz.
CS1-9'	E403127-09A	Soil	03/13/24	03/14/24	Glass Jar, 2 oz.
CS1-10'	E403127-10A	Soil	03/13/24	03/14/24	Glass Jar, 2 oz.
CS5-1'	E403127-11A	Soil	03/13/24	03/14/24	Glass Jar, 2 oz.
CS5 -2'	E403127-12A	Soil	03/13/24	03/14/24	Glass Jar, 2 oz.
CS5 -3'	E403127-13A	Soil	03/13/24	03/14/24	Glass Jar, 2 oz.
CS5 -4'	E403127-14A	Soil	03/13/24	03/14/24	Glass Jar, 2 oz.
CS5 -5'	E403127-15A	Soil	03/13/24	03/14/24	Glass Jar, 2 oz.
CS5 -6'	E403127-16A	Soil	03/13/24	03/14/24	Glass Jar, 2 oz.
CS5 -7'	E403127-17A	Soil	03/13/24	03/14/24	Glass Jar, 2 oz.
CS5 -8'	E403127-18A	Soil	03/13/24	03/14/24	Glass Jar, 2 oz.
CS5 -9'	E403127-19A	Soil	03/13/24	03/14/24	Glass Jar, 2 oz.
CS5 -10'	E403127-20A	Soil	03/13/24	03/14/24	Glass Jar, 2 oz.

Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 171H	
PO Box 247	Project Number:	01058-0007	**Reported:**
Plains TX, 79355-0247	Project Manager:	Tom Bynum	3/15/2024 3:31:21PM

CS1-1'

E403127-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2411102
Benzene	ND	0.0250	1	03/14/24	03/14/24	
Ethylbenzene	ND	0.0250	1	03/14/24	03/14/24	
Toluene	ND	0.0250	1	03/14/24	03/14/24	
o-Xylene	ND	0.0250	1	03/14/24	03/14/24	
p,m-Xylene	ND	0.0500	1	03/14/24	03/14/24	
Total Xylenes	ND	0.0250	1	03/14/24	03/14/24	
Surrogate: 4-Bromochlorobenzene-PID		*103 %*	*70-130*	*03/14/24*	*03/14/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2411102
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/14/24	03/14/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*89.1 %*	*70-130*	*03/14/24*	*03/14/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2411105
Diesel Range Organics (C10-C28)	ND	25.0	1	03/14/24	03/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/14/24	03/14/24	
Surrogate: n-Nonane		*97.1 %*	*50-200*	*03/14/24*	*03/14/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2411117
Chloride	ND	20.0	1	03/14/24	03/14/24	

Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 171H	
PO Box 247	Project Number:	01058-0007	**Reported:**
Plains TX, 79355-0247	Project Manager:	Tom Bynum	3/15/2024 3:31:21PM

CS1-2'

E403127-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2411102
Benzene	ND	0.0250	1	03/14/24	03/14/24	
Ethylbenzene	ND	0.0250	1	03/14/24	03/14/24	
Toluene	ND	0.0250	1	03/14/24	03/14/24	
o-Xylene	ND	0.0250	1	03/14/24	03/14/24	
p,m-Xylene	ND	0.0500	1	03/14/24	03/14/24	
Total Xylenes	ND	0.0250	1	03/14/24	03/14/24	
Surrogate: 4-Bromochlorobenzene-PID		*98.7 %*	*70-130*	*03/14/24*	*03/14/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2411102
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/14/24	03/14/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*89.4 %*	*70-130*	*03/14/24*	*03/14/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2411105
Diesel Range Organics (C10-C28)	ND	25.0	1	03/14/24	03/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/14/24	03/14/24	
Surrogate: n-Nonane		*99.6 %*	*50-200*	*03/14/24*	*03/14/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2411117
Chloride	ND	20.0	1	03/14/24	03/14/24	

Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 171H	
PO Box 247	Project Number:	01058-0007	**Reported:**
Plains TX, 79355-0247	Project Manager:	Tom Bynum	3/15/2024 3:31:21PM

CS1-3'

E403127-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2411102
Benzene	ND	0.0250	1	03/14/24	03/14/24	
Ethylbenzene	ND	0.0250	1	03/14/24	03/14/24	
Toluene	ND	0.0250	1	03/14/24	03/14/24	
o-Xylene	ND	0.0250	1	03/14/24	03/14/24	
p,m-Xylene	ND	0.0500	1	03/14/24	03/14/24	
Total Xylenes	ND	0.0250	1	03/14/24	03/14/24	
Surrogate: 4-Bromochlorobenzene-PID		*98.7 %*	*70-130*	*03/14/24*	*03/14/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2411102
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/14/24	03/14/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*89.2 %*	*70-130*	*03/14/24*	*03/14/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2411105
Diesel Range Organics (C10-C28)	ND	25.0	1	03/14/24	03/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/14/24	03/14/24	
Surrogate: n-Nonane		*93.3 %*	*50-200*	*03/14/24*	*03/14/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2411117
Chloride	ND	20.0	1	03/14/24	03/14/24	

Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 171H	
PO Box 247	Project Number:	01058-0007	**Reported:**
Plains TX, 79355-0247	Project Manager:	Tom Bynum	3/15/2024 3:31:21PM

CS1-4'

E403127-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2411102
Benzene	ND	0.0250	1	03/14/24	03/14/24	
Ethylbenzene	ND	0.0250	1	03/14/24	03/14/24	
Toluene	ND	0.0250	1	03/14/24	03/14/24	
o-Xylene	ND	0.0250	1	03/14/24	03/14/24	
p,m-Xylene	ND	0.0500	1	03/14/24	03/14/24	
Total Xylenes	ND	0.0250	1	03/14/24	03/14/24	
Surrogate: 4-Bromochlorobenzene-PID		*97.8 %*	*70-130*	*03/14/24*	*03/14/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2411102
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/14/24	03/14/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*89.2 %*	*70-130*	*03/14/24*	*03/14/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2411105
Diesel Range Organics (C10-C28)	ND	25.0	1	03/14/24	03/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/14/24	03/14/24	
Surrogate: n-Nonane		*93.7 %*	*50-200*	*03/14/24*	*03/14/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2411117
Chloride	ND	20.0	1	03/14/24	03/14/24	

Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 171H	
PO Box 247	Project Number:	01058-0007	**Reported:**
Plains TX, 79355-0247	Project Manager:	Tom Bynum	3/15/2024 3:31:21PM

CS1-5'

E403127-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2411102
Benzene	ND	0.0250	1	03/14/24	03/14/24	
Ethylbenzene	ND	0.0250	1	03/14/24	03/14/24	
Toluene	ND	0.0250	1	03/14/24	03/14/24	
o-Xylene	ND	0.0250	1	03/14/24	03/14/24	
p,m-Xylene	ND	0.0500	1	03/14/24	03/14/24	
Total Xylenes	ND	0.0250	1	03/14/24	03/14/24	
Surrogate: 4-Bromochlorobenzene-PID		*98.1 %*	*70-130*	*03/14/24*	*03/14/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2411102
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/14/24	03/14/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*88.8 %*	*70-130*	*03/14/24*	*03/14/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2411105
Diesel Range Organics (C10-C28)	ND	25.0	1	03/14/24	03/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/14/24	03/14/24	
Surrogate: n-Nonane		*97.4 %*	*50-200*	*03/14/24*	*03/14/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2411117
Chloride	ND	20.0	1	03/14/24	03/14/24	

Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 171H	
PO Box 247	Project Number:	01058-0007	**Reported:**
Plains TX, 79355-0247	Project Manager:	Tom Bynum	3/15/2024 3:31:21PM

CS1-6'

E403127-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2411102
Benzene	ND	0.0250	1	03/14/24	03/14/24	
Ethylbenzene	ND	0.0250	1	03/14/24	03/14/24	
Toluene	ND	0.0250	1	03/14/24	03/14/24	
o-Xylene	ND	0.0250	1	03/14/24	03/14/24	
p,m-Xylene	ND	0.0500	1	03/14/24	03/14/24	
Total Xylenes	ND	0.0250	1	03/14/24	03/14/24	
Surrogate: 4-Bromochlorobenzene-PID		*96.6 %*	*70-130*	*03/14/24*	*03/14/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2411102
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/14/24	03/14/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*88.0 %*	*70-130*	*03/14/24*	*03/14/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2411105
Diesel Range Organics (C10-C28)	ND	25.0	1	03/14/24	03/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/14/24	03/14/24	
Surrogate: n-Nonane		*95.6 %*	*50-200*	*03/14/24*	*03/14/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2411117
Chloride	ND	20.0	1	03/14/24	03/14/24	

Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 171H	
PO Box 247	Project Number:	01058-0007	**Reported:**
Plains TX, 79355-0247	Project Manager:	Tom Bynum	3/15/2024 3:31:21PM

CS1-7'

E403127-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2411102
Benzene	ND	0.0250	1	03/14/24	03/14/24	
Ethylbenzene	ND	0.0250	1	03/14/24	03/14/24	
Toluene	ND	0.0250	1	03/14/24	03/14/24	
o-Xylene	ND	0.0250	1	03/14/24	03/14/24	
p,m-Xylene	ND	0.0500	1	03/14/24	03/14/24	
Total Xylenes	ND	0.0250	1	03/14/24	03/14/24	
Surrogate: 4-Bromochlorobenzene-PID		*95.3 %*	*70-130*	*03/14/24*	*03/14/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2411102
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/14/24	03/14/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*88.5 %*	*70-130*	*03/14/24*	*03/14/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2411105
Diesel Range Organics (C10-C28)	ND	25.0	1	03/14/24	03/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/14/24	03/14/24	
Surrogate: n-Nonane		*99.2 %*	*50-200*	*03/14/24*	*03/14/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2411117
Chloride	ND	20.0	1	03/14/24	03/14/24	

Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 171H	
PO Box 247	Project Number:	01058-0007	**Reported:**
Plains TX, 79355-0247	Project Manager:	Tom Bynum	3/15/2024 3:31:21PM

CS1-8'

E403127-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2411102
Benzene	ND	0.0250	1	03/14/24	03/14/24	
Ethylbenzene	ND	0.0250	1	03/14/24	03/14/24	
Toluene	ND	0.0250	1	03/14/24	03/14/24	
o-Xylene	ND	0.0250	1	03/14/24	03/14/24	
p,m-Xylene	ND	0.0500	1	03/14/24	03/14/24	
Total Xylenes	ND	0.0250	1	03/14/24	03/14/24	
Surrogate: 4-Bromochlorobenzene-PID		*95.2 %*	*70-130*	*03/14/24*	*03/14/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2411102
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/14/24	03/14/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*88.7 %*	*70-130*	*03/14/24*	*03/14/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2411105
Diesel Range Organics (C10-C28)	ND	25.0	1	03/14/24	03/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/14/24	03/14/24	
Surrogate: n-Nonane		*102 %*	*50-200*	*03/14/24*	*03/14/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2411117
Chloride	ND	20.0	1	03/14/24	03/14/24	

Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 171H	
PO Box 247	Project Number:	01058-0007	**Reported:**
Plains TX, 79355-0247	Project Manager:	Tom Bynum	3/15/2024 3:31:21PM

CS1-9'

E403127-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2411102
Benzene	ND	0.0250	1	03/14/24	03/14/24	
Ethylbenzene	ND	0.0250	1	03/14/24	03/14/24	
Toluene	ND	0.0250	1	03/14/24	03/14/24	
o-Xylene	ND	0.0250	1	03/14/24	03/14/24	
p,m-Xylene	ND	0.0500	1	03/14/24	03/14/24	
Total Xylenes	ND	0.0250	1	03/14/24	03/14/24	
Surrogate: 4-Bromochlorobenzene-PID		*95.0 %*	*70-130*	*03/14/24*	*03/14/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2411102
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/14/24	03/14/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*88.6 %*	*70-130*	*03/14/24*	*03/14/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2411105
Diesel Range Organics (C10-C28)	ND	25.0	1	03/14/24	03/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/14/24	03/14/24	
Surrogate: n-Nonane		*91.4 %*	*50-200*	*03/14/24*	*03/14/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2411117
Chloride	ND	20.0	1	03/14/24	03/14/24	

Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 171H	
PO Box 247	Project Number:	01058-0007	**Reported:**
Plains TX, 79355-0247	Project Manager:	Tom Bynum	3/15/2024 3:31:21PM

CS1-10'

E403127-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2411102
Benzene	ND	0.0250	1	03/14/24	03/14/24	
Ethylbenzene	ND	0.0250	1	03/14/24	03/14/24	
Toluene	ND	0.0250	1	03/14/24	03/14/24	
o-Xylene	ND	0.0250	1	03/14/24	03/14/24	
p,m-Xylene	ND	0.0500	1	03/14/24	03/14/24	
Total Xylenes	ND	0.0250	1	03/14/24	03/14/24	
Surrogate: 4-Bromochlorobenzene-PID		*94.5 %*	*70-130*	*03/14/24*	*03/14/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2411102
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/14/24	03/14/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*87.9 %*	*70-130*	*03/14/24*	*03/14/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2411105
Diesel Range Organics (C10-C28)	ND	25.0	1	03/14/24	03/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/14/24	03/14/24	
Surrogate: n-Nonane		*101 %*	*50-200*	*03/14/24*	*03/14/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2411117
Chloride	ND	20.0	1	03/14/24	03/14/24	

Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 171H	
PO Box 247	Project Number:	01058-0007	**Reported:**
Plains TX, 79355-0247	Project Manager:	Tom Bynum	3/15/2024 3:31:21PM

CS5-1'

E403127-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2411102
Benzene	ND	0.0250	1	03/14/24	03/14/24	
Ethylbenzene	ND	0.0250	1	03/14/24	03/14/24	
Toluene	ND	0.0250	1	03/14/24	03/14/24	
o-Xylene	ND	0.0250	1	03/14/24	03/14/24	
p,m-Xylene	ND	0.0500	1	03/14/24	03/14/24	
Total Xylenes	ND	0.0250	1	03/14/24	03/14/24	
Surrogate: 4-Bromochlorobenzene-PID		*93.5 %*	*70-130*	*03/14/24*	*03/14/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2411102
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/14/24	03/14/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*95.0 %*	*70-130*	*03/14/24*	*03/14/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2411105
Diesel Range Organics (C10-C28)	ND	25.0	1	03/14/24	03/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/14/24	03/14/24	
Surrogate: n-Nonane		*80.5 %*	*50-200*	*03/14/24*	*03/14/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2411117
Chloride	ND	20.0	1	03/14/24	03/14/24	

Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 171H	
PO Box 247	Project Number:	01058-0007	**Reported:**
Plains TX, 79355-0247	Project Manager:	Tom Bynum	3/15/2024 3:31:21PM

CS5 -2'

E403127-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2411102
Benzene	ND	0.0250	1	03/14/24	03/14/24	
Ethylbenzene	ND	0.0250	1	03/14/24	03/14/24	
Toluene	ND	0.0250	1	03/14/24	03/14/24	
o-Xylene	ND	0.0250	1	03/14/24	03/14/24	
p,m-Xylene	ND	0.0500	1	03/14/24	03/14/24	
Total Xylenes	ND	0.0250	1	03/14/24	03/14/24	
Surrogate: 4-Bromochlorobenzene-PID		*94.6 %*	*70-130*	*03/14/24*	*03/14/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2411102
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/14/24	03/14/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*94.4 %*	*70-130*	*03/14/24*	*03/14/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2411105
Diesel Range Organics (C10-C28)	ND	25.0	1	03/14/24	03/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/14/24	03/14/24	
Surrogate: n-Nonane		*75.4 %*	*50-200*	*03/14/24*	*03/14/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2411117
Chloride	ND	20.0	1	03/14/24	03/14/24	

Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 171H	
PO Box 247	Project Number:	01058-0007	**Reported:**
Plains TX, 79355-0247	Project Manager:	Tom Bynum	3/15/2024 3:31:21PM

CS5 -3'

E403127-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2411102
Benzene	ND	0.0250	1	03/14/24	03/14/24	
Ethylbenzene	ND	0.0250	1	03/14/24	03/14/24	
Toluene	ND	0.0250	1	03/14/24	03/14/24	
o-Xylene	ND	0.0250	1	03/14/24	03/14/24	
p,m-Xylene	ND	0.0500	1	03/14/24	03/14/24	
Total Xylenes	ND	0.0250	1	03/14/24	03/14/24	
Surrogate: 4-Bromochlorobenzene-PID		*94.1 %*	*70-130*	*03/14/24*	*03/14/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2411102
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/14/24	03/14/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*94.9 %*	*70-130*	*03/14/24*	*03/14/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2411105
Diesel Range Organics (C10-C28)	ND	25.0	1	03/14/24	03/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/14/24	03/14/24	
Surrogate: n-Nonane		*81.4 %*	*50-200*	*03/14/24*	*03/14/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2411117
Chloride	ND	20.0	1	03/14/24	03/14/24	

Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 171H	
PO Box 247	Project Number:	01058-0007	**Reported:**
Plains TX, 79355-0247	Project Manager:	Tom Bynum	3/15/2024 3:31:21PM

CS5 -4'

E403127-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2411102
Benzene	ND	0.0250	1	03/14/24	03/14/24	
Ethylbenzene	ND	0.0250	1	03/14/24	03/14/24	
Toluene	ND	0.0250	1	03/14/24	03/14/24	
o-Xylene	ND	0.0250	1	03/14/24	03/14/24	
p,m-Xylene	ND	0.0500	1	03/14/24	03/14/24	
Total Xylenes	ND	0.0250	1	03/14/24	03/14/24	
Surrogate: 4-Bromochlorobenzene-PID		*94.4 %*	*70-130*	*03/14/24*	*03/14/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2411102
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/14/24	03/14/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*94.6 %*	*70-130*	*03/14/24*	*03/14/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2411105
Diesel Range Organics (C10-C28)	ND	25.0	1	03/14/24	03/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/14/24	03/14/24	
Surrogate: n-Nonane		*81.3 %*	*50-200*	*03/14/24*	*03/14/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2411117
Chloride	ND	20.0	1	03/14/24	03/14/24	

Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 171H	
PO Box 247	Project Number:	01058-0007	**Reported:**
Plains TX, 79355-0247	Project Manager:	Tom Bynum	3/15/2024 3:31:21PM

CS5 -5'

E403127-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2411102
Benzene	ND	0.0250	1	03/14/24	03/14/24	
Ethylbenzene	ND	0.0250	1	03/14/24	03/14/24	
Toluene	ND	0.0250	1	03/14/24	03/14/24	
o-Xylene	ND	0.0250	1	03/14/24	03/14/24	
p,m-Xylene	ND	0.0500	1	03/14/24	03/14/24	
Total Xylenes	ND	0.0250	1	03/14/24	03/14/24	
Surrogate: 4-Bromochlorobenzene-PID		*94.0 %*	*70-130*	*03/14/24*	*03/14/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2411102
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/14/24	03/14/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*93.9 %*	*70-130*	*03/14/24*	*03/14/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2411105
Diesel Range Organics (C10-C28)	ND	25.0	1	03/14/24	03/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/14/24	03/14/24	
Surrogate: n-Nonane		*77.2 %*	*50-200*	*03/14/24*	*03/14/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2411117
Chloride	ND	20.0	1	03/14/24	03/14/24	

Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 171H	
PO Box 247	Project Number:	01058-0007	**Reported:**
Plains TX, 79355-0247	Project Manager:	Tom Bynum	3/15/2024 3:31:21PM

CS5 -6'

E403127-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2411102
Benzene	ND	0.0250	1	03/14/24	03/14/24	
Ethylbenzene	ND	0.0250	1	03/14/24	03/14/24	
Toluene	ND	0.0250	1	03/14/24	03/14/24	
o-Xylene	ND	0.0250	1	03/14/24	03/14/24	
p,m-Xylene	ND	0.0500	1	03/14/24	03/14/24	
Total Xylenes	ND	0.0250	1	03/14/24	03/14/24	
Surrogate: 4-Bromochlorobenzene-PID		*94.1 %*	*70-130*	*03/14/24*	*03/14/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2411102
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/14/24	03/14/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*94.0 %*	*70-130*	*03/14/24*	*03/14/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2411105
Diesel Range Organics (C10-C28)	ND	25.0	1	03/14/24	03/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/14/24	03/14/24	
Surrogate: n-Nonane		*78.4 %*	*50-200*	*03/14/24*	*03/14/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2411117
Chloride	ND	20.0	1	03/14/24	03/14/24	

Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 171H	
PO Box 247	Project Number:	01058-0007	**Reported:**
Plains TX, 79355-0247	Project Manager:	Tom Bynum	3/15/2024 3:31:21PM

CS5 -7'

E403127-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2411102
Benzene	ND	0.0250	1	03/14/24	03/14/24	
Ethylbenzene	ND	0.0250	1	03/14/24	03/14/24	
Toluene	ND	0.0250	1	03/14/24	03/14/24	
o-Xylene	ND	0.0250	1	03/14/24	03/14/24	
p,m-Xylene	ND	0.0500	1	03/14/24	03/14/24	
Total Xylenes	ND	0.0250	1	03/14/24	03/14/24	
Surrogate: 4-Bromochlorobenzene-PID		*94.2 %*	*70-130*	*03/14/24*	*03/14/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2411102
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/14/24	03/14/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*94.9 %*	*70-130*	*03/14/24*	*03/14/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2411105
Diesel Range Organics (C10-C28)	ND	25.0	1	03/14/24	03/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/14/24	03/14/24	
Surrogate: n-Nonane		*80.1 %*	*50-200*	*03/14/24*	*03/14/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2411117
Chloride	ND	20.0	1	03/14/24	03/14/24	

Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 171H	
PO Box 247	Project Number:	01058-0007	**Reported:**
Plains TX, 79355-0247	Project Manager:	Tom Bynum	3/15/2024 3:31:21PM

CS5 -8'

E403127-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2411102
Benzene	ND	0.0250	1	03/14/24	03/14/24	
Ethylbenzene	ND	0.0250	1	03/14/24	03/14/24	
Toluene	ND	0.0250	1	03/14/24	03/14/24	
o-Xylene	ND	0.0250	1	03/14/24	03/14/24	
p,m-Xylene	ND	0.0500	1	03/14/24	03/14/24	
Total Xylenes	ND	0.0250	1	03/14/24	03/14/24	
Surrogate: 4-Bromochlorobenzene-PID		*92.8 %*	*70-130*	*03/14/24*	*03/14/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2411102
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/14/24	03/14/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*96.4 %*	*70-130*	*03/14/24*	*03/14/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2411105
Diesel Range Organics (C10-C28)	ND	25.0	1	03/14/24	03/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/14/24	03/14/24	
Surrogate: n-Nonane		*75.8 %*	*50-200*	*03/14/24*	*03/14/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2411117
Chloride	ND	20.0	1	03/14/24	03/14/24	

Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 171H	
PO Box 247	Project Number:	01058-0007	**Reported:**
Plains TX, 79355-0247	Project Manager:	Tom Bynum	3/15/2024 3:31:21PM

CS5 -9'

E403127-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2411102
Benzene	ND	0.0250	1	03/14/24	03/14/24	
Ethylbenzene	ND	0.0250	1	03/14/24	03/14/24	
Toluene	ND	0.0250	1	03/14/24	03/14/24	
o-Xylene	ND	0.0250	1	03/14/24	03/14/24	
p,m-Xylene	ND	0.0500	1	03/14/24	03/14/24	
Total Xylenes	ND	0.0250	1	03/14/24	03/14/24	
Surrogate: 4-Bromochlorobenzene-PID		*93.6 %*	*70-130*	*03/14/24*	*03/14/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2411102
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/14/24	03/14/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*93.6 %*	*70-130*	*03/14/24*	*03/14/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2411105
Diesel Range Organics (C10-C28)	ND	25.0	1	03/14/24	03/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/14/24	03/14/24	
Surrogate: n-Nonane		*75.3 %*	*50-200*	*03/14/24*	*03/14/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2411117
Chloride	ND	20.0	1	03/14/24	03/14/24	

Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 171H	
PO Box 247	Project Number:	01058-0007	**Reported:**
Plains TX, 79355-0247	Project Manager:	Tom Bynum	3/15/2024 3:31:21PM

CS5 -10'

E403127-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2411102
Benzene	ND	0.0250	1	03/14/24	03/14/24	
Ethylbenzene	ND	0.0250	1	03/14/24	03/14/24	
Toluene	ND	0.0250	1	03/14/24	03/14/24	
o-Xylene	ND	0.0250	1	03/14/24	03/14/24	
p,m-Xylene	ND	0.0500	1	03/14/24	03/14/24	
Total Xylenes	ND	0.0250	1	03/14/24	03/14/24	
Surrogate: 4-Bromochlorobenzene-PID		*94.3 %*	*70-130*	*03/14/24*	*03/14/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2411102
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/14/24	03/14/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*94.6 %*	*70-130*	*03/14/24*	*03/14/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2411105
Diesel Range Organics (C10-C28)	ND	25.0	1	03/14/24	03/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/14/24	03/14/24	
Surrogate: n-Nonane		*77.7 %*	*50-200*	*03/14/24*	*03/14/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2411117
Chloride	ND	20.0	1	03/14/24	03/14/24	

QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 171H	**Reported:**
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	3/15/2024 3:31:21PM

Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2411102-BLK1)									Prepared: 03/14/24 Analyzed: 03/14/24
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	*7.64*		*8.00*		*95.5*	*70-130*			
LCS (2411102-BS1)									Prepared: 03/14/24 Analyzed: 03/14/24
Benzene	5.02	0.0250	5.00		100	70-130			
Ethylbenzene	4.84	0.0250	5.00		96.9	70-130			
Toluene	4.99	0.0250	5.00		99.8	70-130			
o-Xylene	4.92	0.0250	5.00		98.4	70-130			
p,m-Xylene	9.89	0.0500	10.0		98.9	70-130			
Total Xylenes	14.8	0.0250	15.0		98.7	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*7.72*		*8.00*		*96.5*	*70-130*			
Matrix Spike (2411102-MS1)				**Source: E403127-04**					Prepared: 03/14/24 Analyzed: 03/14/24
Benzene	5.17	0.0250	5.00	ND	103	54-133			
Ethylbenzene	5.01	0.0250	5.00	ND	100	61-133			
Toluene	5.16	0.0250	5.00	ND	103	61-130			
o-Xylene	5.09	0.0250	5.00	ND	102	63-131			
p,m-Xylene	10.2	0.0500	10.0	ND	102	63-131			
Total Xylenes	15.3	0.0250	15.0	ND	102	63-131			
Surrogate: 4-Bromochlorobenzene-PID	*7.75*		*8.00*		*96.9*	*70-130*			
Matrix Spike Dup (2411102-MSD1)				**Source: E403127-04**					Prepared: 03/14/24 Analyzed: 03/14/24
Benzene	5.09	0.0250	5.00	ND	102	54-133	1.54	20	
Ethylbenzene	4.96	0.0250	5.00	ND	99.2	61-133	0.987	20	
Toluene	5.09	0.0250	5.00	ND	102	61-130	1.37	20	
o-Xylene	5.03	0.0250	5.00	ND	101	63-131	1.17	20	
p,m-Xylene	10.1	0.0500	10.0	ND	101	63-131	0.996	20	
Total Xylenes	15.2	0.0250	15.0	ND	101	63-131	1.06	20	
Surrogate: 4-Bromochlorobenzene-PID	*7.72*		*8.00*		*96.5*	*70-130*			

QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 171H	**Reported:**
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	3/15/2024 3:31:21PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2411102-BLK1)									Prepared: 03/14/24 Analyzed: 03/14/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.08*		*8.00*		*88.5*	*70-130*			
LCS (2411102-BS2)									Prepared: 03/14/24 Analyzed: 03/14/24
Gasoline Range Organics (C6-C10)	42.1	20.0	50.0		84.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.15*		*8.00*		*89.4*	*70-130*			
Matrix Spike (2411102-MS2)				**Source: E403127-04**					Prepared: 03/14/24 Analyzed: 03/14/24
Gasoline Range Organics (C6-C10)	42.1	20.0	50.0	ND	84.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.20*		*8.00*		*90.0*	*70-130*			
Matrix Spike Dup (2411102-MSD2)				**Source: E403127-04**					Prepared: 03/14/24 Analyzed: 03/14/24
Gasoline Range Organics (C6-C10)	43.5	20.0	50.0	ND	87.0	70-130	3.23	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.18*		*8.00*		*89.7*	*70-130*			

QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 171H	**Reported:**
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	3/15/2024 3:31:21PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2411105-BLK1)									Prepared: 03/14/24 Analyzed: 03/14/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*52.2*		*50.0*		*104*	*50-200*			
LCS (2411105-BS1)									Prepared: 03/14/24 Analyzed: 03/14/24
Diesel Range Organics (C10-C28)	292	25.0	250		117	38-132			
Surrogate: n-Nonane	*50.3*		*50.0*		*101*	*50-200*			
LCS Dup (2411105-BSD1)									Prepared: 03/14/24 Analyzed: 03/14/24
Diesel Range Organics (C10-C28)	290	25.0	250		116	38-132	0.699	20	
Surrogate: n-Nonane	*51.0*		*50.0*		*102*	*50-200*			

QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 171H	**Reported:**
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	3/15/2024 3:31:21PM

Anions by EPA 300.0/9056A

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2411117-BLK1)									Prepared: 03/14/24 Analyzed: 03/14/24
Chloride	ND	20.0							
LCS (2411117-BS1)									Prepared: 03/14/24 Analyzed: 03/14/24
Chloride	243	20.0	250		97.2	90-110			
LCS Dup (2411117-BSD1)									Prepared: 03/14/24 Analyzed: 03/14/24
Chloride	252	20.0	250		101	90-110	3.69	20	

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

Definitions and Notes

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 171H	
PO Box 247	Project Number:	01058-0007	**Reported:**
Plains TX, 79355-0247	Project Manager:	Tom Bynum	03/15/24 15:31

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

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

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

Project Information

Chain of Custody

Page 1 of 2

Client: Pima Environmental Services	
Project: Cotton Draw Unit 171 H	
Project Manager: Gio Gomez	
Address: 5614 N. Lovington Hwy.	
City, State, Zip Hobbs, NM, 88240	
Phone: 806-782-1151	
Email: gio@pimaoil.com	
Report due by:	

Bill To

Attention: Devon	
Address:	
City, State, Zip	
Phone:	
Email:	
Pima Project #	R-235

Lab Use Only

Lab WO# E 403127 Job Number 01058-0007

TAT

1D	2D	3D	Standard
X			

EPA Program

CWA	SDWA	RCRA

State

NM	CO	UT	AZ	TX	
X					

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
8:15	3/13	S		CS1-1'	1									X				
8:21				CS1-2'	2													
8:33				CS1-3'	3													
8:46				CS1-4'	4													
8:59				CS1-5'	5													
9:16				CS1-6'	6													
9:22				CS1-7'	7													
9:36				CS1-8'	8													
9:48				CS1-9'	9													
9:56				CS1-10'	10													

Additional Instructions: Billing # 21164261

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)	Date	Time	Received by: (Signature)	Date	Time
Karime Adame	3.13.24	3:02	Michelle Cruz	3.13.24	1502
Michelle Cruz	3-13-24	1530	L.M.	3.13.24	1700
L.M.	3.13.24	2300	Krystal R Hill	3-14-24	7:30

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: (Y) / N

T1 T2 T3

AVG Temp °C 4

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

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

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

envirotech

Project Information | Chain of Custody | Page 2 of 2

Client: Pima Environmental Services	Bill To
Project: Cotton Draw Unit 171 H	Attention: Devon
Project Manager: Gio Gomez	Address:
Address: 5614 N. Lovington Hwy.	City, State, Zip
City, State, Zip Hobbs, NM, 88240	Phone:
Phone: 806-782-1151	Email:
Email: gio@pimaoil.com	Pima Project # R-235
Report due by:	

Lab Use Only: Lab WO# E 403127 | Job Number 01058-0007

TAT: 1D X | 2D | 3D | Standard

EPA Program: CWA | SDWA | RCRA

State: NM X | CO | UT | AZ | TX

Analysis and Method

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
10:11	3/13	S		CS5- 1'	11									X				
10:29	"	"		CS5-2'	12									"				
10:33	"	"		CS5-3'	13									"				
10:45	"	"		CS5-4'	14									"				
10:56	"	"		CS5-5'	15									"				
11:17	"	"		CS5-6'	16									"				
11:26	"	"		CS5-7'	17									"				
11:35	"	"		CS5-8'	18									"				
11:48	"	"		CS5-9'	19									"				
11:56	"	"		CS5-10'	20									"				

Additional Instructions: Billing # 21164261

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

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

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Karime Hamce	3.13.24	302	Michelle Cuyler	3-13-24	1502
Michelle Cuyler	3.13.24	1530	L.M.	3.13.24	1700
L.M.	3.13.24	2300	Leyleigh R Hall	3-14-24	0750

Lab Use Only: Received on ice: (Y) / N

T1 T2 T3

AVG Temp °C 4

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

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

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

envirotech

Envirotech Analytical Laboratory

Printed: 3/14/2024 12:13:37PM

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:	03/14/24 07:30	Work Order ID:	E403127
Phone:	(575) 631-6977	Date Logged In:	03/13/24 17:10	Logged In By:	Alexa Michaels
Email:	tom@pimaoil.com	Due Date:	03/14/24 17:00 (0 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: Courier
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	No	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

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

Comments/Resolution

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

Client Instruction

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

Date

envirotech Inc.

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

May 9th, 2023

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

Need BLM

Re: Site Assessment, Remediation, and Closure Report
Cotton Draw Unit 171H
API No. 30-015-42503
GPS: Latitude 32.1526200 Longitude -103.7320907
UL -- N, Sec. 1, T25S, R31E
Eddy County, NM
NMOCD Ref. No. NAB1508251701

Pima Environmental Services, LLC. (Pima) has been contracted by Devon Energy Production Company, LP (Devon) to perform a spill assessment, remediation activities, and submit this closure report for a crude oil and produced water release that occurred at the Cotton Draw Unit 171H (CDU 171H). The initial C-141 was submitted on March 23rd, 2015 (Appendix C). This incident was assigned Incident ID nAB1508251701 by the New Mexico Oil Conservation Division (NMOCD).

Site Characterization

CDU 171H is located approximately twenty-one (21) miles southeast of Malaga, NM. This spill site is in Unit N, Section 1, Township 25S, Range 31E, Latitude 32.1526200 Longitude -103.7320907, Eddy County, NM. Figure 1 references a Location Map.

Per the New Mexico Bureau of Geology and Mineral Resources, the geology is in the eolian and piedmont deposits (Holocene to middle Pleistocene). The soil in this area is made up of Berino Complex, 0 to 3 percent slopes, eroded according to the United States Department of Agriculture Natural Resources Conservation Service soil survey (Appendix B). The drainage courses in this area are well-drained. There is a low potential for karst geology to be present in the area of the CDU 171H (Figure 3).

According to the New Mexico Office of the State Engineer, depth to the nearest groundwater in this area is 135 feet below grade surface (BGS). According to the United States Geological Survey (USGS), the nearest groundwater is greater than 390.27 feet BGS. The closest waterway is the Red Bluff Reservoir, located approximately 16.92 miles to the southwest of this location. See Appendix A for referenced water surveys.

Table 1 NMAC and Closure Criteria 19.15.29					
Depth to Groundwater (Appendix A)	Constituent & Limits				
	Chlorides	Total TPH	GRO+DRO	BTEX	Benzene
<50’	600 mg/kg	100 mg/kg		50 mg/kg	10 mg/kg
51-100’	10,000 mg/kg	2,500 mg/kg	1,000 mg/kg	50 mg/kg	10 mg/kg
>100’	20,000 mg/kg	2,500 mg/kg	1,000 mg/kg	50 mg/kg	10 mg/kg

Reference Figure 2 for a Topographic Map.

Release Information

NAB1508251701: On March 19th, 2019, Devon personnel failed to equalize a frac tank which resulted in an overflow of a mix of 52 barrels of produced water and 1 barrel of crude oil. Devon personnel opened the equalizing line and stopped the overflow. The

released covered approximately 5400 square feet on the well pad. All released fluid remained on pad. The fluid released flowed in a southeastern direction from the point of origin on the northwest side of the well pad. A vac truck recovered 43 BBLS of produced water and 1 BBL of oil.

Remediation Activities, Site Assessment, and Soil Sampling Results

On July 8th, 2020, an initial work plan was submitted by HRL. The work plan was rejected due to lack of vertical and horizontal delineation, along with the use of field screening results as concrete proof of delineation. Thus, Pima Environmental will re assess the area to determine the current contamination levels. The previously submitted workplan can be found on the OCD incident page.

On January 16th, 2023, Pima Environmental mobilized personnel to assess the impacted area. Pima sampled the area overlapping the release. Pima collected a total of twenty-one soil samples for laboratory analysis. Five bottom samples (S1-S5) were collected at depths of 1, 2 and 4 feet to determine vertical delineation. Additionally, side wall samples (SW1-SW4) were collected at a depth of 6 inches to determine horizontal delineation. Two background samples (BG1 & BG2) were collected to determine natural occurring levels of chlorides located at the CDU 171. An initial site map can be found in Figure 4.

1-16-2023 Soil Sample Results

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is 51-100')								
DEVON ENERGY - COTTON DRAW 171H								
Sample Date: 1/16/2023		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	537
	2'	ND	ND	ND	ND	ND	0	177
	3'	ND	ND	ND	ND	ND	0	ND
S-2	1'	ND	ND	ND	ND	ND	0	296
	2'	ND	ND	ND	ND	ND	0	177
	3'	ND	ND	ND	ND	ND	0	ND
S-3	1'	ND	ND	ND	ND	ND	0	74.5
	2'	ND	ND	ND	ND	ND	0	185
	3'	ND	ND	ND	ND	ND	0	ND
S-4	1'	ND	ND	ND	ND	ND	0	606
	2'	ND	ND	ND	ND	ND	0	181
	3'	ND	ND	ND	ND	ND	0	ND
S-5	1'	ND	ND	ND	ND	ND	0	406
	2'	ND	ND	ND	ND	ND	0	174
	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
BG 2	6"	ND	ND	ND	ND	ND	0	ND

ND: Analyte Non-Detect

Based on the sample results, the bottoms and sidewalls are below NMOCD Closure Criteria 19.15.29 NMAC. See Appendix D for Photographic Documentation.

Closure Request

Due to analytical levels falling below NMOCD closure criteria, no further action is required.

After careful review, Pima requests that this incident, NAB1508251701, be closed. Devon has complied with the applicable closure requirements set forth in rule 19.15.19.12 NMAC.

Should you have any questions or need additional information, please feel free to contact Sebastian Orozco at 619-721-4813 or Sebastian@pimaoil.com.

Respectfully,

Sebastian Orozco

Sebastian Orozco
Environmental Professional
Pima Environment Services, LLC

Attachments

Figures:
1- Location Map
2- Topographic Map
3- Karst Map
4- Initial Site Map

Appendices:
Appendix A – Referenced Water Surveys
Appendix B – Soil Survey and Geological Data
Appendix C – C-141 Form
Appendix D – Photographic Documentation
Appendix E – Laboratory Reports

Pima Environmental Services

Figures:

1-Location Map

2-Topographic Map

3-Karst Map

4-Site Map

Cotton Draw Unit 171H

Devon Energy
API: 30-015-42503
Eddy County, NM
Location Map

Legend

Cotton Draw Unit 171H

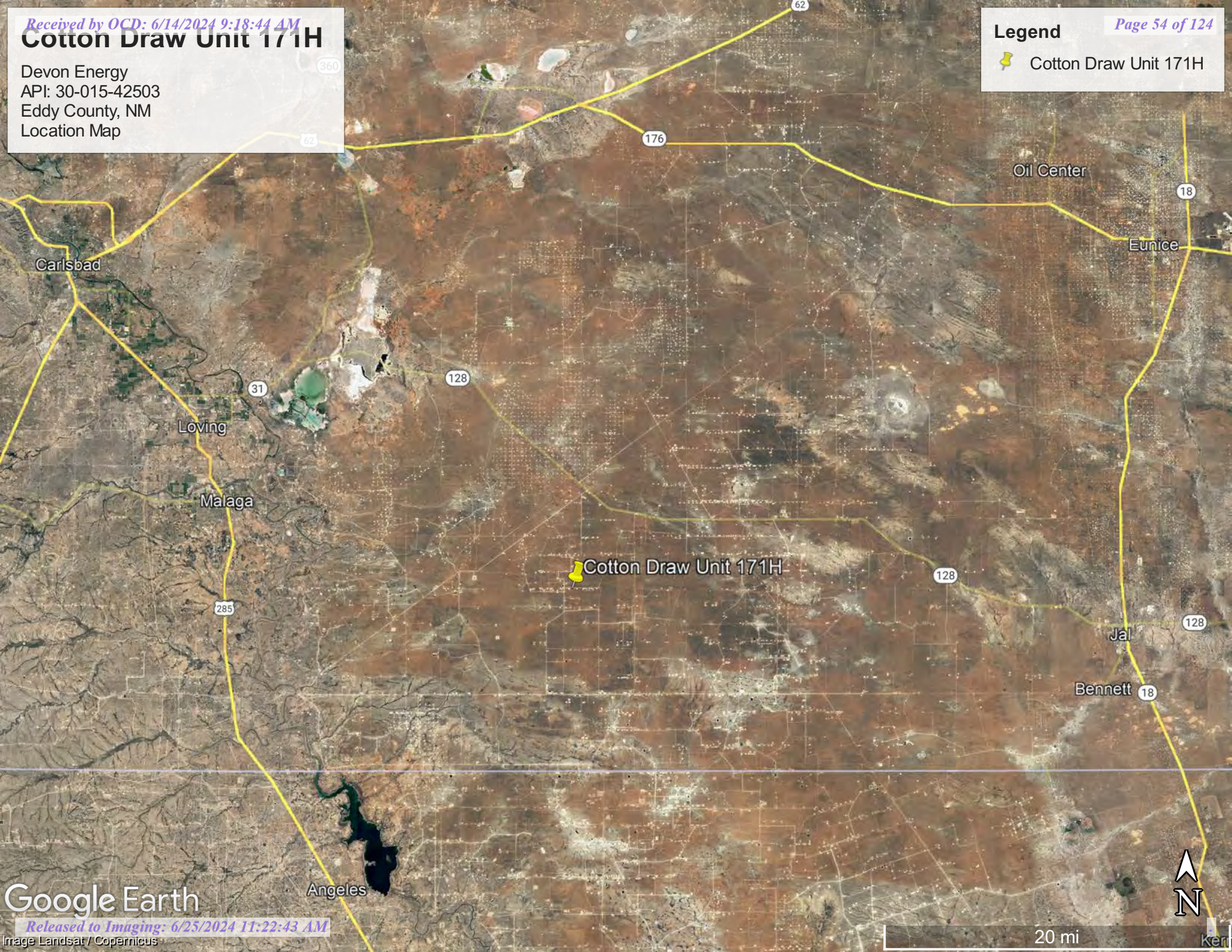
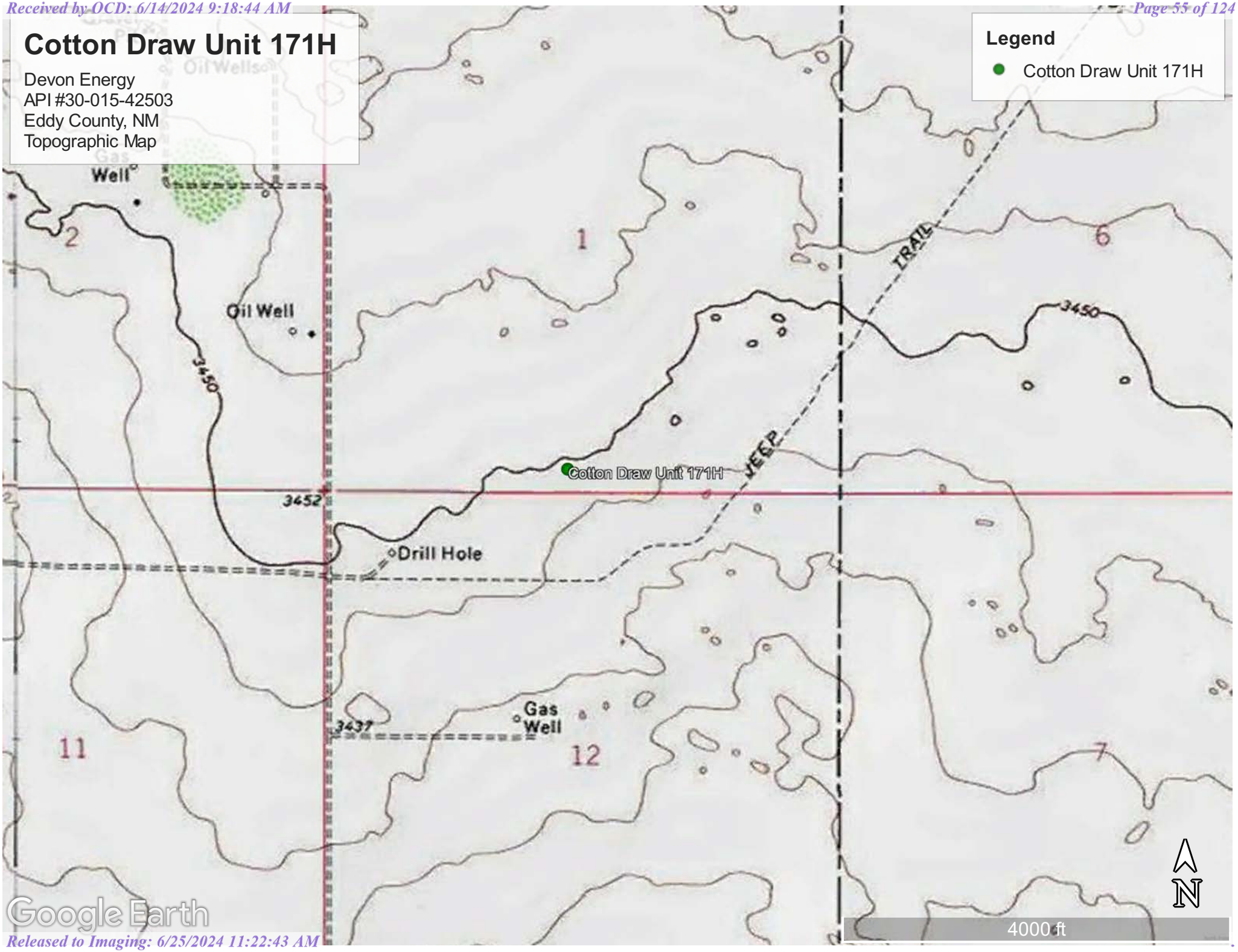


Image Landsat / Copernicus

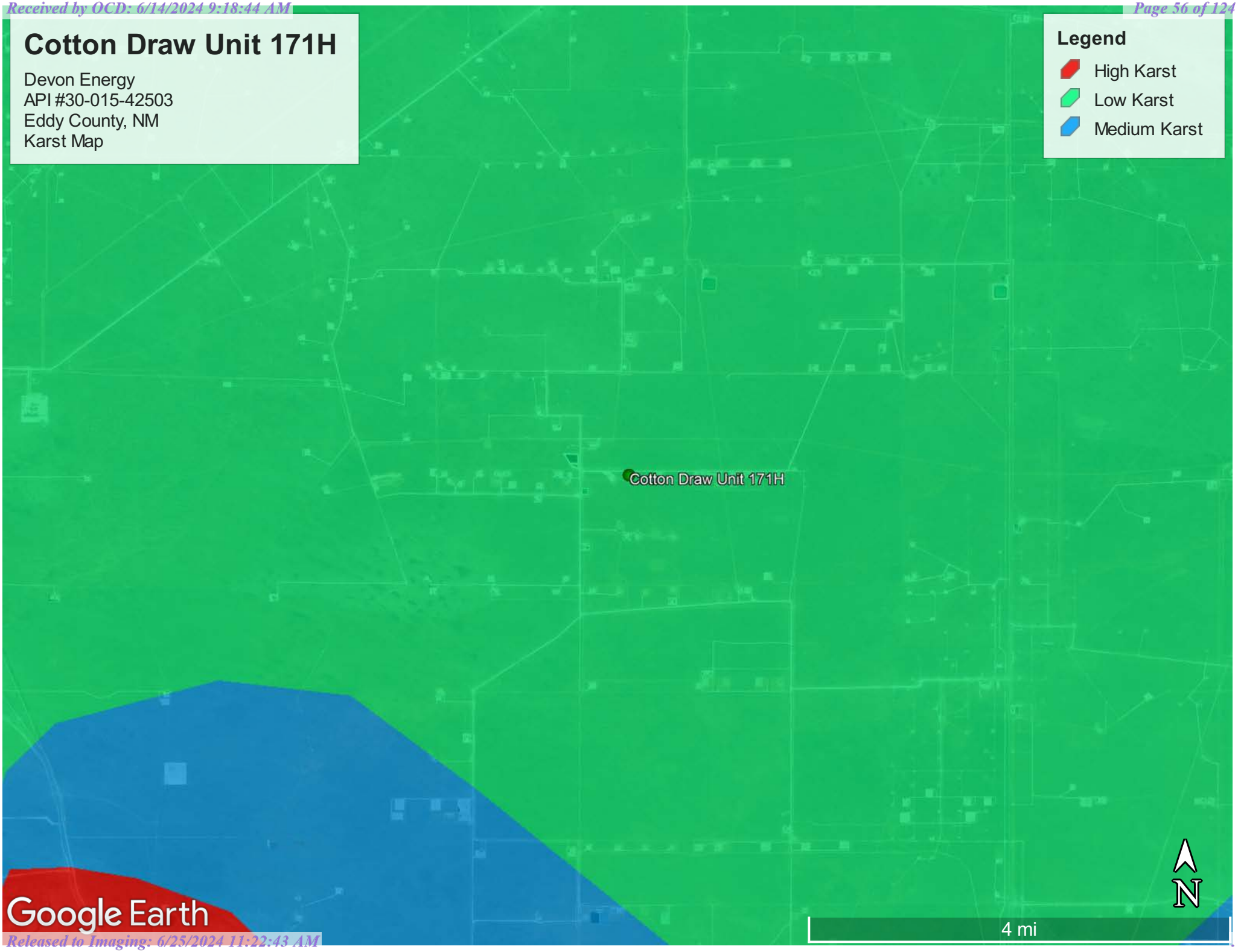
Cotton Draw Unit 171H

Devon Energy
API #30-015-42503
Eddy County, NM
Topographic Map



Cotton Draw Unit 171H

Devon Energy
API #30-015-42503
Eddy County, NM
Karst Map

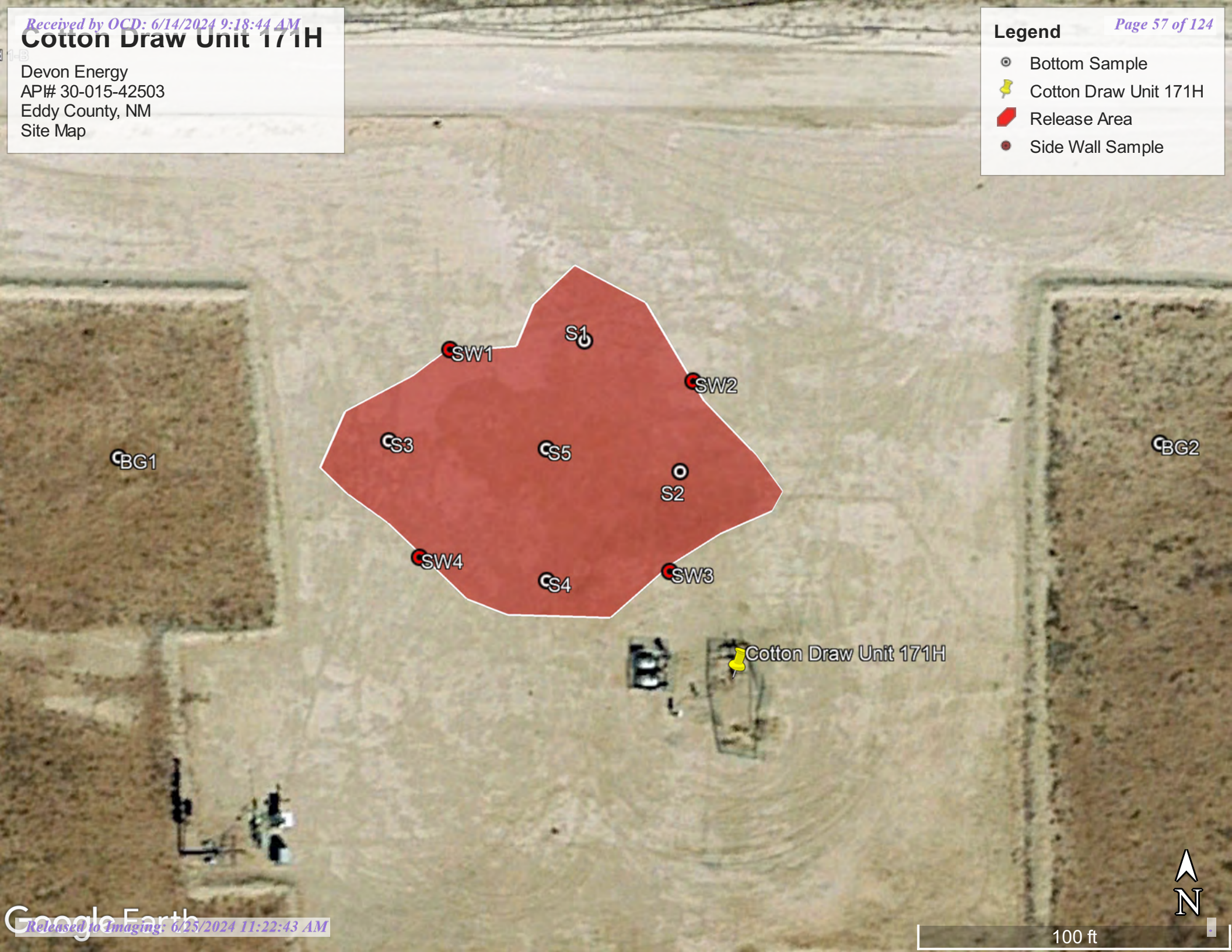


Cotton Draw Unit 171H

Devon Energy
API# 30-015-42503
Eddy County, NM
Site Map

Legend

- Bottom Sample
- Cotton Draw Unit 171H
- Release Area
- Side Wall Sample



Pima Environmental Services

Appendix A

Water Surveys:

OSE

USGS

Surface Water Map

New Mexico Office of the State Engineer
Water Column/Average Depth to Water

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

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

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters) (In feet)

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Twn	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
C 04635 POD1		CUB	ED	4	3	4	01	25S	31E	619958	3558078	391	55		
C 02568		CUB	ED	4	3	1	01	25S	31E	619103	3558892*	956	1025		
C 02570		CUB	ED	4	2	4	02	25S	31E	618704	3558489*	965	895		
C 03830 POD1		CUB	ED	4	2	4	02	25S	31E	618632	3558432	1007	450		
C 02569		CUB	ED	4	4	2	02	25S	31E	618699	3558891*	1204	1016		
C 02573		CUB	ED	1	4	2	02	25S	31E	618499	3559091*	1487			
C 02572		CUB	ED	4	2	2	02	25S	31E	618695	3559294*	1514	852		
C 02571		CUB	ED	4	1	2	02	25S	31E	618292	3559294*	1777	860		
C 04620 POD1		CUB	LE	4	3	4	06	25S	32E	621445	3558018	1878	55		
C 02574		CUB	ED	1	1	2	02	25S	31E	618092	3559494*	2059			
C 04632 POD1		CUB	ED	1	2	2	10	25S	31E	616802	3557964	2766	55		
C 04593 POD1		CUB	ED	3	4	4	34	24S	31E	616903	3559674	3117	55		
C 04654 POD1		CUB	ED	3	3	4	25	24S	31E	619764	3561226	3176	55		
C 04636 POD1		CUB	ED	3	4	3	25	24S	31E	619200	3561279	3244			
C 04643 POD1		C	ED	4	2	2	05	23S	27E	619200	3561279	3244	305	135	170
C 04618 POD1		CUB	LE	3	4	3	18	25S	32E	621041	3554886	3495	55		
C 04633 POD1		CUB	ED	2	1	1	35	24S	31E	617394	3561170	3796			

Average Depth to Water: **135 feet**
Minimum Depth: **135 feet**
Maximum Depth: **135 feet**

Record Count: 17

UTMNAD83 Radius Search (in meters):

Easting (X): 619567.14 **Northing (Y):** 3558056.2 **Radius:** 5000

***UTM location was derived from PLSS - see Help**

New Mexico Office of the State Engineer
Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
NA	C 04635 POD1	4	3	4	01	25S	31E	619958	3558078

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

Driller Name: JACKIE D ATKINS

Drill Start Date: 06/08/2022 **Drill Finish Date:** 06/08/2022 **Plug Date:** 06/14/2022

Log File Date: 06/16/2022 **PCW Rcv Date:** **Source:**

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

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

National Water Information System: Web Interface

USGS Water Resources

Data Category: Groundwater | Geographic Area: United States | GO

Click to hideNews Bulletins

- See the Water Data for the Nation Blog for the latest news and updates.

Groundwater levels for the Nation

Important: Next Generation Monitoring Location Page

Search Results -- 1 sites found

site_no list =

- 320932103443801

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

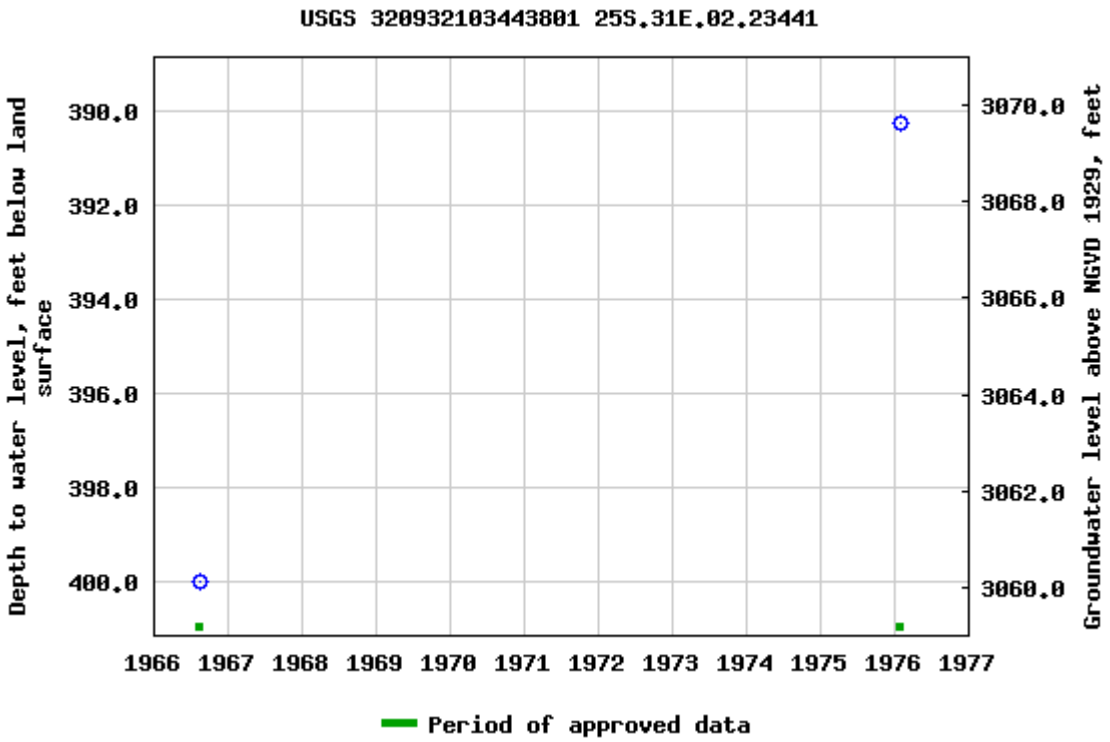
USGS 320932103443801 25S.31E.02.23441

Available data for this site | Groundwater: Field measurements | GO

Eddy County, New Mexico
Hydrologic Unit Code 13070001
Latitude 32°09'37.4", Longitude 103°44'29.6" NAD83
Land-surface elevation 3,460.00 feet above NGVD29
The depth of the well is 1,016 feet below land surface.
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Rustler Formation (312RSLR) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period



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

Questions about sites/data?
Feedback on this web site
Automated retrievals
Help
Data Tips
Explanation of terms
Subscribe for system changes
News

Title: Groundwater for USA: Water Levels
URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: USGS Water Data Support Team
Page Last Modified: 2023-01-04 12:26:22 EST
0.57 0.49 nadww01

Pima Environmental Services

Appendix B

Soil Survey & Geological Data

FEMA Flood Map

Wetlands Map

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

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

Description of Pajarito

Setting

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

Typical profile

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

Properties and qualities

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

Interpretive groups

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

Minor Components

Pajarito

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

Wink

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

Cacique

Percent of map unit: 4 percent

Ecological site: R070BD004NM - Sandy
Hydric soil rating: No

Kermit

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

Data Source Information

Soil Survey Area: Eddy Area, New Mexico
Survey Area Data: Version 18, Sep 8, 2022

National Flood Hazard Layer FIRMette

FEMA

103°44'14"W 32°9'24"N

103°43'37"W 32°8'54"N

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

1:6,000

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

Legend

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

SPECIAL FLOOD HAZARD AREAS
- Without Base Flood Elevation (BFE) *Zone A, V, A99*
- With BFE or Depth *Zone AE, AO, AH, VE, AR*
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD
- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile *Zone X*
- Future Conditions 1% Annual Chance Flood Hazard *Zone X*
- Area with Reduced Flood Risk due to Levee. See Notes. *Zone X*
- Area with Flood Risk due to Levee *Zone D*

OTHER AREAS
- NO SCREEN Area of Minimal Flood Hazard *Zone X*
- Effective LOMRs
- Area of Undetermined Flood Hazard *Zone D*

GENERAL STRUCTURES
- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

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

MAP PANELS
- Digital Data Available
- No Digital Data Available
- Unmapped

N

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 1/4/2023 at 12:32 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.

U.S. Fish and Wildlife Service
National Wetlands Inventory

Wetlands Map

January 4, 2023

Wetlands

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

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

National Wetlands Inventory (NWI)
This page was produced by the NWI mapper

Pima Environmental Services

Appendix C

C-141 Form

48-Hour Notification

NM OIL CONSERVATION
ARTESIA DISTRICT
MAR 23 2015
RECEIVED

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

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

Form C-141
Revised August 8, 2011

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

nAB1508251701

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company Devon Energy Production Company 6137	**Contact** Joah Weidemann; Production Foreman
Address 6488 Seven Rivers Hwy Artesia, NM 88210	**Telephone No.** 575-513-1528
Facility Name Cotton Draw Unit 171H	**Facility Type** Oil Well

Surface Owner Federal	**Mineral Owner** Federal	**API No** 30-015-42503

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
N	1	25S	31E	200	South	2480	West	Eddy

Latitude: 32.1526200 N **Longitude:** 103.7320907 W

NATURE OF RELEASE

Type of Release Oil & Produced Water Spill	**Volume of Release** 52 BBLS produced water & 1 BBL oil	**Volume Recovered** 43 BBLS produced water and 1 BBL oil
Source of Release Frac tank overflow	**Date and Hour of Occurrence** March 19, 2015 6:20 AM	**Date and Hour of Discovery** March 19, 2015 6:20 AM
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	**If YES, To Whom?** Jeff Robertson; BLM & Mike Bratcher; OCD	
By Whom? David Washington; Assistant Production Foreman	**Date and Hour both on** March 19, 2015 @ 6:30 PM	
Was a Watercourse Reached? ☐ Yes ☒ No	**If YES, Volume Impacting the Watercourse** N/A	

If a Watercourse was Impacted, Describe Fully.*
N/A

Describe Cause of Problem and Remedial Action Taken.*
Failure to equalize frac tanks resulted in an overflow of a mix of 52 BBLS produced water and 1 BBL oil. Opening the equalizing line stopped the overflow.

Describe Area Affected and Cleanup Action Taken.*
The released fluid; a mix of 52 BBLS produced water and 1 BBL oil covered approximately 5400 square feet on the well pad. All released fluid remained on pad. The fluid released flowed in a southeastern direction from the point of origin on the northwest side of the well pad. A vac truck recovered 43 BBLS of produced water and 1 BBL of oil.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.

Signature: Sandy Farley	OIL CONSERVATION DIVISION
Printed Name: Sandra Farley	Signed By Mike Bratcher Approved by Environmental Specialist:
Title: **Field Admin Support**	Approval Date: 3/23/15 Expiration Date: N/A
E-mail Address: **sandy.farley@dvn.com**	Conditions of Approval: Attached ☐
Date: 3/20/15 Phone: **575.746.5587**	**Remediation per O.C.D. Rules & Guidelines** **SUBMIT REMEDIATION PROPOSAL NO LATER THAN: 4/23/15**

* Attach Additional Sheets If Necessary

2RP-2907

State of New Mexico
Oil Conservation Division

Incident ID	NAB1508251701
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	51-100' (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas **not** on an exploration, development, production, or storage site?	☐ Yes ☒ No

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

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

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

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

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

Incident ID	NAB1508251701
District RP	
Facility ID	
Application ID	

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

Printed Name: Dale Woodall Title: Environmental Professional

Signature: _____ Date: _____

email: dale.woodall@dvn.com Telephone: 575-748-1839

OCD Only

Received by: _____ Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	NAB1508251701
District RP	
Facility ID	
Application ID	

Closure

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

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

[x] A scaled site and sampling diagram as described in 19.15.29.11 NMAC

[x] Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

[x] Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

[x] Description of remediation activities

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

Printed Name: Dale Woodall Title: Environmental Professional

Signature: _____ Date: _____

email: dale.woodall@dvn.com Telephone: 575-748-1839

OCD Only

Received by: _____ Date: _____

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

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

Pima Environmental Services

Appendix D

Photographic Documentation

SITE PHOTOGRAPHS
DEVON ENERGY
COTTON DRAW UNIT 171H

Site Assessment


32.15264609N 103.73216554W
cotton draw unit 171H
Assessment
Devon

Pima Environmental Services

Appendix E

Laboratory Reports

Report to:

Tom Bynum

5796 U.S. Hwy 64
Farmington, NM 87401

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

envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Pima Environmental Services-Carlsbad

Project Name:	Cotton Draw Unit 171H
Work Order:	E301094
Job Number:	01058-0007
Received:	1/17/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
1/23/23

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

Date Reported: 1/23/23

Tom Bynum
PO Box 247
Plains, TX 79355-0247

Project Name: Cotton Draw Unit 171H
Workorder: E301094
Date Received: 1/17/2023 9:30:00AM

Tom Bynum,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 1/17/2023 9:30:00AM, under the Project Name: Cotton Draw Unit 171H.

The analytical test results summarized in this report with the Project Name: Cotton Draw Unit 171H 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 reguarding 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
ljarboe@envirotech-inc.com

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

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

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Sample Summary

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 171H	**Reported:**
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	01/23/23 08:43

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
S1 - 1'	E301094-01A	Soil	01/16/23	01/17/23	Glass Jar, 2 oz.
S1 - 2'	E301094-02A	Soil	01/16/23	01/17/23	Glass Jar, 2 oz.
S1 - 3'	E301094-03A	Soil	01/16/23	01/17/23	Glass Jar, 2 oz.
S2 - 1'	E301094-04A	Soil	01/16/23	01/17/23	Glass Jar, 2 oz.
S2 - 2'	E301094-05A	Soil	01/16/23	01/17/23	Glass Jar, 2 oz.
S2 - 3'	E301094-06A	Soil	01/16/23	01/17/23	Glass Jar, 2 oz.
S3 - 1'	E301094-07A	Soil	01/16/23	01/17/23	Glass Jar, 2 oz.
S3 - 2'	E301094-08A	Soil	01/16/23	01/17/23	Glass Jar, 2 oz.
S3 - 3'	E301094-09A	Soil	01/16/23	01/17/23	Glass Jar, 2 oz.
S4 - 1'	E301094-10A	Soil	01/16/23	01/17/23	Glass Jar, 2 oz.
S4 - 2'	E301094-11A	Soil	01/16/23	01/17/23	Glass Jar, 2 oz.
S4 - 3'	E301094-12A	Soil	01/16/23	01/17/23	Glass Jar, 2 oz.
S5 - 1'	E301094-13A	Soil	01/16/23	01/17/23	Glass Jar, 2 oz.
S5 - 2'	E301094-14A	Soil	01/16/23	01/17/23	Glass Jar, 2 oz.
S5 - 3'	E301094-15A	Soil	01/16/23	01/17/23	Glass Jar, 2 oz.
SW1	E301094-16A	Soil	01/16/23	01/17/23	Glass Jar, 2 oz.
SW2	E301094-17A	Soil	01/16/23	01/17/23	Glass Jar, 2 oz.
SW3	E301094-18A	Soil	01/16/23	01/17/23	Glass Jar, 2 oz.
SW4	E301094-19A	Soil	01/16/23	01/17/23	Glass Jar, 2 oz.
BG1	E301094-20A	Soil	01/16/23	01/17/23	Glass Jar, 2 oz.
BG2	E301094-21A	Soil	01/16/23	01/17/23	Glass Jar, 2 oz.

Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 171H	
PO Box 247	Project Number:	01058-0007	**Reported:**
Plains TX, 79355-0247	Project Manager:	Tom Bynum	1/23/2023 8:43:15AM

S1 - 1'

E301094-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2303040
Benzene	ND	0.0250	1	01/17/23	01/20/23	
Ethylbenzene	ND	0.0250	1	01/17/23	01/20/23	
Toluene	ND	0.0250	1	01/17/23	01/20/23	
o-Xylene	ND	0.0250	1	01/17/23	01/20/23	
p,m-Xylene	ND	0.0500	1	01/17/23	01/20/23	
Total Xylenes	ND	0.0250	1	01/17/23	01/20/23	
Surrogate: 4-Bromochlorobenzene-PID		*96.6 %*	*70-130*	*01/17/23*	*01/20/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2303040
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/17/23	01/20/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*93.9 %*	*70-130*	*01/17/23*	*01/20/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2303049
Diesel Range Organics (C10-C28)	ND	25.0	1	01/18/23	01/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/18/23	01/19/23	
Surrogate: n-Nonane		*94.4 %*	*50-200*	*01/18/23*	*01/19/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: KL			Batch: 2303052
Chloride	**537**	40.0	2	01/18/23	01/19/23	

Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 171H	
PO Box 247	Project Number:	01058-0007	**Reported:**
Plains TX, 79355-0247	Project Manager:	Tom Bynum	1/23/2023 8:43:15AM

S1 - 2'

E301094-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2303040
Benzene	ND	0.0250	1	01/17/23	01/20/23	
Ethylbenzene	ND	0.0250	1	01/17/23	01/20/23	
Toluene	ND	0.0250	1	01/17/23	01/20/23	
o-Xylene	ND	0.0250	1	01/17/23	01/20/23	
p,m-Xylene	ND	0.0500	1	01/17/23	01/20/23	
Total Xylenes	ND	0.0250	1	01/17/23	01/20/23	
Surrogate: 4-Bromochlorobenzene-PID		*99.5 %*	*70-130*	*01/17/23*	*01/20/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2303040
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/17/23	01/20/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*93.0 %*	*70-130*	*01/17/23*	*01/20/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2303049
Diesel Range Organics (C10-C28)	ND	25.0	1	01/18/23	01/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/18/23	01/19/23	
Surrogate: n-Nonane		*94.5 %*	*50-200*	*01/18/23*	*01/19/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: KL			Batch: 2303052
Chloride	**177**	20.0	1	01/18/23	01/19/23	

Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 171H	
PO Box 247	Project Number:	01058-0007	**Reported:**
Plains TX, 79355-0247	Project Manager:	Tom Bynum	1/23/2023 8:43:15AM

S1 - 3'

E301094-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2303040
Benzene	ND	0.0250	1	01/17/23	01/20/23	
Ethylbenzene	ND	0.0250	1	01/17/23	01/20/23	
Toluene	ND	0.0250	1	01/17/23	01/20/23	
o-Xylene	ND	0.0250	1	01/17/23	01/20/23	
p,m-Xylene	ND	0.0500	1	01/17/23	01/20/23	
Total Xylenes	ND	0.0250	1	01/17/23	01/20/23	
Surrogate: 4-Bromochlorobenzene-PID		*98.7 %*	*70-130*	*01/17/23*	*01/20/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2303040
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/17/23	01/20/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*93.2 %*	*70-130*	*01/17/23*	*01/20/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2303049
Diesel Range Organics (C10-C28)	ND	25.0	1	01/18/23	01/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/18/23	01/19/23	
Surrogate: n-Nonane		*98.8 %*	*50-200*	*01/18/23*	*01/19/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: KL			Batch: 2303052
Chloride	ND	20.0	1	01/18/23	01/19/23	

Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 171H	
PO Box 247	Project Number:	01058-0007	**Reported:**
Plains TX, 79355-0247	Project Manager:	Tom Bynum	1/23/2023 8:43:15AM

S2 - 1'

E301094-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2303040
Benzene	ND	0.0250	1	01/17/23	01/20/23	
Ethylbenzene	ND	0.0250	1	01/17/23	01/20/23	
Toluene	ND	0.0250	1	01/17/23	01/20/23	
o-Xylene	ND	0.0250	1	01/17/23	01/20/23	
p,m-Xylene	ND	0.0500	1	01/17/23	01/20/23	
Total Xylenes	ND	0.0250	1	01/17/23	01/20/23	
Surrogate: 4-Bromochlorobenzene-PID		*97.0 %*	*70-130*	*01/17/23*	*01/20/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2303040
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/17/23	01/20/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*89.9 %*	*70-130*	*01/17/23*	*01/20/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2303049
Diesel Range Organics (C10-C28)	ND	25.0	1	01/18/23	01/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/18/23	01/19/23	
Surrogate: n-Nonane		*99.0 %*	*50-200*	*01/18/23*	*01/19/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: KL			Batch: 2303052
Chloride	**296**	20.0	1	01/18/23	01/19/23	

Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 171H	
PO Box 247	Project Number:	01058-0007	**Reported:**
Plains TX, 79355-0247	Project Manager:	Tom Bynum	1/23/2023 8:43:15AM

S2 - 2'

E301094-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2303040
Benzene	ND	0.0250	1	01/17/23	01/20/23	
Ethylbenzene	ND	0.0250	1	01/17/23	01/20/23	
Toluene	ND	0.0250	1	01/17/23	01/20/23	
o-Xylene	ND	0.0250	1	01/17/23	01/20/23	
p,m-Xylene	ND	0.0500	1	01/17/23	01/20/23	
Total Xylenes	ND	0.0250	1	01/17/23	01/20/23	
Surrogate: 4-Bromochlorobenzene-PID		*101 %*	*70-130*	*01/17/23*	*01/20/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2303040
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/17/23	01/20/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*93.3 %*	*70-130*	*01/17/23*	*01/20/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2303049
Diesel Range Organics (C10-C28)	ND	25.0	1	01/18/23	01/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/18/23	01/19/23	
Surrogate: n-Nonane		*100 %*	*50-200*	*01/18/23*	*01/19/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: KL			Batch: 2303052
Chloride	**177**	20.0	1	01/18/23	01/19/23	

Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 171H	
PO Box 247	Project Number:	01058-0007	**Reported:**
Plains TX, 79355-0247	Project Manager:	Tom Bynum	1/23/2023 8:43:15AM

S2 - 3'

E301094-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2303040
Benzene	ND	0.0250	1	01/17/23	01/20/23	
Ethylbenzene	ND	0.0250	1	01/17/23	01/20/23	
Toluene	ND	0.0250	1	01/17/23	01/20/23	
o-Xylene	ND	0.0250	1	01/17/23	01/20/23	
p,m-Xylene	ND	0.0500	1	01/17/23	01/20/23	
Total Xylenes	ND	0.0250	1	01/17/23	01/20/23	
Surrogate: 4-Bromochlorobenzene-PID		*97.7 %*	*70-130*	*01/17/23*	*01/20/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2303040
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/17/23	01/20/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.9 %*	*70-130*	*01/17/23*	*01/20/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2303049
Diesel Range Organics (C10-C28)	ND	25.0	1	01/18/23	01/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/18/23	01/19/23	
Surrogate: n-Nonane		*96.9 %*	*50-200*	*01/18/23*	*01/19/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: KL			Batch: 2303052
Chloride	ND	20.0	1	01/18/23	01/19/23	

Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 171H	
PO Box 247	Project Number:	01058-0007	**Reported:**
Plains TX, 79355-0247	Project Manager:	Tom Bynum	1/23/2023 8:43:15AM

S3 - 1'

E301094-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2303040
Benzene	ND	0.0250	1	01/17/23	01/20/23	
Ethylbenzene	ND	0.0250	1	01/17/23	01/20/23	
Toluene	ND	0.0250	1	01/17/23	01/20/23	
o-Xylene	ND	0.0250	1	01/17/23	01/20/23	
p,m-Xylene	ND	0.0500	1	01/17/23	01/20/23	
Total Xylenes	ND	0.0250	1	01/17/23	01/20/23	
Surrogate: 4-Bromochlorobenzene-PID		*96.6 %*	*70-130*	*01/17/23*	*01/20/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2303040
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/17/23	01/20/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*94.9 %*	*70-130*	*01/17/23*	*01/20/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2303049
Diesel Range Organics (C10-C28)	ND	25.0	1	01/18/23	01/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/18/23	01/19/23	
Surrogate: n-Nonane		*99.2 %*	*50-200*	*01/18/23*	*01/19/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: KL			Batch: 2303052
Chloride	**74.5**	20.0	1	01/18/23	01/19/23	

Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 171H	
PO Box 247	Project Number:	01058-0007	**Reported:**
Plains TX, 79355-0247	Project Manager:	Tom Bynum	1/23/2023 8:43:15AM

S3 - 2'

E301094-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2303040
Benzene	ND	0.0250	1	01/17/23	01/20/23	
Ethylbenzene	ND	0.0250	1	01/17/23	01/20/23	
Toluene	ND	0.0250	1	01/17/23	01/20/23	
o-Xylene	ND	0.0250	1	01/17/23	01/20/23	
p,m-Xylene	ND	0.0500	1	01/17/23	01/20/23	
Total Xylenes	ND	0.0250	1	01/17/23	01/20/23	
Surrogate: 4-Bromochlorobenzene-PID		*99.6 %*	*70-130*	*01/17/23*	*01/20/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2303040
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/17/23	01/20/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*93.0 %*	*70-130*	*01/17/23*	*01/20/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2303049
Diesel Range Organics (C10-C28)	ND	25.0	1	01/18/23	01/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/18/23	01/19/23	
Surrogate: n-Nonane		*98.9 %*	*50-200*	*01/18/23*	*01/19/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: KL			Batch: 2303052
Chloride	**185**	20.0	1	01/18/23	01/19/23	

Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 171H	
PO Box 247	Project Number:	01058-0007	**Reported:**
Plains TX, 79355-0247	Project Manager:	Tom Bynum	1/23/2023 8:43:15AM

S3 - 3'

E301094-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2303040
Benzene	ND	0.0250	1	01/17/23	01/20/23	
Ethylbenzene	ND	0.0250	1	01/17/23	01/20/23	
Toluene	ND	0.0250	1	01/17/23	01/20/23	
o-Xylene	ND	0.0250	1	01/17/23	01/20/23	
p,m-Xylene	ND	0.0500	1	01/17/23	01/20/23	
Total Xylenes	ND	0.0250	1	01/17/23	01/20/23	
Surrogate: 4-Bromochlorobenzene-PID		*101 %*	*70-130*	*01/17/23*	*01/20/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2303040
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/17/23	01/20/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*94.7 %*	*70-130*	*01/17/23*	*01/20/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2303049
Diesel Range Organics (C10-C28)	ND	25.0	1	01/18/23	01/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/18/23	01/19/23	
Surrogate: n-Nonane		*95.8 %*	*50-200*	*01/18/23*	*01/19/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: KL			Batch: 2303052
Chloride	ND	20.0	1	01/18/23	01/19/23	

Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 171H	
PO Box 247	Project Number:	01058-0007	**Reported:**
Plains TX, 79355-0247	Project Manager:	Tom Bynum	1/23/2023 8:43:15AM

S4 - 1'

E301094-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2303040
Benzene	ND	0.0250	1	01/17/23	01/20/23	
Ethylbenzene	ND	0.0250	1	01/17/23	01/20/23	
Toluene	ND	0.0250	1	01/17/23	01/20/23	
o-Xylene	ND	0.0250	1	01/17/23	01/20/23	
p,m-Xylene	ND	0.0500	1	01/17/23	01/20/23	
Total Xylenes	ND	0.0250	1	01/17/23	01/20/23	
Surrogate: 4-Bromochlorobenzene-PID		*97.6 %*	*70-130*	*01/17/23*	*01/20/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2303040
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/17/23	01/20/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*94.3 %*	*70-130*	*01/17/23*	*01/20/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2303049
Diesel Range Organics (C10-C28)	ND	25.0	1	01/18/23	01/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/18/23	01/19/23	
Surrogate: n-Nonane		*95.9 %*	*50-200*	*01/18/23*	*01/19/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: KL			Batch: 2303052
Chloride	**606**	20.0	1	01/18/23	01/19/23	

Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 171H	
PO Box 247	Project Number:	01058-0007	**Reported:**
Plains TX, 79355-0247	Project Manager:	Tom Bynum	1/23/2023 8:43:15AM

S4 - 2'

E301094-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2303040
Benzene	ND	0.0250	1	01/17/23	01/20/23	
Ethylbenzene	ND	0.0250	1	01/17/23	01/20/23	
Toluene	ND	0.0250	1	01/17/23	01/20/23	
o-Xylene	ND	0.0250	1	01/17/23	01/20/23	
p,m-Xylene	ND	0.0500	1	01/17/23	01/20/23	
Total Xylenes	ND	0.0250	1	01/17/23	01/20/23	
Surrogate: 4-Bromochlorobenzene-PID		*98.8 %*	*70-130*	*01/17/23*	*01/20/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2303040
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/17/23	01/20/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*88.8 %*	*70-130*	*01/17/23*	*01/20/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2303049
Diesel Range Organics (C10-C28)	ND	25.0	1	01/18/23	01/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/18/23	01/19/23	
Surrogate: n-Nonane		*101 %*	*50-200*	*01/18/23*	*01/19/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: KL			Batch: 2303052
Chloride	**181**	20.0	1	01/18/23	01/19/23	

Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 171H	
PO Box 247	Project Number:	01058-0007	**Reported:**
Plains TX, 79355-0247	Project Manager:	Tom Bynum	1/23/2023 8:43:15AM

S4 - 3'

E301094-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2303040
Benzene	ND	0.0250	1	01/17/23	01/20/23	
Ethylbenzene	ND	0.0250	1	01/17/23	01/20/23	
Toluene	ND	0.0250	1	01/17/23	01/20/23	
o-Xylene	ND	0.0250	1	01/17/23	01/20/23	
p,m-Xylene	ND	0.0500	1	01/17/23	01/20/23	
Total Xylenes	ND	0.0250	1	01/17/23	01/20/23	
Surrogate: 4-Bromochlorobenzene-PID		*96.6 %*	*70-130*	*01/17/23*	*01/20/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2303040
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/17/23	01/20/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*95.2 %*	*70-130*	*01/17/23*	*01/20/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2303049
Diesel Range Organics (C10-C28)	ND	25.0	1	01/18/23	01/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/18/23	01/19/23	
Surrogate: n-Nonane		*101 %*	*50-200*	*01/18/23*	*01/19/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: KL			Batch: 2303052
Chloride	ND	20.0	1	01/18/23	01/19/23	

Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 171H	
PO Box 247	Project Number:	01058-0007	**Reported:**
Plains TX, 79355-0247	Project Manager:	Tom Bynum	1/23/2023 8:43:15AM

S5 - 1'

E301094-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2303040
Benzene	ND	0.0250	1	01/17/23	01/20/23	
Ethylbenzene	ND	0.0250	1	01/17/23	01/20/23	
Toluene	ND	0.0250	1	01/17/23	01/20/23	
o-Xylene	ND	0.0250	1	01/17/23	01/20/23	
p,m-Xylene	ND	0.0500	1	01/17/23	01/20/23	
Total Xylenes	ND	0.0250	1	01/17/23	01/20/23	
Surrogate: 4-Bromochlorobenzene-PID		*95.0 %*	*70-130*	*01/17/23*	*01/20/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2303040
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/17/23	01/20/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*89.6 %*	*70-130*	*01/17/23*	*01/20/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2303049
Diesel Range Organics (C10-C28)	ND	25.0	1	01/18/23	01/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/18/23	01/19/23	
Surrogate: n-Nonane		*102 %*	*50-200*	*01/18/23*	*01/19/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: KL			Batch: 2303052
Chloride	**406**	20.0	1	01/18/23	01/19/23	

Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 171H	
PO Box 247	Project Number:	01058-0007	**Reported:**
Plains TX, 79355-0247	Project Manager:	Tom Bynum	1/23/2023 8:43:15AM

S5 - 2'

E301094-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2303040
Benzene	ND	0.0250	1	01/17/23	01/20/23	
Ethylbenzene	ND	0.0250	1	01/17/23	01/20/23	
Toluene	ND	0.0250	1	01/17/23	01/20/23	
o-Xylene	ND	0.0250	1	01/17/23	01/20/23	
p,m-Xylene	ND	0.0500	1	01/17/23	01/20/23	
Total Xylenes	ND	0.0250	1	01/17/23	01/20/23	
Surrogate: 4-Bromochlorobenzene-PID		*97.2 %*	*70-130*	*01/17/23*	*01/20/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2303040
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/17/23	01/20/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.4 %*	*70-130*	*01/17/23*	*01/20/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2303049
Diesel Range Organics (C10-C28)	ND	25.0	1	01/18/23	01/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/18/23	01/19/23	
Surrogate: n-Nonane		*99.0 %*	*50-200*	*01/18/23*	*01/19/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: KL			Batch: 2303052
Chloride	**174**	20.0	1	01/18/23	01/19/23	

Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 171H	
PO Box 247	Project Number:	01058-0007	**Reported:**
Plains TX, 79355-0247	Project Manager:	Tom Bynum	1/23/2023 8:43:15AM

S5 - 3'

E301094-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2303040
Benzene	ND	0.0250	1	01/17/23	01/20/23	
Ethylbenzene	ND	0.0250	1	01/17/23	01/20/23	
Toluene	ND	0.0250	1	01/17/23	01/20/23	
o-Xylene	ND	0.0250	1	01/17/23	01/20/23	
p,m-Xylene	ND	0.0500	1	01/17/23	01/20/23	
Total Xylenes	ND	0.0250	1	01/17/23	01/20/23	
Surrogate: 4-Bromochlorobenzene-PID		*98.1 %*	*70-130*	*01/17/23*	*01/20/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2303040
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/17/23	01/20/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*93.6 %*	*70-130*	*01/17/23*	*01/20/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2303049
Diesel Range Organics (C10-C28)	ND	25.0	1	01/18/23	01/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/18/23	01/19/23	
Surrogate: n-Nonane		*97.9 %*	*50-200*	*01/18/23*	*01/19/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: KL			Batch: 2303052
Chloride	ND	20.0	1	01/18/23	01/19/23	

Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 171H	
PO Box 247	Project Number:	01058-0007	**Reported:**
Plains TX, 79355-0247	Project Manager:	Tom Bynum	1/23/2023 8:43:15AM

SW1

E301094-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2303040
Benzene	ND	0.0250	1	01/17/23	01/20/23	
Ethylbenzene	ND	0.0250	1	01/17/23	01/20/23	
Toluene	ND	0.0250	1	01/17/23	01/20/23	
o-Xylene	ND	0.0250	1	01/17/23	01/20/23	
p,m-Xylene	ND	0.0500	1	01/17/23	01/20/23	
Total Xylenes	ND	0.0250	1	01/17/23	01/20/23	
Surrogate: 4-Bromochlorobenzene-PID		*99.0 %*	*70-130*	*01/17/23*	*01/20/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2303040
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/17/23	01/20/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*88.1 %*	*70-130*	*01/17/23*	*01/20/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2303049
Diesel Range Organics (C10-C28)	ND	25.0	1	01/18/23	01/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/18/23	01/19/23	
Surrogate: n-Nonane		*98.3 %*	*50-200*	*01/18/23*	*01/19/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: KL			Batch: 2303052
Chloride	ND	20.0	1	01/18/23	01/19/23	

Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 171H	
PO Box 247	Project Number:	01058-0007	**Reported:**
Plains TX, 79355-0247	Project Manager:	Tom Bynum	1/23/2023 8:43:15AM

SW2

E301094-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2303040
Benzene	ND	0.0250	1	01/17/23	01/20/23	
Ethylbenzene	ND	0.0250	1	01/17/23	01/20/23	
Toluene	ND	0.0250	1	01/17/23	01/20/23	
o-Xylene	ND	0.0250	1	01/17/23	01/20/23	
p,m-Xylene	ND	0.0500	1	01/17/23	01/20/23	
Total Xylenes	ND	0.0250	1	01/17/23	01/20/23	
Surrogate: 4-Bromochlorobenzene-PID		*100 %*	*70-130*	*01/17/23*	*01/20/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2303040
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/17/23	01/20/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*94.0 %*	*70-130*	*01/17/23*	*01/20/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2303049
Diesel Range Organics (C10-C28)	ND	25.0	1	01/18/23	01/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/18/23	01/19/23	
Surrogate: n-Nonane		*101 %*	*50-200*	*01/18/23*	*01/19/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: KL			Batch: 2303052
Chloride	ND	20.0	1	01/18/23	01/19/23	

Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 171H	
PO Box 247	Project Number:	01058-0007	**Reported:**
Plains TX, 79355-0247	Project Manager:	Tom Bynum	1/23/2023 8:43:15AM

SW3

E301094-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2303040
Benzene	ND	0.0250	1	01/17/23	01/20/23	
Ethylbenzene	ND	0.0250	1	01/17/23	01/20/23	
Toluene	ND	0.0250	1	01/17/23	01/20/23	
o-Xylene	ND	0.0250	1	01/17/23	01/20/23	
p,m-Xylene	ND	0.0500	1	01/17/23	01/20/23	
Total Xylenes	ND	0.0250	1	01/17/23	01/20/23	
Surrogate: 4-Bromochlorobenzene-PID		*96.7 %*	*70-130*	*01/17/23*	*01/20/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2303040
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/17/23	01/20/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*95.2 %*	*70-130*	*01/17/23*	*01/20/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2303049
Diesel Range Organics (C10-C28)	ND	25.0	1	01/18/23	01/20/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/18/23	01/20/23	
Surrogate: n-Nonane		*104 %*	*50-200*	*01/18/23*	*01/20/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: KL			Batch: 2303052
Chloride	ND	20.0	1	01/18/23	01/19/23	

Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 171H	
PO Box 247	Project Number:	01058-0007	**Reported:**
Plains TX, 79355-0247	Project Manager:	Tom Bynum	1/23/2023 8:43:15AM

SW4

E301094-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2303040
Benzene	ND	0.0250	1	01/17/23	01/20/23	
Ethylbenzene	ND	0.0250	1	01/17/23	01/20/23	
Toluene	ND	0.0250	1	01/17/23	01/20/23	
o-Xylene	ND	0.0250	1	01/17/23	01/20/23	
p,m-Xylene	ND	0.0500	1	01/17/23	01/20/23	
Total Xylenes	ND	0.0250	1	01/17/23	01/20/23	
Surrogate: 4-Bromochlorobenzene-PID		*99.3 %*	*70-130*	*01/17/23*	*01/20/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2303040
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/17/23	01/20/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*96.3 %*	*70-130*	*01/17/23*	*01/20/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2303049
Diesel Range Organics (C10-C28)	ND	25.0	1	01/18/23	01/20/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/18/23	01/20/23	
Surrogate: n-Nonane		*103 %*	*50-200*	*01/18/23*	*01/20/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: KL			Batch: 2303052
Chloride	ND	20.0	1	01/18/23	01/19/23	

Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 171H	
PO Box 247	Project Number:	01058-0007	**Reported:**
Plains TX, 79355-0247	Project Manager:	Tom Bynum	1/23/2023 8:43:15AM

BG1

E301094-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2303040
Benzene	ND	0.0250	1	01/17/23	01/20/23	
Ethylbenzene	ND	0.0250	1	01/17/23	01/20/23	
Toluene	ND	0.0250	1	01/17/23	01/20/23	
o-Xylene	ND	0.0250	1	01/17/23	01/20/23	
p,m-Xylene	ND	0.0500	1	01/17/23	01/20/23	
Total Xylenes	ND	0.0250	1	01/17/23	01/20/23	
Surrogate: 4-Bromochlorobenzene-PID		*99.6 %*	*70-130*	*01/17/23*	*01/20/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2303040
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/17/23	01/20/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.2 %*	*70-130*	*01/17/23*	*01/20/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2303049
Diesel Range Organics (C10-C28)	ND	25.0	1	01/18/23	01/20/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/18/23	01/20/23	
Surrogate: n-Nonane		*101 %*	*50-200*	*01/18/23*	*01/20/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: KL			Batch: 2303052
Chloride	ND	20.0	1	01/18/23	01/19/23	

Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 171H	
PO Box 247	Project Number:	01058-0007	**Reported:**
Plains TX, 79355-0247	Project Manager:	Tom Bynum	1/23/2023 8:43:15AM

BG2

E301094-21

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2303039
Benzene	ND	0.0250	1	01/17/23	01/19/23	
Ethylbenzene	ND	0.0250	1	01/17/23	01/19/23	
Toluene	ND	0.0250	1	01/17/23	01/19/23	
o-Xylene	ND	0.0250	1	01/17/23	01/19/23	
p,m-Xylene	ND	0.0500	1	01/17/23	01/19/23	
Total Xylenes	ND	0.0250	1	01/17/23	01/19/23	
Surrogate: 4-Bromochlorobenzene-PID		*101 %*	*70-130*	*01/17/23*	*01/19/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2303039
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/17/23	01/19/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*94.0 %*	*70-130*	*01/17/23*	*01/19/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2303050
Diesel Range Organics (C10-C28)	ND	25.0	1	01/18/23	01/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/18/23	01/19/23	
Surrogate: n-Nonane		*104 %*	*50-200*	*01/18/23*	*01/19/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: KL			Batch: 2303053
Chloride	ND	20.0	1	01/18/23	01/19/23	

QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 171H	**Reported:**
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	1/23/2023 8:43:15AM

Volatile Organics by EPA 8021B

Analyst: SL

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2303039-BLK1)									Prepared: 01/17/23 Analyzed: 01/19/23
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	*7.58*		*8.00*		*94.8*	*70-130*			
LCS (2303039-BS1)									Prepared: 01/17/23 Analyzed: 01/19/23
Benzene	4.66	0.0250	5.00		93.2	70-130			
Ethylbenzene	5.03	0.0250	5.00		101	70-130			
Toluene	5.07	0.0250	5.00		101	70-130			
o-Xylene	5.17	0.0250	5.00		103	70-130			
p,m-Xylene	10.2	0.0500	10.0		102	70-130			
Total Xylenes	15.4	0.0250	15.0		102	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*7.72*		*8.00*		*96.5*	*70-130*			
LCS Dup (2303039-BSD1)									Prepared: 01/17/23 Analyzed: 01/19/23
Benzene	4.82	0.0250	5.00		96.5	70-130	3.46	20	
Ethylbenzene	5.24	0.0250	5.00		105	70-130	4.14	20	
Toluene	5.26	0.0250	5.00		105	70-130	3.78	20	
o-Xylene	5.38	0.0250	5.00		108	70-130	4.01	20	
p,m-Xylene	10.6	0.0500	10.0		106	70-130	4.14	20	
Total Xylenes	16.0	0.0250	15.0		107	70-130	4.10	20	
Surrogate: 4-Bromochlorobenzene-PID	*7.74*		*8.00*		*96.7*	*70-130*			

QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 171H	**Reported:**
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	1/23/2023 8:43:15AM

Volatile Organics by EPA 8021B

Analyst: SL

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2303040-BLK1)									Prepared: 01/17/23 Analyzed: 01/19/23
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	*7.99*		*8.00*		*99.8*	*70-130*			
LCS (2303040-BS1)									Prepared: 01/17/23 Analyzed: 01/19/23
Benzene	4.07	0.0250	5.00		81.5	70-130			
Ethylbenzene	4.35	0.0250	5.00		87.0	70-130			
Toluene	4.41	0.0250	5.00		88.1	70-130			
o-Xylene	4.49	0.0250	5.00		89.8	70-130			
p,m-Xylene	8.83	0.0500	10.0		88.3	70-130			
Total Xylenes	13.3	0.0250	15.0		88.8	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*7.93*		*8.00*		*99.1*	*70-130*			
LCS Dup (2303040-BSD1)									Prepared: 01/17/23 Analyzed: 01/19/23
Benzene	4.69	0.0250	5.00		93.8	70-130	14.1	20	
Ethylbenzene	5.04	0.0250	5.00		101	70-130	14.7	20	
Toluene	5.09	0.0250	5.00		102	70-130	14.4	20	
o-Xylene	5.20	0.0250	5.00		104	70-130	14.7	20	
p,m-Xylene	10.2	0.0500	10.0		102	70-130	14.3	20	
Total Xylenes	15.4	0.0250	15.0		103	70-130	14.4	20	
Surrogate: 4-Bromochlorobenzene-PID	*7.91*		*8.00*		*98.9*	*70-130*			

QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 171H	**Reported:**
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	1/23/2023 8:43:15AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2303039-BLK1)									Prepared: 01/17/23 Analyzed: 01/19/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.59*		*8.00*		*94.9*	*70-130*			
LCS (2303039-BS2)									Prepared: 01/17/23 Analyzed: 01/19/23
Gasoline Range Organics (C6-C10)	54.1	20.0	50.0		108	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.25*		*8.00*		*90.6*	*70-130*			
LCS Dup (2303039-BSD2)									Prepared: 01/17/23 Analyzed: 01/20/23
Gasoline Range Organics (C6-C10)	46.3	20.0	50.0		92.6	70-130	15.5	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.70*		*8.00*		*96.2*	*70-130*			

QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 171H	**Reported:**
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	1/23/2023 8:43:15AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2303040-BLK1)									Prepared: 01/17/23 Analyzed: 01/19/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.11*		*8.00*		*88.9*	*70-130*			
LCS (2303040-BS2)									Prepared: 01/17/23 Analyzed: 01/19/23
Gasoline Range Organics (C6-C10)	50.1	20.0	50.0		100	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.67*		*8.00*		*95.9*	*70-130*			
LCS Dup (2303040-BSD2)									Prepared: 01/17/23 Analyzed: 01/20/23
Gasoline Range Organics (C6-C10)	49.3	20.0	50.0		98.6	70-130	1.58	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.56*		*8.00*		*94.5*	*70-130*			

QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 171H	**Reported:**
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	1/23/2023 8:43:15AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2303049-BLK1)									Prepared: 01/18/23 Analyzed: 01/19/23
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*49.3*		*50.0*		*98.7*	*50-200*			
LCS (2303049-BS1)									Prepared: 01/18/23 Analyzed: 01/19/23
Diesel Range Organics (C10-C28)	232	25.0	250		93.0	38-132			
Surrogate: n-Nonane	*47.4*		*50.0*		*94.8*	*50-200*			
Matrix Spike (2303049-MS1)				**Source: E301094-09**					Prepared: 01/18/23 Analyzed: 01/19/23
Diesel Range Organics (C10-C28)	244	25.0	250	ND	97.6	38-132			
Surrogate: n-Nonane	*49.9*		*50.0*		*99.7*	*50-200*			
Matrix Spike Dup (2303049-MSD1)				**Source: E301094-09**					Prepared: 01/18/23 Analyzed: 01/19/23
Diesel Range Organics (C10-C28)	243	25.0	250	ND	97.0	38-132	0.581	20	
Surrogate: n-Nonane	*49.6*		*50.0*		*99.2*	*50-200*			

QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 171H	**Reported:**
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	1/23/2023 8:43:15AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2303050-BLK1)									Prepared: 01/18/23 Analyzed: 01/19/23
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*55.7*		*50.0*		*111*	*50-200*			
LCS (2303050-BS1)									Prepared: 01/18/23 Analyzed: 01/19/23
Diesel Range Organics (C10-C28)	264	25.0	250		105	38-132			
Surrogate: n-Nonane	*53.1*		*50.0*		*106*	*50-200*			
Matrix Spike (2303050-MS1)				**Source: E301093-02**					Prepared: 01/18/23 Analyzed: 01/19/23
Diesel Range Organics (C10-C28)	276	25.0	250	ND	111	38-132			
Surrogate: n-Nonane	*51.4*		*50.0*		*103*	*50-200*			
Matrix Spike Dup (2303050-MSD1)				**Source: E301093-02**					Prepared: 01/18/23 Analyzed: 01/19/23
Diesel Range Organics (C10-C28)	276	25.0	250	ND	110	38-132	0.175	20	
Surrogate: n-Nonane	*53.2*		*50.0*		*106*	*50-200*			

QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 171H	**Reported:**
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	1/23/2023 8:43:15AM

Anions by EPA 300.0/9056A

Analyst: KL

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2303052-BLK1)									Prepared: 01/18/23 Analyzed: 01/19/23
Chloride	ND	20.0							
LCS (2303052-BS1)									Prepared: 01/18/23 Analyzed: 01/19/23
Chloride	245	20.0	250		98.2	90-110			
Matrix Spike (2303052-MS1)				**Source: E301094-01**					Prepared: 01/18/23 Analyzed: 01/19/23
Chloride	831	40.0	250	537	117	80-120			
Matrix Spike Dup (2303052-MSD1)				**Source: E301094-01**					Prepared: 01/18/23 Analyzed: 01/19/23
Chloride	851	40.0	250	537	125	80-120	2.37	20	M2

QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 171H	**Reported:**
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	1/23/2023 8:43:15AM

Anions by EPA 300.0/9056A

Analyst: KL

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2303053-BLK1)									Prepared: 01/18/23 Analyzed: 01/19/23
Chloride	ND	20.0							
LCS (2303053-BS1)									Prepared: 01/18/23 Analyzed: 01/19/23
Chloride	250	20.0	250		100	90-110			
Matrix Spike (2303053-MS1)				**Source: E301093-01**					Prepared: 01/18/23 Analyzed: 01/19/23
Chloride	308	20.0	250	65.9	97.0	80-120			
Matrix Spike Dup (2303053-MSD1)				**Source: E301093-01**					Prepared: 01/18/23 Analyzed: 01/19/23
Chloride	311	20.0	250	65.9	98.1	80-120	0.905	20	

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

Definitions and Notes

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 171H	
PO Box 247	Project Number:	01058-0007	**Reported:**
Plains TX, 79355-0247	Project Manager:	Tom Bynum	01/23/23 08:43

M2	Matrix spike recovery was outside quality control limits. The associated LCS spike recovery was acceptable.
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference
DNI	Did Not Ignite

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

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

Project Information | Chain of Custody | Page 1 of 3

Client: Pima Environmental Services	Bill To
Project: Cotton Draw Unit 171 H	Attention: Devon
Project Manager: Tom Bynum	Address:
Address: 5614 N. Lovington Hwy.	City, State, Zip
City, State, Zip Hobbs, NM. 88240	Phone:
Phone: 580-748-1613	Email:
Email: tom@pimaoil.com	Pima Project # 1-237
Report due by:	

Lab Use Only: Lab WO# E301094 | Job Number 01058-0007

TAT: 1D | 2D | 3D | Standard X

EPA Program: CWA | SDWA | RCRA

State: NM X | CO | UT | AZ | TX

Analysis and Method: DRO/ORO by 8015 | GRO/DRO by 8015 | BTEX by 8021 | VOC by 8260 | Metals 6010 | Chloride 300.0 | BGDOC NM | BGDOC TX

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	BGDOC NM	Remarks
8:00	1/16/23	S	1	S1-1'	1	X	
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				S4-1'	10		

Additional Instructions: Bill to Devon:

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: Adriana Bernardez

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

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
AB	1-17-23	2:00	Michelle Gonzales	1-17-23	1400
Michelle Gonzales	1-17-23	1700	Lorenzo Lei	1-17-23	1715
Lorenzo Lei	1-17-23	23:45	Caitlin Chester	1/18/23	9:30

Lab Use Only: Received on ice: (Y) / N

T1 ____ T2 ____ T3 ____

AVG Temp °C 4

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

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

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

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Project Information | Chain of Custody | Page 2 of 3

Client: Pima Environmental Services	Bill To	Lab Use Only
Project: Cotton Draw Unit 171 H	Attention: Devon	Lab WO# E301094
Project Manager: Tom Bynum	Address:	Job Number 01058-0007
Address: 5614 N. Lovington Hwy.	City, State, Zip	
City, State, Zip Hobbs, NM, 88240	Phone:	
Phone: 580-748-1613	Email:	
Email: tom@pimaoil.com	Pima Project # 1.235	
Report due by:		

TAT				EPA Program	
1D	2D	3D	Standard	CWA	SDWA
			X		
					RCRA

State: NM X | CO | UT | AZ | TX

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
8:50	1/16/23	S	1	S4-2'	11									X				
8:55	"	"	"	S4-3'	12									"				
9:00	"	"	"	S5-1'	13									"				
9:05	"	"	"	S5-2'	14									"				
9:10	"	"	"	S5-3'	15									"				
9:15	"	"	"	SW1	16									"				
9:20	"	"	"	SW2	17									"				
9:25	"	"	"	SW3	18									"				
9:30	"	"	"	SW4	19									"				
9:35	"	"	"	BG1	20									"				

Additional Instructions: Bill to Devon:

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: Adriana Benavidez

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

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	1-17-23	2:00	Mychilla Cuzado	1-17-23	1400
Mychilla Cuzado	1-17-23	1700	Lorenzo Lei	1-17-23	1715
Lorenzo Lei	1-17-23	2345	Caitlin Chitu	1/18/23	9:30

Lab Use Only
Received on ice: (Y) / N
T1 T2 T3
AVG Temp °C 4

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

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

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Project Information | Chain of Custody | Page 3 of 3

Client: Pima Environmental Services	Bill To	Lab Use Only	TAT / EPA Program
Project: Cotton Draw Unit 171H	Attention: Devon	Lab WO# E301094	Job Number 01058-0007
Project Manager: Tom Bynum	Address:	1D 2D 3D Standard: X	CWA SDWA RCRA
Address: 5614 N. Lovington Hwy.	City, State, Zip		
City, State, Zip Hobbs, NM, 88240	Phone:		
Phone: 580-748-1613	Email:		
Email: tom@pimaoil.com	Pima Project # 1.235		
Report due by:			

Analysis and Method

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0			BGDOC NM	BGDOC TX			Remarks
9:40	1/16/23	S	1	BG 2	21									X				

State: NM X | CO | UT | AZ | TX

Additional Instructions: Bill to Devon

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: Adriana Benavidez

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

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	1-17-23	2:00	Michelle Cuyle	1-17-23	1400
Michelle Cuyle	1-17-23	1700	Lorenzo Lew	1-17-23	1715
Lorenzo Lew	1-17-23	2345	Caitlin Christian	1/18/23	9:30

Lab Use Only — Received on ice: (Y) / N; T1 ____ T2 ____ T3 ____; AVG Temp °C 4

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

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

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

envirotech

Envirotech Analytical Laboratory

Printed: 1/18/2023 11:04:15AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.
If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Pima Environmental Services-Carlsbad	Date Received:	01/17/23 09:30	Work Order ID:	E301094
Phone:	(575) 631-6977	Date Logged In:	01/17/23 14:46	Logged In By:	Caitlin Christian
Email:	tom@pimaoil.com	Due Date:	01/23/23 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	Carrier: Courier
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	Yes	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

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 Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling	Yes	
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 filteration required and/or requested for dissolved metals?	No	

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date

envirotech Inc.

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QUESTIONS

Action 354167

QUESTIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 354167
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAB1508251701**
Incident Name	**NAB1508251701 COTTON DRAW UNIT #171H @ 30-015-42503**
Incident Type	**Produced Water Release**
Incident Status	**Remediation Closure Report Received**
Incident Well	**[30-015-42503] COTTON DRAW UNIT #171H**

Location of Release Source	
Please answer all the questions in this group.	
Site Name	COTTON DRAW UNIT #171H
Date Release Discovered	03/19/2015
Surface Owner	Federal

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Cause: Overflow - Tank, Pit, Etc. | Tank (Any) | Crude Oil | Released: 1 BBL | Recovered: 1 BBL | Lost: 0 BBL.
Produced Water Released (bbls) Details	Cause: Overflow - Tank, Pit, Etc. | Tank (Any) | Produced Water | Released: 52 BBL | Recovered: 43 BBL | Lost: 9 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	*Not answered.*
Natural Gas Vented (Mcf) Details	*Not answered.*
Natural Gas Flared (Mcf) Details	*Not answered.*
Other Released Details	*Not answered.*
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	*Not answered.*

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QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
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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.**
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response	
The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.	
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	*Not answered.*
Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.	

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

I hereby agree and sign off to the above statement	Name: Dale Woodall Title: EHS Professional Email: Dale.Woodall@dvn.com Date: 06/14/2024

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QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 354167
	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	Greater than 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 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
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	606
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	03/13/2024
On what date will (or did) the final sampling or liner inspection occur	03/13/2024
On what date will (or was) the remediation complete(d)	03/13/2024
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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QUESTIONS (continued)

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	Action Number: 354167
	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	analytical results were below OCD action levels based on depth to water
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	

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

I hereby agree and sign off to the above statement	Name: Dale Woodall Title: EHS Professional Email: Dale.Woodall@dvn.com Date: 06/14/2024

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 (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 354167
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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QUESTIONS (continued)

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	Action Number: 354167
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	**322026**
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	**03/13/2024**
What was the (estimated) number of samples that were to be gathered	**20**
What was the sampling surface area in square feet	**400**

Remediation Closure Request	
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.	
Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	**Yes**
Was this release entirely contained within a lined containment area	**No**
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	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)	analytical results were below OCD action levels based on depth to water

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

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

I hereby agree and sign off to the above statement	Name: Dale Woodall Title: EHS Professional Email: Dale.Woodall@dvn.com Date: 06/14/2024

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QUESTIONS (continued)

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	Action Number: 354167
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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CONDITIONS

Action 354167

CONDITIONS

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	6137
	Action Number: 354167
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your Remediation Closure Report for Incident #NAB1508251701 COTTON DRAW UNIT #171H, thank you. This Remediation Closure Report is approved.	6/25/2024