

Spill Volume(Bbls) Calculator	
<i>Inputs in blue, Outputs in red</i>	
Contaminated Soil measurement	
Area (square feet)	Depth(inches)
<u>29227</u>	<u>0.250</u>
Cubic Feet of Soil Impacted	<u>608.896</u>
Barrels of Soil Impacted	<u>108.54</u>
Soil Type	Clay/Sand
Barrels of Oil Assuming 100% Saturation	<u>16.28</u>
Saturation	Fluid present with shovel/backhoe
Estimated Barrels of Oil Released	<u>16.28</u>
Free Standing Fluid Only	
Area (square feet)	Depth(inches)
<u>29227</u>	<u>0.200</u>
Standing fluid	<u>86.830</u>
<u>Total fluids spilled</u>	<u>103.111</u>

**Devon Energy Production Company
6488 Seven Rivers HWY
Artesia, NM 88210
575-748-0167**

June 20, 2024

Bureau of Land Management
620 East Green Street
Carlsbad, NM 88220

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

**Re: Remediation Work Plan
Thistle Unit 65H
API No. 30-025-41303
GPS: Latitude 32.2542877 Longitude -103.5721207
UL P, Sec. 33, T23S, R33E
Lea County, NM
NMOCD Ref. No. NRM2019860183**

Pima Environmental Services, LLC. (Pima) has been contracted by Devon Energy Production, LLC. (Devon) to write a Remediation Work Plan for a produced water release that occurred at the Thistle Unit 65H (Thistle). The initial C-141 was submitted on July 8, 2020 (Appendix C). This incident was assigned Incident ID NRM2019860183 by the New Mexico Oil Conservation Division (NMOCD).

Site Characterization

Site information and characterization documents can be found in the previously denied Remediation Closure Report located in the OCD Online Permitting - Action Status – Application ID: 209638

Release Information

NRM2019860183: On July 6, 2020, a release occurred due to surface casing valve found open and flowing fluid. The valve handle was added to shut valve and wing valve. The released fluids were calculated to be approximately 363 barrels (bbls) of produced water. A vacuum truck was able to recover approximately 301 bbls of total fluid from the impacted area.

Delineation Activities

Delineation activities documentation can be found in the previously denied Remediation Closure report located in the OCD Online Permitting – Action Status – Application ID: 209638

Proposed Remediation Activities & Countermeasures to Closure Rejection

On behalf of Devon Energy, Pima proposes to remediate this area by the following method:

- Submit a one-call through the NM811 system.
- Well has been plugged, not yet released. We propose to remove contaminated soil as the first phase of reclamation.
- Pima will take surface samples, then take subsequent samples 1' at a time totaling no less than 4' until contaminated soil is tested and removed including the pasture area. The estimated volume of soil to be remediated is based on a 16,792 square foot area at an average depth of 4 feet bgs, approximately 2,487 cubic yards. Once removed, contaminated soil will be hauled off and disposed of at a NMOCD-approved facility.
- Once the pad and pasture area have been verified to show contaminant levels are under the criteria per the reclamation standard 19.15.29.13 NMAC, then normal reclamation of the site can commence.
- Upon approval of this work Remediation Work Plan, work can begin within 30 days.

Remediation Work Plan Approval Request

After careful review, Devon Energy requests that this Remediation Work Plan for incident NRM2019860183 be approved. Devon has complied with the applicable remediation plan requirements set forth in rule 19.15.29.12 NMAC.

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

Devon Energy – Dale Woodall- 575-748-1838 or dale.woodall@devon.com

Pima Environmental – DelRae Geller- 806-724-5391 or delrae@pimaoil.com

Respectfully,

DelRae Geller

DelRae Geller

Project Manager

Pima Environmental Services, LLC

Attachments

Figures:

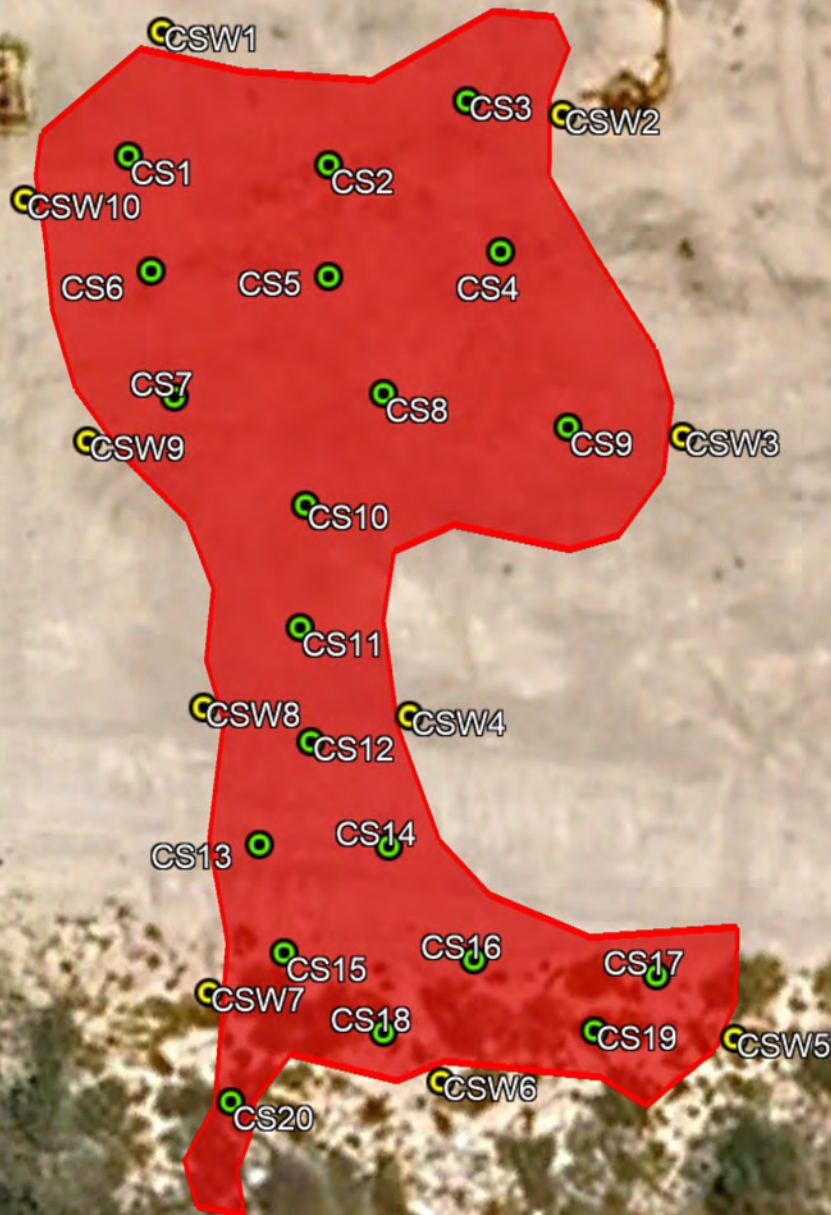
1- Site Map

Thistle Unit 65H

Devon Energy
API #30-025-41303
Lea County, NM
NRM20119860183
Site Map

Legend

- Base Samples
- Release Area - 16,792 sqft
- Side Wall Samples



Google Earth



100 ft



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

April 20th, 2023

Bureau of Land Management
 620 East Green Street
 Carlsbad, NM 88220

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

Re: Site Assessment and Closure Report
Thistle Unit 65H
API No. 30-025-41303
GPS: Latitude 32.2542877 Longitude -103.5721207
UL P, Sec. 33, T23S, R33E
Lea County, NM
NMOCD Ref. No. NRM2019860183

Pima Environmental Services, LLC. (Pima) has been contracted by Devon Energy Production, LLC. (Devon) to perform a spill assessment and submit this closure report for a produced water release that occurred at the Thistle Unit 65H (Thistle). The initial C-141 was submitted on July 8, 2020 (Appendix C). This incident was assigned Incident ID NRM2019860183 by the New Mexico Oil Conservation Division (NMOCD).

Site Characterization

The Thistle is located approximately twenty-four (24) miles northwest of Jal, NM. This spill site is in Unit P, Section 33, Township 23S, Range 33E, Latitude 32.2542877 Longitude -103.5721207, Lea County, NM. Figure 1 references a Location Map.

Per the New Mexico Bureau of Geology and Mineral Resources, the geology is made up of Interlayered eolian sands and piedmont-slope deposits along the eastern flank of the Pecos River valley, primarily between Roswell and Carlsbad. Typically capped by thin eolian deposits. May locally include uppermost Eolian and piedmont deposits. The soil in this area is made up of Pyote and Maljamar fine sands, 0 to 3 percent slopes 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 around the Thistle (Figure 3).

According to the New Mexico Office of the State Engineer, depth to the nearest groundwater in this area is 400 feet below grade surface (BGS). According to the United States Geological Survey (USGS), the nearest groundwater is 22 feet BGS. The closest waterway is a Salt Playa located approximately 9.87 miles to the northeast 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

NRM2019860183: On July 6, 2020, a release occurred due to surface casing valve found open and flowing fluid. The valve handle was added to shut valve and wing valve. The released fluids were calculated to be approximately 363 barrels (bbls) of produced water. A vacuum truck was able to recover approximately 301 bbls of total fluid from the impacted area.

Site Assessment, Remediation, and Soil Sampling Results

On August 20, 2020, SMA personnel performed site delineation activities at the Thistle Unit #65H site. SMA collected soil samples around the release site and throughout the visibly stained area. The area(s) of visual impact was located partially within the boundary of the developed production facility, and partially in the pasture.

On October 19, 2020, Devon submitted a remediation plan written by SMA for this incident.

On March 19, 2021, the NMOCD reviewed and rejected the remediation plan as submitted.

In March of 2022, Atkins Engineering installed a borehole within ½-mile of this spill site, to prove the absence of ground water. This borehole was drilled to a depth of 55' bgs and after 72 hours there remained no evidence of ground water. The OSE Point of Diversion record is included in Appendix A.

On June 27, 2022, and July 11, 2022, Pima mobilized personnel to the site to assess the area. We sampled the impacted area at various depths. Laboratory results of this sampling event can be found in the following data table. A Site Map can be found in Figure 4.

6-27-22 & 7-11-22 Soil Sample Results

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to GW = 51-100')									
DEVON ENERGY -- THISTLE UNIT 65H									
Date: 6/27/22 & 7/11/22			NM Approved Laboratory Results						
Sample ID	Date	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg
BG-1	6/27/2022	0-6"	ND	ND	ND	ND	ND	0	ND
BG-2	6/27/2022	0-6"	ND	ND	ND	ND	ND	0	ND
SW-1	6/27/2022	1'	ND	ND	ND	ND	ND	0	ND
SW-2	6/27/2022	1'	ND	ND	ND	ND	ND	0	ND
SW-3	6/27/2022	1'	ND	ND	ND	ND	ND	0	ND
SW-4	6/27/2022	1'	ND	ND	ND	ND	ND	0	ND
SW-5	6/27/2022	1'	ND	ND	ND	ND	ND	0	ND
S-1	6/27/2022	1'	ND	ND	ND	ND	ND	0	197
	7/11/2022	1'	ND	ND	ND	ND	ND	0	ND
	7/11/2022	3'	ND	ND	ND	ND	ND	0	ND
	6/27/2022	4'	ND	ND	ND	ND	ND	0	ND
S-2	6/27/2022	1'	ND	ND	ND	ND	ND	0	120
	7/11/2022	1'	ND	ND	ND	ND	ND	0	ND
	7/11/2022	3'	ND	ND	ND	ND	ND	0	ND
	6/27/2022	4'	ND	ND	ND	ND	ND	0	ND
S-3	6/27/2022	1'	ND	ND	ND	ND	ND	0	ND
	7/11/2022	1'	ND	ND	ND	ND	ND	0	ND
	7/11/2022	3'	ND	ND	ND	ND	ND	0	ND
S-4	6/27/2022	1'	ND	ND	ND	ND	ND	0	ND
	7/11/2022	1'	ND	ND	ND	ND	ND	0	ND
	7/11/2022	3'	ND	ND	ND	ND	ND	0	ND
S-5	6/27/2022	1'	ND	ND	ND	ND	ND	0	ND
	7/11/2022	1'	ND	ND	ND	ND	ND	0	ND
	7/11/2022	3'	ND	ND	ND	ND	ND	0	ND

ND- Analyte Not Detected

Countermeasures due to Rejection

On April 8, 2023, Pima returned to the Thistle 65H per the NMOCD to collect additional soil samples. Pima utilized a backhoe to collect soil samples (S1-S5) at a depth of 4'-6' bgs. Laboratory results of this sampling event can be found in the following data table.

4-8-2023 Soil Sample Results									
NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater 51-100')									
DEVON ENERGY THISTLE UNIT 65 H									
			NM Approved Laboratory Results						
Sample ID	Sample Date	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	CI mg/kg
S-1	4/8/2023	4'	ND	ND	ND	ND	ND	0	ND
		5'	ND	ND	ND	ND	ND	0	ND
		6'	ND	ND	ND	ND	ND	0	ND
S-2		4'	ND	ND	ND	ND	ND	0	ND
		5'	ND	ND	ND	ND	ND	0	ND
		6'	ND	ND	ND	ND	ND	0	ND
S-3		4'	ND	ND	ND	ND	ND	0	ND
		5'	ND	ND	ND	ND	ND	0	ND
		6'	ND	ND	ND	ND	ND	0	ND
S-4		4'	ND	ND	ND	ND	ND	0	ND
		5'	ND	ND	ND	ND	ND	0	ND
		6'	ND	ND	ND	ND	ND	0	ND
S-5		4'	ND	ND	ND	ND	ND	0	ND
		5'	ND	ND	ND	ND	ND	0	ND
		6'	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	ND	0

ND- Analyte Not Detected

Complete laboratory reports can be found in Appendix E.

Based on the soil sample results, and research with the production department at Devon Energy, we conclude that due to surface scraping and excavating of the spill area by a roustabout company and basic site maintenance, the contamination levels have been sufficiently neutralized in accordance with Table 1 of NMAC 19.15.29.1. Contaminated soil was hauled to R360, an NMOCD-approved disposal site, the surrounding pad area was utilized as backfill, packed and recontoured to match its previous state.

Closure Request

After careful review, Pima requests that this incident, NRM2019860183 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.

Attachments

Figures:

- 1- Location Map
- 2- Topographic Map
- 3- Karst Map
- 4- 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

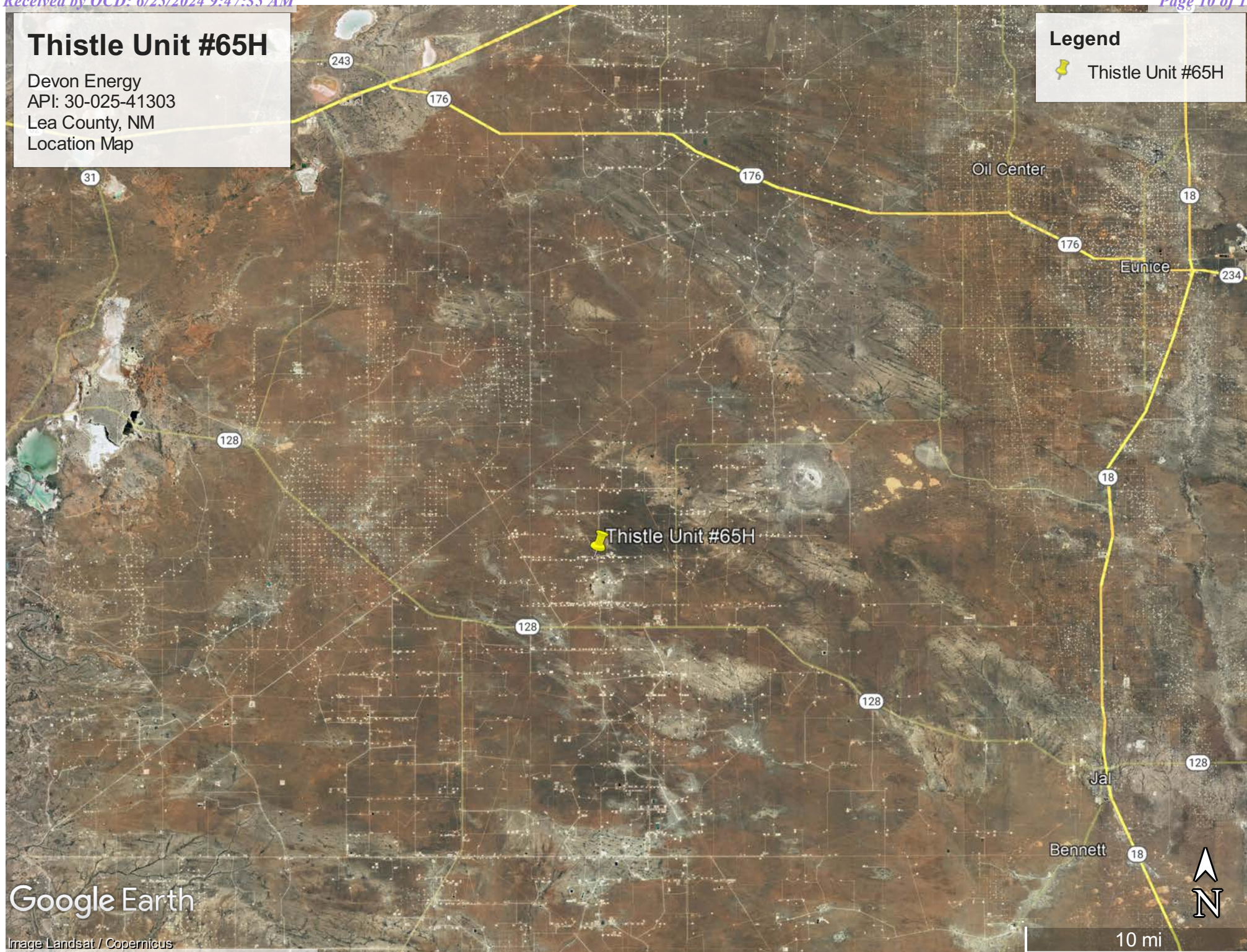
4-Site Map

Thistle Unit #65H

Devon Energy
API: 30-025-41303
Lea County, NM
Location Map

Legend

 Thistle Unit #65H



Google Earth

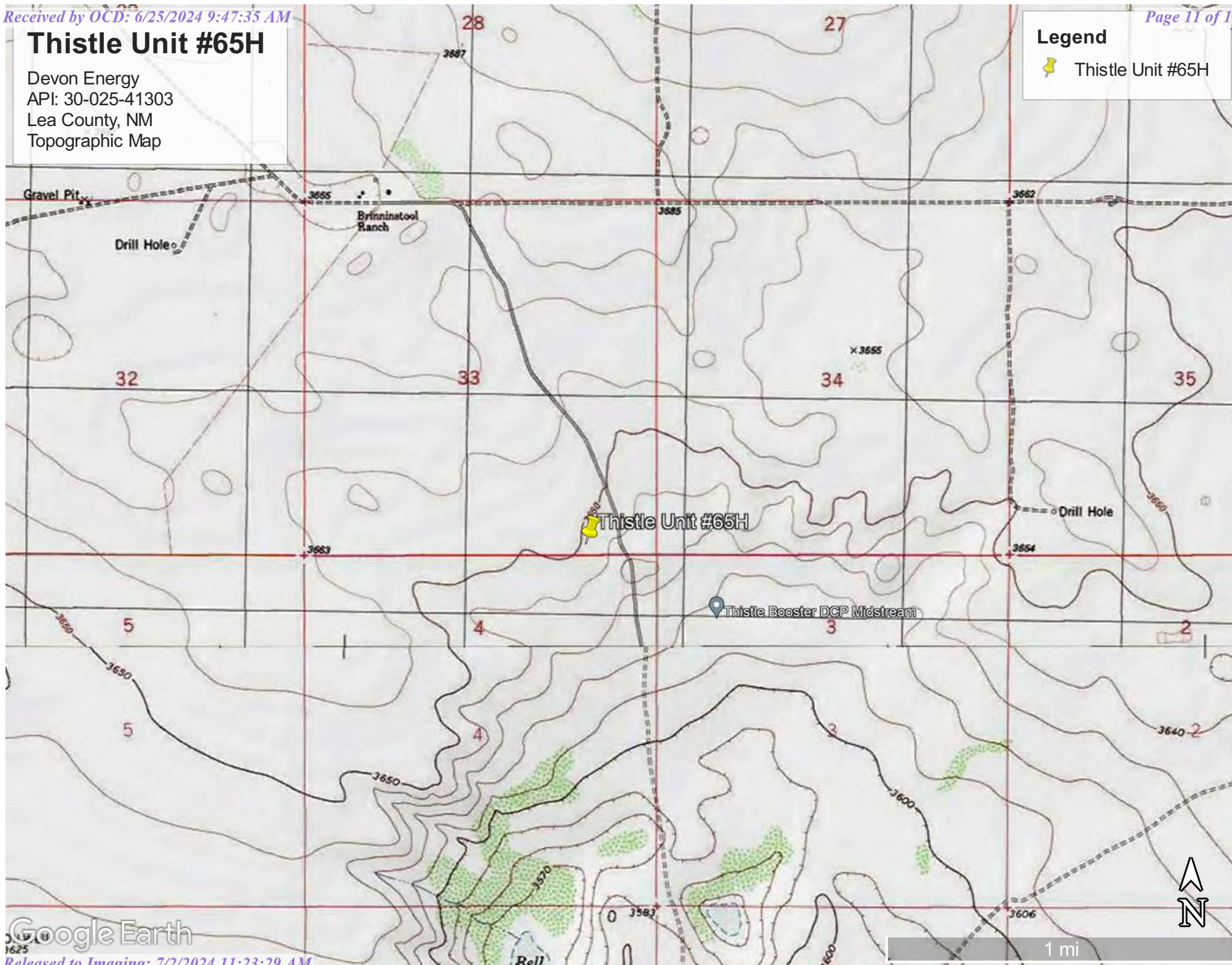
Image Landsat / Copernicus

Thistle Unit #65H

Devon Energy
API: 30-025-41303
Lea County, NM
Topographic Map

Legend





 Thistle Unit #65H

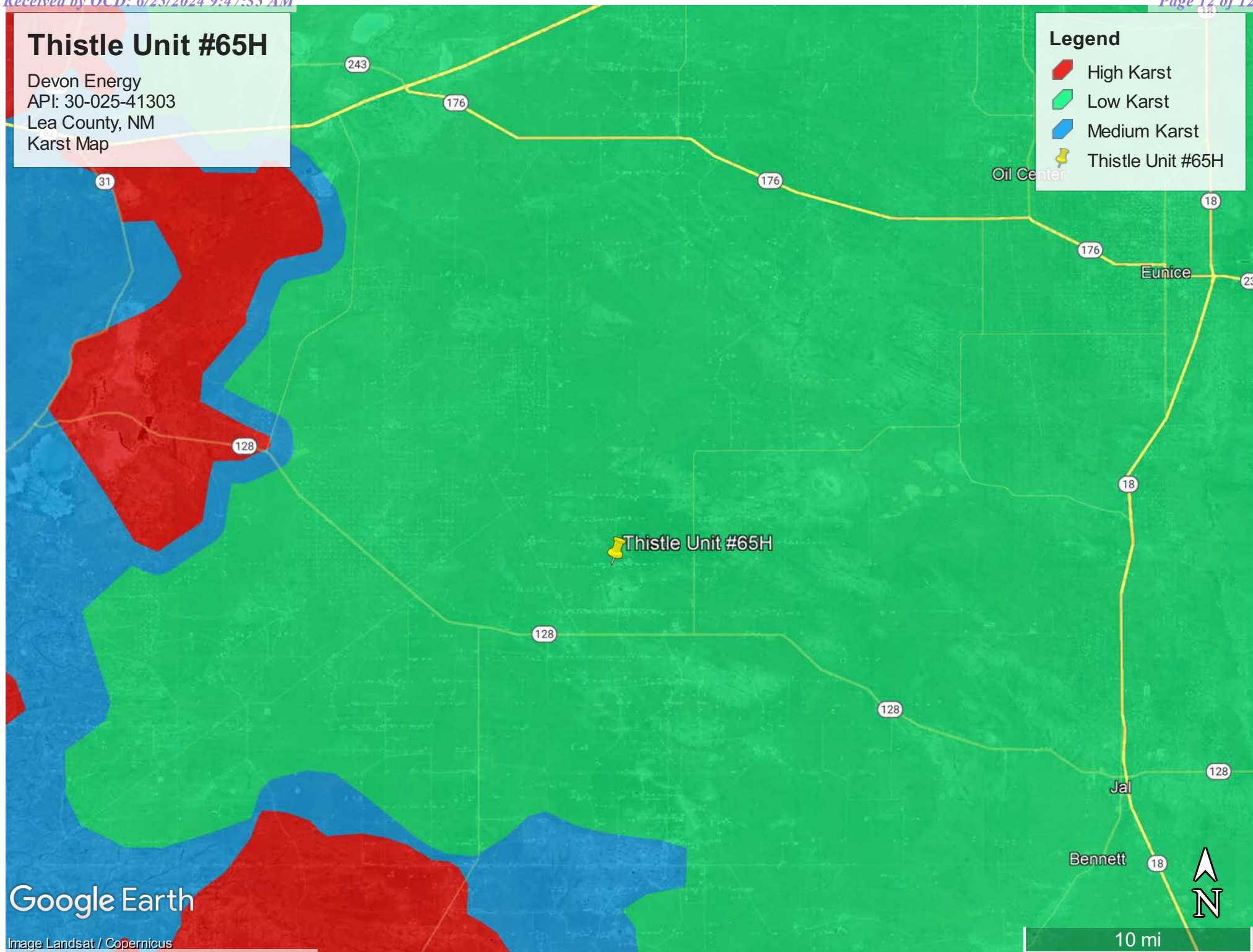


Thistle Unit #65H

Devon Energy
API: 30-025-41303
Lea County, NM
Karst Map

Legend

-  High Karst
-  Low Karst
-  Medium Karst
-  Thistle Unit #65H



Google Earth

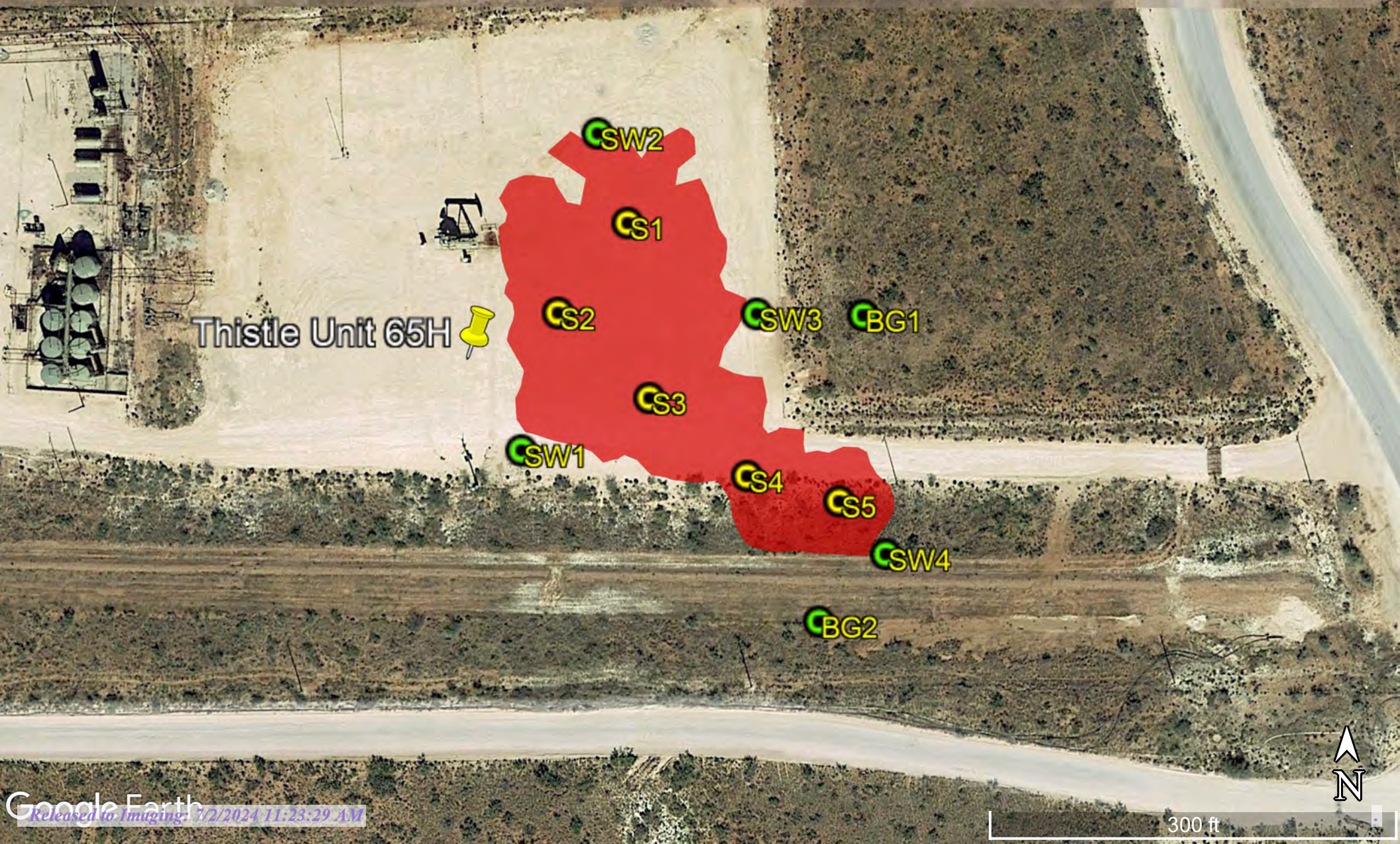
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Thistle Unit 65H

Devon Energy
API#30-025-41303
Lea County, NM
Site Map-NRM2019860183

Legend



- Background/Sidewalls Samples
- Thistle Unit 65H
- Samples
- Spill area

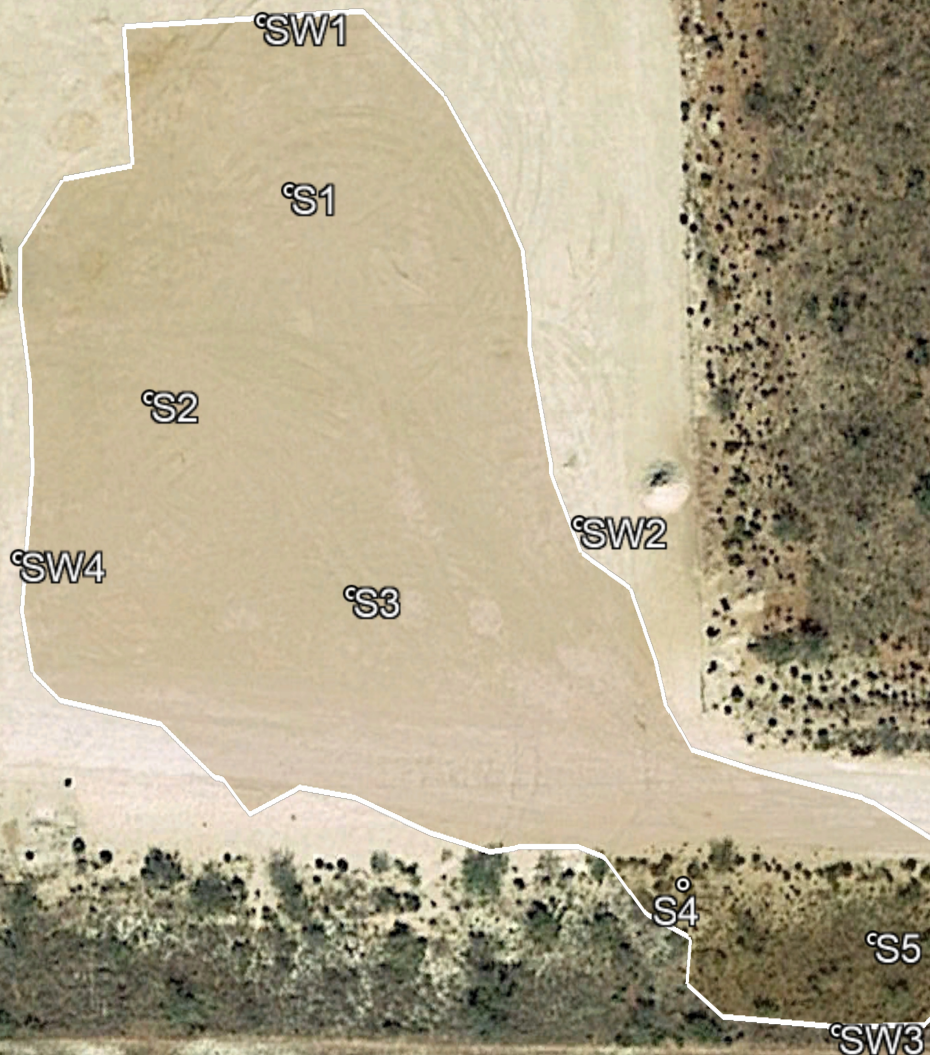


Thistle Unit 65H

Devon Energy
API: 30-025-41303
Lea County, NM
Site Map- NRM2019860183

Legend

-  Release Area
-  Soil Samples



200 ft



Pima Environmental Services

Appendix A

Water Surveys:

OSE

USGS

Surface Water Map



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
C_04595 POD1		CUB	LE	4	3	3	34	23S	33E	635150	3569564	647	55		
C_02281		CUB	LE	3	4	4	28	23S	33E	634495	3571183*	1666	545	400	145
C_02279		CUB	LE	3	4	3	28	23S	33E	633691	3571173*	1845	650	400	250
C_03591 POD1		CUB	LE	2	1	4	05	24S	33E	632731	3568518	2034			
C_02280		CUB	LE	3	2	4	28	23S	33E	634489	3571586*	2069	650	400	250
C_02308		CUB	LE	1	3	1	10	24S	33E	634953	3567364*	2198	40	20	20
C_02278		CUB	LE	3	4	2	28	23S	33E	634484	3571989*	2472	650	400	250
C_03565 POD3		CUB	LE		3	4	08	24S	33E	632763	3566546	3441			1533
C_04551 POD1		CUB	LE	4	4	3	31	23S	33E	630671	3569556	3833			
C_02277		CUB	LE	2	3	4	20	23S	33E	632663	3572970*	3913	550	400	150
C_02284		CUB	LE	4	2	4	26	23S	33E	637907	3571626*	4003	325	225	100
C_02283		CUB	LE	4	2	2	26	23S	33E	637896	3572431*	4472	325	225	100
C_02282		CUB	LE	3	1	1	25	23S	33E	638098	3572436*	4630	325	225	100
C_04014 POD5		CUB	LE	1	4	2	01	24S	33E	639284	3569086	4799	95	85	10
C_04014 POD4		CUB	LE	3	4	2	01	24S	33E	639295	3568859	4835	96	86	10
C_02430		CUB	LE	3	3	3	16	24S	33E	633377	3564732*	4915	643	415	228
C_02431		CUB	LE	4	4	4	17	24S	33E	633175	3564728*	4969	525	415	110
C_02432		CUB	LE	4	4	4	17	24S	33E	633175	3564728*	4969	640	415	225

Average Depth to Water: **376 feet**

Minimum Depth: **20 feet**

Maximum Depth: **1533 feet**

Record Count: 18

UTMNAD83 Radius Search (in meters):

Easting (X): 634504.18

Northing (Y): 3569516.1

Radius: 5000

*UTM location was derived from PLSS - see Help

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


6/22/22 2:33 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER



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 04595 POD1	4	3	3	34	23S	33E	635150	3569564 
<hr/>									
Driller License: 1249		Driller Company: ATKINS ENGINEERING ASSOC. INC.							
Driller Name: JACKIE ATKINS									
Drill Start Date: 03/09/2022		Drill Finish Date: 03/09/2022				Plug Date: 03/31/2022			
Log File Date: 04/04/2022		PCW Rev Date:				Source:			
Pump Type:		Pipe Discharge Size:				Estimated Yield:			
Casing Size:		Depth Well: 55 feet				Depth Water:			

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

11/15/22 8:46 AM

POINT OF DIVERSION SUMMARY



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

USGS Water Resources

Data Category:


Groundwater

Geographic Area:

United States

GO

Click to hide News Bulletins

- Effective October 24, 2022 hyperlinks to legacy Current Condition pages will automatically redirect users to the corresponding Monitoring Location page. Please see the [Water Data For The Nation Blog](#) for full details, including how to navigate back to the legacy Current Condition page, if desired.
- Explore the *NEW* [USGS National Water Dashboard](#) interactive map to access real-time water data from over 13,500 stations nationwide.
- [Full News](#) 

Groundwater levels for the Nation

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

Search Results -- 1 sites found

site_no list =

- 321348103340401

Minimum number of levels = 1

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

USGS 321348103340401 24S.33E.10.13123

Available data for this site

Groundwater: Field measurements

GO

Lea County, New Mexico

Hydrologic Unit Code 13070007

Latitude 32°14'04.9", Longitude 103°34'02.4" NAD83

Land-surface elevation 3,592 feet above NAVD88

The depth of the well is 36 feet below land surface.

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

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

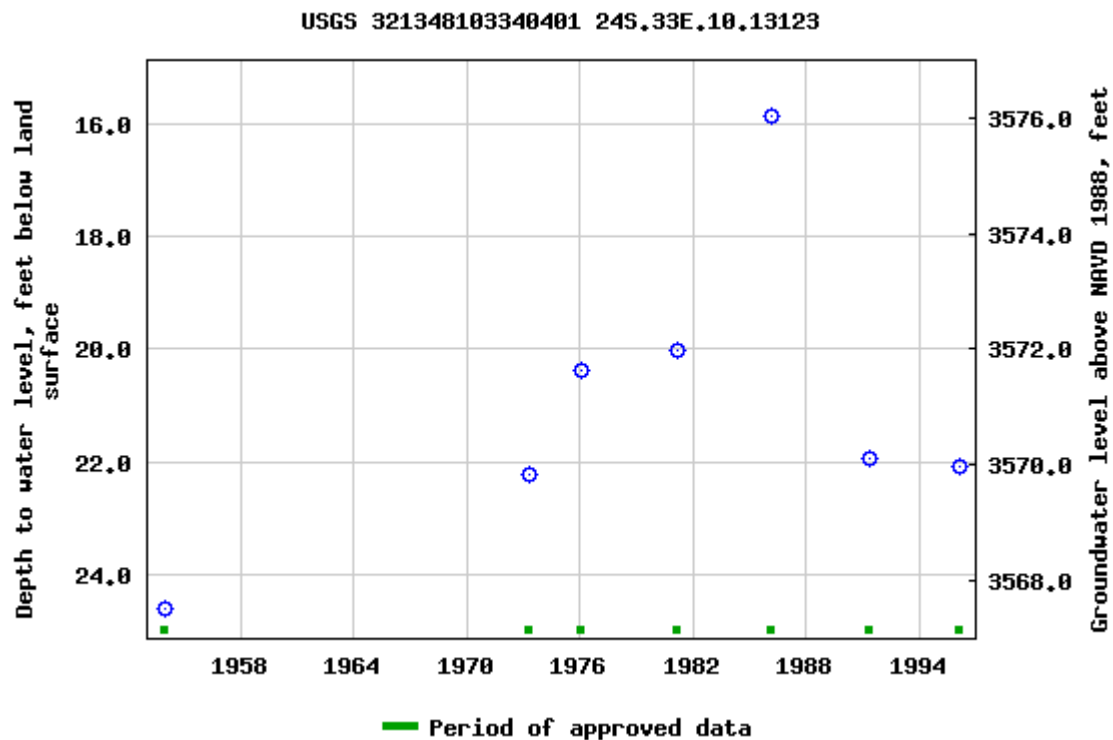
Output formats

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[Reselect period](#)



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

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Title: Groundwater for USA: Water Levels

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



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



Page Last Modified: 2022-11-15 11:18:41 EST

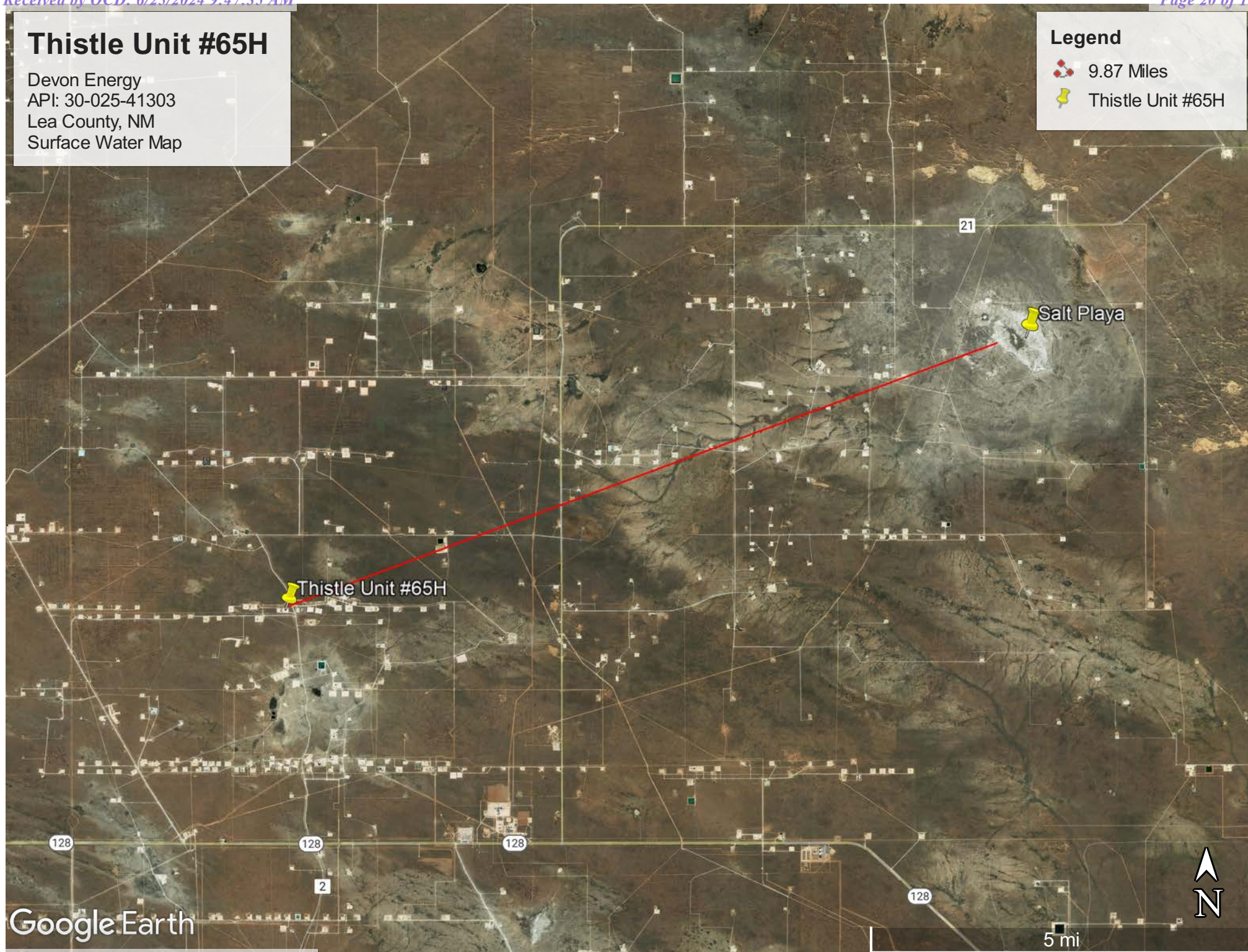
0.56 0.48 nadww02

Thistle Unit #65H

Devon Energy
API: 30-025-41303
Lea County, NM
Surface Water Map

Legend

-  9.87 Miles
-  Thistle Unit #65H



Google Earth



Pima Environmental Services

Appendix B

Soil Survey & Geological Data

FEMA Flood Map

Wetlands Map

Map Unit Description: Pyote and Maljamar fine sands---Lea County, New Mexico

Lea County, New Mexico

PU—Pyote and Maljamar fine sands

Map Unit Setting

National map unit symbol: dmqq

Elevation: 3,000 to 3,900 feet

Mean annual precipitation: 10 to 12 inches

Mean annual air temperature: 60 to 62 degrees F

Frost-free period: 190 to 205 days

Farmland classification: Not prime farmland

Map Unit Composition

Pyote and similar soils: 46 percent

Maljamar and similar soils: 44 percent

Minor components: 10 percent

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

Description of Pyote

Setting

Landform: Plains

Landform position (three-dimensional): Rise

Down-slope shape: Linear

Across-slope shape: Linear

Parent material: Sandy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 30 inches: fine sand

Bt - 30 to 60 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: Negligible

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: 5 percent

Gypsum, maximum content: 1 percent

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

Sodium adsorption ratio, maximum: 2.0

Available water supply, 0 to 60 inches: Low (about 5.1 inches)

Interpretive groups

Land capability classification (irrigated): 6e

Map Unit Description: Pyote and Maljamar fine sands---Lea County, New Mexico

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

Description of Maljamar

Setting

Landform: Plains
Landform position (three-dimensional): Rise
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Sandy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 24 inches: fine sand
Bt - 24 to 50 inches: sandy clay loam
Bkm - 50 to 60 inches: cemented material

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: 40 to 60 inches to petrocalcic
Drainage class: Well drained
Runoff class: Very low
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 5 percent
Gypsum, maximum content: 1 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 2.0
Available water supply, 0 to 60 inches: Low (about 5.6 inches)

Interpretive groups

Land capability classification (irrigated): 6e
Land capability classification (nonirrigated): 7e
Hydrologic Soil Group: B
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Minor Components

Kermit

Percent of map unit: 10 percent
Ecological site: R070BC022NM - Sandhills

Map Unit Description: Pyote and Maljamar fine sands---Lea County, New Mexico

Hydric soil rating: No

Data Source Information

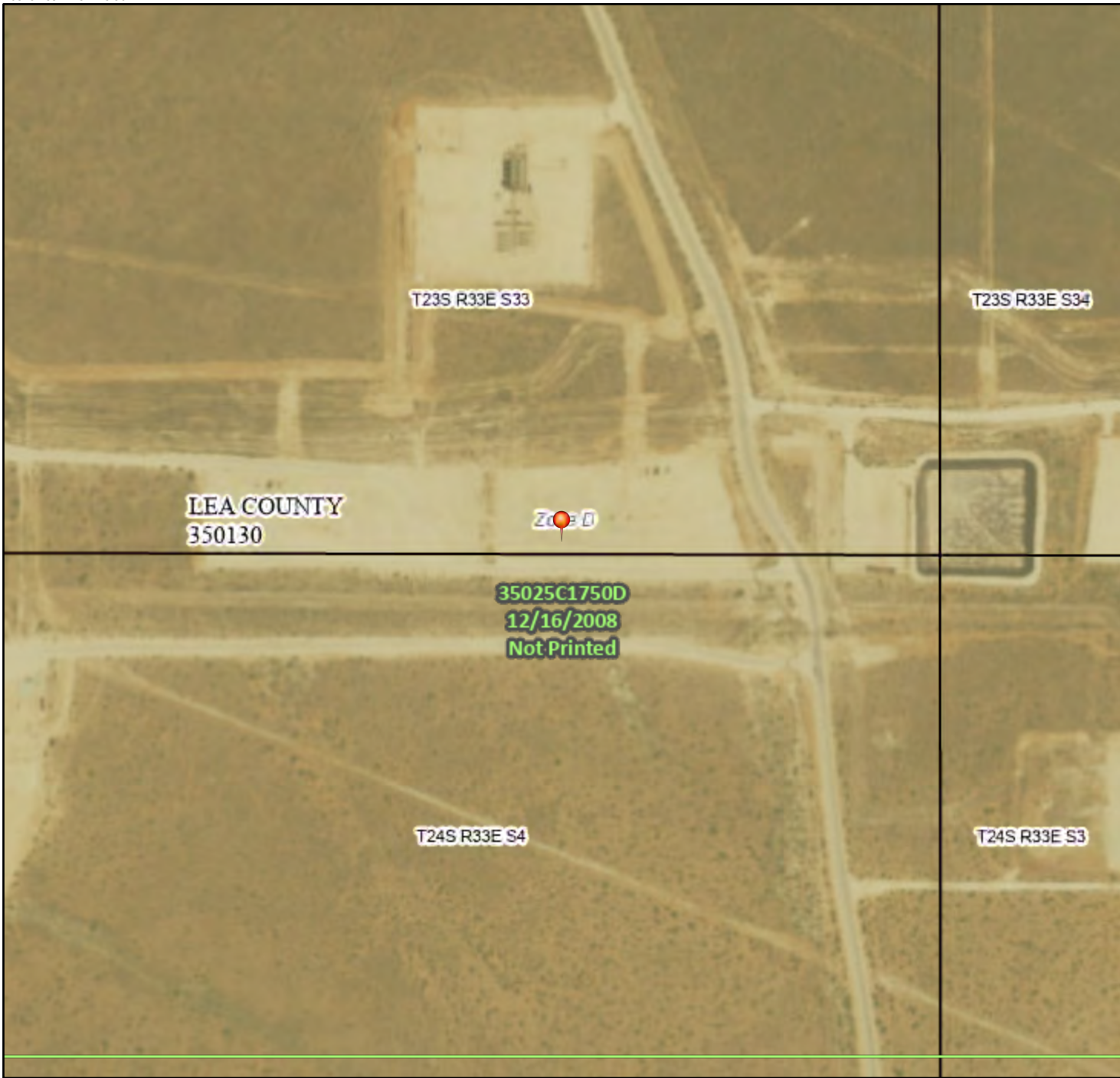
Soil Survey Area: Lea County, New Mexico

Survey Area Data: Version 19, Sep 8, 2022

National Flood Hazard Layer FIRMMette



103°34'39"W 32°15'30"N



Legend

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

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone D
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
		Area of Undetermined Flood Hazard Zone D
GENERAL STRUCTURES		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5 Cross Sections with 1% Annual Chance Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped

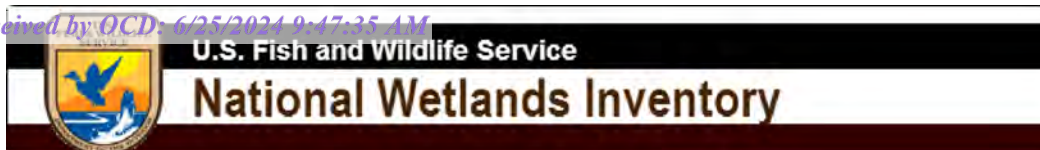


The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on **11/15/2022 at 11:42 AM** and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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



Wetlands Map



November 15, 2022

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

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

- Lake
- Other
- Riverine

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



Pima Environmental Services

Appendix C

C-141 Form

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

State of New Mexico
Energy Minerals and Natural
Resources Department

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

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

Incident ID	NRM2019860183
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	Devon Energy	OGRID	6137
Contact Name	Lupe Carrasco	Contact Telephone	575-748-0165
Contact email	lupe.carrasco@dvn.com	Incident # (assigned by OCD)	
Contact mailing address	6488 Seven Rivers Highway Artesia, NM 88210		

Location of Release Source

Latitude 32.2542877 Longitude -103.5721207
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Thistle Unit #65H	Site Type	Well
Date Release Discovered	7/6/20	API# (if applicable)	30-025-41303

Unit Letter	Section	Township	Range	County
P	33	23S	33E	Lea

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

Nature and Volume of Release

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

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 363	Volume Recovered (bbls) 301
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release
Release due to surface casing valve found open and flowing fluid. Valve handle was added to shut valve and wing valve. Vacuum trucks dispatched to recover standing fluid. Majority of fluid remained on location with some impacting outer edges of pad on east and southside.

Incident ID	NRM2019860183
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? > 25 barrels
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Notice was given by email per NMOCD portal by Lupe Carraso on 7/6/20 at 9:30am.	

Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why: 	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: <u>Lupe Carrasco</u>	Title: <u>EHS Professional</u>
Signature: <u>Lupe Carrasco</u>	Date: <u>7/8/20</u>
email: <u>Lupe.Carrasco@dvn.com</u>	Telephone: <u>575-748-0165</u>
<u>OCD Only</u>	
Received by: <u>Ramona Marcus</u>	Date: <u>7/16/2020</u>

Incident ID	NRM2019860183
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

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

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

Characterization Report Checklist: <i>Each of the following items must be included in the report.</i>
<input checked="" type="checkbox"/> Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
<input checked="" type="checkbox"/> Field data
<input checked="" type="checkbox"/> Data table of soil contaminant concentration data
<input checked="" type="checkbox"/> Depth to water determination
<input checked="" type="checkbox"/> Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
<input checked="" type="checkbox"/> Boring or excavation logs
<input checked="" type="checkbox"/> Photographs including date and GIS information
<input checked="" type="checkbox"/> Topographic/Aerial maps
<input checked="" type="checkbox"/> Laboratory data including chain of custody

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

State of New Mexico
Oil Conservation Division

Page 4

Incident ID	NRM2019860183
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: Dale Woodall Date: 4/21/2023

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

OCD Only

Received by: _____ Date: _____

Incident ID	NRM2019860183
District RP	
Facility ID	
Application ID	

Closure

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

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

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

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

Printed Name: Dale Woodall Title: Environmental Professional
Signature: Dale Woodall Date: 4/21/2023
email: dale.woodall@dvn.com Telephone: 575-748-1839

OCD Only

Received by: _____ Date: _____

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

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____



Pima Environmental Services

Appendix D

Photographic Documentation



SITE PHOTOGRAPHS

DEVON ENERGY

THISTLE UNIT #65H









+32.253916,-103.572150
Lea County
Devon Energy
Thistle Unit 65H
Flagging



+32.253916,-103.572150
Lea County
Devon Energy
Thistle Unit 65H
Flagging



+32.254425,-103.572157
Lea County
Devon Energy
Thistle Unit 65H
Flagging



+32.254313,-103.572142
Lea County
Devon Energy
Thistle Unit 65H
Flagging





Pima Environmental Services

Appendix E

Laboratory Reports

Report to:
Tom Bynum



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Pima Environmental Services-Carlsbad

Project Name: Thistle Unit 65 H

Work Order: E206232

Job Number: 01058-0007

Received: 6/29/2022

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
7/7/22

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 7/7/22

Tom Bynum
PO Box 247
Plains, TX 79355-0247



Project Name: Thistle Unit 65 H
Workorder: E206232
Date Received: 6/29/2022 8:00:00AM

Tom Bynum,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/29/2022 8:00:00AM, under the Project Name: Thistle Unit 65 H.

The analytical test results summarized in this report with the Project Name: Thistle Unit 65 H apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

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

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

Field Offices:

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

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

Envirotech Web Address: www.envirotech-inc.com

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Chain of Custody etc.

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Sample Summary

Pima Environmental Services-Carlsbad	Project Name:	Thistle Unit 65 H	Reported: 07/07/22 15:06
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BG-1	E206232-01A	Soil	06/27/22	06/29/22	Glass Jar, 4 oz.
BG-2	E206232-02A	Soil	06/27/22	06/29/22	Glass Jar, 4 oz.
SW-1	E206232-03A	Soil	06/27/22	06/29/22	Glass Jar, 4 oz.
SW-2	E206232-04A	Soil	06/27/22	06/29/22	Glass Jar, 4 oz.
SW-3	E206232-05A	Soil	06/27/22	06/29/22	Glass Jar, 4 oz.
SW-4	E206232-06A	Soil	06/27/22	06/29/22	Glass Jar, 4 oz.
SW-5	E206232-07A	Soil	06/27/22	06/29/22	Glass Jar, 4 oz.
S-1 1'	E206232-08A	Soil	06/27/22	06/29/22	Glass Jar, 4 oz.
S-1 4'	E206232-09A	Soil	06/27/22	06/29/22	Glass Jar, 4 oz.
S-2 1'	E206232-10A	Soil	06/27/22	06/29/22	Glass Jar, 4 oz.
S-2 4'	E206232-11A	Soil	06/27/22	06/29/22	Glass Jar, 4 oz.
S-3 1'	E206232-12A	Soil	06/27/22	06/29/22	Glass Jar, 4 oz.
S-4 1'	E206232-13A	Soil	06/27/22	06/29/22	Glass Jar, 4 oz.
S-5 1'	E206232-14A	Soil	06/27/22	06/29/22	Glass Jar, 4 oz.



Sample Data

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

Project Name: Thistle Unit 65 H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
7/7/2022 3:06:10PM

BG-1

E206232-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2228010	
Benzene	ND	0.0250	1	07/05/22	07/07/22	
Ethylbenzene	ND	0.0250	1	07/05/22	07/07/22	
Toluene	ND	0.0250	1	07/05/22	07/07/22	
o-Xylene	ND	0.0250	1	07/05/22	07/07/22	
p,m-Xylene	ND	0.0500	1	07/05/22	07/07/22	
Total Xylenes	ND	0.0250	1	07/05/22	07/07/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	91.2 %	70-130		07/05/22	07/07/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2228010	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/05/22	07/07/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.8 %	70-130		07/05/22	07/07/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2228003	
Diesel Range Organics (C10-C28)	ND	50.0	2	07/05/22	07/05/22	
Oil Range Organics (C28-C36)	ND	100	2	07/05/22	07/05/22	
<i>Surrogate: n-Nonane</i>						
	124 %	50-200		07/05/22	07/05/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: KL		Batch: 2228005	
Chloride	ND	20.0	1	07/05/22	07/06/22	



Sample Data

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

Project Name: Thistle Unit 65 H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
7/7/2022 3:06:10PM

BG-2

E206232-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2228010
Benzene	ND	0.0250	1	07/05/22	07/07/22	
Ethylbenzene	ND	0.0250	1	07/05/22	07/07/22	
Toluene	ND	0.0250	1	07/05/22	07/07/22	
o-Xylene	ND	0.0250	1	07/05/22	07/07/22	
p,m-Xylene	ND	0.0500	1	07/05/22	07/07/22	
Total Xylenes	ND	0.0250	1	07/05/22	07/07/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.5 %	70-130		07/05/22	07/07/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2228010
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/05/22	07/07/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.0 %	70-130		07/05/22	07/07/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2228003
Diesel Range Organics (C10-C28)	ND	50.0	2	07/05/22	07/05/22	
Oil Range Organics (C28-C36)	ND	100	2	07/05/22	07/05/22	
<i>Surrogate: n-Nonane</i>						
	127 %	50-200		07/05/22	07/05/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2228005
Chloride	ND	20.0	1	07/05/22	07/06/22	



Sample Data

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

Project Name: Thistle Unit 65 H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
7/7/2022 3:06:10PM

SW-1

E206232-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2228010
Benzene	ND	0.0250	1	07/05/22	07/07/22	
Ethylbenzene	ND	0.0250	1	07/05/22	07/07/22	
Toluene	ND	0.0250	1	07/05/22	07/07/22	
o-Xylene	ND	0.0250	1	07/05/22	07/07/22	
p,m-Xylene	ND	0.0500	1	07/05/22	07/07/22	
Total Xylenes	ND	0.0250	1	07/05/22	07/07/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.9 %	70-130		07/05/22	07/07/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2228010
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/05/22	07/07/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.0 %	70-130		07/05/22	07/07/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2228003
Diesel Range Organics (C10-C28)	ND	50.0	2	07/05/22	07/05/22	
Oil Range Organics (C28-C36)	ND	100	2	07/05/22	07/05/22	
<i>Surrogate: n-Nonane</i>						
	130 %	50-200		07/05/22	07/05/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2228005
Chloride	ND	20.0	1	07/05/22	07/06/22	



Sample Data

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

Project Name: Thistle Unit 65 H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
7/7/2022 3:06:10PM

SW-2

E206232-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2228010	
Benzene	ND	0.0250	1	07/05/22	07/07/22	
Ethylbenzene	ND	0.0250	1	07/05/22	07/07/22	
Toluene	ND	0.0250	1	07/05/22	07/07/22	
o-Xylene	ND	0.0250	1	07/05/22	07/07/22	
p,m-Xylene	ND	0.0500	1	07/05/22	07/07/22	
Total Xylenes	ND	0.0250	1	07/05/22	07/07/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	91.7 %	70-130		07/05/22	07/07/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2228010	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/05/22	07/07/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.1 %	70-130		07/05/22	07/07/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2228003	
Diesel Range Organics (C10-C28)	ND	50.0	2	07/05/22	07/05/22	
Oil Range Organics (C28-C36)	ND	100	2	07/05/22	07/05/22	
<i>Surrogate: n-Nonane</i>						
	129 %	50-200		07/05/22	07/05/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: KL		Batch: 2228005	
Chloride	ND	20.0	1	07/05/22	07/06/22	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Thistle Unit 65 H	Reported: 7/7/2022 3:06:10PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

SW-3

E206232-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2228010	
Benzene	ND	0.0250	1	07/05/22	07/07/22	
Ethylbenzene	ND	0.0250	1	07/05/22	07/07/22	
Toluene	ND	0.0250	1	07/05/22	07/07/22	
o-Xylene	ND	0.0250	1	07/05/22	07/07/22	
p,m-Xylene	ND	0.0500	1	07/05/22	07/07/22	
Total Xylenes	ND	0.0250	1	07/05/22	07/07/22	
Surrogate: 4-Bromochlorobenzene-PID	93.0 %	70-130		07/05/22	07/07/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2228010	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/05/22	07/07/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID	91.6 %	70-130		07/05/22	07/07/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2228003	
Diesel Range Organics (C10-C28)	ND	50.0	2	07/05/22	07/06/22	
Oil Range Organics (C28-C36)	ND	100	2	07/05/22	07/06/22	
Surrogate: n-Nonane	125 %	50-200		07/05/22	07/06/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: KL		Batch: 2228005	
Chloride	ND	20.0	1	07/05/22	07/06/22	



Sample Data

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

Project Name: Thistle Unit 65 H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
7/7/2022 3:06:10PM

SW-4

E206232-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2228010	
Benzene	ND	0.0250	1	07/05/22	07/07/22	
Ethylbenzene	ND	0.0250	1	07/05/22	07/07/22	
Toluene	ND	0.0250	1	07/05/22	07/07/22	
o-Xylene	ND	0.0250	1	07/05/22	07/07/22	
p,m-Xylene	ND	0.0500	1	07/05/22	07/07/22	
Total Xylenes	ND	0.0250	1	07/05/22	07/07/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	91.8 %	70-130		07/05/22	07/07/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2228010	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/05/22	07/07/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.4 %	70-130		07/05/22	07/07/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2228003	
Diesel Range Organics (C10-C28)	ND	50.0	2	07/05/22	07/06/22	
Oil Range Organics (C28-C36)	ND	100	2	07/05/22	07/06/22	
<i>Surrogate: n-Nonane</i>						
	124 %	50-200		07/05/22	07/06/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: KL		Batch: 2228005	
Chloride	ND	20.0	1	07/05/22	07/06/22	



Sample Data

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

Project Name: Thistle Unit 65 H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
7/7/2022 3:06:10PM

SW-5

E206232-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2228010
Benzene	ND	0.0250	1	07/05/22	07/07/22	
Ethylbenzene	ND	0.0250	1	07/05/22	07/07/22	
Toluene	ND	0.0250	1	07/05/22	07/07/22	
o-Xylene	ND	0.0250	1	07/05/22	07/07/22	
p,m-Xylene	ND	0.0500	1	07/05/22	07/07/22	
Total Xylenes	ND	0.0250	1	07/05/22	07/07/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	91.5 %	70-130		07/05/22	07/07/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2228010
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/05/22	07/07/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.9 %	70-130		07/05/22	07/07/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2228003
Diesel Range Organics (C10-C28)	ND	50.0	2	07/05/22	07/06/22	
Oil Range Organics (C28-C36)	ND	100	2	07/05/22	07/06/22	
<i>Surrogate: n-Nonane</i>						
	127 %	50-200		07/05/22	07/06/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2228005
Chloride	ND	20.0	1	07/05/22	07/06/22	



Sample Data

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

Project Name: Thistle Unit 65 H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
7/7/2022 3:06:10PM

S-1 1'

E206232-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2228010
Benzene	ND	0.0250	1	07/05/22	07/07/22	
Ethylbenzene	ND	0.0250	1	07/05/22	07/07/22	
Toluene	ND	0.0250	1	07/05/22	07/07/22	
o-Xylene	ND	0.0250	1	07/05/22	07/07/22	
p,m-Xylene	ND	0.0500	1	07/05/22	07/07/22	
Total Xylenes	ND	0.0250	1	07/05/22	07/07/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	91.7 %	70-130		07/05/22	07/07/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2228010
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/05/22	07/07/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.3 %	70-130		07/05/22	07/07/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2228003
Diesel Range Organics (C10-C28)	ND	25.0	1	07/05/22	07/06/22	
Oil Range Organics (C28-C36)	ND	50.0	1	07/05/22	07/06/22	
<i>Surrogate: n-Nonane</i>						
	112 %	50-200		07/05/22	07/06/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2228005
Chloride	197	20.0	1	07/05/22	07/06/22	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Thistle Unit 65 H	Reported: 7/7/2022 3:06:10PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

S-1 4'

E206232-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2228010	
Benzene	ND	0.0250	1	07/05/22	07/07/22	
Ethylbenzene	ND	0.0250	1	07/05/22	07/07/22	
Toluene	ND	0.0250	1	07/05/22	07/07/22	
o-Xylene	ND	0.0250	1	07/05/22	07/07/22	
p,m-Xylene	ND	0.0500	1	07/05/22	07/07/22	
Total Xylenes	ND	0.0250	1	07/05/22	07/07/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.7 %	70-130		07/05/22	07/07/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2228010	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/05/22	07/07/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	89.2 %	70-130		07/05/22	07/07/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2228003	
Diesel Range Organics (C10-C28)	ND	50.0	2	07/05/22	07/06/22	
Oil Range Organics (C28-C36)	ND	100	2	07/05/22	07/06/22	
<i>Surrogate: n-Nonane</i>						
	130 %	50-200		07/05/22	07/06/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: KL		Batch: 2228005	
Chloride	ND	20.0	1	07/05/22	07/06/22	



Sample Data

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

Project Name: Thistle Unit 65 H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
7/7/2022 3:06:10PM

S-2 1'

E206232-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2228010
Benzene	ND	0.0250	1	07/05/22	07/07/22	
Ethylbenzene	ND	0.0250	1	07/05/22	07/07/22	
Toluene	ND	0.0250	1	07/05/22	07/07/22	
o-Xylene	ND	0.0250	1	07/05/22	07/07/22	
p,m-Xylene	ND	0.0500	1	07/05/22	07/07/22	
Total Xylenes	ND	0.0250	1	07/05/22	07/07/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.7 %	70-130		07/05/22	07/07/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2228010
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/05/22	07/07/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	89.7 %	70-130		07/05/22	07/07/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2228003
Diesel Range Organics (C10-C28)	ND	25.0	1	07/05/22	07/06/22	
Oil Range Organics (C28-C36)	ND	50.0	1	07/05/22	07/06/22	
<i>Surrogate: n-Nonane</i>						
	114 %	50-200		07/05/22	07/06/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2228005
Chloride	120	20.0	1	07/05/22	07/06/22	



Sample Data

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

Project Name: Thistle Unit 65 H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
7/7/2022 3:06:10PM

S-2 4'

E206232-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2228010
Benzene	ND	0.0250	1	07/05/22	07/07/22	
Ethylbenzene	ND	0.0250	1	07/05/22	07/07/22	
Toluene	ND	0.0250	1	07/05/22	07/07/22	
o-Xylene	ND	0.0250	1	07/05/22	07/07/22	
p,m-Xylene	ND	0.0500	1	07/05/22	07/07/22	
Total Xylenes	ND	0.0250	1	07/05/22	07/07/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.9 %	70-130		07/05/22	07/07/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2228010
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/05/22	07/07/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	89.3 %	70-130		07/05/22	07/07/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2228003
Diesel Range Organics (C10-C28)	ND	50.0	2	07/05/22	07/06/22	
Oil Range Organics (C28-C36)	ND	100	2	07/05/22	07/06/22	
<i>Surrogate: n-Nonane</i>						
	135 %	50-200		07/05/22	07/06/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2228005
Chloride	ND	20.0	1	07/05/22	07/06/22	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Thistle Unit 65 H	Reported: 7/7/2022 3:06:10PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

S-3 1'

E206232-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2228010	
Benzene	ND	0.0250	1	07/05/22	07/07/22	
Ethylbenzene	ND	0.0250	1	07/05/22	07/07/22	
Toluene	ND	0.0250	1	07/05/22	07/07/22	
o-Xylene	ND	0.0250	1	07/05/22	07/07/22	
p,m-Xylene	ND	0.0500	1	07/05/22	07/07/22	
Total Xylenes	ND	0.0250	1	07/05/22	07/07/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.5 %	70-130		07/05/22	07/07/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2228010	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/05/22	07/07/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.4 %	70-130		07/05/22	07/07/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2228003	
Diesel Range Organics (C10-C28)	ND	50.0	2	07/05/22	07/06/22	
Oil Range Organics (C28-C36)	ND	100	2	07/05/22	07/06/22	
<i>Surrogate: n-Nonane</i>						
	130 %	50-200		07/05/22	07/06/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: KL		Batch: 2228005	
Chloride	ND	20.0	1	07/05/22	07/06/22	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Thistle Unit 65 H	Reported: 7/7/2022 3:06:10PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

S-4 1'

E206232-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2228010	
Benzene	ND	0.0250	1	07/05/22	07/07/22	
Ethylbenzene	ND	0.0250	1	07/05/22	07/07/22	
Toluene	ND	0.0250	1	07/05/22	07/07/22	
o-Xylene	ND	0.0250	1	07/05/22	07/07/22	
p,m-Xylene	ND	0.0500	1	07/05/22	07/07/22	
Total Xylenes	ND	0.0250	1	07/05/22	07/07/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	91.9 %	70-130		07/05/22	07/07/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2228010	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/05/22	07/07/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.5 %	70-130		07/05/22	07/07/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2228003	
Diesel Range Organics (C10-C28)	ND	50.0	2	07/05/22	07/06/22	
Oil Range Organics (C28-C36)	ND	100	2	07/05/22	07/06/22	
<i>Surrogate: n-Nonane</i>						
	131 %	50-200		07/05/22	07/06/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: KL		Batch: 2228005	
Chloride	ND	20.0	1	07/05/22	07/06/22	



Sample Data

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

Project Name: Thistle Unit 65 H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
7/7/2022 3:06:10PM

S-5 1'

E206232-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2228010
Benzene	ND	0.0250	1	07/05/22	07/07/22	
Ethylbenzene	ND	0.0250	1	07/05/22	07/07/22	
Toluene	ND	0.0250	1	07/05/22	07/07/22	
o-Xylene	ND	0.0250	1	07/05/22	07/07/22	
p,m-Xylene	ND	0.0500	1	07/05/22	07/07/22	
Total Xylenes	ND	0.0250	1	07/05/22	07/07/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.3 %	70-130		07/05/22	07/07/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2228010
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/05/22	07/07/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.7 %	70-130		07/05/22	07/07/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2228003
Diesel Range Organics (C10-C28)	ND	50.0	2	07/05/22	07/06/22	
Oil Range Organics (C28-C36)	ND	100	2	07/05/22	07/06/22	
<i>Surrogate: n-Nonane</i>						
	126 %	50-200		07/05/22	07/06/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2228005
Chloride	ND	20.0	1	07/05/22	07/06/22	



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Thistle Unit 65 H	Reported: 7/7/2022 3:06:10PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

Volatile Organics by EPA 8021B

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2228010-BLK1)

Prepared: 07/05/22 Analyzed: 07/07/22

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.31		8.00		91.4	70-130			

LCS (2228010-BS1)

Prepared: 07/05/22 Analyzed: 07/07/22

Benzene	5.09	0.0250	5.00		102	70-130			
Ethylbenzene	4.51	0.0250	5.00		90.3	70-130			
Toluene	4.82	0.0250	5.00		96.4	70-130			
o-Xylene	4.67	0.0250	5.00		93.4	70-130			
p,m-Xylene	9.30	0.0500	10.0		93.0	70-130			
Total Xylenes	14.0	0.0250	15.0		93.1	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.44		8.00		93.0	70-130			

LCS Dup (2228010-BSD1)

Prepared: 07/05/22 Analyzed: 07/07/22

Benzene	5.14	0.0250	5.00		103	70-130	0.995	20	
Ethylbenzene	4.56	0.0250	5.00		91.2	70-130	1.04	20	
Toluene	4.87	0.0250	5.00		97.4	70-130	1.11	20	
o-Xylene	4.73	0.0250	5.00		94.5	70-130	1.18	20	
p,m-Xylene	9.40	0.0500	10.0		94.0	70-130	1.04	20	
Total Xylenes	14.1	0.0250	15.0		94.2	70-130	1.08	20	
Surrogate: 4-Bromochlorobenzene-PID	7.47		8.00		93.3	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Thistle Unit 65 H	Reported: 7/7/2022 3:06:10PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2228010-BLK1)					Prepared: 07/05/22 Analyzed: 07/07/22				
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.20		8.00		90.1	70-130			

LCS (2228010-BS2)					Prepared: 07/05/22 Analyzed: 07/07/22				
Gasoline Range Organics (C6-C10)	45.1	20.0	50.0		90.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.43		8.00		92.8	70-130			

LCS Dup (2228010-BSD2)					Prepared: 07/05/22 Analyzed: 07/07/22				
Gasoline Range Organics (C6-C10)	48.1	20.0	50.0		96.2	70-130	6.39	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.40		8.00		92.5	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Thistle Unit 65 H	Reported: 7/7/2022 3:06:10PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2228003-BLK1)					Prepared: 07/05/22 Analyzed: 07/05/22				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	55.2		50.0		110	50-200			

LCS (2228003-BS1)					Prepared: 07/05/22 Analyzed: 07/05/22				
Diesel Range Organics (C10-C28)	553	25.0	500		111	38-132			
Surrogate: n-Nonane	55.3		50.0		111	50-200			

Matrix Spike (2228003-MS1)					Source: E206232-09		Prepared: 07/05/22 Analyzed: 07/05/22		
Diesel Range Organics (C10-C28)	698	50.0	500	ND	140	38-132			M2
Surrogate: n-Nonane	74.3		50.0		149	50-200			

Matrix Spike Dup (2228003-MSD1)					Source: E206232-09		Prepared: 07/05/22 Analyzed: 07/05/22		
Diesel Range Organics (C10-C28)	654	50.0	500	ND	131	38-132	6.53	20	
Surrogate: n-Nonane	68.6		50.0		137	50-200			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Thistle Unit 65 H	Reported: 7/7/2022 3:06:10PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

Anions by EPA 300.0/9056A

Analyst: KL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2228005-BLK1)					Prepared: 07/05/22 Analyzed: 07/06/22				
Chloride	ND	20.0							
LCS (2228005-BS1)					Prepared: 07/05/22 Analyzed: 07/06/22				
Chloride	251	20.0	250		101	90-110			
Matrix Spike (2228005-MS1)					Source: E206232-01		Prepared: 07/05/22 Analyzed: 07/06/22		
Chloride	251	20.0	250	ND	100	80-120			
Matrix Spike Dup (2228005-MSD1)					Source: E206232-01		Prepared: 07/05/22 Analyzed: 07/06/22		
Chloride	250	20.0	250	ND	99.9	80-120	0.542	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:	Thistle Unit 65 H	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	07/07/22 15:06

- 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 2

Client: Pima Environmental Services					Bill To					Lab Use Only					TAT				EPA Program					
Project: <u>Thistle Unit 65 H</u>					Attention: <u>Devon Energy</u>					Lab WO# <u>E2006232</u>					Job Number <u>0058-0007</u>				1D	2D	3D	Standard	CWA	SDWA
Project Manager: Tom Bynum					Address:					Analysis and Method					<input checked="" type="checkbox"/>				RCRA					
Address: 5614 N. Lovington Hwy.					City, State, Zip																			
City, State, Zip: Hobbs, NM, 88240					Phone:					DRO/PRO by 8015 GRO/PRO by 8015 BTEX by 8021 VOC by 8260 Metals 6010 Chloride 300.0 NM TX					State									
Phone: 580-748-1613					Email:										NM	CO	UT	AZ	TX					
Email: tom@pimaoil.com					Pima Project # <u>157</u>										Remarks									
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number																			
9:00	6/27/22	S		BG-1	1																			
9:05				BG-2	2																			
9:10				SW-1	3																			
9:15				SW-2	4																			
9:20				SW-3	5																			
9:25				SW-4	6																			
9:30				SW-5	7																			
9:35				S-1 1'	8																			
9:40				S-1 4'	9																			
9:45				S-2 1'	10																			
Additional Instructions: <u>Bill To Devon Energy - 208 800 103</u>																								
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																								
Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.																								
Relinquished by: (Signature) <u>Red Rojers</u>					Date <u>6/28/22</u> Time <u>1:00 P</u>					Received by: (Signature) <u>Rudy Alvarez</u>					Date <u>6/28/22</u> Time <u>1:30</u>									
Relinquished by: (Signature) <u>Red Rojers</u>					Date <u>6/28/22</u> Time <u>4:15 P</u>					Received by: (Signature) <u>Keith Chute</u>					Date <u>6/29/22</u> Time <u>8:00</u>									
Relinquished by: (Signature)					Date					Received by: (Signature)					Date									
Lab Use Only																								
Received on ice: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N																								
T1 _____ T2 _____ T3 _____																								
AVG Temp °C <u>4</u>																								
Sample Matrix: <input checked="" type="checkbox"/> S - Soil, <input type="checkbox"/> Sd - Solid, <input type="checkbox"/> Sg - Sludge, <input type="checkbox"/> A - Aqueous, <input type="checkbox"/> O - Other																								
Container Type: <input checked="" type="checkbox"/> g - glass, <input type="checkbox"/> p - poly/plastic, <input type="checkbox"/> ag - amber glass, <input type="checkbox"/> v - VOA																								
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																								



Envirotech Analytical Laboratory

Printed: 6/30/2022 8:48:48AM

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:	06/29/22 08:00	Work Order ID:	E206232
Phone:	(575) 631-6977	Date Logged In:	06/29/22 10:14	Logged In By:	Caitlin Christian
Email:	tom@pimaoil.com	Due Date:	07/06/22 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:
Tom Bynum



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Pima Environmental Services-Carlsbad

Project Name: Thistle Unit 65 H

Work Order: E207054

Job Number: 01058-0007

Received: 7/13/2022

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
7/18/22

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 7/18/22

Tom Bynum
PO Box 247
Plains, TX 79355-0247



Project Name: Thistle Unit 65 H
Workorder: E207054
Date Received: 7/13/2022 10:23:00AM

Tom Bynum,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/13/2022 10:23:00AM, under the Project Name: Thistle Unit 65 H.

The analytical test results summarized in this report with the Project Name: Thistle Unit 65 H apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

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

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

Field Offices:

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

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

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Pima Environmental Services-Carlsbad	Project Name:	Thistle Unit 65 H	Reported: 07/18/22 16:48
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
S-1 1'	E207054-01A	Soil	07/11/22	07/13/22	Glass Jar, 4 oz.
S-1 3'	E207054-02A	Soil	07/11/22	07/13/22	Glass Jar, 4 oz.
S-2 1'	E207054-03A	Soil	07/11/22	07/13/22	Glass Jar, 4 oz.
S-2 3'	E207054-04A	Soil	07/11/22	07/13/22	Glass Jar, 4 oz.
S-3 1'	E207054-05A	Soil	07/11/22	07/13/22	Glass Jar, 4 oz.
S-3 3'	E207054-06A	Soil	07/11/22	07/13/22	Glass Jar, 4 oz.
S-4 1'	E207054-07A	Soil	07/11/22	07/13/22	Glass Jar, 4 oz.
S-4 3'	E207054-08A	Soil	07/11/22	07/13/22	Glass Jar, 4 oz.
S-5 1'	E207054-09A	Soil	07/11/22	07/13/22	Glass Jar, 4 oz.
S-5 3'	E207054-10A	Soil	07/11/22	07/13/22	Glass Jar, 4 oz.



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Thistle Unit 65 H	Reported: 7/18/2022 4:48:35PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

S-1 1'

E207054-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY		Batch: 2229055	
Benzene	ND	0.0250	1	07/13/22	07/15/22	
Ethylbenzene	ND	0.0250	1	07/13/22	07/15/22	
Toluene	ND	0.0250	1	07/13/22	07/15/22	
o-Xylene	ND	0.0250	1	07/13/22	07/15/22	
p,m-Xylene	ND	0.0500	1	07/13/22	07/15/22	
Total Xylenes	ND	0.0250	1	07/13/22	07/15/22	
Surrogate: Bromofluorobenzene	95.5 %	70-130		07/13/22	07/15/22	
Surrogate: 1,2-Dichloroethane-d4	104 %	70-130		07/13/22	07/15/22	
Surrogate: Toluene-d8	95.0 %	70-130		07/13/22	07/15/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2229055	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/13/22	07/15/22	
Surrogate: Bromofluorobenzene	95.5 %	70-130		07/13/22	07/15/22	
Surrogate: 1,2-Dichloroethane-d4	104 %	70-130		07/13/22	07/15/22	
Surrogate: Toluene-d8	95.0 %	70-130		07/13/22	07/15/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2229066	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/14/22	07/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	07/14/22	07/15/22	
Surrogate: n-Nonane	105 %	50-200		07/14/22	07/15/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS		Batch: 2229052	
Chloride	ND	20.0	1	07/13/22	07/15/22	



Sample Data

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

Project Name: Thistle Unit 65 H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
7/18/2022 4:48:35PM

S-1 3'

E207054-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2229055
Benzene	ND	0.0250	1	07/13/22	07/15/22	
Ethylbenzene	ND	0.0250	1	07/13/22	07/15/22	
Toluene	ND	0.0250	1	07/13/22	07/15/22	
o-Xylene	ND	0.0250	1	07/13/22	07/15/22	
p,m-Xylene	ND	0.0500	1	07/13/22	07/15/22	
Total Xylenes	ND	0.0250	1	07/13/22	07/15/22	
Surrogate: Bromofluorobenzene	96.5 %	70-130		07/13/22	07/15/22	
Surrogate: 1,2-Dichloroethane-d4	107 %	70-130		07/13/22	07/15/22	
Surrogate: Toluene-d8	93.2 %	70-130		07/13/22	07/15/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2229055
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/13/22	07/15/22	
Surrogate: Bromofluorobenzene	96.5 %	70-130		07/13/22	07/15/22	
Surrogate: 1,2-Dichloroethane-d4	107 %	70-130		07/13/22	07/15/22	
Surrogate: Toluene-d8	93.2 %	70-130		07/13/22	07/15/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2229066
Diesel Range Organics (C10-C28)	ND	25.0	1	07/14/22	07/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	07/14/22	07/15/22	
Surrogate: n-Nonane	110 %	50-200		07/14/22	07/15/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2229052
Chloride	ND	20.0	1	07/13/22	07/15/22	



Sample Data

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

Project Name: Thistle Unit 65 H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
7/18/2022 4:48:35PM

S-2 1'

E207054-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2229055
Benzene	ND	0.0250	1	07/13/22	07/15/22	
Ethylbenzene	ND	0.0250	1	07/13/22	07/15/22	
Toluene	ND	0.0250	1	07/13/22	07/15/22	
o-Xylene	ND	0.0250	1	07/13/22	07/15/22	
p,m-Xylene	ND	0.0500	1	07/13/22	07/15/22	
Total Xylenes	ND	0.0250	1	07/13/22	07/15/22	
Surrogate: Bromofluorobenzene	95.8 %	70-130		07/13/22	07/15/22	
Surrogate: 1,2-Dichloroethane-d4	108 %	70-130		07/13/22	07/15/22	
Surrogate: Toluene-d8	93.5 %	70-130		07/13/22	07/15/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2229055
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/13/22	07/15/22	
Surrogate: Bromofluorobenzene	95.8 %	70-130		07/13/22	07/15/22	
Surrogate: 1,2-Dichloroethane-d4	108 %	70-130		07/13/22	07/15/22	
Surrogate: Toluene-d8	93.5 %	70-130		07/13/22	07/15/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2229066
Diesel Range Organics (C10-C28)	ND	25.0	1	07/14/22	07/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	07/14/22	07/15/22	
Surrogate: n-Nonane	97.9 %	50-200		07/14/22	07/15/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2229052
Chloride	ND	20.0	1	07/13/22	07/15/22	



Sample Data

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

Project Name: Thistle Unit 65 H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
7/18/2022 4:48:35PM

S-2 3'

E207054-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2229055
Benzene	ND	0.0250	1	07/13/22	07/15/22	
Ethylbenzene	ND	0.0250	1	07/13/22	07/15/22	
Toluene	ND	0.0250	1	07/13/22	07/15/22	
o-Xylene	ND	0.0250	1	07/13/22	07/15/22	
p,m-Xylene	ND	0.0500	1	07/13/22	07/15/22	
Total Xylenes	ND	0.0250	1	07/13/22	07/15/22	
Surrogate: Bromofluorobenzene	95.4 %	70-130		07/13/22	07/15/22	
Surrogate: 1,2-Dichloroethane-d4	111 %	70-130		07/13/22	07/15/22	
Surrogate: Toluene-d8	94.1 %	70-130		07/13/22	07/15/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2229055
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/13/22	07/15/22	
Surrogate: Bromofluorobenzene	95.4 %	70-130		07/13/22	07/15/22	
Surrogate: 1,2-Dichloroethane-d4	111 %	70-130		07/13/22	07/15/22	
Surrogate: Toluene-d8	94.1 %	70-130		07/13/22	07/15/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2229066
Diesel Range Organics (C10-C28)	ND	25.0	1	07/14/22	07/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	07/14/22	07/15/22	
Surrogate: n-Nonane	100 %	50-200		07/14/22	07/15/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2229052
Chloride	ND	20.0	1	07/13/22	07/15/22	



Sample Data

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

Project Name: Thistle Unit 65 H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
7/18/2022 4:48:35PM

S-3 1'

E207054-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2229055
Benzene	ND	0.0250	1	07/13/22	07/15/22	
Ethylbenzene	ND	0.0250	1	07/13/22	07/15/22	
Toluene	ND	0.0250	1	07/13/22	07/15/22	
o-Xylene	ND	0.0250	1	07/13/22	07/15/22	
p,m-Xylene	ND	0.0500	1	07/13/22	07/15/22	
Total Xylenes	ND	0.0250	1	07/13/22	07/15/22	
Surrogate: Bromofluorobenzene	94.8 %	70-130		07/13/22	07/15/22	
Surrogate: 1,2-Dichloroethane-d4	107 %	70-130		07/13/22	07/15/22	
Surrogate: Toluene-d8	93.5 %	70-130		07/13/22	07/15/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2229055
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/13/22	07/15/22	
Surrogate: Bromofluorobenzene	94.8 %	70-130		07/13/22	07/15/22	
Surrogate: 1,2-Dichloroethane-d4	107 %	70-130		07/13/22	07/15/22	
Surrogate: Toluene-d8	93.5 %	70-130		07/13/22	07/15/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2229066
Diesel Range Organics (C10-C28)	ND	25.0	1	07/14/22	07/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	07/14/22	07/15/22	
Surrogate: n-Nonane	107 %	50-200		07/14/22	07/15/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2229052
Chloride	ND	20.0	1	07/13/22	07/15/22	



Sample Data

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

Project Name: Thistle Unit 65 H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
7/18/2022 4:48:35PM

S-3 3'

E207054-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2229055
Benzene	ND	0.0250	1	07/13/22	07/15/22	
Ethylbenzene	ND	0.0250	1	07/13/22	07/15/22	
Toluene	ND	0.0250	1	07/13/22	07/15/22	
o-Xylene	ND	0.0250	1	07/13/22	07/15/22	
p,m-Xylene	ND	0.0500	1	07/13/22	07/15/22	
Total Xylenes	ND	0.0250	1	07/13/22	07/15/22	
Surrogate: Bromofluorobenzene	93.4 %	70-130		07/13/22	07/15/22	
Surrogate: 1,2-Dichloroethane-d4	107 %	70-130		07/13/22	07/15/22	
Surrogate: Toluene-d8	92.2 %	70-130		07/13/22	07/15/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2229055
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/13/22	07/15/22	
Surrogate: Bromofluorobenzene	93.4 %	70-130		07/13/22	07/15/22	
Surrogate: 1,2-Dichloroethane-d4	107 %	70-130		07/13/22	07/15/22	
Surrogate: Toluene-d8	92.2 %	70-130		07/13/22	07/15/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2229066
Diesel Range Organics (C10-C28)	ND	25.0	1	07/14/22	07/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	07/14/22	07/15/22	
Surrogate: n-Nonane	136 %	50-200		07/14/22	07/15/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2229052
Chloride	ND	20.0	1	07/13/22	07/15/22	



Sample Data

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

Project Name: Thistle Unit 65 H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
7/18/2022 4:48:35PM

S-4 1'

E207054-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2229055
Benzene	ND	0.0250	1	07/13/22	07/15/22	
Ethylbenzene	ND	0.0250	1	07/13/22	07/15/22	
Toluene	ND	0.0250	1	07/13/22	07/15/22	
o-Xylene	ND	0.0250	1	07/13/22	07/15/22	
p,m-Xylene	ND	0.0500	1	07/13/22	07/15/22	
Total Xylenes	ND	0.0250	1	07/13/22	07/15/22	
Surrogate: Bromofluorobenzene	95.8 %	70-130		07/13/22	07/15/22	
Surrogate: 1,2-Dichloroethane-d4	109 %	70-130		07/13/22	07/15/22	
Surrogate: Toluene-d8	92.7 %	70-130		07/13/22	07/15/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2229055
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/13/22	07/15/22	
Surrogate: Bromofluorobenzene	95.8 %	70-130		07/13/22	07/15/22	
Surrogate: 1,2-Dichloroethane-d4	109 %	70-130		07/13/22	07/15/22	
Surrogate: Toluene-d8	92.7 %	70-130		07/13/22	07/15/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2229066
Diesel Range Organics (C10-C28)	ND	25.0	1	07/14/22	07/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	07/14/22	07/15/22	
Surrogate: n-Nonane	118 %	50-200		07/14/22	07/15/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2229052
Chloride	ND	20.0	1	07/13/22	07/15/22	



Sample Data

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

Project Name: Thistle Unit 65 H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
7/18/2022 4:48:35PM

S-4 3'

E207054-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2229055
Benzene	ND	0.0250	1	07/13/22	07/15/22	
Ethylbenzene	ND	0.0250	1	07/13/22	07/15/22	
Toluene	ND	0.0250	1	07/13/22	07/15/22	
o-Xylene	ND	0.0250	1	07/13/22	07/15/22	
p,m-Xylene	ND	0.0500	1	07/13/22	07/15/22	
Total Xylenes	ND	0.0250	1	07/13/22	07/15/22	
Surrogate: Bromofluorobenzene	96.3 %	70-130		07/13/22	07/15/22	
Surrogate: 1,2-Dichloroethane-d4	108 %	70-130		07/13/22	07/15/22	
Surrogate: Toluene-d8	93.9 %	70-130		07/13/22	07/15/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2229055
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/13/22	07/15/22	
Surrogate: Bromofluorobenzene	96.3 %	70-130		07/13/22	07/15/22	
Surrogate: 1,2-Dichloroethane-d4	108 %	70-130		07/13/22	07/15/22	
Surrogate: Toluene-d8	93.9 %	70-130		07/13/22	07/15/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2229066
Diesel Range Organics (C10-C28)	ND	25.0	1	07/14/22	07/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	07/14/22	07/15/22	
Surrogate: n-Nonane	111 %	50-200		07/14/22	07/15/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2229052
Chloride	ND	20.0	1	07/13/22	07/15/22	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Thistle Unit 65 H	Reported: 7/18/2022 4:48:35PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

S-5 1'

E207054-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2229055	
Benzene	ND	0.0250	1	07/13/22	07/15/22	
Ethylbenzene	ND	0.0250	1	07/13/22	07/15/22	
Toluene	ND	0.0250	1	07/13/22	07/15/22	
o-Xylene	ND	0.0250	1	07/13/22	07/15/22	
p,m-Xylene	ND	0.0500	1	07/13/22	07/15/22	
Total Xylenes	ND	0.0250	1	07/13/22	07/15/22	
Surrogate: Bromofluorobenzene	94.9 %	70-130		07/13/22	07/15/22	
Surrogate: 1,2-Dichloroethane-d4	107 %	70-130		07/13/22	07/15/22	
Surrogate: Toluene-d8	93.6 %	70-130		07/13/22	07/15/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2229055	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/13/22	07/15/22	
Surrogate: Bromofluorobenzene	94.9 %	70-130		07/13/22	07/15/22	
Surrogate: 1,2-Dichloroethane-d4	107 %	70-130		07/13/22	07/15/22	
Surrogate: Toluene-d8	93.6 %	70-130		07/13/22	07/15/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2229066	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/14/22	07/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	07/14/22	07/15/22	
Surrogate: n-Nonane	116 %	50-200		07/14/22	07/15/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2229052	
Chloride	ND	20.0	1	07/13/22	07/15/22	



Sample Data

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

Project Name: Thistle Unit 65 H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
7/18/2022 4:48:35PM

S-5 3'

E207054-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2229055
Benzene	ND	0.0250	1	07/13/22	07/15/22	
Ethylbenzene	ND	0.0250	1	07/13/22	07/15/22	
Toluene	ND	0.0250	1	07/13/22	07/15/22	
o-Xylene	ND	0.0250	1	07/13/22	07/15/22	
p,m-Xylene	ND	0.0500	1	07/13/22	07/15/22	
Total Xylenes	ND	0.0250	1	07/13/22	07/15/22	
Surrogate: Bromofluorobenzene	93.8 %	70-130		07/13/22	07/15/22	
Surrogate: 1,2-Dichloroethane-d4	106 %	70-130		07/13/22	07/15/22	
Surrogate: Toluene-d8	92.6 %	70-130		07/13/22	07/15/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2229055
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/13/22	07/15/22	
Surrogate: Bromofluorobenzene	93.8 %	70-130		07/13/22	07/15/22	
Surrogate: 1,2-Dichloroethane-d4	106 %	70-130		07/13/22	07/15/22	
Surrogate: Toluene-d8	92.6 %	70-130		07/13/22	07/15/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2229066
Diesel Range Organics (C10-C28)	ND	25.0	1	07/14/22	07/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	07/14/22	07/15/22	
Surrogate: n-Nonane	115 %	50-200		07/14/22	07/15/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2229052
Chloride	ND	20.0	1	07/13/22	07/15/22	



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Thistle Unit 65 H	Reported: 7/18/2022 4:48:35PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

Volatile Organic Compounds by EPA 8260B

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2229055-BLK1) Prepared: 07/13/22 Analyzed: 07/15/22

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.510		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.547		0.500		109	70-130			
Surrogate: Toluene-d8	0.463		0.500		92.5	70-130			

LCS (2229055-BS1) Prepared: 07/13/22 Analyzed: 07/15/22

Benzene	2.38	0.0250	2.50		95.4	70-130			
Ethylbenzene	2.42	0.0250	2.50		96.9	70-130			
Toluene	2.38	0.0250	2.50		95.4	70-130			
o-Xylene	2.53	0.0250	2.50		101	70-130			
p,m-Xylene	4.89	0.0500	5.00		97.9	70-130			
Total Xylenes	7.42	0.0250	7.50		99.0	70-130			
Surrogate: Bromofluorobenzene	0.499		0.500		99.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.530		0.500		106	70-130			
Surrogate: Toluene-d8	0.490		0.500		98.0	70-130			

LCS Dup (2229055-BSD1) Prepared: 07/13/22 Analyzed: 07/15/22

Benzene	2.26	0.0250	2.50		90.5	70-130	5.21	23	
Ethylbenzene	2.32	0.0250	2.50		92.6	70-130	4.50	27	
Toluene	2.29	0.0250	2.50		91.4	70-130	4.22	24	
o-Xylene	2.42	0.0250	2.50		96.8	70-130	4.51	27	
p,m-Xylene	4.71	0.0500	5.00		94.1	70-130	3.90	27	
Total Xylenes	7.13	0.0250	7.50		95.0	70-130	4.10	27	
Surrogate: Bromofluorobenzene	0.499		0.500		99.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.526		0.500		105	70-130			
Surrogate: Toluene-d8	0.490		0.500		97.9	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Thistle Unit 65 H	Reported: 7/18/2022 4:48:35PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec % %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2229055-BLK1) Prepared: 07/13/22 Analyzed: 07/15/22

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.510		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.547		0.500		109	70-130			
Surrogate: Toluene-d8	0.463		0.500		92.5	70-130			

LCS (2229055-BS2) Prepared: 07/13/22 Analyzed: 07/15/22

Gasoline Range Organics (C6-C10)	42.9	20.0	50.0		85.8	70-130			
Surrogate: Bromofluorobenzene	0.493		0.500		98.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.520		0.500		104	70-130			
Surrogate: Toluene-d8	0.485		0.500		96.9	70-130			

LCS Dup (2229055-BSD2) Prepared: 07/13/22 Analyzed: 07/15/22

Gasoline Range Organics (C6-C10)	40.5	20.0	50.0		81.0	70-130	5.79	20	
Surrogate: Bromofluorobenzene	0.492		0.500		98.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.507		0.500		101	70-130			
Surrogate: Toluene-d8	0.486		0.500		97.2	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Thistle Unit 65 H	Reported: 7/18/2022 4:48:35PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2229066-BLK1)					Prepared: 07/14/22 Analyzed: 07/14/22				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	55.4		50.0		111	50-200			

LCS (2229066-BS1)					Prepared: 07/14/22 Analyzed: 07/14/22				
Diesel Range Organics (C10-C28)	611	25.0	500		122	38-132			
Surrogate: n-Nonane	61.0		50.0		122	50-200			

Matrix Spike (2229066-MS1)				Source: E207054-03		Prepared: 07/14/22 Analyzed: 07/15/22			
Diesel Range Organics (C10-C28)	567	25.0	500	ND	113	38-132			
Surrogate: n-Nonane	54.8		50.0		110	50-200			

Matrix Spike Dup (2229066-MSD1)				Source: E207054-03		Prepared: 07/14/22 Analyzed: 07/15/22			
Diesel Range Organics (C10-C28)	552	25.0	500	ND	110	38-132	2.55	20	
Surrogate: n-Nonane	54.5		50.0		109	50-200			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Thistle Unit 65 H	Reported: 7/18/2022 4:48:35PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

Anions by EPA 300.0/9056A

Analyst: RAS

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

Blank (2229052-BLK1)					Prepared: 07/13/22 Analyzed: 07/15/22				
Chloride	ND	20.0							
LCS (2229052-BS1)					Prepared: 07/13/22 Analyzed: 07/15/22				
Chloride	255	20.0	250		102	90-110			
Matrix Spike (2229052-MS1)					Source: E207054-01		Prepared: 07/13/22 Analyzed: 07/15/22		
Chloride	256	20.0	250	ND	102	80-120			
Matrix Spike Dup (2229052-MSD1)					Source: E207054-01		Prepared: 07/13/22 Analyzed: 07/15/22		
Chloride	253	20.0	250	ND	101	80-120	1.06	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:	Thistle Unit 65 H	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	07/18/22 16:48

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

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

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

Project Information

Chain of Custody

Page 1 of 1

Client: Pima Environmental Services Project: THistle Unit 65 H Project Manager: Tom Bynum Address: 5614 N. Lovington Hwy. City, State, Zip: Hobbs, NM, 88240 Phone: 580-748-1613 Email: tom@pimaoil.com Report due by:					Bill To Attention: Devon Energy Address: City, State, Zip: Phone: Email: Pima Project # 157					Lab Use Only Lab WO# E207054 Job Number 01058-0007 Analysis and Method DRO/DRO by 8015 GRO/DRO by 8015 BTEX by 8021 VOC by 8260 Metals 6010 Chloride 300.0 NM BGDOC TX BGDOC					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/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	NM	BGDOC	TX	BGDOC	Remarks		
8:00	7/11/22	S		S-1 1'	1								X					
8:05				S-1 3'	2													
8:10				S-2 1'	3													
8:15				S-2 3'	4													
8:20				S-3 1'	5													
8:25				S-3 3'	6													
8:30				S-4 1'	7													
8:35				S-4 3'	8													
8:40				S-5 1'	9													
8:45				S-5 3'	10													
Additional Instructions: Bill To Devon Energy - 208800103 I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Relinquished by: (Signature) <u>[Signature]</u> Date <u>7-12-22</u> Time <u>2:45</u> Relinquished by: (Signature) <u>[Signature]</u> Date <u>7-12-22</u> Time <u>2:15</u> Relinquished by: (Signature) <u>[Signature]</u> Date <u>7-12-22</u> Time <u>10:23</u> Sample Matrix: <u>S</u> - Soil, <u>Sd</u> - Solid, <u>Sg</u> - Sludge, <u>A</u> - Aqueous, <u>O</u> - Other Container Type: <u>g</u> - glass, <u>p</u> - poly/plastic, <u>ag</u> - amber glass, <u>v</u> - VOA Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																		

Envirotech Analytical Laboratory

Printed: 7/14/2022 10:50:20AM

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:	07/13/22 10:23	Work Order ID:	E207054
Phone:	(575) 631-6977	Date Logged In:	07/13/22 09:00	Logged In By:	Caitlin Christian
Email:	tom@pimaoil.com	Due Date:	07/19/22 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: UPSComments/Resolution

Number of containers not provided on COC.

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:
Tom Bynum



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Pima Environmental Services-Carlsbad

Project Name: Thistle Unit 65 H

Work Order: E304044

Job Number: 01058-0007

Received: 4/11/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
4/17/23

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 4/17/23

Tom Bynum
PO Box 247
Plains, TX 79355-0247



Project Name: Thistle Unit 65 H
Workorder: E304044
Date Received: 4/11/2023 7:15:00AM

Tom Bynum,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 4/11/2023 7:15:00AM, under the Project Name: Thistle Unit 65 H.

The analytical test results summarized in this report with the Project Name: Thistle Unit 65 H apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

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

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

Field Offices:

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

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

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Pima Environmental Services-Carlsbad	Project Name:	Thistle Unit 65 H	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	04/17/23 11:36

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
S1 - 4'	E304044-01A	Soil	04/08/23	04/11/23	Glass Jar, 2 oz.
S1 - 5'	E304044-02A	Soil	04/08/23	04/11/23	Glass Jar, 2 oz.
S1 - 6'	E304044-03A	Soil	04/08/23	04/11/23	Glass Jar, 2 oz.
S2 - 4'	E304044-04A	Soil	04/08/23	04/11/23	Glass Jar, 2 oz.
S2 - 5'	E304044-05A	Soil	04/08/23	04/11/23	Glass Jar, 2 oz.
S2 - 6'	E304044-06A	Soil	04/08/23	04/11/23	Glass Jar, 2 oz.
S3 - 4'	E304044-07A	Soil	04/08/23	04/11/23	Glass Jar, 2 oz.
S3 - 5'	E304044-08A	Soil	04/08/23	04/11/23	Glass Jar, 2 oz.
S3 - 6'	E304044-09A	Soil	04/08/23	04/11/23	Glass Jar, 2 oz.
S4 - 4'	E304044-10A	Soil	04/08/23	04/11/23	Glass Jar, 2 oz.
S4 - 5'	E304044-11A	Soil	04/08/23	04/11/23	Glass Jar, 2 oz.
S4 - 6'	E304044-12A	Soil	04/08/23	04/11/23	Glass Jar, 2 oz.
S5 - 4'	E304044-13A	Soil	04/08/23	04/11/23	Glass Jar, 2 oz.
S5 - 5'	E304044-14A	Soil	04/08/23	04/11/23	Glass Jar, 2 oz.
S5 - 6'	E304044-15A	Soil	04/08/23	04/11/23	Glass Jar, 2 oz.
SW1	E304044-16A	Soil	04/08/23	04/11/23	Glass Jar, 2 oz.
SW2	E304044-17A	Soil	04/08/23	04/11/23	Glass Jar, 2 oz.
SW3	E304044-18A	Soil	04/08/23	04/11/23	Glass Jar, 2 oz.
SW4	E304044-19A	Soil	04/08/23	04/11/23	Glass Jar, 2 oz.
BG1	E304044-20A	Soil	04/08/23	04/11/23	Glass Jar, 2 oz.



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Thistle Unit 65 H	Reported: 4/17/2023 11:36:28AM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

S1 - 4'

E304044-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2315025	
Benzene	ND	0.0250	1	04/12/23	04/12/23	
Ethylbenzene	ND	0.0250	1	04/12/23	04/12/23	
Toluene	ND	0.0250	1	04/12/23	04/12/23	
o-Xylene	ND	0.0250	1	04/12/23	04/12/23	
p,m-Xylene	ND	0.0500	1	04/12/23	04/12/23	
Total Xylenes	ND	0.0250	1	04/12/23	04/12/23	
Surrogate: 4-Bromochlorobenzene-PID	95.4 %	70-130		04/12/23	04/12/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2315025	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/12/23	04/12/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	96.4 %	70-130		04/12/23	04/12/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2315051	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/11/23	04/13/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/11/23	04/13/23	
Surrogate: n-Nonane	108 %	50-200		04/11/23	04/13/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2315037	
Chloride	ND	20.0	1	04/11/23	04/12/23	



Sample Data

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

Project Name: Thistle Unit 65 H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
4/17/2023 11:36:28AM

S1 - 5'

E304044-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2315025
Benzene	ND	0.0250	1	04/12/23	04/12/23	
Ethylbenzene	ND	0.0250	1	04/12/23	04/12/23	
Toluene	ND	0.0250	1	04/12/23	04/12/23	
o-Xylene	ND	0.0250	1	04/12/23	04/12/23	
p,m-Xylene	ND	0.0500	1	04/12/23	04/12/23	
Total Xylenes	ND	0.0250	1	04/12/23	04/12/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.9 %	70-130		04/12/23	04/12/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2315025
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/12/23	04/12/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.9 %	70-130		04/12/23	04/12/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2315051
Diesel Range Organics (C10-C28)	ND	25.0	1	04/11/23	04/13/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/11/23	04/13/23	
<i>Surrogate: n-Nonane</i>						
	107 %	50-200		04/11/23	04/13/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2315037
Chloride	ND	20.0	1	04/11/23	04/12/23	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Thistle Unit 65 H	Reported: 4/17/2023 11:36:28AM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

S1 - 6'

E304044-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2315025	
Benzene	ND	0.0250	1	04/12/23	04/12/23	
Ethylbenzene	ND	0.0250	1	04/12/23	04/12/23	
Toluene	ND	0.0250	1	04/12/23	04/12/23	
o-Xylene	ND	0.0250	1	04/12/23	04/12/23	
p,m-Xylene	ND	0.0500	1	04/12/23	04/12/23	
Total Xylenes	ND	0.0250	1	04/12/23	04/12/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.5 %	70-130		04/12/23	04/12/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2315025	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/12/23	04/12/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	96.8 %	70-130		04/12/23	04/12/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2315051	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/11/23	04/13/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/11/23	04/13/23	
<i>Surrogate: n-Nonane</i>						
	106 %	50-200		04/11/23	04/13/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2315037	
Chloride	ND	20.0	1	04/11/23	04/12/23	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Thistle Unit 65 H	Reported: 4/17/2023 11:36:28AM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

S2 - 4'

E304044-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2315025	
Benzene	ND	0.0250	1	04/12/23	04/12/23	
Ethylbenzene	ND	0.0250	1	04/12/23	04/12/23	
Toluene	ND	0.0250	1	04/12/23	04/12/23	
o-Xylene	ND	0.0250	1	04/12/23	04/12/23	
p,m-Xylene	ND	0.0500	1	04/12/23	04/12/23	
Total Xylenes	ND	0.0250	1	04/12/23	04/12/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.6 %	70-130		04/12/23	04/12/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2315025	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/12/23	04/12/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.3 %	70-130		04/12/23	04/12/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2315051	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/11/23	04/13/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/11/23	04/13/23	
<i>Surrogate: n-Nonane</i>						
	111 %	50-200		04/11/23	04/13/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2315037	
Chloride	ND	20.0	1	04/11/23	04/12/23	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Thistle Unit 65 H	Reported: 4/17/2023 11:36:28AM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

S2 - 5'

E304044-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2315025	
Benzene	ND	0.0250	1	04/12/23	04/12/23	
Ethylbenzene	ND	0.0250	1	04/12/23	04/12/23	
Toluene	ND	0.0250	1	04/12/23	04/12/23	
o-Xylene	ND	0.0250	1	04/12/23	04/12/23	
p,m-Xylene	ND	0.0500	1	04/12/23	04/12/23	
Total Xylenes	ND	0.0250	1	04/12/23	04/12/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.7 %	70-130		04/12/23	04/12/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2315025	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/12/23	04/12/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	100 %	70-130		04/12/23	04/12/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2315051	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/11/23	04/13/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/11/23	04/13/23	
<i>Surrogate: n-Nonane</i>						
	111 %	50-200		04/11/23	04/13/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2315037	
Chloride	ND	20.0	1	04/11/23	04/12/23	



Sample Data

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

Project Name: Thistle Unit 65 H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
4/17/2023 11:36:28AM

S2 - 6'

E304044-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2315025
Benzene	ND	0.0250	1	04/12/23	04/12/23	
Ethylbenzene	ND	0.0250	1	04/12/23	04/12/23	
Toluene	ND	0.0250	1	04/12/23	04/12/23	
o-Xylene	ND	0.0250	1	04/12/23	04/12/23	
p,m-Xylene	ND	0.0500	1	04/12/23	04/12/23	
Total Xylenes	ND	0.0250	1	04/12/23	04/12/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.3 %	70-130		04/12/23	04/12/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2315025
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/12/23	04/12/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.4 %	70-130		04/12/23	04/12/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2315051
Diesel Range Organics (C10-C28)	ND	25.0	1	04/11/23	04/14/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/11/23	04/14/23	
<i>Surrogate: n-Nonane</i>						
	109 %	50-200		04/11/23	04/14/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2315037
Chloride	ND	20.0	1	04/11/23	04/12/23	



Sample Data

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

Project Name: Thistle Unit 65 H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
4/17/2023 11:36:28AM

S3 - 4'

E304044-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2315025
Benzene	ND	0.0250	1	04/12/23	04/12/23	
Ethylbenzene	ND	0.0250	1	04/12/23	04/12/23	
Toluene	ND	0.0250	1	04/12/23	04/12/23	
o-Xylene	ND	0.0250	1	04/12/23	04/12/23	
p,m-Xylene	ND	0.0500	1	04/12/23	04/12/23	
Total Xylenes	ND	0.0250	1	04/12/23	04/12/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.6 %	70-130		04/12/23	04/12/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2315025
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/12/23	04/12/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.5 %	70-130		04/12/23	04/12/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2315051
Diesel Range Organics (C10-C28)	ND	25.0	1	04/11/23	04/14/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/11/23	04/14/23	
<i>Surrogate: n-Nonane</i>						
	109 %	50-200		04/11/23	04/14/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2315037
Chloride	ND	20.0	1	04/11/23	04/12/23	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Thistle Unit 65 H	Reported: 4/17/2023 11:36:28AM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

S3 - 5'

E304044-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2315025	
Benzene	ND	0.0250	1	04/12/23	04/12/23	
Ethylbenzene	ND	0.0250	1	04/12/23	04/12/23	
Toluene	ND	0.0250	1	04/12/23	04/12/23	
o-Xylene	ND	0.0250	1	04/12/23	04/12/23	
p,m-Xylene	ND	0.0500	1	04/12/23	04/12/23	
Total Xylenes	ND	0.0250	1	04/12/23	04/12/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.7 %	70-130		04/12/23	04/12/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2315025	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/12/23	04/12/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.0 %	70-130		04/12/23	04/12/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2315051	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/11/23	04/14/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/11/23	04/14/23	
<i>Surrogate: n-Nonane</i>						
	109 %	50-200		04/11/23	04/14/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2315037	
Chloride	ND	20.0	1	04/11/23	04/12/23	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Thistle Unit 65 H	Reported: 4/17/2023 11:36:28AM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

S3 - 6'

E304044-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2315025	
Benzene	ND	0.0250	1	04/12/23	04/12/23	
Ethylbenzene	ND	0.0250	1	04/12/23	04/12/23	
Toluene	ND	0.0250	1	04/12/23	04/12/23	
o-Xylene	ND	0.0250	1	04/12/23	04/12/23	
p,m-Xylene	ND	0.0500	1	04/12/23	04/12/23	
Total Xylenes	ND	0.0250	1	04/12/23	04/12/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.8 %	70-130		04/12/23	04/12/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2315025	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/12/23	04/12/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.6 %	70-130		04/12/23	04/12/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2315051	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/11/23	04/14/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/11/23	04/14/23	
<i>Surrogate: n-Nonane</i>						
	108 %	50-200		04/11/23	04/14/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2315037	
Chloride	ND	20.0	1	04/11/23	04/12/23	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Thistle Unit 65 H	Reported: 4/17/2023 11:36:28AM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

S4 - 4'

E304044-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2315025	
Benzene	ND	0.0250	1	04/12/23	04/12/23	
Ethylbenzene	ND	0.0250	1	04/12/23	04/12/23	
Toluene	ND	0.0250	1	04/12/23	04/12/23	
o-Xylene	ND	0.0250	1	04/12/23	04/12/23	
p,m-Xylene	ND	0.0500	1	04/12/23	04/12/23	
Total Xylenes	ND	0.0250	1	04/12/23	04/12/23	
Surrogate: 4-Bromochlorobenzene-PID	96.8 %	70-130		04/12/23	04/12/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2315025	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/12/23	04/12/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	95.7 %	70-130		04/12/23	04/12/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2315051	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/11/23	04/14/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/11/23	04/14/23	
Surrogate: n-Nonane	109 %	50-200		04/11/23	04/14/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2315037	
Chloride	ND	20.0	1	04/11/23	04/14/23	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Thistle Unit 65 H	Reported: 4/17/2023 11:36:28AM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

S4 - 5'

E304044-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2315025	
Benzene	ND	0.0250	1	04/12/23	04/12/23	
Ethylbenzene	ND	0.0250	1	04/12/23	04/12/23	
Toluene	ND	0.0250	1	04/12/23	04/12/23	
o-Xylene	ND	0.0250	1	04/12/23	04/12/23	
p,m-Xylene	ND	0.0500	1	04/12/23	04/12/23	
Total Xylenes	ND	0.0250	1	04/12/23	04/12/23	
Surrogate: 4-Bromochlorobenzene-PID	94.3 %	70-130		04/12/23	04/12/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2315025	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/12/23	04/12/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	95.3 %	70-130		04/12/23	04/12/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2315051	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/11/23	04/14/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/11/23	04/14/23	
Surrogate: n-Nonane	109 %	50-200		04/11/23	04/14/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2315037	
Chloride	ND	20.0	1	04/11/23	04/12/23	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Thistle Unit 65 H	Reported: 4/17/2023 11:36:28AM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

S4 - 6'

E304044-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2315025	
Benzene	ND	0.0250	1	04/12/23	04/12/23	
Ethylbenzene	ND	0.0250	1	04/12/23	04/12/23	
Toluene	ND	0.0250	1	04/12/23	04/12/23	
o-Xylene	ND	0.0250	1	04/12/23	04/12/23	
p,m-Xylene	ND	0.0500	1	04/12/23	04/12/23	
Total Xylenes	ND	0.0250	1	04/12/23	04/12/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.8 %	70-130		04/12/23	04/12/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2315025	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/12/23	04/12/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	96.5 %	70-130		04/12/23	04/12/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2315051	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/11/23	04/14/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/11/23	04/14/23	
<i>Surrogate: n-Nonane</i>						
	103 %	50-200		04/11/23	04/14/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2315037	
Chloride	ND	20.0	1	04/11/23	04/12/23	



Sample Data

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

Project Name: Thistle Unit 65 H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
4/17/2023 11:36:28AM

S5 - 4'

E304044-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2315025
Benzene	ND	0.0250	1	04/12/23	04/12/23	
Ethylbenzene	ND	0.0250	1	04/12/23	04/12/23	
Toluene	ND	0.0250	1	04/12/23	04/12/23	
o-Xylene	ND	0.0250	1	04/12/23	04/12/23	
p,m-Xylene	ND	0.0500	1	04/12/23	04/12/23	
Total Xylenes	ND	0.0250	1	04/12/23	04/12/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.0 %	70-130		04/12/23	04/12/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2315025
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/12/23	04/12/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.3 %	70-130		04/12/23	04/12/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2315051
Diesel Range Organics (C10-C28)	ND	25.0	1	04/11/23	04/14/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/11/23	04/14/23	
<i>Surrogate: n-Nonane</i>						
	109 %	50-200		04/11/23	04/14/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2315037
Chloride	ND	20.0	1	04/11/23	04/12/23	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Thistle Unit 65 H	Reported: 4/17/2023 11:36:28AM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

S5 - 5'

E304044-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2315025	
Benzene	ND	0.0250	1	04/12/23	04/12/23	
Ethylbenzene	ND	0.0250	1	04/12/23	04/12/23	
Toluene	ND	0.0250	1	04/12/23	04/12/23	
o-Xylene	ND	0.0250	1	04/12/23	04/12/23	
p,m-Xylene	ND	0.0500	1	04/12/23	04/12/23	
Total Xylenes	ND	0.0250	1	04/12/23	04/12/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.6 %	70-130		04/12/23	04/12/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2315025	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/12/23	04/12/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.2 %	70-130		04/12/23	04/12/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2315051	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/11/23	04/14/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/11/23	04/14/23	
<i>Surrogate: n-Nonane</i>						
	108 %	50-200		04/11/23	04/14/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2315037	
Chloride	ND	20.0	1	04/11/23	04/12/23	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Thistle Unit 65 H	Reported: 4/17/2023 11:36:28AM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

S5 - 6'

E304044-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2315025	
Benzene	ND	0.0250	1	04/12/23	04/12/23	
Ethylbenzene	ND	0.0250	1	04/12/23	04/12/23	
Toluene	ND	0.0250	1	04/12/23	04/12/23	
o-Xylene	ND	0.0250	1	04/12/23	04/12/23	
p,m-Xylene	ND	0.0500	1	04/12/23	04/12/23	
Total Xylenes	ND	0.0250	1	04/12/23	04/12/23	
Surrogate: 4-Bromochlorobenzene-PID	96.8 %	70-130		04/12/23	04/12/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2315025	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/12/23	04/12/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	93.0 %	70-130		04/12/23	04/12/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2315051	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/11/23	04/14/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/11/23	04/14/23	
Surrogate: n-Nonane	107 %	50-200		04/11/23	04/14/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2315037	
Chloride	ND	20.0	1	04/11/23	04/12/23	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Thistle Unit 65 H	Reported: 4/17/2023 11:36:28AM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

SW1

E304044-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2315025	
Benzene	ND	0.0250	1	04/12/23	04/12/23	
Ethylbenzene	ND	0.0250	1	04/12/23	04/12/23	
Toluene	ND	0.0250	1	04/12/23	04/12/23	
o-Xylene	ND	0.0250	1	04/12/23	04/12/23	
p,m-Xylene	ND	0.0500	1	04/12/23	04/12/23	
Total Xylenes	ND	0.0250	1	04/12/23	04/12/23	
Surrogate: 4-Bromochlorobenzene-PID	98.3 %	70-130		04/12/23	04/12/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2315025	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/12/23	04/12/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	93.2 %	70-130		04/12/23	04/12/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2315051	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/11/23	04/14/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/11/23	04/14/23	
Surrogate: n-Nonane	108 %	50-200		04/11/23	04/14/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2315037	
Chloride	ND	20.0	1	04/11/23	04/12/23	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Thistle Unit 65 H	Reported: 4/17/2023 11:36:28AM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

SW2

E304044-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2315025	
Benzene	ND	0.0250	1	04/12/23	04/12/23	
Ethylbenzene	ND	0.0250	1	04/12/23	04/12/23	
Toluene	ND	0.0250	1	04/12/23	04/12/23	
o-Xylene	ND	0.0250	1	04/12/23	04/12/23	
p,m-Xylene	ND	0.0500	1	04/12/23	04/12/23	
Total Xylenes	ND	0.0250	1	04/12/23	04/12/23	
Surrogate: 4-Bromochlorobenzene-PID	98.5 %	70-130		04/12/23	04/12/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2315025	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/12/23	04/12/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	94.0 %	70-130		04/12/23	04/12/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2315051	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/11/23	04/14/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/11/23	04/14/23	
Surrogate: n-Nonane	108 %	50-200		04/11/23	04/14/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2315037	
Chloride	ND	20.0	1	04/11/23	04/12/23	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Thistle Unit 65 H	Reported: 4/17/2023 11:36:28AM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

SW3

E304044-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2315025	
Benzene	ND	0.0250	1	04/12/23	04/12/23	
Ethylbenzene	ND	0.0250	1	04/12/23	04/12/23	
Toluene	ND	0.0250	1	04/12/23	04/12/23	
o-Xylene	ND	0.0250	1	04/12/23	04/12/23	
p,m-Xylene	ND	0.0500	1	04/12/23	04/12/23	
Total Xylenes	ND	0.0250	1	04/12/23	04/12/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.4 %	70-130		04/12/23	04/12/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2315025	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/12/23	04/12/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	96.7 %	70-130		04/12/23	04/12/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2315051	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/11/23	04/14/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/11/23	04/14/23	
<i>Surrogate: n-Nonane</i>						
	107 %	50-200		04/11/23	04/14/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2315037	
Chloride	ND	20.0	1	04/11/23	04/12/23	



Sample Data

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

Project Name: Thistle Unit 65 H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
4/17/2023 11:36:28AM

SW4

E304044-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2315025
Benzene	ND	0.0250	1	04/12/23	04/12/23	
Ethylbenzene	ND	0.0250	1	04/12/23	04/12/23	
Toluene	ND	0.0250	1	04/12/23	04/12/23	
o-Xylene	ND	0.0250	1	04/12/23	04/12/23	
p,m-Xylene	ND	0.0500	1	04/12/23	04/12/23	
Total Xylenes	ND	0.0250	1	04/12/23	04/12/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.0 %	70-130		04/12/23	04/12/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2315025
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/12/23	04/12/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.5 %	70-130		04/12/23	04/12/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2315051
Diesel Range Organics (C10-C28)	ND	25.0	1	04/11/23	04/14/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/11/23	04/14/23	
<i>Surrogate: n-Nonane</i>						
	109 %	50-200		04/11/23	04/14/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2315037
Chloride	ND	20.0	1	04/11/23	04/12/23	



Sample Data

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

Project Name: Thistle Unit 65 H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
4/17/2023 11:36:28AM

BG1

E304044-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2315025
Benzene	ND	0.0250	1	04/12/23	04/13/23	
Ethylbenzene	ND	0.0250	1	04/12/23	04/13/23	
Toluene	ND	0.0250	1	04/12/23	04/13/23	
o-Xylene	ND	0.0250	1	04/12/23	04/13/23	
p,m-Xylene	ND	0.0500	1	04/12/23	04/13/23	
Total Xylenes	ND	0.0250	1	04/12/23	04/13/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.4 %	70-130		04/12/23	04/13/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2315025
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/12/23	04/13/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.6 %	70-130		04/12/23	04/13/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2315051
Diesel Range Organics (C10-C28)	ND	25.0	1	04/11/23	04/14/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/11/23	04/14/23	
<i>Surrogate: n-Nonane</i>						
	109 %	50-200		04/11/23	04/14/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2315037
Chloride	ND	20.0	1	04/11/23	04/12/23	



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Thistle Unit 65 H	Reported: 4/17/2023 11:36:28AM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

Volatile Organics by EPA 8021B

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2315025-BLK1) Prepared: 04/11/23 Analyzed: 04/12/23

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	7.49		8.00		93.6	70-130			

LCS (2315025-BS1) Prepared: 04/11/23 Analyzed: 04/12/23

Benzene	4.31	0.0250	5.00		86.1	70-130			
Ethylbenzene	4.29	0.0250	5.00		85.9	70-130			
Toluene	4.41	0.0250	5.00		88.2	70-130			
o-Xylene	4.39	0.0250	5.00		87.8	70-130			
p,m-Xylene	8.76	0.0500	10.0		87.6	70-130			
Total Xylenes	13.1	0.0250	15.0		87.7	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.74		8.00		96.7	70-130			

Matrix Spike (2315025-MS1) Source: E304044-01 Prepared: 04/11/23 Analyzed: 04/12/23

Benzene	4.76	0.0250	5.00	ND	95.2	54-133			
Ethylbenzene	4.74	0.0250	5.00	ND	94.8	61-133			
Toluene	4.88	0.0250	5.00	ND	97.6	61-130			
o-Xylene	4.83	0.0250	5.00	ND	96.7	63-131			
p,m-Xylene	9.65	0.0500	10.0	ND	96.5	63-131			
Total Xylenes	14.5	0.0250	15.0	ND	96.6	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.64		8.00		95.5	70-130			

Matrix Spike Dup (2315025-MSD1) Source: E304044-01 Prepared: 04/11/23 Analyzed: 04/12/23

Benzene	4.46	0.0250	5.00	ND	89.1	54-133	6.56	20	
Ethylbenzene	4.45	0.0250	5.00	ND	89.0	61-133	6.32	20	
Toluene	4.57	0.0250	5.00	ND	91.4	61-130	6.55	20	
o-Xylene	4.53	0.0250	5.00	ND	90.6	63-131	6.47	20	
p,m-Xylene	9.07	0.0500	10.0	ND	90.7	63-131	6.15	20	
Total Xylenes	13.6	0.0250	15.0	ND	90.7	63-131	6.26	20	
Surrogate: 4-Bromochlorobenzene-PID	7.54		8.00		94.2	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Thistle Unit 65 H	Reported: 4/17/2023 11:36:28AM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2315025-BLK1) Prepared: 04/11/23 Analyzed: 04/12/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.65		8.00		95.6	70-130			

LCS (2315025-BS2) Prepared: 04/11/23 Analyzed: 04/12/23

Gasoline Range Organics (C6-C10)	39.6	20.0	50.0		79.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.81		8.00		97.7	70-130			

Matrix Spike (2315025-MS2) Source: E304044-01 Prepared: 04/11/23 Analyzed: 04/12/23

Gasoline Range Organics (C6-C10)	48.7	20.0	50.0	ND	97.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.67		8.00		95.9	70-130			

Matrix Spike Dup (2315025-MSD2) Source: E304044-01 Prepared: 04/11/23 Analyzed: 04/12/23

Gasoline Range Organics (C6-C10)	45.6	20.0	50.0	ND	91.3	70-130	6.55	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.66		8.00		95.7	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Thistle Unit 65 H	Reported: 4/17/2023 11:36:28AM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2315051-BLK1)					Prepared: 04/11/23 Analyzed: 04/13/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	55.1		50.0		110	50-200			

LCS (2315051-BS1)					Prepared: 04/11/23 Analyzed: 04/13/23				
Diesel Range Organics (C10-C28)	272	25.0	250		109	38-132			
Surrogate: n-Nonane	51.9		50.0		104	50-200			

Matrix Spike (2315051-MS1)					Source: E304044-19		Prepared: 04/11/23 Analyzed: 04/13/23		
Diesel Range Organics (C10-C28)	276	25.0	250	ND	111	38-132			
Surrogate: n-Nonane	54.6		50.0		109	50-200			

Matrix Spike Dup (2315051-MSD1)					Source: E304044-19		Prepared: 04/11/23 Analyzed: 04/13/23		
Diesel Range Organics (C10-C28)	271	25.0	250	ND	109	38-132	1.79	20	
Surrogate: n-Nonane	53.2		50.0		106	50-200			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Thistle Unit 65 H	Reported: 4/17/2023 11:36:28AM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

Anions by EPA 300.0/9056A

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2315037-BLK1)						Prepared: 04/11/23 Analyzed: 04/12/23			
Chloride	ND	20.0							
LCS (2315037-BS1)						Prepared: 04/11/23 Analyzed: 04/12/23			
Chloride	254	20.0	250		102	90-110			
Matrix Spike (2315037-MS1)				Source: E304044-01		Prepared: 04/11/23 Analyzed: 04/12/23			
Chloride	257	20.0	250	ND	103	80-120			
Matrix Spike Dup (2315037-MSD1)				Source: E304044-01		Prepared: 04/11/23 Analyzed: 04/12/23			
Chloride	257	20.0	250	ND	103	80-120	0.106	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:	Thistle Unit 65 H	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	04/17/23 11:36

- 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

Client: Pima Environmental Services		Bill To		Lab Use Only		TAT		EPA Program	
Project: <u>Thistle Unit GSH</u>		Attention: <u>Devon</u>		Lab WO# <u>304044</u> Job Number <u>01058-0007</u>		1D 2D 3D Standard <u>X</u>		CWA SDWA	
Project Manager: Tom Bynum		Address:		Analysis and Method				RCRA	
Address: 5614 N. Lovington Hwy.		City, State, Zip		DRO/ORO by 8015		BTEX by 8021		VOC by 8260	
City, State, Zip: Hobbs, NM, 88240		Phone:		Metals 6010		Chloride 300.0		BGDOC NM	
Phone: 580-748-1613		Email:		BGDOC TX				State	
Email: tom@pimaoil.com		Pima Project #						NM CO UT AZ TX	
Report due by:								Remarks	
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number				
8:00	4/8/23	S	1	S1-4'	1				X
8:05				S1-5'	2				
8:10				S1-6'	3				
8:15				S2-4'	4				
8:20				S2-5'	5				
8:25				S2-6'	6				
8:30				S3-4'	7				
8:35				S3-5'	8				
8:40				S3-6'	9				
8:45				S4-4'	10				
Additional Instructions:									
Billing#:									
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentional mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.									
Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.									
Relinquished by: (Signature) <u>AF</u>		Date <u>4-10-23</u>		Time <u>2:00</u>		Received by: (Signature) <u>Andrew Franco</u>		Date <u>4-11-23</u> Time <u>7:15</u>	
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date Time	
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date Time	
Sample Matrix: <u>S</u> - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other									
Container Type: <u>g</u> - glass, p - poly/plastic, ag - amber glass, v - VOA									
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.									



Project Information

Chain of Custody

Page 2 of 2

Client: Pima Environmental Services		Bill To		Lab Use Only		TAT		EPA Program					
Project: <u>Thistle Unit GSH</u>		Attention: <u>Devan</u>		Lab WO# <u>E304044</u>		Job Number <u>01058-0007</u>		1D	2D	3D	Standard	CWA	SDWA
Project Manager: Tom Bynum		Address:		Analysis and Method									
Address: <u>56 14 N. Lovington Hwy.</u>		City, State, Zip											RCRA
City, State, Zip <u>Hobbs, NM, 88240</u>		Phone:											
Phone: <u>580-748-1613</u>		Email:											
Email: <u>tom@pimaoil.com</u>		Pima Project #											
Report due by:													

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	Remarks
8:50	4/8/23	S	1	S4-5'	11							X		
8:55				S4-6'	12									
9:00				S5-4'	13									
9:05				S5-5'	14									
9:10				S5-6'	15									
9:15				SW1	16									
9:20				SW2	17									
9:25				SW3	18									
9:30				SW4	19									
9:35	✓	✓	✓	BG1	20							✓		

Additional Instructions:

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

Sampled by:

Billing#:

Andrew Franco

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

Relinquished by: (Signature) <u>AF</u>	Date <u>4-10-23</u>	Time <u>2:00</u>	Received by: (Signature) <u>[Signature]</u>	Date <u>4-11-23</u>	Time <u>7:15</u>	Lab Use Only
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Received on ice: <u>Y/N</u>
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	T1 T2 T3
AVG Temp °C <u>4</u>						

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

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



Envirotech Analytical Laboratory

Printed: 4/11/2023 1:27:27PM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Pima Environmental Services-Carlsbad	Date Received:	04/11/23 07:15	Work Order ID:	E304044
Phone:	(575) 631-6977	Date Logged In:	04/11/23 08:47	Logged In By:	Caitlin Christian
Email:	tom@pimaoil.com	Due Date:	04/17/23 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

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

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

QUESTIONS

Action 357239

QUESTIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID:
	6137
	Action Number:
	357239
Action Type:	
[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)	

QUESTIONS

Prerequisites	
Incident ID (n#)	nRM2019860183
Incident Name	NRM2019860183 THISTLE UNIT #65H @ 30-025-41303
Incident Type	Produced Water Release
Incident Status	Remediation Plan Received
Incident Well	[30-025-41303] THISTLE UNIT #065H

Location of Release Source	
Please answer all the questions in this group.	
Site Name	THISTLE UNIT #65H
Date Release Discovered	07/06/2020
Surface Owner	State

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Other Valve Produced Water Released: 363 BBL Recovered: 301 BBL Lost: 62 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.

District I

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

District II

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

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QUESTIONS, Page 2

Action 357239

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID:	6137
	Action Number:	357239
	Action Type:	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	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@dmn.com Date: 06/25/2024
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QUESTIONS, Page 3

Action 357239

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 357239
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

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	Greater than 5 (mi.)
Any other fresh water well or spring	Greater than 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	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)	197
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	06/14/2024
On what date will (or did) the final sampling or liner inspection occur	06/14/2024
On what date will (or was) the remediation complete(d)	08/14/2024
What is the estimated surface area (in square feet) that will be reclaimed	16792
What is the estimated volume (in cubic yards) that will be reclaimed	2487
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, Page 4
Action 357239

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID:	6137
	Action Number:	357239
	Action Type:	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Remediation Plan (continued)	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	LEA LAND LANDFILL [fEEM0112342028]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Dale Woodall Title: EHS Professional Email: Dale.Woodall@dmn.com Date: 06/25/2024
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 5

Action 357239

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 357239
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

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

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QUESTIONS, Page 6

Action 357239

QUESTIONS (continued)

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QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	353499
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	06/14/2024
What was the (estimated) number of samples that were to be gathered	115
What was the sampling surface area in square feet	16792

Remediation Closure Request

Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.

Requesting a remediation closure approval with this submission	No
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CONDITIONS

Action 357239

CONDITIONS

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	Action Number: 357239
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

CONDITIONS

Created By	Condition	Condition Date
nvelez	The remediation plan is approved as written. Devon has 90-days (September 30, 2024) to submit to OCD its appropriate or final remediation closure report.	7/2/2024