



REMEDIATION CLOSURE REPORT

Incident ID NAPP2406623089

Thistle Unit 6 Wellpad

Facility ID fAPP2202125175

Prepared By:
Pima Environmental Services, LLC

Prepared For:
Devon Energy Production, LP

October 17, 2024
Pima Environmental Services, LLC
5614 N Lovington Hwy, Hobbs, NM 88240

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October 17, 2024

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

Re: Site Assessment, Remediation, and Closure Report
Thistle Unit 6 Wellpad
API No. 30-025-34767
GPS: Latitude 32.25555282 Longitude -103.5567415
UL - O, Section 34, T23S, R33E
Lea County, NM
NMOCD Ref. No. NAPP2406623089

Pima Environmental Services, LLC. (Pima) has been contracted by Devon Energy Production Company, LP (Devon) to prepare this Site Assessment, Remediation, and Closure Report for a crude oil release that occurred at the Thistle Unit #006 (Thistle). The incident was assigned incident NAPP2406623089 on March 6, 2014, by the New Mexico Oil Conservation Division (NMOCD).

Site Characterization

The Thistle is located approximately twenty-three (23) miles Northwest of Jal, NM. This spill site is in Unit O, Section 34, Township 23S, Range 33E, Latitude 32.25555282 Longitude -103.5567415, Lea County, NM. Figure 1 references a Location Map.

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

Based on the well water data from the New Mexico Office of the State Engineer water well (C-04595), the depth to the nearest groundwater in this vicinity measures 55 feet below grade surface (BGS), positioned 0.48 of a mile away from the Thistle. Drilled on March 9, 2022. Conversely, as per the United States Geological Survey well water data (USGS321403300301), the nearest groundwater depth in this region is recorded at 65 feet BGS, situated approximately 3.57 of a mile away from the Thistle, with the last gauge conducted in 2006. (Appendix A)

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' (C-04595)	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

Thistle Unit 6 Wellpad | Devon Energy

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Release Information

NAPP2406623089: On March 5, 2014, a valve broke on the back of a tank and spilled oil onto the ground. The hole in the valve was plugged. The released fluids were calculated to be approximately 8 barrels (bbls) of crude oil. A vacuum truck was called and was available to recover approximately 8 bbls of standing fluid.

Remediation Activities, Site Assessment, and Soil Sampling Results

On March 6 and May 10, 2024, Pima mobilized personnel to the site to collect soil samples from the spill area. A hand auger was used to collect the samples from the affected area. The laboratory results of these sampling events are provided in the following data table. A Site Map is available in Figure 4.

3-6-2024 & 5-10-2024 Soil Sample Results

NMOC Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is 51-100')									
DEVON ENERGY Thistle Unit 6									
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
S1	3/6/2024	1'	ND	ND	ND	ND	ND	0	86.4
		2'	ND	ND	ND	ND	ND	0	79
		3'	ND	ND	ND	42.8	ND	42.8	35.7
		4'	ND	ND	ND	ND	ND	0	ND
S2	3/6/2024	1'	62.5	ND	427	19900	5350	25739.5	3380
		2'	ND	ND	ND	113	ND	113	1520
		3'	1.26	ND	25.2	695	212	933.46	364
		4'	0.648	ND	ND	470	149	619.648	244
	5/10/2024	5'	ND	ND	ND	ND	ND	0	ND
		6'	ND	ND	ND	ND	ND	0	ND
S3	3/6/2024	1'	ND	ND	ND	ND	ND	0	83.8
		2'	ND	ND	ND	ND	ND	0	84.6
		3'	ND	ND	ND	ND	ND	0	25.3
		4'	ND	ND	ND	ND	ND	0	ND
S4	3/6/2024	1'	40.2	ND	261	14600	4300	19201.2	2600
		2'	ND	ND	ND	ND	ND	0	76.9
		3'	1.12	ND	21.8	870	272	1164.92	358
		4'	0.673	ND	ND	517	161	678.673	245
	5/10/2024	5'	ND	ND	ND	ND	ND	0	ND
		6'	ND	ND	ND	ND	ND	0	ND
S5	3/6/2024	1'	86	ND	652	22300	6970	30008	3490
		2'	5.87	ND	78.5	2270	728	3082.37	3130
		3'	0.565	ND	ND	656	232	888.565	343
		4'	0.812	ND	ND	400	137	537.812	248
	5/10/2024	5'	0.411	ND	ND	253	70.4	323.811	94
		6'	ND	ND	ND	ND	ND	0	ND
S6	3/6/2024	1'	28.7	ND	167	18200	5540	23935.7	3710
		2'	16.1	ND	91.2	15500	5980	21587.3	2970
		3'	0.694	ND	ND	594	209	803.694	334
		4'	0.379	ND	ND	160	52.1	212.479	172
	5/10/2024	5'	0.438	ND	ND	356	117	473.438	105
		6'	ND	ND	ND	ND	ND	0	ND
SW1	3/6/2024	0-6'	ND	ND	ND	ND	ND	0	ND
SW2	3/6/2024	0-6'	ND	ND	ND	ND	ND	0	ND
SW3	3/6/2024	0-6'	ND	ND	ND	ND	ND	0	ND
SW4	3/6/2024	0-6'	ND	ND	ND	ND	ND	0	ND
SW5	3/6/2024	0-6'	ND	ND	ND	ND	ND	0	ND
SW6	3/6/2024	0-6'	ND	ND	ND	ND	ND	0	ND
BG1	3/6/2024	0-6'	ND	ND	ND	ND	ND	0	ND

ND- Analyte Not Detected

Thistle Unit 6 Wellpad | Devon Energy

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On July 11, 2024, the Devon Construction Department mobilized personnel and equipment to initiate immediate remediation activities. They began excavating the area to a depth of 2 feet below ground surface (BGS). A total of 21 cubic yards of contaminated soil was hauled to an approved, lined disposal facility. The location is scheduled for reclamation, and the open excavation will not be backfilled until reclamation occurs.

On July 15, 2024, after sending a 48-hour notification (application ID: 363338, Appendix C), Pima returned to the site to collect 5-point confirmation samples from the excavation. The 5-point composite samples were taken from the exposed excavation sidewalls and bottom samples were collected at 2 feet deep. The results of this sampling event are provided in the following table, and a confirmation sample map can be found in Figure 5

7-15-24 Confirmation Sample Results

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is 51-100')								
DEVON ENERGY Thistle Unit #6								
Date: 7-15-24		NM Approved Laboratory Results						
Sample ID	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	CI mg/kg
CS1	3' Bottom	ND	ND	ND	ND	ND	0	ND
CS2	3' Bottom	ND	ND	ND	ND	ND	0	ND
CS3	3' Bottom	ND	ND	ND	ND	ND	0	ND
CS4	3' Bottom	ND	ND	ND	ND	ND	0	ND
CS5	3' Bottom	ND	ND	ND	ND	ND	0	ND
CS6	3' Bottom	ND	ND	ND	ND	ND	0	ND
CS7	2' Bottom	ND	ND	ND	ND	ND	0	ND
CS8	2' Bottom	ND	ND	ND	ND	ND	0	ND
CS9	2' Bottom	ND	ND	ND	ND	ND	0	ND
CS10	2' Bottom	ND	ND	ND	ND	ND	0	ND
CS11	2' Bottom	ND	ND	ND	ND	ND	0	ND
CS12	2' Bottom	ND	ND	ND	ND	ND	0	ND
CSW1	0-3' Comp	ND	ND	ND	ND	ND	0	ND
CSW2	0-3' Comp	ND	ND	ND	ND	ND	0	ND
CSW3	0-3' Comp	ND	ND	ND	ND	ND	0	ND
CSW4	0-3' Comp	ND	ND	ND	ND	ND	0	ND
CSW5	0-3' Comp	ND	ND	ND	ND	ND	0	ND
CSW6	0-3' Comp	ND	ND	ND	ND	ND	0	ND
CSW7	0-3' Comp	ND	ND	ND	ND	ND	0	ND
CSW8	0-3' Comp	ND	ND	ND	ND	ND	0	ND
CSW9	0-3' Comp	ND	ND	ND	ND	ND	0	ND
CSW10	0-3' Comp	ND	ND	ND	ND	ND	0	ND
CSW11	0-3' Comp	ND	ND	ND	ND	ND	0	ND
CSW12	0-3' Comp	ND	ND	ND	ND	ND	0	ND
CSW13	0-2' Comp	ND	ND	ND	ND	ND	0	ND
CSW14	0-2' Comp	ND	ND	ND	ND	ND	0	ND
CSW15	0-2' Comp	ND	ND	ND	ND	ND	0	ND
CSW16	0-2' Comp	ND	ND	ND	ND	ND	0	ND
CSW17	0-2' Comp	ND	ND	ND	ND	ND	0	ND
CSW18	0-2' Comp	ND	ND	ND	ND	ND	0	ND
CSW19	0-2' Comp	ND	ND	ND	ND	ND	0	ND
CSW20	0-2' Comp	ND	ND	ND	ND	ND	0	ND
CSW21	0-2' Comp	ND	ND	ND	ND	ND	0	ND
CSW22	0-2' Comp	ND	ND	ND	ND	ND	0	ND
CSW23	0-2' Comp	ND	ND	ND	ND	ND	0	ND

ND- Analyte Not Detected

Complete Laboratory Reports can be found in Appendix E.

The highlighted confirmation samples pertain to Thistle Unit #006, Incident ID: NTO1430850577

Thistle Unit 6 Wellpad | Devon Energy

Countermeasures Due to Rejection application ID:373275:

The prior report faced rejection due to concerns raised by the NMOCD. The summary of rejection outlined the following reasons:

1. Based on the remediation closure report, impacted soils in the areas north, east, and possibly west of the northern most production tank has not been addressed. Devon has until December 16, 2024, to redress the remaining impact portions and submit its appropriate or final remediation closure report.

Remediation Activities, Site Assessment, and Soil Sampling Results

On September 18, 2024, Pima mobilized personnel to the site to collect soil samples from the Northern, East and west of the production tank earthen containment. A hand auger was used to collect the samples from the affected area. The laboratory results of these sampling events are provided in the following data table. A Site Map is available in Figure 4.

9-18-2024 Soil Sample Results

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is 51-100')								
DEVON ENERGY Thistle Unit 6								
Date: 9-18-24		NM Approved Laboratory Results						
Sample ID	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg
S1	1'	0.0407	ND	25.2	8250	1440	9715.2407	3590
	2'	ND	ND	ND	683	268	951	29.8
	3'	ND	ND	ND	207	69.7	276.7	ND
	4'	ND	ND	ND	64.1	ND	64.1	ND
S2	1'	1.04	ND	47	11000	2450	13498.04	3650
	2'	ND	ND	ND	832	299	1131	29.1
	3'	ND	ND	ND	167	ND	167	ND
	4'	ND	ND	ND	85.4	ND	85.4	ND
S3	1'	1.43	ND	72.3	17400	5510	22983.73	26
	2'	ND	ND	ND	695	271	966	30.9
	3'	ND	ND	ND	197	71.3	268.3	ND
	4'	ND	ND	ND	56.8	ND	56.8	ND
S4	1'	0.0904	ND	51.4	9090	2610	11751.4904	197
	2'	ND	ND	ND	793	307	1100	30.3
	3'	ND	ND	ND	197	71.6	268.6	ND
	4'	ND	ND	ND	76.6	ND	76.6	ND
S5	1'	2.57	ND	50.8	11400	3270	14723.37	3030
	2'	ND	ND	ND	902	368	1270	32.4
	3'	ND	ND	ND	213	79.6	292.6	ND
	4'	ND	ND	ND	65.3	ND	65.3	ND
S6	1'	ND	ND	ND	844	389	1233	26.8
	2'	0.0519	ND	ND	970	417	1387.0519	34.6
	3'	ND	ND	ND	288	117	405	ND
	4'	ND	ND	ND	50.8	ND	50.8	ND
SW1	0-4' comp	ND	ND	ND	ND	ND	ND	ND
SW2	0-4' comp	ND	ND	ND	ND	ND	ND	ND
SW3	0-4' comp	ND	ND	ND	ND	ND	ND	ND
SW4	0-4' comp	ND	ND	ND	ND	ND	ND	ND
SW5	0-4' comp	ND	ND	ND	ND	ND	ND	ND
SW6	0-4' comp	ND	ND	ND	ND	ND	ND	ND
BG1	1'	ND	ND	ND	ND	ND	ND	ND

ND- Analyte Not Detected

On October 8, 2024, the Devon Construction Department mobilized personnel and equipment to initiate immediate remediation activities. They began excavating the area to a depth of 1 foot below ground surface (BGS). A total of 17 cubic yards of contaminated soil was hauled to an approved, lined disposal facility. The location is scheduled for reclamation, and the open excavation will not be backfilled until reclamation occurs.

Pima Environmental Services

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On October 15, 2024, after sending a 48-hour notification (application ID: 391796, Appendix C), Pima returned to the site to collect 5-point confirmation samples from the excavation. The 5-point composite samples were taken from the exposed excavation sidewalls and bottom samples were collected at 1 foot deep. The results of this sampling event are provided in the following table, and a confirmation sample map can be found in Figure 5.

10-15-24 Confirmation Sample Results

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is 51-100')								
DEVON ENERGY Thistle Unit #6								
Date: 10-15-24		NM Approved Laboratory Results						
Sample ID	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg
CS1	1' Bottom	ND	ND	ND	182	53	235	ND
CS2	1' Bottom	ND	ND	ND	363	112	475	ND
CS3	1' Bottom	ND	ND	ND	442	149	591	ND
CSW1	1' Comp	ND	ND	ND	173	62.9	235.9	ND
CSW2	1' Comp	ND	ND	ND	419	158	577	ND
CSW3	1' Comp	ND	ND	ND	287	116	403	ND
CSW4	1' Comp	ND	ND	ND	26.4	ND	26.4	ND
CSW5	1' Comp	ND	ND	ND	248	98.8	346.8	ND
CSW6	1' Comp	0.0517	ND	ND	197	75	272.0517	ND

ND- Analyte Not Detected

Based on the sample results, the bottoms and sidewalls were below NMOCD Closure Criteria 19.15.29 NMAC. The contaminated material was sufficiently removed then transported to Northern Delaware Basin Landfill, an NMOCD approved disposal site. See Appendix D for Photographic Documentation.

Closure Request

After careful review, Pima requests that this incident, NAPP2406623089, be closed. Devon has complied with the applicable closure requirements set forth in rule 19.15.19.12 NMAC.

Should you have any questions or need additional information, please feel free to contact Gio Gomez at 806-782-1151 or gio@pimaoil.com.

Respectfully,

Gio Gomez

Gio Gomez

Project Manager

Pima Environmental Services, LLC

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Attachments

Figures:

- 1- Location Map
- 2- Topographic Map
- 3- Karst Map
- 4- Site Maps
- 5- Confirmation Sample Maps

Appendices:

- Appendix A – Referenced Water Surveys
- Appendix B – Soil Survey, Geological Data, FEMA, and Wetlands Map
- Appendix C – 48 Hour Notifications
- Appendix D – Photographic Documentation
- Appendix E – Laboratory Reports

Figures:

Figure 1- Location Map

Figure 2- Topographic Map

Figure 3- Karst Map



Figure 4- Site Map

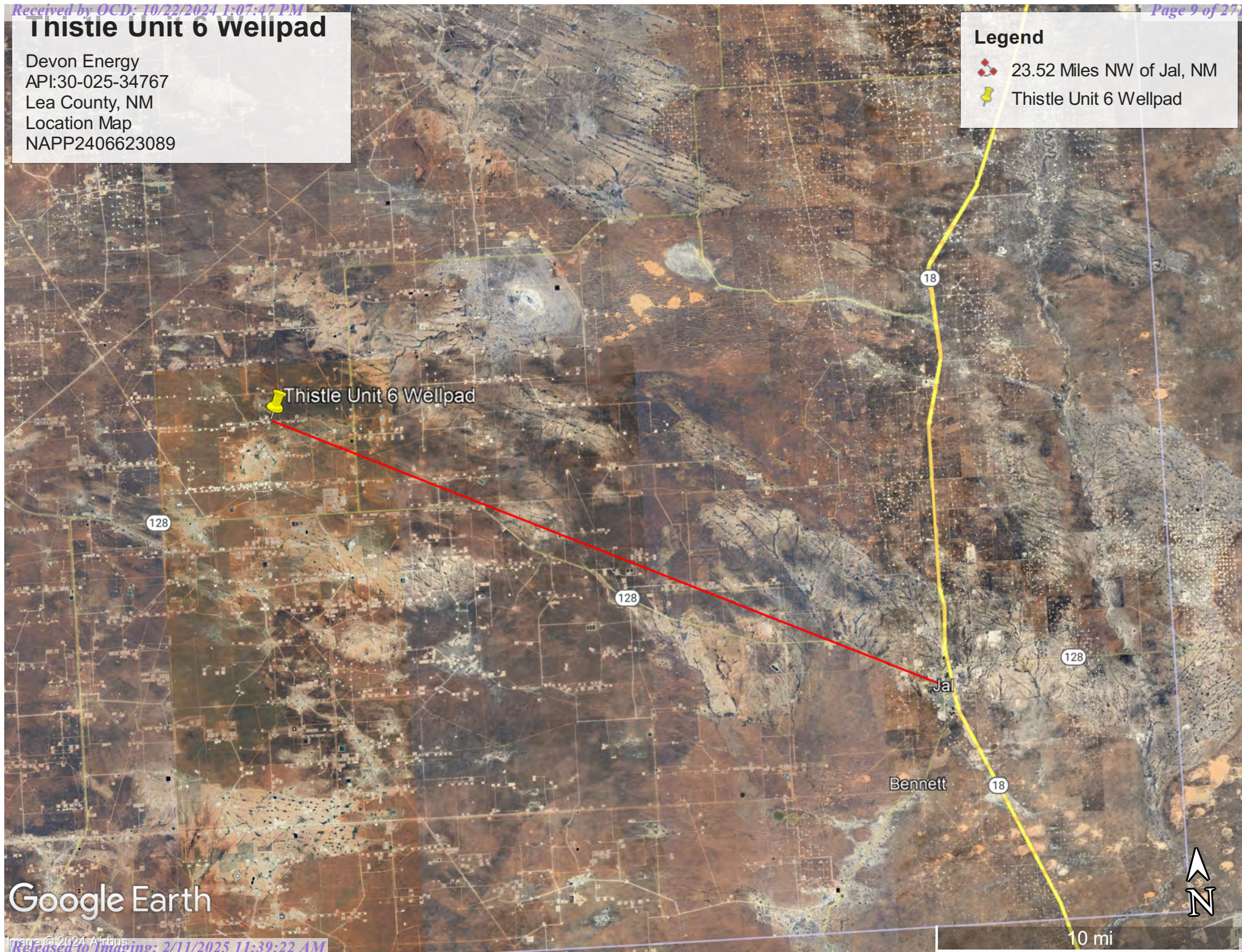
Figure 5- Confirmation Sample Map

Thistle Unit 6 wellpad

Devon Energy
API:30-025-34767
Lea County, NM
Location Map
NAPP2406623089

Legend

-  23.52 Miles NW of Jal, NM
-  Thistle Unit 6 Wellpad



Google Earth

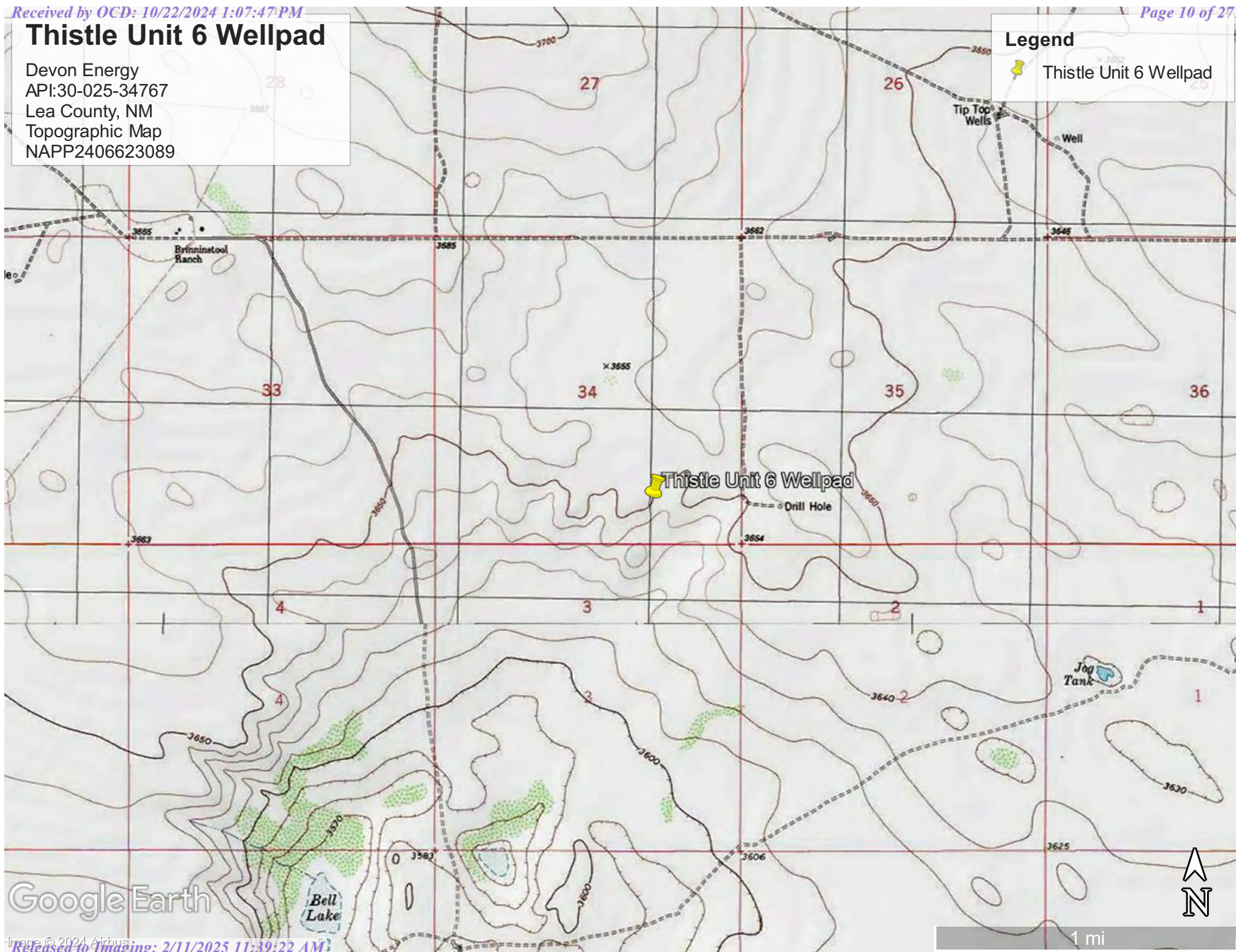
Thistle Unit 6 Wellpad

Devon Energy
API:30-025-34767
Lea County, NM
Topographic Map
NAPP2406623089

Legend



Thistle Unit 6 Wellpad



Google Earth

Thistle Unit 6 Wellpad

Devon Energy
API:30-025-34767
Lea County, NM
Karst Map
NAPP2406623089

- Legend**
- High Karst
 - Low Karst
 - Medium Karst

Thistle Unit 6 Wellpad

128

128

Google Earth





10 mi



Thistle Unit #6 wellPad

Devon Energy
API: 30-025-34767
Lea County, NM
Site Map South of Containment
NAPP2406623089

Legend

-  645 SQFT
-  Samples
-  Sidewalls/Background
-  Thistle Unit 6



Google Earth








100 ft

Thistle Unit #6 Wellpad

Devon Eenergy
API: 30-025-34767
Lea County, NM
Site Map North of Containment
NAPP2406623089

Legend

-  459 Sqft Thistle 6
-  Samples
-  Sidewalls & Background
-  Thistle Unit 6

Thistle Unit 6 



Google Earth



60 ft

Thistle Unit #6 Wellpad

Devon Energy
API: 30-025-3467
Lea County, NM
Confirmation Sample Map
NAPP2406623089

Legend

- Confirmation Samples
- Excavation
- Thistle Unit 6

Thistle Unit 6







50 ft


Google Earth

Thistle Unit #6 Wellpad

Devon Eenergy
API: 30-025-34767
Lea County, NM
Confirmation Sample Map
NAPP2406623089

Legend

-  459 Sqft Thistle 6
-  Confirmation Samples
-  Confirmation Sidewall Samples
-  Thistle Unit 6

Thistle Unit 6 



Google Earth



40 ft

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	818	55		
C 04753 POD1		CUB	LE	4	4	3	35	23S	33E	637075	3569526	1130	55		
C 02281		CUB	LE	3	4	4	28	23S	33E	634495	3571183*	2085	545	400	145
C 02280		CUB	LE	3	2	4	28	23S	33E	634489	3571586*	2393	650	400	250
C 04804 POD1		CUB	LE	1	1	3	01	24S	33E	638093	3568540	2428	100		
C 02308		CUB	LE	1	3	1	10	24S	33E	634953	3567364*	2538	40	20	20
C 04707 POD1		CUB	LE	4	3	3	33	23S	33E	633413	3569469	2554			
C 04741 POD1		CUB	LE	1	2	4	10	24S	33E	636076	3567039	2658	55		
C 02279		CUB	LE	3	4	3	28	23S	33E	633691	3571173*	2705	650	400	250
C 02278		CUB	LE	3	4	2	28	23S	33E	634484	3571989*	2725	650	400	250
C 02284		CUB	LE	4	2	4	26	23S	33E	637907	3571626*	2743	325	225	100
C 02283		CUB	LE	4	2	2	26	23S	33E	637896	3572431*	3352	325	225	100
C 04014 POD5		CUB	LE	1	4	2	01	24S	33E	639284	3569086	3382	95	85	10
C 03591 POD1		CUB	LE	2	1	4	05	24S	33E	632731	3568518	3434			
C 04014 POD4		CUB	LE	3	4	2	01	24S	33E	639295	3568859	3440	96	86	10
C 02282		CUB	LE	3	1	1	25	23S	33E	638098	3572436*	3477	325	225	100
C 04014 POD3		CUB	LE	2	4	2	01	24S	33E	639497	3569007	3606	95	87	8
C 04014 POD2		CUB	LE	4	4	2	01	24S	33E	639656	3568917	3779	95	81	14

C 04824 POD1	CUB	LE	1	1	2	16	24S	33E	634113	3566203		3949	105		
C 04014 POD1	CUB	LE	1	1	3	06	24S	34E	639811	3568638		3996	91	81	10
C 03565 POD3	CUB	LE		3	4	08	24S	33E	632763	3566546		4485		1533	
C 02277	CUB	LE	2	3	4	20	23S	33E	632663	3572970*		4644	550	400	150

Average Depth to Water: 309 feet

Minimum Depth: 20 feet

Maximum Depth: 1533 feet

Record Count: 22

UTMNAD83 Radius Search (in meters):

Easting (X): 635957.48 **Northing (Y):** 3569695.85 **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.


5/22/24 10:56 AM

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		
x											
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:				
x											

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.

Thistle Unit #6

Devon Energy
API: 30-025-36544
Lea County, NM
OSE POD MAP
NAPP2406623089

Legend

-  0.48 of a mile
-  C-04595-POD 1
-  Thistle Unit 6 Wellpad

C-04595-POD 1

Thistle Unit 6 Wellpad

Google Earth



1000 ft



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

National Water Information System: Web Interface

USGS Water Resources

Data Category:


Groundwater

Geographic Area:

United States

GO

Click to hide News Bulletins

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

Groundwater levels for the Nation

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

Search Results -- 1 sites found

site_no list =

- 321403103300301

Minimum number of levels = 1

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

USGS 321403103300301 24S.34E.07.22222

Available data for this site

Groundwater: Field measurements

GO

Lea County, New Mexico

Hydrologic Unit Code 13070007

Latitude 32°14'03", Longitude 103°30'03" NAD27

Land-surface elevation 3,606 feet above NAVD88

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

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

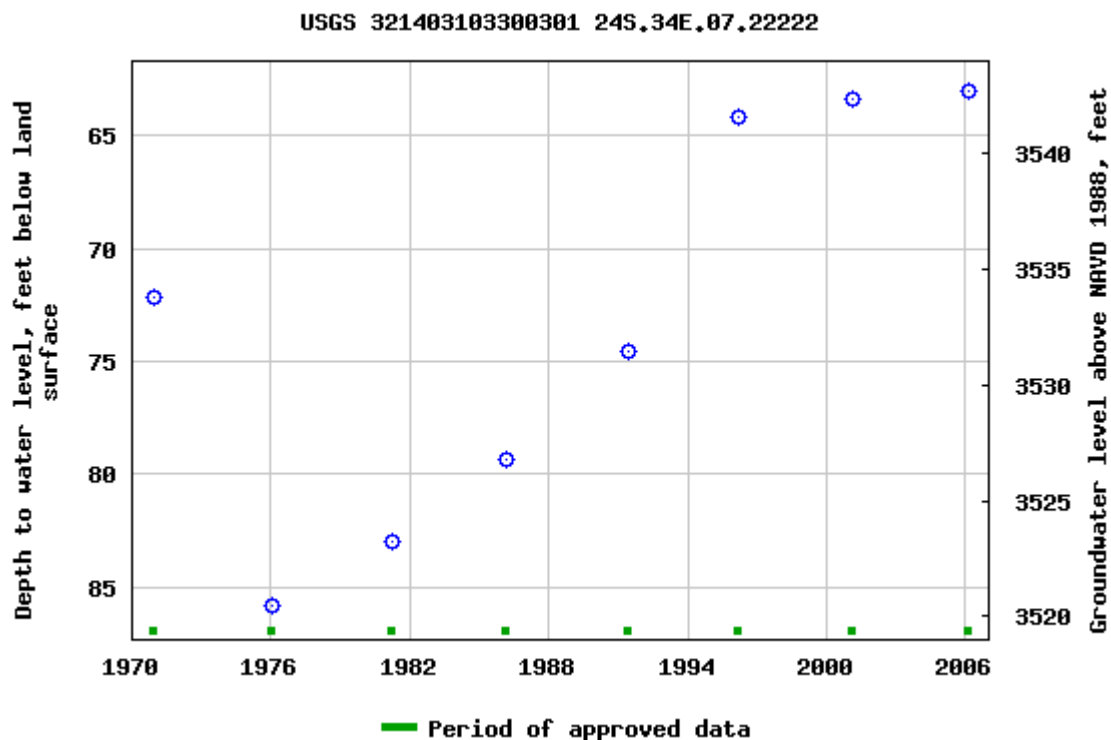
Output formats

[Table of data](#)

[Tab-separated data](#)

[Graph of data](#)

[Reselect period](#)



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

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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: 2024-03-06 11:04:22 EST

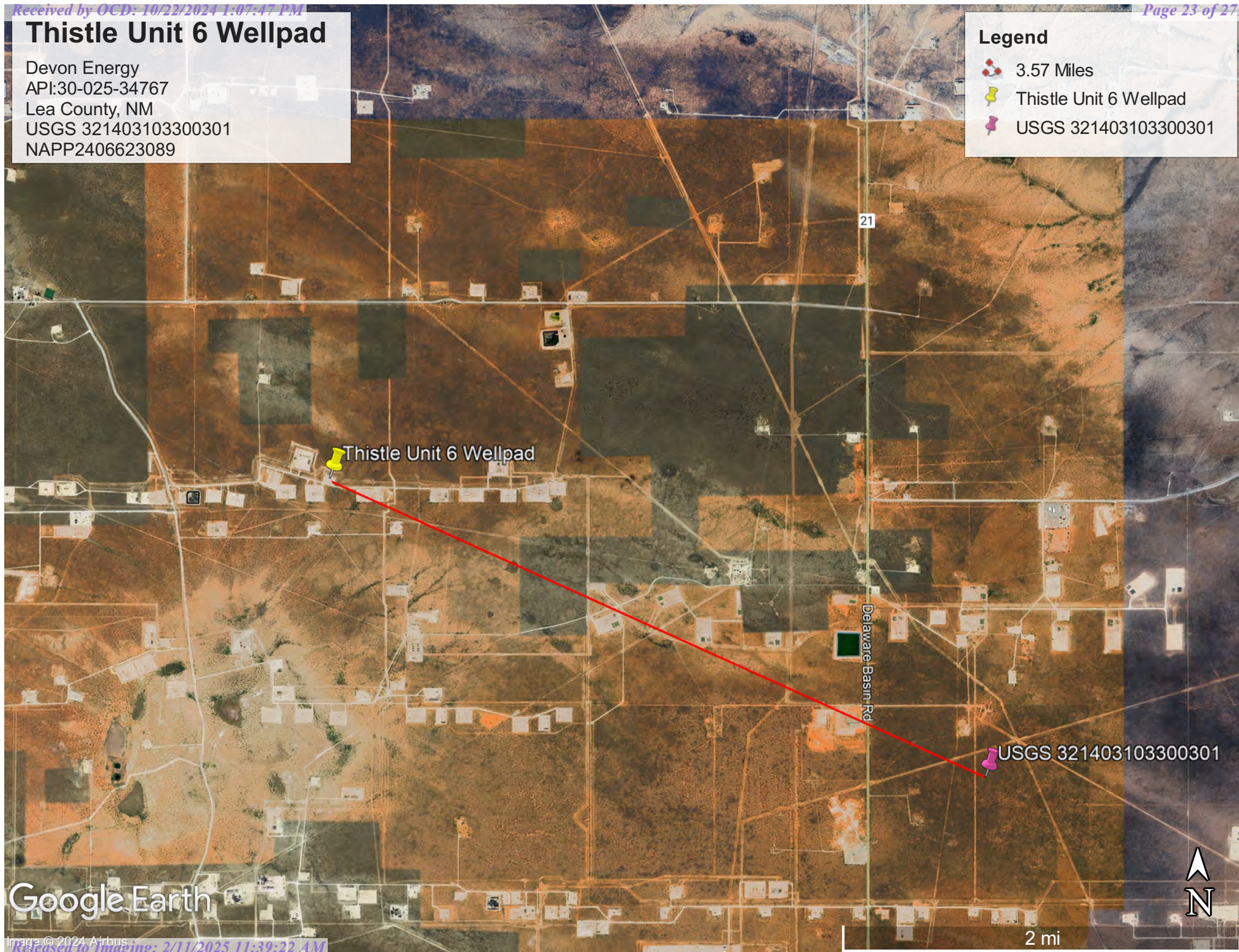
0.62 0.54 nadww01

Thistle Unit 6 Wellpad

Devon Energy
API:30-025-34767
Lea County, NM
USGS 321403103300301
NAPP2406623089

Legend

- 3.57 Miles
- Thistle Unit 6 Wellpad
- USGS 321403103300301



Google Earth

Thistle Unit 6 Wellpad

Devon Energy
API:30-025-34767
Lea County, NM
Surface Water Map
NAPP2406623089

Legend

- 9.40 Miles
- Salt Playa
- Thistle Unit 6 Wellpad



Google Earth



Appendix B

- Soil Survey & Soil Maps
- Geological Data
- FEMA Flood Map
- Wetlands Map

Map Unit Description: Berino-Cacique loamy fine sands association---Lea County, New Mexico

Lea County, New Mexico

BE—Berino-Cacique loamy fine sands association

Map Unit Setting

National map unit symbol: dmpd

Elevation: 3,000 to 3,900 feet

Mean annual precipitation: 10 to 13 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

Berino and similar soils: 50 percent

Cacique and similar soils: 40 percent

Minor components: 10 percent

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

Description of Berino

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 over calcareous sandy alluvium derived from sedimentary rock

Typical profile

A - 0 to 6 inches: loamy fine sand

Btk - 6 to 60 inches: sandy clay loam

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained

Runoff class: Low

Capacity of the most limiting layer to transmit water

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

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum content: 40 percent

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: Moderate (about 8.7 inches)

Map Unit Description: Berino-Cacique loamy fine sands association---Lea County, New Mexico

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7c

Hydrologic Soil Group: B

Ecological site: R070BD003NM - Loamy Sand

Hydric soil rating: No

Description of Cacique**Setting**

Landform: Plains

Landform position (three-dimensional): Rise

Down-slope shape: Linear

Across-slope shape: Linear

Parent material: Calcareous eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 12 inches: loamy fine sand

Bt - 12 to 28 inches: sandy clay loam

Bkm - 28 to 38 inches: cemented material

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: 20 to 40 inches to petrocalcic

Drainage class: Well drained

Runoff class: High

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 3.6 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7c

Hydrologic Soil Group: C

Ecological site: R070BD004NM - Sandy

Hydric soil rating: No

Minor Components**Maljamar**

Percent of map unit: 6 percent

Ecological site: R077CY028TX - Limy Upland 16-21" PZ

Hydric soil rating: No

Map Unit Description: Berino-Cacique loamy fine sands association---Lea County, New Mexico

Palomas

Percent of map unit: 4 percent

Ecological site: R070BD003NM - Loamy Sand

Hydric soil rating: No

Data Source Information

Soil Survey Area: Lea County, New Mexico

Survey Area Data: Version 20, Sep 6, 2023

Soil Map—Lea County, New Mexico




Natural Resources
Conservation Service

Web Soil Survey
National Cooperative Soil Survey


7/23/2024
Page 1 of 3

MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)




















Soils

 Soil Map Unit Polygons

 Soil Map Unit Lines


 Soil Map Unit Points

Special Point Features






-  Blowout
-  Borrow Pit
-  Clay Spot
-  Closed Depression
-  Gravel Pit
-  Gravelly Spot
-  Landfill
-  Lava Flow
-  Marsh or swamp
-  Mine or Quarry
-  Miscellaneous Water
-  Perennial Water
-  Rock Outcrop
-  Saline Spot
-  Sandy Spot
-  Severely Eroded Spot
-  Sinkhole
-  Slide or Slip
-  Sodic Spot

-  Spoil Area
-  Stony Spot
-  Very Stony Spot
-  Wet Spot
-  Other
-  Special Line Features

Water Features

 Streams and Canals

Transportation

-  Rails
-  Interstate Highways
-  US Routes
-  Major Roads
-  Local Roads

Background

 Aerial Photography

MAP INFORMATION

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

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

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

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

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

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

Soil Survey Area: Lea County, New Mexico
Survey Area Data: Version 20, Sep 6, 2023

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

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

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

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
BE	Berino-Cacique loamy fine sands association	1.8	100.0%
Totals for Area of Interest		1.8	100.0%

(<https://www.usgs.gov/>)

Mineral Resources (<https://www.usgs.gov/energy-and-minerals/mineral-resources-program>)
/ Online Spatial Data (/) / Geology (/geology/) / by state (/geology/state/)
/ New Mexico (/geology/state/state.php?state=NM)

Eolian and piedmont deposits

XML (/geology/state/xml/NMQep;0)	JSON (/geology/state/json/NMQep;0)
Shapefile (/geology/state/unit-shape.php?unit=NMQep;0)	

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.

State	New Mexico (/geology/state/state.php?state=NM)		
Name	Eolian and piedmont deposits		
Geologic age	Holocene to middle Pleistocene		
Lithologic constituents	Major Unconsolidated (Eolian) Interlayered eolian sands and piedmont-slope deposits		
References	New Mexico Bureau of Geology and Mineral Resources, 2003, Geologic Map of New Mexico, scale 1:500,000 (includes some new polygons, faults, and attributes not in NM001 - heads up digitizing by JHorton).		
NGMDB product	NGMDB product page for 22974 (https://ngmdb.usgs.gov/Prodesc/proddesc_22974.htm)		
Counties	Chaves (/geology/state/fips-unit.php?code=f35005) - DeBaca (/geology/state/fips-unit.php?code=f35011) - Eddy (/geology/state/fips-unit.php?code=f35015) - Lea (/geology/state/fips-unit.php?code=f35025) - Roosevelt (/geology/state/fips-unit.php?code=f35041)		

DOI Privacy Policy (<https://www.doi.gov/privacy>) | Legal (https://www.usgs.gov/laws/policies_notices.html) |
Accessibility (<https://www2.usgs.gov/laws/accessibility.html>) | Site Map (<https://www.usgs.gov/sitemap.html>) |
Contact USGS (<https://answers.usgs.gov/>)

U.S. Department of the Interior (<https://www.doi.gov/>) | DOI Inspector General (<https://www.doiig.gov/>) |








White House (<https://www.whitehouse.gov/>) | E-gov (<https://www.whitehouse.gov/omb/management/egov/>) |

No Fear Act (<https://www.doi.gov/pmb/eeo/no-fear-act>) | FOIA (<https://www2.usgs.gov/foia>)

Thistle Unit #6

Devon Energy
API: 30-025-34767
Lea County, NM
Geological Map
NAPP2406623089

Legend

-  Dikes, sills, veins
-  Eolian and piedmont deposits
-  Faults
-  Ogallala Formation
-  Older alluvial deposits of upland plains, piedmont areas, calcic soils, eolian cover sediments of High Plains region
-  Rustler Formation
-  Thistle Unit #6

Thistle Unit #6

Google Earth

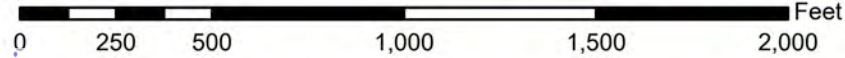


1 mi

National Flood Hazard Layer FIRMMette



103°33'43"W 32°15'35"N



1:6,000

103°33'6"W 32°15'5"N

Basemap Imagery Source: USGS National Map 2023

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
		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 X
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
GENERAL STRUCTURES		Area of Undetermined Flood Hazard Zone D
		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5 Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
MAP PANELS		Coastal Transect Baseline
		Profile Baseline
		Hydrographic Feature
		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

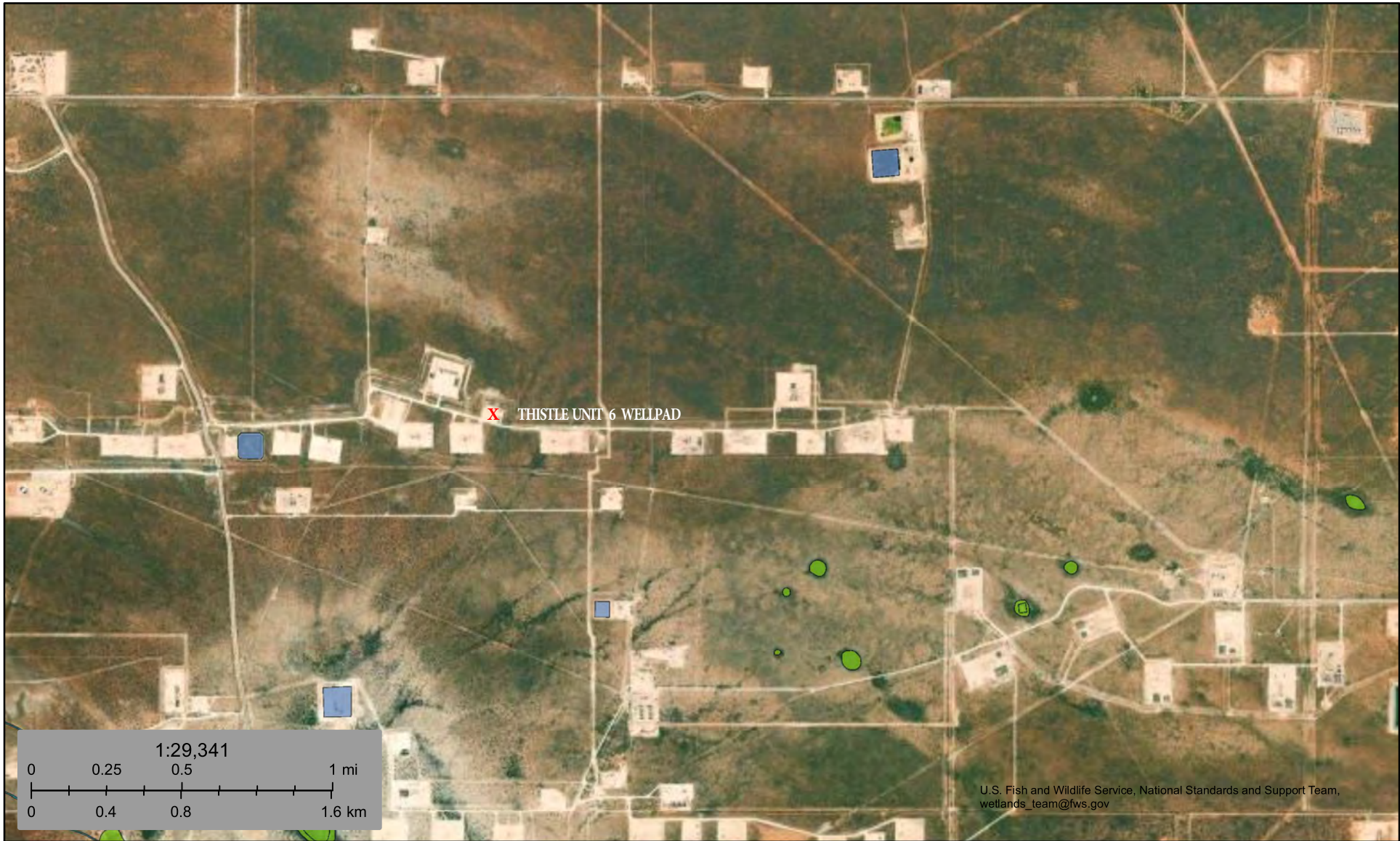
The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on **3/6/2024 at 11:12 AM** and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded 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.

Received by OCD: 10/23/2024 1:07:47 PM

Page 35 of 271

Wetlands



March 6, 2024

Wetlands

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

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



Appendix C

- 48-Hour Notifications
- NMOCD Correspondence

lynsey@pimaoil.com

From: Woodall, Dale <Dale.Woodall@dvn.com>
Sent: Thursday, July 11, 2024 1:17 PM
To: 'Gio PimaOil'; Tom Pima Oil; Delrae Pima Oil; Lynsey Pima Oil
Subject: FW: [EXTERNAL] The Oil Conservation Division (OCD) has accepted the application, Application ID: 363338

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

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Thursday, July 11, 2024 1:16 PM
To: Woodall, Dale <Dale.Woodall@dvn.com>
Subject: [EXTERNAL] The Oil Conservation Division (OCD) has accepted the application, Application ID: 363338

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

The OCD has received the submitted *Notification for (Final) Sampling of a Release (C-141N)*, for incident ID (n#) nAPP2406623089.

The sampling event is expected to take place:

When: 07/15/2024 @ 14:00

Where: O-34-23S-33E 620 FSL 1550 FEL (32.25555282,-103.5567415)

Additional Information: Andrew Franco -806-200-0054

Additional Instructions: From the Intersection of Delaware basin RD and Shell Rd, Travel north on Delaware Basin Rd for 0.94 miles, Turn west on lease Rd for 3.95 miles, turn South on Lease Rd for 1.03 miles, turn east on lease Rd for 0.79 of a mile arriving to location.

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

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

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

New Mexico Energy, Minerals and Natural Resources Department

1220 South St. Francis Drive

Santa Fe, NM 87505

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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 391796

QUESTIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 391796
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2406623089
Incident Name	NAPP2406623089 THISTLE UNIT 6 WELLPAD @ 0
Incident Type	Oil Release
Incident Status	Initial C-141 Approved

Location of Release Source	
Site Name	THISTLE UNIT 6 WELLPAD
Date Release Discovered	03/05/2024
Surface Owner	State

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	460
What is the estimated number of samples that will be gathered	9
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	10/15/2024
Time sampling will commence	08:00 AM
Please provide any information necessary for observers to contact samplers	Andrew Franco (806) 200-0054
Please provide any information necessary for navigation to sampling site	From the intersection of Delaware Basin Road and Shell Road, travel north on Delaware Basin Rd for 0.94 miles, turn west on lease road for 3.95 miles, turn south on lease road for 1.03 miles, turn east on lease road for 0.79 miles, continue into location.

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

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

District III
1000 Rio Brazos Rd., Aztec, NM 87410
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District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 391796

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 391796
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
wdale	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	10/10/2024

From: Woodall, Dale <Dale.Woodall@dvn.com>
Sent: Tuesday, September 17, 2024 10:13 AM
To: Gio PimaOil
Cc: Tom Pima Oil; Delrae Pima Oil; Lynsey Pima Oil
Subject: RE: FW: [EXTERNAL] The Oil Conservation Division (OCD) has rejected the application, Application ID: 373275

From: Gio PimaOil <gio@pimaoil.com>
Sent: Tuesday, September 17, 2024 10:11 AM
To: Woodall, Dale <Dale.Woodall@dvn.com>
Cc: Tom Pima Oil <tom@pimaoil.com>; Delrae Pima Oil <delrae@pimaoil.com>; Lynsey Pima Oil <lynsey@pimaoil.com>
Subject: Re: FW: [EXTERNAL] The Oil Conservation Division (OCD) has rejected the application, Application ID: 373275

This is the one I called you about, we are making the corrected actions to address the concerns

On Tue, Sep 17, 2024 at 10:06 AM Woodall, Dale <Dale.Woodall@dvn.com> wrote:

Another rejection by the OCD. See their comments and be mindful of their deadline. If we need to ask for an extension, request it closer to the date.

Dale Woodall

Environmental Professional

Hobbs, NM

Office: 575-748-1838

Mobile: 405-318-4697

Dale.Woodall@dvn.com

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Tuesday, September 17, 2024 10:01 AM
To: Woodall, Dale <Dale.Woodall@dvn.com>
Subject: [EXTERNAL] The Oil Conservation Division (OCD) has rejected the application, Application ID: 373275

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

The OCD has rejected the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nAPP2406623089, for the following reasons:

- **Based on the remediation closure report, impacted soils in the areas north, east and possibly west of the northern most production tank have not been addressed. Devon has until December 16, 2024 to redress the remaining impact portions and submit its appropriate or final remediation closure report.**

The rejected C-141 can be found in the OCD Online: Permitting - Action Status, under the Application ID: 373275.

Please review and make the required correction(s) prior to resubmitting.

If you have any questions why this application was rejected or believe it was rejected in error, please contact me prior to submitting an additional C-141.

Thank you,
Nelson Velez
Environmental Specialist - Advanced
505-469-6146
Nelson.Velez@emnrd.nm.gov

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

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--

Gia Gomer
Project Manager
cell-806-782-1151
Office- 575-964-7740
Pima Environmental Services, LLC.



Appendix D

○ Photographic Documentation

PHOTOGRAPHIC DOCUMENTATION

SITE NAME: Thistle Unit #6

Assessment:



Site information sign.



Photo taken of release that occurred Southeast of earthen containment while performing the assessment.



Photo taken of release that occurred Southeast of earthen containment while performing the assessment.



Photo taken of release that occurred Southeast of earthen containment while performing the assessment.



Photo taken of release that occurred Northeast of earthen containment while performing the assessment.



Photo taken of release that occurred Southeast of earthen containment while performing the assessment.



aerial photo of release by drone



aerial photo of release by drone



Photo taken of release that occurred Southeast of earthen containment while performing the assessment.



Photo taken of release that occurred Southeast of earthen containment while performing the assessment.

PHOTOGRAPHIC DOCUMENTATION

SITE NAME: Thistle Unit 6

Pre-Excavation : Northern side of Earthen Containment



Photo taken prior to excavation, taken facing South.



Photo taken prior to excavation, taken facing South.



Photo taken prior to excavation , taken facing Northeast.



PHOTOGRAPHIC DOCUMENTATION

SITE NAME: Thistle Unit #6

Pre Excavation:



Photo taken prior to excavation, taken facing South.



Photo taken prior to excavation, taken facing Northeast.

PHOTOGRAPHIC DOCUMENTATION

SITE NAME: Thistle Unit 6

Excavation:



Photo documenting the excavation process,
taken facing South.



Photo documenting the excavation process,
taken facing South.



Photo documenting the excavation process,
taken facing Northwest.



aerial photo taken of excavation site by drone



Photo showing the excavation completed .



Photo showing the excavation completed .



Photo showing the excavation completed .



Aerial photo taken of excavation site by drone



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 6

Work Order: E403085

Job Number: 01058-0007

Received: 3/8/2024

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
3/18/24

5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
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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.
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Envirotech Inc. holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.

Date Reported: 3/18/24

Tom Bynum
PO Box 247
Plains, TX 79355-0247



Project Name: Thistle Unit 6
Workorder: E403085
Date Received: 3/8/2024 6:15:00AM

Tom Bynum,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 3/8/2024 6:15:00AM, under the Project Name: Thistle Unit 6.

The analytical test results summarized in this report with the Project Name: Thistle Unit 6 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,

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Sample Summary

Pima Environmental Services-Carlsbad	Project Name:	Thistle Unit 6	Reported: 03/18/24 13:59
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
S1-1'	E403085-01A	Soil	03/06/24	03/08/24	Glass Jar, 2 oz.
S1 -2'	E403085-02A	Soil	03/06/24	03/08/24	Glass Jar, 2 oz.
S1-3'	E403085-03A	Soil	03/06/24	03/08/24	Glass Jar, 2 oz.
S1 -4'	E403085-04A	Soil	03/06/24	03/08/24	Glass Jar, 2 oz.
S2-1'	E403085-05A	Soil	03/06/24	03/08/24	Glass Jar, 2 oz.
S2-2'	E403085-06A	Soil	03/06/24	03/08/24	Glass Jar, 2 oz.
S2-3'	E403085-07A	Soil	03/06/24	03/08/24	Glass Jar, 2 oz.
S2-4'	E403085-08A	Soil	03/06/24	03/08/24	Glass Jar, 2 oz.
S3-1'	E403085-09A	Soil	03/06/24	03/08/24	Glass Jar, 2 oz.
S3-2'	E403085-10A	Soil	03/06/24	03/08/24	Glass Jar, 2 oz.
S3-3'	E403085-11A	Soil	03/06/24	03/08/24	Glass Jar, 2 oz.
S3-4'	E403085-12A	Soil	03/06/24	03/08/24	Glass Jar, 2 oz.
S4-1'	E403085-13A	Soil	03/06/24	03/08/24	Glass Jar, 2 oz.
S4-2'	E403085-14A	Soil	03/06/24	03/08/24	Glass Jar, 2 oz.
S4-3'	E403085-15A	Soil	03/06/24	03/08/24	Glass Jar, 2 oz.
S4-4'	E403085-16A	Soil	03/06/24	03/08/24	Glass Jar, 2 oz.
S5-1'	E403085-17A	Soil	03/06/24	03/08/24	Glass Jar, 2 oz.
S5-2'	E403085-18A	Soil	03/06/24	03/08/24	Glass Jar, 2 oz.
S5-3'	E403085-19A	Soil	03/06/24	03/08/24	Glass Jar, 2 oz.
S5-4'	E403085-20A	Soil	03/06/24	03/08/24	Glass Jar, 2 oz.
S6-1'	E403085-21A	Soil	03/06/24	03/08/24	Glass Jar, 2 oz.
S6-2'	E403085-22A	Soil	03/06/24	03/08/24	Glass Jar, 2 oz.
S6-3'	E403085-23A	Soil	03/06/24	03/08/24	Glass Jar, 2 oz.
S-4'	E403085-24A	Soil	03/06/24	03/08/24	Glass Jar, 2 oz.
SW1	E403085-25A	Soil	03/06/24	03/08/24	Glass Jar, 2 oz.
SW2	E403085-26A	Soil	03/06/24	03/08/24	Glass Jar, 2 oz.
SW3	E403085-27A	Soil	03/06/24	03/08/24	Glass Jar, 2 oz.
SW4	E403085-28A	Soil	03/06/24	03/08/24	Glass Jar, 2 oz.
SW5	E403085-29A	Soil	03/06/24	03/08/24	Glass Jar, 2 oz.
SW6	E403085-30A	Soil	03/06/24	03/08/24	Glass Jar, 2 oz.
BG1	E403085-31A	Soil	03/06/24	03/08/24	Glass Jar, 2 oz.
S5 -5'	E403085-32A	Soil	03/06/24	03/08/24	Glass Jar, 2 oz.
S6 -5'	E403085-33A	Soil	03/06/24	03/08/24	Glass Jar, 2 oz.



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Thistle Unit 6 Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 3/18/2024 1:59:37PM
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S1-1'
E403085-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2411001	
Benzene	ND	0.0250	1	03/10/24	03/14/24	
Ethylbenzene	ND	0.0250	1	03/10/24	03/14/24	
Toluene	ND	0.0250	1	03/10/24	03/14/24	
o-Xylene	ND	0.0250	1	03/10/24	03/14/24	
p,m-Xylene	ND	0.0500	1	03/10/24	03/14/24	
Total Xylenes	ND	0.0250	1	03/10/24	03/14/24	
Surrogate: 4-Bromochlorobenzene-PID	97.9 %	70-130		03/10/24	03/14/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2411001	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/10/24	03/14/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	88.7 %	70-130		03/10/24	03/14/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2411017	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/11/24	03/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/11/24	03/12/24	
Surrogate: n-Nonane	96.3 %	50-200		03/11/24	03/12/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2411058	
Chloride	86.4	20.0	1	03/12/24	03/16/24	



Sample Data

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

Project Name: Thistle Unit 6
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
3/18/2024 1:59:37PM

S1 -2'

E403085-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2411001
Benzene	ND	0.0250	1	03/10/24	03/14/24	
Ethylbenzene	ND	0.0250	1	03/10/24	03/14/24	
Toluene	ND	0.0250	1	03/10/24	03/14/24	
o-Xylene	ND	0.0250	1	03/10/24	03/14/24	
p,m-Xylene	ND	0.0500	1	03/10/24	03/14/24	
Total Xylenes	ND	0.0250	1	03/10/24	03/14/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.0 %	70-130		03/10/24	03/14/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2411001
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/10/24	03/14/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	89.1 %	70-130		03/10/24	03/14/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2411017
Diesel Range Organics (C10-C28)	ND	25.0	1	03/11/24	03/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/11/24	03/12/24	
<i>Surrogate: n-Nonane</i>						
	92.0 %	50-200		03/11/24	03/12/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2411058
Chloride	79.0	20.0	1	03/12/24	03/16/24	



Sample Data

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

Project Name: Thistle Unit 6
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
3/18/2024 1:59:37PM

S1-3'

E403085-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2411001
Benzene	ND	0.0250	1	03/10/24	03/14/24	
Ethylbenzene	ND	0.0250	1	03/10/24	03/14/24	
Toluene	ND	0.0250	1	03/10/24	03/14/24	
o-Xylene	ND	0.0250	1	03/10/24	03/14/24	
p,m-Xylene	ND	0.0500	1	03/10/24	03/14/24	
Total Xylenes	ND	0.0250	1	03/10/24	03/14/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.0 %	70-130		03/10/24	03/14/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2411001
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/10/24	03/14/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	89.7 %	70-130		03/10/24	03/14/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2411017
Diesel Range Organics (C10-C28)	42.8	25.0	1	03/11/24	03/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/11/24	03/12/24	
<i>Surrogate: n-Nonane</i>						
	101 %	50-200		03/11/24	03/12/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2411058
Chloride	35.7	20.0	1	03/12/24	03/16/24	



Sample Data

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

Project Name: Thistle Unit 6
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
3/18/2024 1:59:37PM

S1 -4'

E403085-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2411001
Benzene	ND	0.0250	1	03/10/24	03/14/24	
Ethylbenzene	ND	0.0250	1	03/10/24	03/14/24	
Toluene	ND	0.0250	1	03/10/24	03/14/24	
o-Xylene	ND	0.0250	1	03/10/24	03/14/24	
p,m-Xylene	ND	0.0500	1	03/10/24	03/14/24	
Total Xylenes	ND	0.0250	1	03/10/24	03/14/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.1 %	70-130		03/10/24	03/14/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2411001
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/10/24	03/14/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	88.0 %	70-130		03/10/24	03/14/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2411017
Diesel Range Organics (C10-C28)	ND	25.0	1	03/11/24	03/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/11/24	03/12/24	
<i>Surrogate: n-Nonane</i>						
	102 %	50-200		03/11/24	03/12/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2411058
Chloride	ND	20.0	1	03/12/24	03/16/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Thistle Unit 6	Reported: 3/18/2024 1:59:37PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

S2-1'

E403085-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2411001	
Benzene	ND	0.125	5	03/10/24	03/16/24	
Ethylbenzene	14.6	0.125	5	03/10/24	03/16/24	
Toluene	8.64	0.125	5	03/10/24	03/16/24	
o-Xylene	19.4	0.125	5	03/10/24	03/16/24	
p,m-Xylene	43.0	0.250	5	03/10/24	03/16/24	
Total Xylenes	62.5	0.125	5	03/10/24	03/16/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		109 %	70-130	03/10/24	03/16/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2411001	
Gasoline Range Organics (C6-C10)	427	100	5	03/10/24	03/16/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		92.2 %	70-130	03/10/24	03/16/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2411017	
Diesel Range Organics (C10-C28)	19900	50.0	2	03/11/24	03/12/24	
Oil Range Organics (C28-C36)	5350	100	2	03/11/24	03/12/24	
<i>Surrogate: n-Nonane</i>						
		444 %	50-200	03/11/24	03/12/24	S5
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2411058	
Chloride	3380	40.0	2	03/12/24	03/16/24	



Sample Data

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

Project Name: Thistle Unit 6
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
3/18/2024 1:59:37PM

S2-2'

E403085-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2411001	
Benzene	ND	0.0250	1	03/10/24	03/14/24	
Ethylbenzene	ND	0.0250	1	03/10/24	03/14/24	
Toluene	ND	0.0250	1	03/10/24	03/14/24	
o-Xylene	ND	0.0250	1	03/10/24	03/14/24	
p,m-Xylene	ND	0.0500	1	03/10/24	03/14/24	
Total Xylenes	ND	0.0250	1	03/10/24	03/14/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		103 %	70-130	03/10/24	03/14/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2411001	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/10/24	03/14/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		88.5 %	70-130	03/10/24	03/14/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2411017	
Diesel Range Organics (C10-C28)	113	25.0	1	03/11/24	03/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/11/24	03/12/24	
<i>Surrogate: n-Nonane</i>		98.3 %	50-200	03/11/24	03/12/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2411058	
Chloride	1520	20.0	1	03/12/24	03/16/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Thistle Unit 6	Reported: 3/18/2024 1:59:37PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

S2-3'

E403085-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2411001	
Benzene	ND	0.0250	1	03/10/24	03/14/24	
Ethylbenzene	0.195	0.0250	1	03/10/24	03/14/24	
Toluene	ND	0.0250	1	03/10/24	03/14/24	
o-Xylene	0.392	0.0250	1	03/10/24	03/14/24	
p,m-Xylene	0.864	0.0500	1	03/10/24	03/14/24	
Total Xylenes	1.26	0.0250	1	03/10/24	03/14/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		110 %	70-130	03/10/24	03/14/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2411001	
Gasoline Range Organics (C6-C10)	25.2	20.0	1	03/10/24	03/14/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		89.5 %	70-130	03/10/24	03/14/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2411017	
Diesel Range Organics (C10-C28)	695	25.0	1	03/11/24	03/12/24	
Oil Range Organics (C28-C36)	212	50.0	1	03/11/24	03/12/24	
<i>Surrogate: n-Nonane</i>						
		106 %	50-200	03/11/24	03/12/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2411058	
Chloride	364	20.0	1	03/12/24	03/16/24	



Sample Data

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

Project Name: Thistle Unit 6
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
3/18/2024 1:59:37PM

S2-4'

E403085-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2411001	
Benzene	ND	0.0250	1	03/10/24	03/14/24	
Ethylbenzene	0.103	0.0250	1	03/10/24	03/14/24	
Toluene	ND	0.0250	1	03/10/24	03/14/24	
o-Xylene	0.208	0.0250	1	03/10/24	03/14/24	
p,m-Xylene	0.439	0.0500	1	03/10/24	03/14/24	
Total Xylenes	0.648	0.0250	1	03/10/24	03/14/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		108 %	70-130	03/10/24	03/14/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2411001	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/10/24	03/14/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		88.6 %	70-130	03/10/24	03/14/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2411017	
Diesel Range Organics (C10-C28)	470	25.0	1	03/11/24	03/12/24	
Oil Range Organics (C28-C36)	149	50.0	1	03/11/24	03/12/24	
<i>Surrogate: n-Nonane</i>		105 %	50-200	03/11/24	03/12/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2411058	
Chloride	244	20.0	1	03/12/24	03/16/24	



Sample Data

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

Project Name: Thistle Unit 6
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
3/18/2024 1:59:37PM

S3-1'

E403085-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2411001	
Benzene	ND	0.0250	1	03/10/24	03/14/24	
Ethylbenzene	ND	0.0250	1	03/10/24	03/14/24	
Toluene	ND	0.0250	1	03/10/24	03/14/24	
o-Xylene	ND	0.0250	1	03/10/24	03/14/24	
p,m-Xylene	ND	0.0500	1	03/10/24	03/14/24	
Total Xylenes	ND	0.0250	1	03/10/24	03/14/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		102 %	70-130	03/10/24	03/14/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2411001	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/10/24	03/14/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		88.1 %	70-130	03/10/24	03/14/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2411017	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/11/24	03/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/11/24	03/12/24	
<i>Surrogate: n-Nonane</i>						
		100 %	50-200	03/11/24	03/12/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2411058	
Chloride	83.8	20.0	1	03/12/24	03/16/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Thistle Unit 6	Reported: 3/18/2024 1:59:37PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

S3-2'

E403085-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2411001	
Benzene	ND	0.0250	1	03/10/24	03/14/24	
Ethylbenzene	ND	0.0250	1	03/10/24	03/14/24	
Toluene	ND	0.0250	1	03/10/24	03/14/24	
o-Xylene	ND	0.0250	1	03/10/24	03/14/24	
p,m-Xylene	ND	0.0500	1	03/10/24	03/14/24	
Total Xylenes	ND	0.0250	1	03/10/24	03/14/24	
Surrogate: 4-Bromochlorobenzene-PID	100 %	70-130		03/10/24	03/14/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2411001	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/10/24	03/14/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	88.4 %	70-130		03/10/24	03/14/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2411017	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/11/24	03/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/11/24	03/12/24	
Surrogate: n-Nonane	115 %	50-200		03/11/24	03/12/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2411058	
Chloride	84.6	20.0	1	03/12/24	03/16/24	



Sample Data

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

Project Name: Thistle Unit 6
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
3/18/2024 1:59:37PM

S3-3'

E403085-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2411001	
Benzene	ND	0.0250	1	03/10/24	03/14/24	
Ethylbenzene	ND	0.0250	1	03/10/24	03/14/24	
Toluene	ND	0.0250	1	03/10/24	03/14/24	
o-Xylene	ND	0.0250	1	03/10/24	03/14/24	
p,m-Xylene	ND	0.0500	1	03/10/24	03/14/24	
Total Xylenes	ND	0.0250	1	03/10/24	03/14/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.6 %	70-130		03/10/24	03/14/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2411001	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/10/24	03/14/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	87.7 %	70-130		03/10/24	03/14/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2411017	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/11/24	03/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/11/24	03/12/24	
<i>Surrogate: n-Nonane</i>						
	102 %	50-200		03/11/24	03/12/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2411058	
Chloride	25.3	20.0	1	03/12/24	03/16/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Thistle Unit 6	Reported: 3/18/2024 1:59:37PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

S3-4'

E403085-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2411001	
Benzene	ND	0.0250	1	03/10/24	03/14/24	
Ethylbenzene	ND	0.0250	1	03/10/24	03/14/24	
Toluene	ND	0.0250	1	03/10/24	03/14/24	
o-Xylene	ND	0.0250	1	03/10/24	03/14/24	
p,m-Xylene	ND	0.0500	1	03/10/24	03/14/24	
Total Xylenes	ND	0.0250	1	03/10/24	03/14/24	
Surrogate: 4-Bromochlorobenzene-PID	100 %	70-130		03/10/24	03/14/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2411001	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/10/24	03/14/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	89.1 %	70-130		03/10/24	03/14/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2411017	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/11/24	03/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/11/24	03/12/24	
Surrogate: n-Nonane	98.9 %	50-200		03/11/24	03/12/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2411058	
Chloride	ND	20.0	1	03/12/24	03/16/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Thistle Unit 6	Reported: 3/18/2024 1:59:37PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

S4-1'

E403085-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2411001	
Benzene	ND	0.0500	2	03/10/24	03/16/24	
Ethylbenzene	9.43	0.0500	2	03/10/24	03/16/24	
Toluene	6.77	0.0500	2	03/10/24	03/16/24	
o-Xylene	12.5	0.0500	2	03/10/24	03/16/24	
p,m-Xylene	27.7	0.100	2	03/10/24	03/16/24	
Total Xylenes	40.2	0.0500	2	03/10/24	03/16/24	
Surrogate: 4-Bromochlorobenzene-PID	109 %	70-130		03/10/24	03/16/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2411001	
Gasoline Range Organics (C6-C10)	261	40.0	2	03/10/24	03/16/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	93.4 %	70-130		03/10/24	03/16/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2411017	
Diesel Range Organics (C10-C28)	14600	125	5	03/11/24	03/12/24	
Oil Range Organics (C28-C36)	4300	250	5	03/11/24	03/12/24	
Surrogate: n-Nonane	357 %	50-200		03/11/24	03/12/24	S5
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2411058	
Chloride	2600	40.0	2	03/12/24	03/16/24	



Sample Data

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

Project Name: Thistle Unit 6
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
3/18/2024 1:59:37PM

S4-2'

E403085-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2411001
Benzene	ND	0.0250	1	03/10/24	03/14/24	
Ethylbenzene	ND	0.0250	1	03/10/24	03/14/24	
Toluene	ND	0.0250	1	03/10/24	03/14/24	
o-Xylene	ND	0.0250	1	03/10/24	03/14/24	
p,m-Xylene	ND	0.0500	1	03/10/24	03/14/24	
Total Xylenes	ND	0.0250	1	03/10/24	03/14/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.9 %	70-130		03/10/24	03/14/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2411001
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/10/24	03/14/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	89.1 %	70-130		03/10/24	03/14/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2411017
Diesel Range Organics (C10-C28)	ND	25.0	1	03/11/24	03/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/11/24	03/12/24	
<i>Surrogate: n-Nonane</i>						
	102 %	50-200		03/11/24	03/12/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2411058
Chloride	76.9	20.0	1	03/12/24	03/16/24	



Sample Data

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

Project Name: Thistle Unit 6
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
3/18/2024 1:59:37PM

S4-3'

E403085-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2411001
Benzene	ND	0.0250	1	03/10/24	03/14/24	
Ethylbenzene	0.173	0.0250	1	03/10/24	03/14/24	
Toluene	ND	0.0250	1	03/10/24	03/14/24	
o-Xylene	0.354	0.0250	1	03/10/24	03/14/24	
p,m-Xylene	0.767	0.0500	1	03/10/24	03/14/24	
Total Xylenes	1.12	0.0250	1	03/10/24	03/14/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		108 %	70-130	03/10/24	03/14/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2411001
Gasoline Range Organics (C6-C10)	21.8	20.0	1	03/10/24	03/14/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		89.8 %	70-130	03/10/24	03/14/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2411017
Diesel Range Organics (C10-C28)	870	25.0	1	03/11/24	03/12/24	
Oil Range Organics (C28-C36)	272	50.0	1	03/11/24	03/12/24	
<i>Surrogate: n-Nonane</i>						
		105 %	50-200	03/11/24	03/12/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2411058
Chloride	358	20.0	1	03/12/24	03/16/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Thistle Unit 6	Reported: 3/18/2024 1:59:37PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

S4-4'

E403085-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2411001	
Benzene	ND	0.0250	1	03/10/24	03/14/24	
Ethylbenzene	0.109	0.0250	1	03/10/24	03/14/24	
Toluene	ND	0.0250	1	03/10/24	03/14/24	
o-Xylene	0.217	0.0250	1	03/10/24	03/14/24	
p,m-Xylene	0.455	0.0500	1	03/10/24	03/14/24	
Total Xylenes	0.673	0.0250	1	03/10/24	03/14/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		107 %	70-130	03/10/24	03/14/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2411001	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/10/24	03/14/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		89.1 %	70-130	03/10/24	03/14/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2411017	
Diesel Range Organics (C10-C28)	517	25.0	1	03/11/24	03/12/24	
Oil Range Organics (C28-C36)	161	50.0	1	03/11/24	03/12/24	
<i>Surrogate: n-Nonane</i>						
		102 %	50-200	03/11/24	03/12/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2411058	
Chloride	245	20.0	1	03/12/24	03/16/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Thistle Unit 6	Reported: 3/18/2024 1:59:37PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

S5-1'

E403085-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2411001	
Benzene	ND	0.250	10	03/10/24	03/16/24	
Ethylbenzene	20.0	0.250	10	03/10/24	03/16/24	
Toluene	11.7	0.250	10	03/10/24	03/16/24	
o-Xylene	26.9	0.250	10	03/10/24	03/16/24	
p,m-Xylene	59.1	0.500	10	03/10/24	03/16/24	
Total Xylenes	86.0	0.250	10	03/10/24	03/16/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		107 %	70-130	03/10/24	03/16/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2411001	
Gasoline Range Organics (C6-C10)	652	200	10	03/10/24	03/16/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		92.0 %	70-130	03/10/24	03/16/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2411017	
Diesel Range Organics (C10-C28)	22300	125	5	03/11/24	03/12/24	
Oil Range Organics (C28-C36)	6970	250	5	03/11/24	03/12/24	
<i>Surrogate: n-Nonane</i>						
		519 %	50-200	03/11/24	03/12/24	S5
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2411058	
Chloride	3490	40.0	2	03/12/24	03/16/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Thistle Unit 6	Reported: 3/18/2024 1:59:37PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

S5-2'

E403085-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2411001	
Benzene	ND	0.0250	1	03/10/24	03/14/24	
Ethylbenzene	1.01	0.0250	1	03/10/24	03/14/24	
Toluene	0.0977	0.0250	1	03/10/24	03/14/24	
o-Xylene	1.92	0.0250	1	03/10/24	03/14/24	
p,m-Xylene	3.95	0.0500	1	03/10/24	03/14/24	
Total Xylenes	5.87	0.0250	1	03/10/24	03/14/24	
Surrogate: 4-Bromochlorobenzene-PID		118 %	70-130	03/10/24	03/14/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2411001	
Gasoline Range Organics (C6-C10)	78.5	20.0	1	03/10/24	03/14/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.2 %	70-130	03/10/24	03/14/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2411017	
Diesel Range Organics (C10-C28)	2270	50.0	2	03/11/24	03/14/24	
Oil Range Organics (C28-C36)	728	100	2	03/11/24	03/14/24	
Surrogate: n-Nonane		119 %	50-200	03/11/24	03/14/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2411058	
Chloride	3130	40.0	2	03/12/24	03/16/24	



Sample Data

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

Project Name: Thistle Unit 6
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
3/18/2024 1:59:37PM

S5-3'

E403085-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2411001	
Benzene	ND	0.0250	1	03/10/24	03/15/24	
Ethylbenzene	0.0856	0.0250	1	03/10/24	03/15/24	
Toluene	ND	0.0250	1	03/10/24	03/15/24	
o-Xylene	0.192	0.0250	1	03/10/24	03/15/24	
p,m-Xylene	0.374	0.0500	1	03/10/24	03/15/24	
Total Xylenes	0.565	0.0250	1	03/10/24	03/15/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		106 %	70-130	03/10/24	03/15/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2411001	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/10/24	03/15/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		88.4 %	70-130	03/10/24	03/15/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2411017	
Diesel Range Organics (C10-C28)	656	25.0	1	03/11/24	03/14/24	
Oil Range Organics (C28-C36)	232	50.0	1	03/11/24	03/14/24	
<i>Surrogate: n-Nonane</i>		107 %	50-200	03/11/24	03/14/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2411058	
Chloride	343	20.0	1	03/12/24	03/16/24	



Sample Data

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

Project Name: Thistle Unit 6
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
3/18/2024 1:59:37PM

S5-4'

E403085-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2411001	
Benzene	ND	0.0250	1	03/10/24	03/15/24	
Ethylbenzene	0.175	0.0250	1	03/10/24	03/15/24	
Toluene	0.0487	0.0250	1	03/10/24	03/15/24	
o-Xylene	0.247	0.0250	1	03/10/24	03/15/24	
p,m-Xylene	0.565	0.0500	1	03/10/24	03/15/24	
Total Xylenes	0.812	0.0250	1	03/10/24	03/15/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	106 %	70-130		03/10/24	03/15/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2411001	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/10/24	03/15/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	88.9 %	70-130		03/10/24	03/15/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2411017	
Diesel Range Organics (C10-C28)	400	25.0	1	03/11/24	03/14/24	
Oil Range Organics (C28-C36)	137	50.0	1	03/11/24	03/14/24	
<i>Surrogate: n-Nonane</i>						
	102 %	50-200		03/11/24	03/14/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2411058	
Chloride	248	20.0	1	03/12/24	03/16/24	



Sample Data

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

Project Name: Thistle Unit 6
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
3/18/2024 1:59:37PM

S6-1'

E403085-21

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2411005	
Benzene	ND	0.125	5	03/10/24	03/16/24	
Ethylbenzene	6.67	0.125	5	03/10/24	03/16/24	
Toluene	4.36	0.125	5	03/10/24	03/16/24	
o-Xylene	9.08	0.125	5	03/10/24	03/16/24	
p,m-Xylene	19.6	0.250	5	03/10/24	03/16/24	
Total Xylenes	28.7	0.125	5	03/10/24	03/16/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		106 %	70-130	03/10/24	03/16/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2411005	
Gasoline Range Organics (C6-C10)	167	100	5	03/10/24	03/16/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		90.0 %	70-130	03/10/24	03/16/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2410150	
Diesel Range Organics (C10-C28)	18200	500	20	03/09/24	03/14/24	
Oil Range Organics (C28-C36)	5540	1000	20	03/09/24	03/14/24	
<i>Surrogate: n-Nonane</i>						
		406 %	50-200	03/09/24	03/14/24	S5
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2411085	
Chloride	3710	40.0	2	03/13/24	03/16/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Thistle Unit 6	Reported: 3/18/2024 1:59:37PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

S6-2'

E403085-22

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2411005	
Benzene	ND	0.0500	2	03/10/24	03/18/24	
Ethylbenzene	3.87	0.0500	2	03/10/24	03/18/24	
Toluene	2.91	0.0500	2	03/10/24	03/18/24	
o-Xylene	5.07	0.0500	2	03/10/24	03/18/24	
p,m-Xylene	11.0	0.100	2	03/10/24	03/18/24	
Total Xylenes	16.1	0.0500	2	03/10/24	03/18/24	
Surrogate: 4-Bromochlorobenzene-PID		106 %	70-130	03/10/24	03/18/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2411005	
Gasoline Range Organics (C6-C10)	91.2	40.0	2	03/10/24	03/18/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.9 %	70-130	03/10/24	03/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2410150	
Diesel Range Organics (C10-C28)	15500	500	20	03/09/24	03/14/24	
Oil Range Organics (C28-C36)	5980	1000	20	03/09/24	03/14/24	
Surrogate: n-Nonane		315 %	50-200	03/09/24	03/14/24	S5
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2411085	
Chloride	2970	40.0	2	03/13/24	03/16/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Thistle Unit 6	Reported: 3/18/2024 1:59:37PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

S6-3'

E403085-23

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2411005	
Benzene	ND	0.0250	1	03/10/24	03/13/24	
Ethylbenzene	0.104	0.0250	1	03/10/24	03/13/24	
Toluene	ND	0.0250	1	03/10/24	03/13/24	
o-Xylene	0.224	0.0250	1	03/10/24	03/13/24	
p,m-Xylene	0.470	0.0500	1	03/10/24	03/13/24	
Total Xylenes	0.694	0.0250	1	03/10/24	03/13/24	
Surrogate: 4-Bromochlorobenzene-PID	107 %	70-130		03/10/24	03/13/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2411005	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/10/24	03/13/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	89.1 %	70-130		03/10/24	03/13/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2410150	
Diesel Range Organics (C10-C28)	594	25.0	1	03/09/24	03/14/24	
Oil Range Organics (C28-C36)	209	50.0	1	03/09/24	03/14/24	
Surrogate: n-Nonane	105 %	50-200		03/09/24	03/14/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2411085	
Chloride	334	20.0	1	03/13/24	03/16/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Thistle Unit 6	Reported: 3/18/2024 1:59:37PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

S-4'

E403085-24

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2411005	
Benzene	ND	0.0250	1	03/10/24	03/13/24	
Ethylbenzene	0.0742	0.0250	1	03/10/24	03/13/24	
Toluene	ND	0.0250	1	03/10/24	03/13/24	
o-Xylene	0.114	0.0250	1	03/10/24	03/13/24	
p,m-Xylene	0.265	0.0500	1	03/10/24	03/13/24	
Total Xylenes	0.379	0.0250	1	03/10/24	03/13/24	
Surrogate: 4-Bromochlorobenzene-PID	105 %	70-130		03/10/24	03/13/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2411005	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/10/24	03/13/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	88.1 %	70-130		03/10/24	03/13/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2410150	
Diesel Range Organics (C10-C28)	160	25.0	1	03/09/24	03/14/24	
Oil Range Organics (C28-C36)	52.1	50.0	1	03/09/24	03/14/24	
Surrogate: n-Nonane	95.1 %	50-200		03/09/24	03/14/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2411085	
Chloride	172	20.0	1	03/13/24	03/16/24	



Sample Data

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

Project Name: Thistle Unit 6
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
3/18/2024 1:59:37PM

SW1

E403085-25

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2411005	
Benzene	ND	0.0250	1	03/10/24	03/13/24	
Ethylbenzene	ND	0.0250	1	03/10/24	03/13/24	
Toluene	ND	0.0250	1	03/10/24	03/13/24	
o-Xylene	ND	0.0250	1	03/10/24	03/13/24	
p,m-Xylene	ND	0.0500	1	03/10/24	03/13/24	
Total Xylenes	ND	0.0250	1	03/10/24	03/13/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.2 %	70-130		03/10/24	03/13/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2411005	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/10/24	03/13/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	88.3 %	70-130		03/10/24	03/13/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2410150	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/09/24	03/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/09/24	03/14/24	
<i>Surrogate: n-Nonane</i>						
	107 %	50-200		03/09/24	03/14/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2411085	
Chloride	ND	20.0	1	03/13/24	03/16/24	



Sample Data

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

Project Name: Thistle Unit 6
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
3/18/2024 1:59:37PM

SW2

E403085-26

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2411005	
Benzene	ND	0.0250	1	03/10/24	03/13/24	
Ethylbenzene	ND	0.0250	1	03/10/24	03/13/24	
Toluene	ND	0.0250	1	03/10/24	03/13/24	
o-Xylene	ND	0.0250	1	03/10/24	03/13/24	
p,m-Xylene	ND	0.0500	1	03/10/24	03/13/24	
Total Xylenes	ND	0.0250	1	03/10/24	03/13/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.4 %	70-130		03/10/24	03/13/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2411005	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/10/24	03/13/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	87.9 %	70-130		03/10/24	03/13/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2410150	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/09/24	03/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/09/24	03/14/24	
<i>Surrogate: n-Nonane</i>						
	110 %	50-200		03/09/24	03/14/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2411085	
Chloride	ND	20.0	1	03/13/24	03/16/24	



Sample Data

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

Project Name: Thistle Unit 6
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
3/18/2024 1:59:37PM

SW3

E403085-27

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2411005
Benzene	ND	0.0250	1	03/10/24	03/13/24	
Ethylbenzene	ND	0.0250	1	03/10/24	03/13/24	
Toluene	ND	0.0250	1	03/10/24	03/13/24	
o-Xylene	ND	0.0250	1	03/10/24	03/13/24	
p,m-Xylene	ND	0.0500	1	03/10/24	03/13/24	
Total Xylenes	ND	0.0250	1	03/10/24	03/13/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.6 %	70-130		03/10/24	03/13/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2411005
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/10/24	03/13/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	88.7 %	70-130		03/10/24	03/13/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2410150
Diesel Range Organics (C10-C28)	ND	25.0	1	03/09/24	03/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/09/24	03/14/24	
<i>Surrogate: n-Nonane</i>						
	96.3 %	50-200		03/09/24	03/14/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2411085
Chloride	ND	20.0	1	03/13/24	03/16/24	



Sample Data

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

Project Name: Thistle Unit 6
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
3/18/2024 1:59:37PM

SW4

E403085-28

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2411005	
Benzene	ND	0.0250	1	03/10/24	03/13/24	
Ethylbenzene	ND	0.0250	1	03/10/24	03/13/24	
Toluene	ND	0.0250	1	03/10/24	03/13/24	
o-Xylene	ND	0.0250	1	03/10/24	03/13/24	
p,m-Xylene	ND	0.0500	1	03/10/24	03/13/24	
Total Xylenes	ND	0.0250	1	03/10/24	03/13/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.6 %	70-130		03/10/24	03/13/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2411005	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/10/24	03/13/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	89.2 %	70-130		03/10/24	03/13/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2410150	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/09/24	03/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/09/24	03/14/24	
<i>Surrogate: n-Nonane</i>						
	107 %	50-200		03/09/24	03/14/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2411085	
Chloride	ND	20.0	1	03/13/24	03/16/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Thistle Unit 6	Reported: 3/18/2024 1:59:37PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

SW5

E403085-29

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2411005	
Benzene	ND	0.0250	1	03/10/24	03/13/24	
Ethylbenzene	ND	0.0250	1	03/10/24	03/13/24	
Toluene	ND	0.0250	1	03/10/24	03/13/24	
o-Xylene	ND	0.0250	1	03/10/24	03/13/24	
p,m-Xylene	ND	0.0500	1	03/10/24	03/13/24	
Total Xylenes	ND	0.0250	1	03/10/24	03/13/24	
Surrogate: 4-Bromochlorobenzene-PID	99.5 %	70-130		03/10/24	03/13/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2411005	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/10/24	03/13/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	88.4 %	70-130		03/10/24	03/13/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2410150	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/09/24	03/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/09/24	03/14/24	
Surrogate: n-Nonane	108 %	50-200		03/09/24	03/14/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2411085	
Chloride	ND	20.0	1	03/13/24	03/16/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Thistle Unit 6	Reported: 3/18/2024 1:59:37PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

SW6

E403085-30

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2411005	
Benzene	ND	0.0250	1	03/10/24	03/13/24	
Ethylbenzene	ND	0.0250	1	03/10/24	03/13/24	
Toluene	ND	0.0250	1	03/10/24	03/13/24	
o-Xylene	ND	0.0250	1	03/10/24	03/13/24	
p,m-Xylene	ND	0.0500	1	03/10/24	03/13/24	
Total Xylenes	ND	0.0250	1	03/10/24	03/13/24	
Surrogate: 4-Bromochlorobenzene-PID	98.0 %	70-130		03/10/24	03/13/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2411005	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/10/24	03/13/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	88.3 %	70-130		03/10/24	03/13/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2410150	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/09/24	03/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/09/24	03/14/24	
Surrogate: n-Nonane	106 %	50-200		03/09/24	03/14/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2411085	
Chloride	ND	20.0	1	03/13/24	03/16/24	



Sample Data

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

Project Name: Thistle Unit 6
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
3/18/2024 1:59:37PM

BG1

E403085-31

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2411005
Benzene	ND	0.0250	1	03/10/24	03/13/24	
Ethylbenzene	ND	0.0250	1	03/10/24	03/13/24	
Toluene	ND	0.0250	1	03/10/24	03/13/24	
o-Xylene	ND	0.0250	1	03/10/24	03/13/24	
p,m-Xylene	ND	0.0500	1	03/10/24	03/13/24	
Total Xylenes	ND	0.0250	1	03/10/24	03/13/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.0 %	70-130		03/10/24	03/13/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2411005
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/10/24	03/13/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	88.5 %	70-130		03/10/24	03/13/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2410150
Diesel Range Organics (C10-C28)	ND	25.0	1	03/09/24	03/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/09/24	03/14/24	
<i>Surrogate: n-Nonane</i>						
	109 %	50-200		03/09/24	03/14/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2411084
Chloride	ND	20.0	1	03/13/24	03/13/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Thistle Unit 6	Reported: 3/18/2024 1:59:37PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

S5 -5'

E403085-32

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2411005	
Benzene	ND	0.0250	1	03/10/24	03/13/24	
Ethylbenzene	0.0887	0.0250	1	03/10/24	03/13/24	
Toluene	0.0267	0.0250	1	03/10/24	03/13/24	
o-Xylene	0.121	0.0250	1	03/10/24	03/13/24	
p,m-Xylene	0.290	0.0500	1	03/10/24	03/13/24	
Total Xylenes	0.411	0.0250	1	03/10/24	03/13/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		106 %	70-130	03/10/24	03/13/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2411005	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/10/24	03/13/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		89.0 %	70-130	03/10/24	03/13/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2410150	
Diesel Range Organics (C10-C28)	253	25.0	1	03/09/24	03/14/24	
Oil Range Organics (C28-C36)	70.4	50.0	1	03/09/24	03/14/24	
<i>Surrogate: n-Nonane</i>		106 %	50-200	03/09/24	03/14/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2411084	
Chloride	94.0	20.0	1	03/13/24	03/13/24	



Sample Data

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

Project Name: Thistle Unit 6
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
3/18/2024 1:59:37PM

S6 -5'

E403085-33

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2411005
Benzene	ND	0.0250	1	03/10/24	03/13/24	
Ethylbenzene	0.0820	0.0250	1	03/10/24	03/13/24	
Toluene	ND	0.0250	1	03/10/24	03/13/24	
o-Xylene	0.132	0.0250	1	03/10/24	03/13/24	
p,m-Xylene	0.306	0.0500	1	03/10/24	03/13/24	
Total Xylenes	0.438	0.0250	1	03/10/24	03/13/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		107 %	70-130	03/10/24	03/13/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2411005
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/10/24	03/13/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		88.7 %	70-130	03/10/24	03/13/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2410150
Diesel Range Organics (C10-C28)	356	25.0	1	03/09/24	03/14/24	
Oil Range Organics (C28-C36)	117	50.0	1	03/09/24	03/14/24	
<i>Surrogate: n-Nonane</i>						
		108 %	50-200	03/09/24	03/14/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2411084
Chloride	105	20.0	1	03/13/24	03/13/24	



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Thistle Unit 6	Reported: 3/18/2024 1:59:37PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

Volatile Organics by EPA 8021B

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 (2411001-BLK1) Prepared: 03/10/24 Analyzed: 03/13/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.75		8.00		96.9	70-130			

LCS (2411001-BS1) Prepared: 03/10/24 Analyzed: 03/13/24

Benzene	5.62	0.0250	5.00		112	70-130			
Ethylbenzene	5.44	0.0250	5.00		109	70-130			
Toluene	5.60	0.0250	5.00		112	70-130			
o-Xylene	5.53	0.0250	5.00		111	70-130			
p,m-Xylene	11.1	0.0500	10.0		111	70-130			
Total Xylenes	16.6	0.0250	15.0		111	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.72		8.00		96.5	70-130			

LCS Dup (2411001-BSD1) Prepared: 03/10/24 Analyzed: 03/13/24

Benzene	4.93	0.0250	5.00		98.6	70-130	13.2	20	
Ethylbenzene	4.80	0.0250	5.00		96.0	70-130	12.5	20	
Toluene	4.92	0.0250	5.00		98.5	70-130	12.9	20	
o-Xylene	4.88	0.0250	5.00		97.6	70-130	12.6	20	
p,m-Xylene	9.81	0.0500	10.0		98.1	70-130	12.2	20	
Total Xylenes	14.7	0.0250	15.0		97.9	70-130	12.3	20	
Surrogate: 4-Bromochlorobenzene-PID	7.80		8.00		97.5	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Thistle Unit 6	Reported: 3/18/2024 1:59:37PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

Volatile Organics by EPA 8021B

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 (2411005-BLK1) Prepared: 03/10/24 Analyzed: 03/13/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.67		8.00		95.9	70-130			

LCS (2411005-BS1) Prepared: 03/10/24 Analyzed: 03/13/24

Benzene	4.96	0.0250	5.00		99.2	70-130			
Ethylbenzene	4.80	0.0250	5.00		96.1	70-130			
Toluene	4.94	0.0250	5.00		98.8	70-130			
o-Xylene	4.87	0.0250	5.00		97.5	70-130			
p,m-Xylene	9.81	0.0500	10.0		98.1	70-130			
Total Xylenes	14.7	0.0250	15.0		97.9	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.74		8.00		96.7	70-130			

LCS Dup (2411005-BSD1) Prepared: 03/10/24 Analyzed: 03/13/24

Benzene	5.01	0.0250	5.00		100	70-130	1.12	20	
Ethylbenzene	4.86	0.0250	5.00		97.2	70-130	1.20	20	
Toluene	5.00	0.0250	5.00		99.9	70-130	1.11	20	
o-Xylene	4.93	0.0250	5.00		98.7	70-130	1.23	20	
p,m-Xylene	9.94	0.0500	10.0		99.4	70-130	1.32	20	
Total Xylenes	14.9	0.0250	15.0		99.2	70-130	1.29	20	
Surrogate: 4-Bromochlorobenzene-PID	7.71		8.00		96.4	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Thistle Unit 6	Reported: 3/18/2024 1:59:37PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2411001-BLK1) Prepared: 03/10/24 Analyzed: 03/13/24

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

LCS (2411001-BS2) Prepared: 03/10/24 Analyzed: 03/14/24

Gasoline Range Organics (C6-C10)	50.2	20.0	50.0		100	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.24		8.00		90.5	70-130			

LCS Dup (2411001-BSD2) Prepared: 03/10/24 Analyzed: 03/14/24

Gasoline Range Organics (C6-C10)	46.4	20.0	50.0		92.7	70-130	7.97	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.17		8.00		89.6	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Thistle Unit 6	Reported: 3/18/2024 1:59:37PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2411005-BLK1) Prepared: 03/10/24 Analyzed: 03/13/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.11		8.00		88.9	70-130			

LCS (2411005-BS2) Prepared: 03/10/24 Analyzed: 03/13/24

Gasoline Range Organics (C6-C10)	46.5	20.0	50.0		93.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.24		8.00		90.6	70-130			

LCS Dup (2411005-BSD2) Prepared: 03/10/24 Analyzed: 03/13/24

Gasoline Range Organics (C6-C10)	46.4	20.0	50.0		92.8	70-130	0.248	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.32		8.00		91.5	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Thistle Unit 6	Reported: 3/18/2024 1:59:37PM
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 (2410150-BLK1) Prepared: 03/09/24 Analyzed: 03/14/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	52.0		50.0		104	50-200			

LCS (2410150-BS1) Prepared: 03/09/24 Analyzed: 03/14/24

Diesel Range Organics (C10-C28)	263	25.0	250		105	38-132			
Surrogate: n-Nonane	51.3		50.0		103	50-200			

LCS Dup (2410150-BSD1) Prepared: 03/09/24 Analyzed: 03/14/24

Diesel Range Organics (C10-C28)	263	25.0	250		105	38-132	0.149	20	
Surrogate: n-Nonane	50.7		50.0		101	50-200			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Thistle Unit 6	Reported: 3/18/2024 1:59:37PM
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 (2411017-BLK1)					Prepared: 03/11/24 Analyzed: 03/12/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	51.7		50.0		103	50-200			

LCS (2411017-BS1)					Prepared: 03/11/24 Analyzed: 03/12/24				
Diesel Range Organics (C10-C28)	256	25.0	250		103	38-132			
Surrogate: n-Nonane	50.3		50.0		101	50-200			

LCS Dup (2411017-BSD1)					Prepared: 03/11/24 Analyzed: 03/12/24				
Diesel Range Organics (C10-C28)	251	25.0	250		100	38-132	2.23	20	
Surrogate: n-Nonane	49.4		50.0		98.8	50-200			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Thistle Unit 6	Reported: 3/18/2024 1:59:37PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

Anions by EPA 300.0/9056A

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 (2411058-BLK1)					Prepared: 03/12/24 Analyzed: 03/16/24				
Chloride	ND	20.0							
LCS (2411058-BS1)					Prepared: 03/12/24 Analyzed: 03/16/24				
Chloride	254	20.0	250		102	90-110			
Matrix Spike (2411058-MS1)					Source: E403085-15		Prepared: 03/12/24 Analyzed: 03/16/24		
Chloride	619	20.0	250	358	105	80-120			
Matrix Spike Dup (2411058-MSD1)					Source: E403085-15		Prepared: 03/12/24 Analyzed: 03/16/24		
Chloride	623	20.0	250	358	106	80-120	0.517	20	



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Thistle Unit 6	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	3/18/2024 1:59:37PM

Anions by EPA 300.0/9056A

Analyst: DT

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

Blank (2411084-BLK1)					Prepared: 03/13/24 Analyzed: 03/13/24				
Chloride	ND	20.0							
LCS (2411084-BS1)					Prepared: 03/13/24 Analyzed: 03/13/24				
Chloride	249	20.0	250		99.7	90-110			
Matrix Spike (2411084-MS1)					Source: E403117-02		Prepared: 03/13/24 Analyzed: 03/13/24		
Chloride	246	200	250	ND	98.3	80-120			
Matrix Spike Dup (2411084-MSD1)					Source: E403117-02		Prepared: 03/13/24 Analyzed: 03/13/24		
Chloride	246	200	250	ND	98.6	80-120	0.252	20	



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Thistle Unit 6	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	3/18/2024 1:59:37PM

Anions by EPA 300.0/9056A

Analyst: DT

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

Blank (2411085-BLK1)					Prepared: 03/13/24 Analyzed: 03/16/24				
Chloride	ND	20.0							
LCS (2411085-BS1)					Prepared: 03/13/24 Analyzed: 03/16/24				
Chloride	252	20.0	250		101	90-110			
Matrix Spike (2411085-MS1)					Source: E403084-24		Prepared: 03/13/24 Analyzed: 03/16/24		
Chloride	257	20.0	250	ND	103	80-120			
Matrix Spike Dup (2411085-MSD1)					Source: E403084-24		Prepared: 03/13/24 Analyzed: 03/16/24		
Chloride	255	20.0	250	ND	102	80-120	0.999	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 6	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	03/18/24 13:59

- S5 Surrogate spike recovery exceeded acceptance limits due to interfering target and/or non-target analytes.
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite
- DNR Did not react with the addition of acid or base.

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

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



Project Information

Chain of Custody

Page 1 of 4

Client: Pima Environmental Services				Bill To				Lab Use Only				TAT				EPA Program			
Project: <u>Thistle Unit 6</u>				Attention: <u>Devon</u>				Lab WO# <u>E403085</u>				Job Number <u>17053-0007</u>				1D 2D 3D Standard			
Project Manager: Tom Bynum				Address:												CWA SDWA			
Address: 5614 N. Lovington Hwy.				City, State, Zip												RCRA			
City, State, Zip Hobbs, NM, 88240				Phone:															
Phone: 580-748-1613				Email:															
Email: tom@pimaoil.com				Pima Project # <u>174-2</u>															
Report due by:																			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0		BGDOC NM	BGDOC TX			State		
																	NM CO UT AZ TX		
																	Remarks		
12:30	3/6	S		S1-1'	1								X						
12:37				S1-2'	2														
12:44				S1-3'	3														
12:47				S1-4'	4														
12:58				S2-1'	5														
1:07				S2-2'	6														
1:18				S2-3'	7														
1:25				S2-4'	8														
1:29				S3-1'	9														
1:33				S3-2'	10														
Additional Instructions: <u>B# 2130909</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)		Date		Time		Received by: (Signature)		Date		Time		Lab Use Only							
<u>Karine Aton</u>		<u>3/7/24</u>		<u>1:45</u>		<u>Michelle Cuyk</u>		<u>3-7-24</u>		<u>1345</u>		Received on ice: <u>(Y)</u> N							
<u>Michelle Cuyk</u>		<u>3-7-24</u>		<u>1640</u>		<u>Andrew Messo</u>		<u>3-7-24</u>		<u>1640</u>		T1 T2 T3							
<u>Andrew Messo</u>		<u>3-7-24</u>		<u>2330</u>		<u>Andrew</u>		<u>3/8/24</u>		<u>0615</u>		AVG Temp °C <u>4</u>							
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other												Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA							
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																			

Project Information

Chain of Custody

Page 2 of 4

Client: Pima Environmental Services					Bill To					Lab Use Only				TAT				EPA Program																											
Project: <u>Thistle Unit 6</u>					Attention: <u>Devon</u>					Lab WO# <u>E403085</u>				Job Number <u>005B-007</u>				1D	2D	3D	Standard	CWA	SDWA																						
Project Manager: <u>Gio Gomez</u>					Address:					Analysis and Method								RCRA																											
Address: <u>5614 N. Lovington Hwy.</u>					City, State, Zip																																								
City, State, Zip <u>Hobbs, NM, 88240</u>					Phone:					DRO/ORO by 8015				GRO/RO by 8015				BTEX by 8021				VOC by 8260				Metals 6010				Chloride 300.0				BGDOC NM				BGDOC TX				State			
Phone: <u>806-782-1151</u>					Email:																																								
Email: <u>gio@pimaoil.com</u>					Pima Project # <u>174-2</u>																																								
Report due by:																																													

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Remarks
1:41	3/6	S		S3-3'	11	
1:48				S3-4'	12	
1:55				S4-1'	13	
2:03				S4-2'	14	
2:17				S4-3'	15	
2:15				S4-4'	16	
2:19				S5-1'	17	
2:21				S5-2'	18	
2:30				S5-3'	19	
2:36				S5-4'	20	

Additional Instructions: B # 2130909

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

Relinquished by: (Signature) [Signature] Date 3/7/24 Time 1:45 Received by: (Signature) [Signature] Date 3-7-24 Time 1345

Relinquished by: (Signature) [Signature] Date 3-7-24 Time 1640 Received by: (Signature) [Signature] Date 3-7-24 Time 1640

Relinquished by: (Signature) [Signature] Date 3-7-24 Time 2330 Received by: (Signature) [Signature] Date 3/8/24 Time 0615

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

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

Received on ice: Y / N

T1 _____ T2 _____ T3 _____

AVG Temp °C 4

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

Project Information

Chain of Custody

Page 3 of 4

Client: <u>Pima Environmental Services</u> Project: <u>Thistle Unit 6</u> Project Manager: <u>Gio Gomez</u> Address: <u>5614 N. Lovington Hwy.</u> City, State, Zip: <u>Hobbs, NM, 88240</u> Phone: <u>806-782-1151</u> Email: <u>gio@pimaoil.com</u> Report due by: _____					Bill To Attention: <u>Devon</u> Address: _____ City, State, Zip: _____ Phone: _____ Email: _____ Pima Project # <u>174-2</u>					Lab Use Only Lab WO# <u>E 403085</u> Job Number <u>01058-0202</u> Analysis and Method DRO/ORO by 8015 _____ GRO/DRO by 8015 _____ BTEX by 8021 _____ VOC by 8260 _____ Metals 6010 _____ Chloride 300.0 _____ NM BGD OC _____ TX BGD OC _____								TAT 1D _____ 2D _____ 3D _____ Standard <u>X</u>				EPA Program CWA _____ SDWA _____ RCRA _____ State NM <u>X</u> CO _____ UT _____ AZ _____ TX _____	
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	NM BGD OC	TX BGD OC	Remarks									
2:48	3/6	S		S6-1'	21							X											
2:51				S6-2'	22																		
2:59				S6-3'	23																		
3:06				S6-4'	24																		
3:11				SW1	25																		
3:16				SW2	26																		
3:18				SW3	27																		
3:40				SW4	28																		
3:25				SW5	29																		
3:31				SW6	30																		
Additional Instructions: <u>B# 21308909</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>Karina A.</u> Date <u>3/7/24</u> Time <u>1:45</u> Received by: (Signature) <u>Michelle Cuyf</u> Date <u>3-7-24</u> Time <u>1345</u>																							
Relinquished by: (Signature) <u>Michelle Cuyf</u> Date <u>3-7-24</u> Time <u>1640</u> Received by: (Signature) <u>Andrew Mc880</u> Date <u>3-7-24</u> Time <u>1640</u>																							
Relinquished by: (Signature) <u>Andrew Mc880</u> Date <u>3-7-24</u> Time <u>2330</u> Received by: (Signature) <u>AD</u> Date <u>3/8/24</u> Time <u>0615</u>																							
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____																							
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																							
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																							

Chain of Custody



Envirotech Analytical Laboratory

Printed: 3/11/2024 12:35:18PM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Pima Environmental Services-Carlsbad	Date Received:	03/08/24 06:15	Work Order ID:	E403085
Phone:	(575) 631-6977	Date Logged In:	03/07/24 16:45	Logged In By:	Alexa Michaels
Email:	tom@pimaoil.com	Due Date:	03/15/24 17:00 (5 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.



Project Information

Chain of Custody

Page 2 of 4

Client: Pima Environmental Services				Bill To				Lab Use Only				TAT				EPA Program																							
Project: <u>Thistle Unit 6</u>				Attention: <u>Devon</u>				Lab WO# <u>E402085</u>				Job Number <u>0105B-007</u>				1D	2D	3D	Standard	CWA	SDWA																		
Project Manager: <u>Gio Gomez</u>				Address:				Analysis and Method																															
Address: <u>5614 N. Lovington Hwy.</u>				City, State, Zip																																			
City, State, Zip: <u>Hobbs, NM, 88240</u>				Phone:				DRO/DRO by 8015				GRO/DRO by 8015				BTEX by 8021				VOC by 8260				Metals 6010				Chloride 300.0				BGDOC NM				BGDOC TX			
Phone: <u>806-782-1151</u>				Email:																																			
Email: <u>gio@pimaoil.com</u>				Pima Project # <u>174-2</u>																																			
Report due by:																																							
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Remarks																																	
1:41	3/6	S		S3- 3'	11																																		
1:48				S3- 4'	12																																		
1:55				S4- 1'	13																																		
2:03				S4- 2'	14																																		
2:17				S4- 3'	15																																		
2:15				S4- 4'	16																																		
2:19				S5- 1'	17																																		
2:21				S5- 2'	18																																		
2:30				S5- 3'	19																																		
2:36				S5- 4'	20																																		
Additional Instructions: <u>B # 2130909</u>																																							
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.										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>[Signature]</u>										Received by: (Signature) <u>[Signature]</u>																													
Date: <u>3/7/24</u> Time: <u>1:45</u>										Date: <u>3-7-24</u> Time: <u>1345</u>																													
Relinquished by: (Signature) <u>[Signature]</u>										Received by: (Signature) <u>[Signature]</u>																													
Date: <u>3-7-24</u> Time: <u>1640</u>										Date: <u>3-7-24</u> Time: <u>1640</u>																													
Relinquished by: (Signature) <u>[Signature]</u>										Received by: (Signature) <u>[Signature]</u>																													
Date: <u>3-7-24</u> Time: <u>2330</u>										Date: <u>3/8/24</u> Time: <u>0015</u>																													
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other										Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																													
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																																							


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Project Information

Chain of Custody

Page 2 of 4



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Project Information

Chain of Custody

Page 4 of 4

Client: Pima Environmental Services					Bill To		Lab Use Only				TAT				EPA Program															
Project: Thistle Unit 6					Attention: Devon		Lab WO# E403085		Job Number 01058-007		1D	2D	3D	Standard	CWA	SDWA														
Project Manager: Gio Gomez					Address:		Analysis and Method										RCRA													
Address: 5614 N. Lovington Hwy.					City, State, Zip																									
City, State, Zip Hobbs, NM, 88240					Phone:		DRO/ORO by 8015		GRO/DRO by 8015		BTX by 8021		VOC by 8260		Metals 6010		Chloride 300.0		BGDOC NM		BGDOC TX		State							
Phone: 806-782-1151					Email:																NM		CO		UT		AZ		TX	
Email: gio@pimaoil.com					Pima Project # 174-Z																									
Report due by:																														
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Remarks																								
3:36	3/6	S		BG1	31																									
	1	1		S5-5'	32																									
	1	1		S6-5'	33																									
Additional Instructions: B# 21308409																														
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																														
Sampled by:																														
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		Lab Use Only																		
Karine Afame		3/7/24		1:45		Michelle Cayf		3-7-24		1345		Received on ice: 0 / N																		
Michelle Cayf		3-7-24		1640		Andrew M880		3-7-24		1640		T1 T2 T3																		
Andrew M880		3-7-24		2330		AQ		3/8/24		0615		AVG Temp °C 4																		
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other																														
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																														
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																														

Report to:
Gio Gomez



5796 U.S. Hwy 64
Farmington, NM 87401

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



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Pima Environmental Services-Carlsbad

Project Name: Thistle Unit 6 Well Pad

Work Order: E405169

Job Number: 01058-0007

Received: 5/14/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
5/20/24

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

Date Reported: 5/20/24

Gio Gomez
PO Box 247
Plains, TX 79355-0247



Project Name: Thistle Unit 6 Well Pad
Workorder: E405169
Date Received: 5/14/2024 6:00:00AM

Gio Gomez,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/14/2024 6:00:00AM, under the Project Name: Thistle Unit 6 Well Pad.

The analytical test results summarized in this report with the Project Name: Thistle Unit 6 Well Pad apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

Raina Schwanz
Laboratory Administrator
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Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Pima Environmental Services-Carlsbad	Project Name:	Thistle Unit 6 Well Pad	Reported: 05/20/24 13:43
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
S2 - 5'	E405169-01A	Soil	05/10/24	05/14/24	Glass Jar, 2 oz.
S2 - 6'	E405169-02A	Soil	05/10/24	05/14/24	Glass Jar, 2 oz.
S4 - 5'	E405169-03A	Soil	05/10/24	05/14/24	Glass Jar, 2 oz.
S4 - 6'	E405169-04A	Soil	05/10/24	05/14/24	Glass Jar, 2 oz.
S5 - 6'	E405169-05A	Soil	05/10/24	05/14/24	Glass Jar, 2 oz.
S6 - 6'	E405169-06A	Soil	05/10/24	05/14/24	Glass Jar, 2 oz.



Sample Data

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

Project Name: Thistle Unit 6 Well Pad
Project Number: 01058-0007
Project Manager: Gio Gomez

Reported:
5/20/2024 1:43:49PM

S2 - 5'

E405169-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2420067
Benzene	ND	0.0250	1	05/14/24	05/16/24	
Ethylbenzene	ND	0.0250	1	05/14/24	05/16/24	
Toluene	ND	0.0250	1	05/14/24	05/16/24	
o-Xylene	ND	0.0250	1	05/14/24	05/16/24	
p,m-Xylene	ND	0.0500	1	05/14/24	05/16/24	
Total Xylenes	ND	0.0250	1	05/14/24	05/16/24	
Surrogate: Bromofluorobenzene	99.9 %	70-130		05/14/24	05/16/24	
Surrogate: 1,2-Dichloroethane-d4	104 %	70-130		05/14/24	05/16/24	
Surrogate: Toluene-d8	98.1 %	70-130		05/14/24	05/16/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2420067
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/14/24	05/16/24	
Surrogate: Bromofluorobenzene	99.9 %	70-130		05/14/24	05/16/24	
Surrogate: 1,2-Dichloroethane-d4	104 %	70-130		05/14/24	05/16/24	
Surrogate: Toluene-d8	98.1 %	70-130		05/14/24	05/16/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2420075
Diesel Range Organics (C10-C28)	ND	25.0	1	05/14/24	05/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	05/14/24	05/17/24	
Surrogate: n-Nonane	106 %	50-200		05/14/24	05/17/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2420183
Chloride	ND	20.0	1	05/17/24	05/18/24	



Sample Data

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

Project Name: Thistle Unit 6 Well Pad
Project Number: 01058-0007
Project Manager: Gio Gomez

Reported:
5/20/2024 1:43:49PM

S2 - 6'

E405169-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2420067
Benzene	ND	0.0250	1	05/14/24	05/15/24	
Ethylbenzene	ND	0.0250	1	05/14/24	05/15/24	
Toluene	ND	0.0250	1	05/14/24	05/15/24	
o-Xylene	ND	0.0250	1	05/14/24	05/15/24	
p,m-Xylene	ND	0.0500	1	05/14/24	05/15/24	
Total Xylenes	ND	0.0250	1	05/14/24	05/15/24	
Surrogate: Bromofluorobenzene		101 %	70-130	05/14/24	05/15/24	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130	05/14/24	05/15/24	
Surrogate: Toluene-d8		97.2 %	70-130	05/14/24	05/15/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2420067
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/14/24	05/15/24	
Surrogate: Bromofluorobenzene		101 %	70-130	05/14/24	05/15/24	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130	05/14/24	05/15/24	
Surrogate: Toluene-d8		97.2 %	70-130	05/14/24	05/15/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2420075
Diesel Range Organics (C10-C28)	ND	25.0	1	05/14/24	05/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	05/14/24	05/17/24	
Surrogate: n-Nonane		105 %	50-200	05/14/24	05/17/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2420183
Chloride	ND	20.0	1	05/17/24	05/18/24	



Sample Data

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

Project Name: Thistle Unit 6 Well Pad
Project Number: 01058-0007
Project Manager: Gio Gomez

Reported:
5/20/2024 1:43:49PM

S4 - 5'

E405169-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2420067
Benzene	ND	0.0250	1	05/14/24	05/16/24	
Ethylbenzene	ND	0.0250	1	05/14/24	05/16/24	
Toluene	ND	0.0250	1	05/14/24	05/16/24	
o-Xylene	ND	0.0250	1	05/14/24	05/16/24	
p,m-Xylene	ND	0.0500	1	05/14/24	05/16/24	
Total Xylenes	ND	0.0250	1	05/14/24	05/16/24	
Surrogate: Bromofluorobenzene		101 %	70-130	05/14/24	05/16/24	
Surrogate: 1,2-Dichloroethane-d4		104 %	70-130	05/14/24	05/16/24	
Surrogate: Toluene-d8		96.2 %	70-130	05/14/24	05/16/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2420067
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/14/24	05/16/24	
Surrogate: Bromofluorobenzene		101 %	70-130	05/14/24	05/16/24	
Surrogate: 1,2-Dichloroethane-d4		104 %	70-130	05/14/24	05/16/24	
Surrogate: Toluene-d8		96.2 %	70-130	05/14/24	05/16/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2420075
Diesel Range Organics (C10-C28)	ND	25.0	1	05/14/24	05/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	05/14/24	05/17/24	
Surrogate: n-Nonane		105 %	50-200	05/14/24	05/17/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2420183
Chloride	ND	20.0	1	05/17/24	05/18/24	



Sample Data

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

Project Name: Thistle Unit 6 Well Pad
Project Number: 01058-0007
Project Manager: Gio Gomez

Reported:
5/20/2024 1:43:49PM

S4 - 6'

E405169-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2420067
Benzene	ND	0.0250	1	05/14/24	05/16/24	
Ethylbenzene	ND	0.0250	1	05/14/24	05/16/24	
Toluene	ND	0.0250	1	05/14/24	05/16/24	
o-Xylene	ND	0.0250	1	05/14/24	05/16/24	
p,m-Xylene	ND	0.0500	1	05/14/24	05/16/24	
Total Xylenes	ND	0.0250	1	05/14/24	05/16/24	
Surrogate: Bromofluorobenzene	99.6 %	70-130		05/14/24	05/16/24	
Surrogate: 1,2-Dichloroethane-d4	104 %	70-130		05/14/24	05/16/24	
Surrogate: Toluene-d8	95.1 %	70-130		05/14/24	05/16/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2420067
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/14/24	05/16/24	
Surrogate: Bromofluorobenzene	99.6 %	70-130		05/14/24	05/16/24	
Surrogate: 1,2-Dichloroethane-d4	104 %	70-130		05/14/24	05/16/24	
Surrogate: Toluene-d8	95.1 %	70-130		05/14/24	05/16/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2420075
Diesel Range Organics (C10-C28)	ND	25.0	1	05/14/24	05/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	05/14/24	05/17/24	
Surrogate: n-Nonane	109 %	50-200		05/14/24	05/17/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2420183
Chloride	ND	20.0	1	05/17/24	05/18/24	



Sample Data

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

Project Name: Thistle Unit 6 Well Pad
Project Number: 01058-0007
Project Manager: Gio Gomez

Reported:
5/20/2024 1:43:49PM

S5 - 6'

E405169-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2420067
Benzene	ND	0.0250	1	05/14/24	05/16/24	
Ethylbenzene	ND	0.0250	1	05/14/24	05/16/24	
Toluene	ND	0.0250	1	05/14/24	05/16/24	
o-Xylene	ND	0.0250	1	05/14/24	05/16/24	
p,m-Xylene	ND	0.0500	1	05/14/24	05/16/24	
Total Xylenes	ND	0.0250	1	05/14/24	05/16/24	
Surrogate: Bromofluorobenzene	99.7 %	70-130		05/14/24	05/16/24	
Surrogate: 1,2-Dichloroethane-d4	99.0 %	70-130		05/14/24	05/16/24	
Surrogate: Toluene-d8	96.3 %	70-130		05/14/24	05/16/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2420067
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/14/24	05/16/24	
Surrogate: Bromofluorobenzene	99.7 %	70-130		05/14/24	05/16/24	
Surrogate: 1,2-Dichloroethane-d4	99.0 %	70-130		05/14/24	05/16/24	
Surrogate: Toluene-d8	96.3 %	70-130		05/14/24	05/16/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2420075
Diesel Range Organics (C10-C28)	ND	25.0	1	05/14/24	05/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	05/14/24	05/17/24	
Surrogate: n-Nonane	104 %	50-200		05/14/24	05/17/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2420183
Chloride	ND	20.0	1	05/17/24	05/18/24	



Sample Data

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

Project Name: Thistle Unit 6 Well Pad
Project Number: 01058-0007
Project Manager: Gio Gomez

Reported:
5/20/2024 1:43:49PM

S6 - 6'

E405169-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2420067
Benzene	ND	0.0250	1	05/14/24	05/16/24	
Ethylbenzene	ND	0.0250	1	05/14/24	05/16/24	
Toluene	ND	0.0250	1	05/14/24	05/16/24	
o-Xylene	ND	0.0250	1	05/14/24	05/16/24	
p,m-Xylene	ND	0.0500	1	05/14/24	05/16/24	
Total Xylenes	ND	0.0250	1	05/14/24	05/16/24	
Surrogate: Bromofluorobenzene	99.9 %	70-130		05/14/24	05/16/24	
Surrogate: 1,2-Dichloroethane-d4	103 %	70-130		05/14/24	05/16/24	
Surrogate: Toluene-d8	96.0 %	70-130		05/14/24	05/16/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2420067
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/14/24	05/16/24	
Surrogate: Bromofluorobenzene	99.9 %	70-130		05/14/24	05/16/24	
Surrogate: 1,2-Dichloroethane-d4	103 %	70-130		05/14/24	05/16/24	
Surrogate: Toluene-d8	96.0 %	70-130		05/14/24	05/16/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2420075
Diesel Range Organics (C10-C28)	ND	25.0	1	05/14/24	05/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	05/14/24	05/17/24	
Surrogate: n-Nonane	107 %	50-200		05/14/24	05/17/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2420183
Chloride	ND	20.0	1	05/17/24	05/18/24	



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Thistle Unit 6 Well Pad	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	5/20/2024 1:43:49PM

Volatile Organic Compounds by EPA 8260B

Analyst: BA

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

Blank (2420067-BLK1) Prepared: 05/14/24 Analyzed: 05/15/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.496		0.500		99.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.509		0.500		102	70-130			
Surrogate: Toluene-d8	0.480		0.500		96.0	70-130			

LCS (2420067-BS1) Prepared: 05/14/24 Analyzed: 05/15/24

Benzene	2.71	0.0250	2.50		108	70-130			
Ethylbenzene	2.62	0.0250	2.50		105	70-130			
Toluene	2.48	0.0250	2.50		99.4	70-130			
o-Xylene	2.57	0.0250	2.50		103	70-130			
p,m-Xylene	4.97	0.0500	5.00		99.4	70-130			
Total Xylenes	7.54	0.0250	7.50		100	70-130			
Surrogate: Bromofluorobenzene	0.488		0.500		97.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.502		0.500		100	70-130			
Surrogate: Toluene-d8	0.481		0.500		96.2	70-130			

Matrix Spike (2420067-MS1) Source: E405169-02 Prepared: 05/14/24 Analyzed: 05/15/24

Benzene	2.72	0.0250	2.50	ND	109	48-131			
Ethylbenzene	2.64	0.0250	2.50	ND	105	45-135			
Toluene	2.51	0.0250	2.50	ND	100	48-130			
o-Xylene	2.63	0.0250	2.50	ND	105	43-135			
p,m-Xylene	5.11	0.0500	5.00	ND	102	43-135			
Total Xylenes	7.74	0.0250	7.50	ND	103	43-135			
Surrogate: Bromofluorobenzene	0.502		0.500		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.495		0.500		98.9	70-130			
Surrogate: Toluene-d8	0.488		0.500		97.6	70-130			

Matrix Spike Dup (2420067-MSD1) Source: E405169-02 Prepared: 05/14/24 Analyzed: 05/15/24

Benzene	2.73	0.0250	2.50	ND	109	48-131	0.147	23	
Ethylbenzene	2.68	0.0250	2.50	ND	107	45-135	1.62	27	
Toluene	2.54	0.0250	2.50	ND	101	48-130	1.27	24	
o-Xylene	2.67	0.0250	2.50	ND	107	43-135	1.41	27	
p,m-Xylene	5.21	0.0500	5.00	ND	104	43-135	1.93	27	
Total Xylenes	7.88	0.0250	7.50	ND	105	43-135	1.75	27	
Surrogate: Bromofluorobenzene	0.499		0.500		99.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.510		0.500		102	70-130			
Surrogate: Toluene-d8	0.485		0.500		97.0	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Thistle Unit 6 Well Pad	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	5/20/2024 1:43:49PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

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

Blank (2420067-BLK1) Prepared: 05/14/24 Analyzed: 05/15/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.496		0.500		99.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.509		0.500		102	70-130			
Surrogate: Toluene-d8	0.480		0.500		96.0	70-130			

LCS (2420067-BS2) Prepared: 05/14/24 Analyzed: 05/15/24

Gasoline Range Organics (C6-C10)	53.3	20.0	50.0		107	70-130			
Surrogate: Bromofluorobenzene	0.504		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.493		0.500		98.5	70-130			
Surrogate: Toluene-d8	0.489		0.500		97.8	70-130			

Matrix Spike (2420067-MS2) Source: E405169-02 Prepared: 05/14/24 Analyzed: 05/15/24

Gasoline Range Organics (C6-C10)	55.0	20.0	50.0	ND	110	70-130			
Surrogate: Bromofluorobenzene	0.519		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.501		0.500		100	70-130			
Surrogate: Toluene-d8	0.484		0.500		96.7	70-130			

Matrix Spike Dup (2420067-MSD2) Source: E405169-02 Prepared: 05/14/24 Analyzed: 05/16/24

Gasoline Range Organics (C6-C10)	51.6	20.0	50.0	ND	103	70-130	6.43	20	
Surrogate: Bromofluorobenzene	0.504		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.505		0.500		101	70-130			
Surrogate: Toluene-d8	0.493		0.500		98.5	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Thistle Unit 6 Well Pad	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	5/20/2024 1:43:49PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

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

Blank (2420075-BLK1) Prepared: 05/14/24 Analyzed: 05/17/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	52.0		50.0		104	50-200			

LCS (2420075-BS1) Prepared: 05/14/24 Analyzed: 05/17/24

Diesel Range Organics (C10-C28)	226	25.0	250		90.4	38-132			
Surrogate: n-Nonane	55.2		50.0		110	50-200			

LCS Dup (2420075-BSD1) Prepared: 05/14/24 Analyzed: 05/17/24

Diesel Range Organics (C10-C28)	274	25.0	250		109	38-132	19.0	20	
Surrogate: n-Nonane	54.9		50.0		110	50-200			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Thistle Unit 6 Well Pad	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	5/20/2024 1:43:49PM

Anions by EPA 300.0/9056A

Analyst: IY

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

Blank (2420183-BLK1)					Prepared: 05/17/24 Analyzed: 05/18/24				
Chloride	ND	20.0							
LCS (2420183-BS1)					Prepared: 05/17/24 Analyzed: 05/18/24				
Chloride	248	20.0	250		99.2	90-110			
LCS Dup (2420183-BSD1)					Prepared: 05/17/24 Analyzed: 05/18/24				
Chloride	252	20.0	250		101	90-110	1.72	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 6 Well Pad	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Gio Gomez	05/20/24 13:43

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





Envirotech Analytical Laboratory

Printed: 5/14/2024 9:19:36AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Pima Environmental Services-Carlsbad	Date Received:	05/14/24 06:00	Work Order ID:	E405169
Phone:	(575) 631-6977	Date Logged In:	05/14/24 06:35	Logged In By:	Angelina Pineda
Email:	gio@pimaoil.com	Due Date:	05/20/24 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

No. of containers is not documented on COC by client

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

Date



envirotech Inc.

Report to:
Gio Gomez



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Pima Environmental Services-Carlsbad

Project Name: Thistle Unit 6

Work Order: E407123

Job Number: 01058-0007

Received: 7/17/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
7/17/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 7/17/24

Gio Gomez
PO Box 247
Plains, TX 79355-0247



Project Name: Thistle Unit 6
Workorder: E407123
Date Received: 7/17/2024 6:00:00AM

Gio Gomez,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/17/2024 6:00:00AM, under the Project Name: Thistle Unit 6.

The analytical test results summarized in this report with the Project Name: Thistle Unit 6 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

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Sample Summary

Pima Environmental Services-Carlsbad	Project Name:	Thistle Unit 6	Reported: 07/17/24 16:18
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
CS1	E407123-01A	Soil	07/15/24	07/17/24	Glass Jar, 2 oz.
CS2	E407123-02A	Soil	07/15/24	07/17/24	Glass Jar, 2 oz.
CS3	E407123-03A	Soil	07/15/24	07/17/24	Glass Jar, 2 oz.
CS4	E407123-04A	Soil	07/15/24	07/17/24	Glass Jar, 2 oz.
CS5	E407123-05A	Soil	07/15/24	07/17/24	Glass Jar, 2 oz.
CS6	E407123-06A	Soil	07/15/24	07/17/24	Glass Jar, 2 oz.
CS7	E407123-07A	Soil	07/15/24	07/17/24	Glass Jar, 2 oz.
CS8	E407123-08A	Soil	07/15/24	07/17/24	Glass Jar, 2 oz.
CS9	E407123-09A	Soil	07/15/24	07/17/24	Glass Jar, 2 oz.
CS10	E407123-10A	Soil	07/15/24	07/17/24	Glass Jar, 2 oz.
CS11	E407123-11A	Soil	07/15/24	07/17/24	Glass Jar, 2 oz.
CS12	E407123-12A	Soil	07/15/24	07/17/24	Glass Jar, 2 oz.
CSW1	E407123-13A	Soil	07/15/24	07/17/24	Glass Jar, 2 oz.
CSW2	E407123-14A	Soil	07/15/24	07/17/24	Glass Jar, 2 oz.
CSW3	E407123-15A	Soil	07/15/24	07/17/24	Glass Jar, 2 oz.
CSW4	E407123-16A	Soil	07/15/24	07/17/24	Glass Jar, 2 oz.
CSW5	E407123-17A	Soil	07/15/24	07/17/24	Glass Jar, 2 oz.
CSW6	E407123-18A	Soil	07/15/24	07/17/24	Glass Jar, 2 oz.
CSW7	E407123-19A	Soil	07/15/24	07/17/24	Glass Jar, 2 oz.
CSW8	E407123-20A	Soil	07/15/24	07/17/24	Glass Jar, 2 oz.



Sample Data

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

Project Name: Thistle Unit 6
Project Number: 01058-0007
Project Manager: Gio Gomez

Reported:
7/17/2024 4:18:08PM

CS1

E407123-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2429047
Benzene	ND	0.0250	1	07/16/24	07/17/24	
Ethylbenzene	ND	0.0250	1	07/16/24	07/17/24	
Toluene	ND	0.0250	1	07/16/24	07/17/24	
o-Xylene	ND	0.0250	1	07/16/24	07/17/24	
p,m-Xylene	ND	0.0500	1	07/16/24	07/17/24	
Total Xylenes	ND	0.0250	1	07/16/24	07/17/24	
<i>Surrogate: Bromofluorobenzene</i>		97.3 %	70-130	07/16/24	07/17/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98.7 %	70-130	07/16/24	07/17/24	
<i>Surrogate: Toluene-d8</i>		105 %	70-130	07/16/24	07/17/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2429047
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/16/24	07/17/24	
<i>Surrogate: Bromofluorobenzene</i>		97.3 %	70-130	07/16/24	07/17/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98.7 %	70-130	07/16/24	07/17/24	
<i>Surrogate: Toluene-d8</i>		105 %	70-130	07/16/24	07/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2429035
Diesel Range Organics (C10-C28)	ND	25.0	1	07/17/24	07/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/17/24	07/17/24	
<i>Surrogate: n-Nonane</i>		98.7 %	50-200	07/17/24	07/17/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2429040
Chloride	ND	20.0	1	07/17/24	07/17/24	



Sample Data

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

Project Name: Thistle Unit 6
Project Number: 01058-0007
Project Manager: Gio Gomez

Reported:
7/17/2024 4:18:08PM

CS2

E407123-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2429047
Benzene	ND	0.0250	1	07/16/24	07/17/24	
Ethylbenzene	ND	0.0250	1	07/16/24	07/17/24	
Toluene	ND	0.0250	1	07/16/24	07/17/24	
o-Xylene	ND	0.0250	1	07/16/24	07/17/24	
p,m-Xylene	ND	0.0500	1	07/16/24	07/17/24	
Total Xylenes	ND	0.0250	1	07/16/24	07/17/24	
Surrogate: Bromofluorobenzene	97.0 %	70-130		07/16/24	07/17/24	
Surrogate: 1,2-Dichloroethane-d4	98.0 %	70-130		07/16/24	07/17/24	
Surrogate: Toluene-d8	105 %	70-130		07/16/24	07/17/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2429047
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/16/24	07/17/24	
Surrogate: Bromofluorobenzene	97.0 %	70-130		07/16/24	07/17/24	
Surrogate: 1,2-Dichloroethane-d4	98.0 %	70-130		07/16/24	07/17/24	
Surrogate: Toluene-d8	105 %	70-130		07/16/24	07/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2429035
Diesel Range Organics (C10-C28)	ND	25.0	1	07/17/24	07/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/17/24	07/17/24	
Surrogate: n-Nonane	106 %	50-200		07/17/24	07/17/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2429040
Chloride	ND	20.0	1	07/17/24	07/17/24	



Sample Data

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

Project Name: Thistle Unit 6
Project Number: 01058-0007
Project Manager: Gio Gomez

Reported:
7/17/2024 4:18:08PM

CS3

E407123-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2429047
Benzene	ND	0.0250	1	07/16/24	07/17/24	
Ethylbenzene	ND	0.0250	1	07/16/24	07/17/24	
Toluene	ND	0.0250	1	07/16/24	07/17/24	
o-Xylene	ND	0.0250	1	07/16/24	07/17/24	
p,m-Xylene	ND	0.0500	1	07/16/24	07/17/24	
Total Xylenes	ND	0.0250	1	07/16/24	07/17/24	
Surrogate: Bromofluorobenzene	97.1 %	70-130		07/16/24	07/17/24	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		07/16/24	07/17/24	
Surrogate: Toluene-d8	104 %	70-130		07/16/24	07/17/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2429047
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/16/24	07/17/24	
Surrogate: Bromofluorobenzene	97.1 %	70-130		07/16/24	07/17/24	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		07/16/24	07/17/24	
Surrogate: Toluene-d8	104 %	70-130		07/16/24	07/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2429035
Diesel Range Organics (C10-C28)	ND	25.0	1	07/17/24	07/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/17/24	07/17/24	
Surrogate: n-Nonane	97.5 %	50-200		07/17/24	07/17/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2429040
Chloride	ND	20.0	1	07/17/24	07/17/24	



Sample Data

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

Project Name: Thistle Unit 6
Project Number: 01058-0007
Project Manager: Gio Gomez

Reported:
7/17/2024 4:18:08PM

CS4

E407123-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2429047
Benzene	ND	0.0250	1	07/16/24	07/17/24	
Ethylbenzene	ND	0.0250	1	07/16/24	07/17/24	
Toluene	ND	0.0250	1	07/16/24	07/17/24	
o-Xylene	ND	0.0250	1	07/16/24	07/17/24	
p,m-Xylene	ND	0.0500	1	07/16/24	07/17/24	
Total Xylenes	ND	0.0250	1	07/16/24	07/17/24	
Surrogate: Bromofluorobenzene		123 %	70-130	07/16/24	07/17/24	
Surrogate: 1,2-Dichloroethane-d4		91.3 %	70-130	07/16/24	07/17/24	
Surrogate: Toluene-d8		100 %	70-130	07/16/24	07/17/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2429047
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/16/24	07/17/24	
Surrogate: Bromofluorobenzene		123 %	70-130	07/16/24	07/17/24	
Surrogate: 1,2-Dichloroethane-d4		91.3 %	70-130	07/16/24	07/17/24	
Surrogate: Toluene-d8		100 %	70-130	07/16/24	07/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2429035
Diesel Range Organics (C10-C28)	ND	25.0	1	07/17/24	07/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/17/24	07/17/24	
Surrogate: n-Nonane		92.0 %	50-200	07/17/24	07/17/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2429040
Chloride	ND	20.0	1	07/17/24	07/17/24	



Sample Data

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

Project Name: Thistle Unit 6
Project Number: 01058-0007
Project Manager: Gio Gomez

Reported:
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CS5

E407123-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2429047
Benzene	ND	0.0250	1	07/16/24	07/17/24	
Ethylbenzene	ND	0.0250	1	07/16/24	07/17/24	
Toluene	ND	0.0250	1	07/16/24	07/17/24	
o-Xylene	ND	0.0250	1	07/16/24	07/17/24	
p,m-Xylene	ND	0.0500	1	07/16/24	07/17/24	
Total Xylenes	ND	0.0250	1	07/16/24	07/17/24	
Surrogate: Bromofluorobenzene		122 %	70-130	07/16/24	07/17/24	
Surrogate: 1,2-Dichloroethane-d4		96.7 %	70-130	07/16/24	07/17/24	
Surrogate: Toluene-d8		104 %	70-130	07/16/24	07/17/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2429047
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/16/24	07/17/24	
Surrogate: Bromofluorobenzene		122 %	70-130	07/16/24	07/17/24	
Surrogate: 1,2-Dichloroethane-d4		96.7 %	70-130	07/16/24	07/17/24	
Surrogate: Toluene-d8		104 %	70-130	07/16/24	07/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2429035
Diesel Range Organics (C10-C28)	ND	25.0	1	07/17/24	07/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/17/24	07/17/24	
Surrogate: n-Nonane		108 %	50-200	07/17/24	07/17/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2429040
Chloride	ND	20.0	1	07/17/24	07/17/24	



Sample Data

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

Project Name: Thistle Unit 6
Project Number: 01058-0007
Project Manager: Gio Gomez

Reported:
7/17/2024 4:18:08PM

CS6

E407123-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2429047
Benzene	ND	0.0250	1	07/16/24	07/17/24	
Ethylbenzene	ND	0.0250	1	07/16/24	07/17/24	
Toluene	ND	0.0250	1	07/16/24	07/17/24	
o-Xylene	ND	0.0250	1	07/16/24	07/17/24	
p,m-Xylene	ND	0.0500	1	07/16/24	07/17/24	
Total Xylenes	ND	0.0250	1	07/16/24	07/17/24	
Surrogate: Bromofluorobenzene		109 %	70-130	07/16/24	07/17/24	
Surrogate: 1,2-Dichloroethane-d4		92.0 %	70-130	07/16/24	07/17/24	
Surrogate: Toluene-d8		106 %	70-130	07/16/24	07/17/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2429047
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/16/24	07/17/24	
Surrogate: Bromofluorobenzene		109 %	70-130	07/16/24	07/17/24	
Surrogate: 1,2-Dichloroethane-d4		92.0 %	70-130	07/16/24	07/17/24	
Surrogate: Toluene-d8		106 %	70-130	07/16/24	07/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2429035
Diesel Range Organics (C10-C28)	ND	25.0	1	07/17/24	07/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/17/24	07/17/24	
Surrogate: n-Nonane		114 %	50-200	07/17/24	07/17/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2429040
Chloride	ND	20.0	1	07/17/24	07/17/24	



Sample Data

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

Project Name: Thistle Unit 6
Project Number: 01058-0007
Project Manager: Gio Gomez

Reported:
7/17/2024 4:18:08PM

CS7

E407123-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2429047
Benzene	ND	0.0250	1	07/16/24	07/17/24	
Ethylbenzene	ND	0.0250	1	07/16/24	07/17/24	
Toluene	ND	0.0250	1	07/16/24	07/17/24	
o-Xylene	ND	0.0250	1	07/16/24	07/17/24	
p,m-Xylene	ND	0.0500	1	07/16/24	07/17/24	
Total Xylenes	ND	0.0250	1	07/16/24	07/17/24	
Surrogate: Bromofluorobenzene		107 %	70-130	07/16/24	07/17/24	
Surrogate: 1,2-Dichloroethane-d4		88.7 %	70-130	07/16/24	07/17/24	
Surrogate: Toluene-d8		107 %	70-130	07/16/24	07/17/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2429047
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/16/24	07/17/24	
Surrogate: Bromofluorobenzene		107 %	70-130	07/16/24	07/17/24	
Surrogate: 1,2-Dichloroethane-d4		88.7 %	70-130	07/16/24	07/17/24	
Surrogate: Toluene-d8		107 %	70-130	07/16/24	07/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2429035
Diesel Range Organics (C10-C28)	ND	25.0	1	07/17/24	07/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/17/24	07/17/24	
Surrogate: n-Nonane		114 %	50-200	07/17/24	07/17/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2429040
Chloride	ND	20.0	1	07/17/24	07/17/24	



Sample Data

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

Project Name: Thistle Unit 6
Project Number: 01058-0007
Project Manager: Gio Gomez

Reported:
7/17/2024 4:18:08PM

CS8

E407123-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2429047
Benzene	ND	0.0250	1	07/16/24	07/17/24	
Ethylbenzene	ND	0.0250	1	07/16/24	07/17/24	
Toluene	ND	0.0250	1	07/16/24	07/17/24	
o-Xylene	ND	0.0250	1	07/16/24	07/17/24	
p,m-Xylene	ND	0.0500	1	07/16/24	07/17/24	
Total Xylenes	ND	0.0250	1	07/16/24	07/17/24	
Surrogate: Bromofluorobenzene		107 %	70-130	07/16/24	07/17/24	
Surrogate: 1,2-Dichloroethane-d4		89.2 %	70-130	07/16/24	07/17/24	
Surrogate: Toluene-d8		106 %	70-130	07/16/24	07/17/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2429047
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/16/24	07/17/24	
Surrogate: Bromofluorobenzene		107 %	70-130	07/16/24	07/17/24	
Surrogate: 1,2-Dichloroethane-d4		89.2 %	70-130	07/16/24	07/17/24	
Surrogate: Toluene-d8		106 %	70-130	07/16/24	07/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2429035
Diesel Range Organics (C10-C28)	ND	25.0	1	07/17/24	07/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/17/24	07/17/24	
Surrogate: n-Nonane		112 %	50-200	07/17/24	07/17/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2429040
Chloride	ND	20.0	1	07/17/24	07/17/24	



Sample Data

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

Project Name: Thistle Unit 6
Project Number: 01058-0007
Project Manager: Gio Gomez

Reported:
7/17/2024 4:18:08PM

CS9

E407123-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2429047
Benzene	ND	0.0250	1	07/16/24	07/17/24	
Ethylbenzene	ND	0.0250	1	07/16/24	07/17/24	
Toluene	ND	0.0250	1	07/16/24	07/17/24	
o-Xylene	ND	0.0250	1	07/16/24	07/17/24	
p,m-Xylene	ND	0.0500	1	07/16/24	07/17/24	
Total Xylenes	ND	0.0250	1	07/16/24	07/17/24	
Surrogate: Bromofluorobenzene		107 %	70-130	07/16/24	07/17/24	
Surrogate: 1,2-Dichloroethane-d4		88.7 %	70-130	07/16/24	07/17/24	
Surrogate: Toluene-d8		105 %	70-130	07/16/24	07/17/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2429047
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/16/24	07/17/24	
Surrogate: Bromofluorobenzene		107 %	70-130	07/16/24	07/17/24	
Surrogate: 1,2-Dichloroethane-d4		88.7 %	70-130	07/16/24	07/17/24	
Surrogate: Toluene-d8		105 %	70-130	07/16/24	07/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2429035
Diesel Range Organics (C10-C28)	ND	25.0	1	07/17/24	07/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/17/24	07/17/24	
Surrogate: n-Nonane		111 %	50-200	07/17/24	07/17/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2429040
Chloride	ND	20.0	1	07/17/24	07/17/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Thistle Unit 6	Reported: 7/17/2024 4:18:08PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

CS10

E407123-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS		Batch: 2429047	
Benzene	ND	0.0250	1	07/16/24	07/17/24	
Ethylbenzene	ND	0.0250	1	07/16/24	07/17/24	
Toluene	ND	0.0250	1	07/16/24	07/17/24	
o-Xylene	ND	0.0250	1	07/16/24	07/17/24	
p,m-Xylene	ND	0.0500	1	07/16/24	07/17/24	
Total Xylenes	ND	0.0250	1	07/16/24	07/17/24	
Surrogate: Bromofluorobenzene	97.6 %	70-130		07/16/24	07/17/24	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		07/16/24	07/17/24	
Surrogate: Toluene-d8	106 %	70-130		07/16/24	07/17/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2429047	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/16/24	07/17/24	
Surrogate: Bromofluorobenzene	97.6 %	70-130		07/16/24	07/17/24	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		07/16/24	07/17/24	
Surrogate: Toluene-d8	106 %	70-130		07/16/24	07/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2429035	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/17/24	07/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/17/24	07/17/24	
Surrogate: n-Nonane	113 %	50-200		07/17/24	07/17/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2429040	
Chloride	ND	20.0	1	07/17/24	07/17/24	



Sample Data

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

Project Name: Thistle Unit 6
Project Number: 01058-0007
Project Manager: Gio Gomez

Reported:
7/17/2024 4:18:08PM

CS11

E407123-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2429047
Benzene	ND	0.0250	1	07/16/24	07/17/24	
Ethylbenzene	ND	0.0250	1	07/16/24	07/17/24	
Toluene	ND	0.0250	1	07/16/24	07/17/24	
o-Xylene	ND	0.0250	1	07/16/24	07/17/24	
p,m-Xylene	ND	0.0500	1	07/16/24	07/17/24	
Total Xylenes	ND	0.0250	1	07/16/24	07/17/24	
Surrogate: Bromofluorobenzene	94.2 %	70-130		07/16/24	07/17/24	
Surrogate: 1,2-Dichloroethane-d4	98.7 %	70-130		07/16/24	07/17/24	
Surrogate: Toluene-d8	106 %	70-130		07/16/24	07/17/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2429047
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/16/24	07/17/24	
Surrogate: Bromofluorobenzene	94.2 %	70-130		07/16/24	07/17/24	
Surrogate: 1,2-Dichloroethane-d4	98.7 %	70-130		07/16/24	07/17/24	
Surrogate: Toluene-d8	106 %	70-130		07/16/24	07/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2429035
Diesel Range Organics (C10-C28)	ND	25.0	1	07/17/24	07/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/17/24	07/17/24	
Surrogate: n-Nonane	112 %	50-200		07/17/24	07/17/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2429040
Chloride	ND	20.0	1	07/17/24	07/17/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Thistle Unit 6	Reported: 7/17/2024 4:18:08PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

CS12

E407123-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2429047
Benzene	ND	0.0250	1	07/16/24	07/17/24	
Ethylbenzene	ND	0.0250	1	07/16/24	07/17/24	
Toluene	ND	0.0250	1	07/16/24	07/17/24	
o-Xylene	ND	0.0250	1	07/16/24	07/17/24	
p,m-Xylene	ND	0.0500	1	07/16/24	07/17/24	
Total Xylenes	ND	0.0250	1	07/16/24	07/17/24	
Surrogate: Bromofluorobenzene	95.3 %	70-130		07/16/24	07/17/24	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		07/16/24	07/17/24	
Surrogate: Toluene-d8	105 %	70-130		07/16/24	07/17/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2429047
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/16/24	07/17/24	
Surrogate: Bromofluorobenzene	95.3 %	70-130		07/16/24	07/17/24	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		07/16/24	07/17/24	
Surrogate: Toluene-d8	105 %	70-130		07/16/24	07/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2429035
Diesel Range Organics (C10-C28)	ND	25.0	1	07/17/24	07/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/17/24	07/17/24	
Surrogate: n-Nonane	105 %	50-200		07/17/24	07/17/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2429040
Chloride	ND	20.0	1	07/17/24	07/17/24	



Sample Data

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

Project Name: Thistle Unit 6
Project Number: 01058-0007
Project Manager: Gio Gomez

Reported:
7/17/2024 4:18:08PM

CSW1

E407123-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2429047
Benzene	ND	0.0250	1	07/16/24	07/17/24	
Ethylbenzene	ND	0.0250	1	07/16/24	07/17/24	
Toluene	ND	0.0250	1	07/16/24	07/17/24	
o-Xylene	ND	0.0250	1	07/16/24	07/17/24	
p,m-Xylene	ND	0.0500	1	07/16/24	07/17/24	
Total Xylenes	ND	0.0250	1	07/16/24	07/17/24	
Surrogate: Bromofluorobenzene	96.4 %	70-130		07/16/24	07/17/24	
Surrogate: 1,2-Dichloroethane-d4	98.3 %	70-130		07/16/24	07/17/24	
Surrogate: Toluene-d8	105 %	70-130		07/16/24	07/17/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2429047
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/16/24	07/17/24	
Surrogate: Bromofluorobenzene	96.4 %	70-130		07/16/24	07/17/24	
Surrogate: 1,2-Dichloroethane-d4	98.3 %	70-130		07/16/24	07/17/24	
Surrogate: Toluene-d8	105 %	70-130		07/16/24	07/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2429035
Diesel Range Organics (C10-C28)	ND	25.0	1	07/17/24	07/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/17/24	07/17/24	
Surrogate: n-Nonane	91.5 %	50-200		07/17/24	07/17/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2429040
Chloride	ND	20.0	1	07/17/24	07/17/24	



Sample Data

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

Project Name: Thistle Unit 6
Project Number: 01058-0007
Project Manager: Gio Gomez

Reported:
7/17/2024 4:18:08PM

CSW2

E407123-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2429047
Benzene	ND	0.0250	1	07/16/24	07/17/24	
Ethylbenzene	ND	0.0250	1	07/16/24	07/17/24	
Toluene	ND	0.0250	1	07/16/24	07/17/24	
o-Xylene	ND	0.0250	1	07/16/24	07/17/24	
p,m-Xylene	ND	0.0500	1	07/16/24	07/17/24	
Total Xylenes	ND	0.0250	1	07/16/24	07/17/24	
Surrogate: Bromofluorobenzene	97.7 %	70-130		07/16/24	07/17/24	
Surrogate: 1,2-Dichloroethane-d4	96.4 %	70-130		07/16/24	07/17/24	
Surrogate: Toluene-d8	106 %	70-130		07/16/24	07/17/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2429047
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/16/24	07/17/24	
Surrogate: Bromofluorobenzene	97.7 %	70-130		07/16/24	07/17/24	
Surrogate: 1,2-Dichloroethane-d4	96.4 %	70-130		07/16/24	07/17/24	
Surrogate: Toluene-d8	106 %	70-130		07/16/24	07/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2429035
Diesel Range Organics (C10-C28)	ND	25.0	1	07/17/24	07/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/17/24	07/17/24	
Surrogate: n-Nonane	92.0 %	50-200		07/17/24	07/17/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2429040
Chloride	ND	20.0	1	07/17/24	07/17/24	



Sample Data

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

Project Name: Thistle Unit 6
Project Number: 01058-0007
Project Manager: Gio Gomez

Reported:
7/17/2024 4:18:08PM

CSW3

E407123-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2429047
Benzene	ND	0.0250	1	07/16/24	07/17/24	
Ethylbenzene	ND	0.0250	1	07/16/24	07/17/24	
Toluene	ND	0.0250	1	07/16/24	07/17/24	
o-Xylene	ND	0.0250	1	07/16/24	07/17/24	
p,m-Xylene	ND	0.0500	1	07/16/24	07/17/24	
Total Xylenes	ND	0.0250	1	07/16/24	07/17/24	
Surrogate: Bromofluorobenzene	96.0 %	70-130		07/16/24	07/17/24	
Surrogate: 1,2-Dichloroethane-d4	98.3 %	70-130		07/16/24	07/17/24	
Surrogate: Toluene-d8	105 %	70-130		07/16/24	07/17/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2429047
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/16/24	07/17/24	
Surrogate: Bromofluorobenzene	96.0 %	70-130		07/16/24	07/17/24	
Surrogate: 1,2-Dichloroethane-d4	98.3 %	70-130		07/16/24	07/17/24	
Surrogate: Toluene-d8	105 %	70-130		07/16/24	07/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2429035
Diesel Range Organics (C10-C28)	ND	25.0	1	07/17/24	07/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/17/24	07/17/24	
Surrogate: n-Nonane	92.1 %	50-200		07/17/24	07/17/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2429040
Chloride	ND	20.0	1	07/17/24	07/17/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Thistle Unit 6	Reported: 7/17/2024 4:18:08PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

CSW4

E407123-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2429047
Benzene	ND	0.0250	1	07/16/24	07/17/24	
Ethylbenzene	ND	0.0250	1	07/16/24	07/17/24	
Toluene	ND	0.0250	1	07/16/24	07/17/24	
o-Xylene	ND	0.0250	1	07/16/24	07/17/24	
p,m-Xylene	ND	0.0500	1	07/16/24	07/17/24	
Total Xylenes	ND	0.0250	1	07/16/24	07/17/24	
Surrogate: Bromofluorobenzene	95.6 %	70-130		07/16/24	07/17/24	
Surrogate: 1,2-Dichloroethane-d4	95.4 %	70-130		07/16/24	07/17/24	
Surrogate: Toluene-d8	104 %	70-130		07/16/24	07/17/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2429047
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/16/24	07/17/24	
Surrogate: Bromofluorobenzene	95.6 %	70-130		07/16/24	07/17/24	
Surrogate: 1,2-Dichloroethane-d4	95.4 %	70-130		07/16/24	07/17/24	
Surrogate: Toluene-d8	104 %	70-130		07/16/24	07/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2429035
Diesel Range Organics (C10-C28)	ND	25.0	1	07/17/24	07/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/17/24	07/17/24	
Surrogate: n-Nonane	93.0 %	50-200		07/17/24	07/17/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2429040
Chloride	ND	20.0	1	07/17/24	07/17/24	



Sample Data

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

Project Name: Thistle Unit 6
Project Number: 01058-0007
Project Manager: Gio Gomez

Reported:
7/17/2024 4:18:08PM

CSW5

E407123-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2429047
Benzene	ND	0.0250	1	07/16/24	07/17/24	
Ethylbenzene	ND	0.0250	1	07/16/24	07/17/24	
Toluene	ND	0.0250	1	07/16/24	07/17/24	
o-Xylene	ND	0.0250	1	07/16/24	07/17/24	
p,m-Xylene	ND	0.0500	1	07/16/24	07/17/24	
Total Xylenes	ND	0.0250	1	07/16/24	07/17/24	
Surrogate: Bromofluorobenzene	95.6 %	70-130		07/16/24	07/17/24	
Surrogate: 1,2-Dichloroethane-d4	96.5 %	70-130		07/16/24	07/17/24	
Surrogate: Toluene-d8	106 %	70-130		07/16/24	07/17/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2429047
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/16/24	07/17/24	
Surrogate: Bromofluorobenzene	95.6 %	70-130		07/16/24	07/17/24	
Surrogate: 1,2-Dichloroethane-d4	96.5 %	70-130		07/16/24	07/17/24	
Surrogate: Toluene-d8	106 %	70-130		07/16/24	07/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2429035
Diesel Range Organics (C10-C28)	ND	25.0	1	07/17/24	07/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/17/24	07/17/24	
Surrogate: n-Nonane	115 %	50-200		07/17/24	07/17/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2429040
Chloride	ND	20.0	1	07/17/24	07/17/24	



Sample Data

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

Project Name: Thistle Unit 6
Project Number: 01058-0007
Project Manager: Gio Gomez

Reported:
7/17/2024 4:18:08PM

CSW6

E407123-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2429047
Benzene	ND	0.0250	1	07/16/24	07/17/24	
Ethylbenzene	ND	0.0250	1	07/16/24	07/17/24	
Toluene	ND	0.0250	1	07/16/24	07/17/24	
o-Xylene	ND	0.0250	1	07/16/24	07/17/24	
p,m-Xylene	ND	0.0500	1	07/16/24	07/17/24	
Total Xylenes	ND	0.0250	1	07/16/24	07/17/24	
Surrogate: Bromofluorobenzene	97.0 %	70-130		07/16/24	07/17/24	
Surrogate: 1,2-Dichloroethane-d4	98.0 %	70-130		07/16/24	07/17/24	
Surrogate: Toluene-d8	104 %	70-130		07/16/24	07/17/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2429047
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/16/24	07/17/24	
Surrogate: Bromofluorobenzene	97.0 %	70-130		07/16/24	07/17/24	
Surrogate: 1,2-Dichloroethane-d4	98.0 %	70-130		07/16/24	07/17/24	
Surrogate: Toluene-d8	104 %	70-130		07/16/24	07/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2429035
Diesel Range Organics (C10-C28)	ND	25.0	1	07/17/24	07/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/17/24	07/17/24	
Surrogate: n-Nonane	111 %	50-200		07/17/24	07/17/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2429040
Chloride	ND	20.0	1	07/17/24	07/17/24	



Sample Data

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

Project Name: Thistle Unit 6
Project Number: 01058-0007
Project Manager: Gio Gomez

Reported:
7/17/2024 4:18:08PM

CSW7

E407123-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2429047
Benzene	ND	0.0250	1	07/16/24	07/17/24	
Ethylbenzene	ND	0.0250	1	07/16/24	07/17/24	
Toluene	ND	0.0250	1	07/16/24	07/17/24	
o-Xylene	ND	0.0250	1	07/16/24	07/17/24	
p,m-Xylene	ND	0.0500	1	07/16/24	07/17/24	
Total Xylenes	ND	0.0250	1	07/16/24	07/17/24	
Surrogate: Bromofluorobenzene	94.9 %	70-130		07/16/24	07/17/24	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		07/16/24	07/17/24	
Surrogate: Toluene-d8	105 %	70-130		07/16/24	07/17/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2429047
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/16/24	07/17/24	
Surrogate: Bromofluorobenzene	94.9 %	70-130		07/16/24	07/17/24	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		07/16/24	07/17/24	
Surrogate: Toluene-d8	105 %	70-130		07/16/24	07/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2429035
Diesel Range Organics (C10-C28)	ND	25.0	1	07/17/24	07/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/17/24	07/17/24	
Surrogate: n-Nonane	109 %	50-200		07/17/24	07/17/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2429040
Chloride	ND	20.0	1	07/17/24	07/17/24	



Sample Data

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

Project Name: Thistle Unit 6
Project Number: 01058-0007
Project Manager: Gio Gomez

Reported:
7/17/2024 4:18:08PM

CSW8

E407123-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2429047
Benzene	ND	0.0250	1	07/16/24	07/17/24	
Ethylbenzene	ND	0.0250	1	07/16/24	07/17/24	
Toluene	ND	0.0250	1	07/16/24	07/17/24	
o-Xylene	ND	0.0250	1	07/16/24	07/17/24	
p,m-Xylene	ND	0.0500	1	07/16/24	07/17/24	
Total Xylenes	ND	0.0250	1	07/16/24	07/17/24	
Surrogate: Bromofluorobenzene	96.4 %	70-130		07/16/24	07/17/24	
Surrogate: 1,2-Dichloroethane-d4	95.9 %	70-130		07/16/24	07/17/24	
Surrogate: Toluene-d8	105 %	70-130		07/16/24	07/17/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2429047
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/16/24	07/17/24	
Surrogate: Bromofluorobenzene	96.4 %	70-130		07/16/24	07/17/24	
Surrogate: 1,2-Dichloroethane-d4	95.9 %	70-130		07/16/24	07/17/24	
Surrogate: Toluene-d8	105 %	70-130		07/16/24	07/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2429035
Diesel Range Organics (C10-C28)	ND	25.0	1	07/17/24	07/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/17/24	07/17/24	
Surrogate: n-Nonane	110 %	50-200		07/17/24	07/17/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2429040
Chloride	ND	20.0	1	07/17/24	07/17/24	



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Thistle Unit 6	Reported: 7/17/2024 4:18:08PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

Volatile Organic Compounds by EPA 8260B

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2429047-BLK1)

Prepared: 07/16/24 Analyzed: 07/16/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.480		0.500		96.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.486		0.500		97.2	70-130			
Surrogate: Toluene-d8	0.524		0.500		105	70-130			

LCS (2429047-BS1)

Prepared: 07/16/24 Analyzed: 07/16/24

Benzene	2.22	0.0250	2.50		88.9	70-130			
Ethylbenzene	2.39	0.0250	2.50		95.6	70-130			
Toluene	2.38	0.0250	2.50		95.0	70-130			
o-Xylene	2.25	0.0250	2.50		89.9	70-130			
p,m-Xylene	4.54	0.0500	5.00		90.7	70-130			
Total Xylenes	6.78	0.0250	7.50		90.5	70-130			
Surrogate: Bromofluorobenzene	0.476		0.500		95.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.488		0.500		97.6	70-130			
Surrogate: Toluene-d8	0.526		0.500		105	70-130			

LCS Dup (2429047-BSD1)

Prepared: 07/16/24 Analyzed: 07/16/24

Benzene	2.29	0.0250	2.50		91.4	70-130	2.82	23	
Ethylbenzene	2.45	0.0250	2.50		97.9	70-130	2.34	27	
Toluene	2.44	0.0250	2.50		97.4	70-130	2.52	24	
o-Xylene	2.32	0.0250	2.50		92.9	70-130	3.24	27	
p,m-Xylene	4.70	0.0500	5.00		93.9	70-130	3.47	27	
Total Xylenes	7.02	0.0250	7.50		93.6	70-130	3.39	27	
Surrogate: Bromofluorobenzene	0.476		0.500		95.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.484		0.500		96.8	70-130			
Surrogate: Toluene-d8	0.522		0.500		104	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Thistle Unit 6	Reported: 7/17/2024 4:18:08PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2429047-BLK1) Prepared: 07/16/24 Analyzed: 07/16/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.480		0.500		96.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.486		0.500		97.2	70-130			
Surrogate: Toluene-d8	0.524		0.500		105	70-130			

LCS (2429047-BS2) Prepared: 07/16/24 Analyzed: 07/16/24

Gasoline Range Organics (C6-C10)	59.0	20.0	50.0		118	70-130			
Surrogate: Bromofluorobenzene	0.496		0.500		99.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.496		0.500		99.2	70-130			
Surrogate: Toluene-d8	0.533		0.500		107	70-130			

LCS Dup (2429047-BSD2) Prepared: 07/16/24 Analyzed: 07/16/24

Gasoline Range Organics (C6-C10)	58.7	20.0	50.0		117	70-130	0.420	20	
Surrogate: Bromofluorobenzene	0.491		0.500		98.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.496		0.500		99.1	70-130			
Surrogate: Toluene-d8	0.533		0.500		107	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Thistle Unit 6	Reported: 7/17/2024 4:18:08PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2429035-BLK1)					Prepared: 07/16/24 Analyzed: 07/16/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	52.7		50.0		105	50-200			

LCS (2429035-BS1)					Prepared: 07/16/24 Analyzed: 07/16/24				
Diesel Range Organics (C10-C28)	231	25.0	250		92.4	38-132			
Surrogate: n-Nonane	53.8		50.0		108	50-200			

LCS Dup (2429035-BSD1)					Prepared: 07/16/24 Analyzed: 07/16/24				
Diesel Range Organics (C10-C28)	235	25.0	250		94.2	38-132	1.92	20	
Surrogate: n-Nonane	54.6		50.0		109	50-200			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Thistle Unit 6	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	7/17/2024 4:18:08PM

Anions by EPA 300.0/9056A

Analyst: WF

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

Blank (2429040-BLK1)					Prepared: 07/16/24 Analyzed: 07/17/24				
Chloride	ND	20.0							
LCS (2429040-BS1)					Prepared: 07/16/24 Analyzed: 07/17/24				
Chloride	248	20.0	250		99.2	90-110			
LCS Dup (2429040-BSD1)					Prepared: 07/16/24 Analyzed: 07/17/24				
Chloride	247	20.0	250		98.8	90-110	0.392	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 6	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Gio Gomez	07/17/24 16:18

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

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

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



Project Information

Chain of Custody

Page 1 of 4

Client: Pima Environmental Services					Bill To		Lab Use Only				TAT				EPA Program	
Project: Thistle Unit 6					Attention: Devon		Lab WO# E407123		Job Number 01058-0007		1D	2D	3D	Standard	CWA	SDWA
Project Manager: Gio Gomez					Address:		Analysis and Method								RCRA	
Address: 5614 N. Lovington Hwy.					City, State, Zip											
City, State, Zip Hobbs, NM, 88240					Phone:											
Phone: 806-782-1151					Email:											
Email: gio@pimaoil.com					Pima Project # 1-174											
Report due by:																
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/RO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0		BGDOC NM	BGDOC TX	State	
															NM CO UT AZ TX	
															Remarks	
2:00	7/15	S	1	CS1	1								X			
2:08				CS2	2											
2:14				CS3	3											
2:19				CS4	4											
2:28				CS5	5											
2:33				CS6	6											
2:40				CS7	7											
2:43				CS8	8											
2:51				CS9	9											
2:59				CS10	10											
Additional Instructions: Billing# 1007096201																
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.											Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.					
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only								
Kerime Adame		7/16/24	1:25	Michelle Gonzales		7-16-24	1325	Received on ice: Y / N								
Michelle Gonzales		7-16-24	1545	C.A.M.		7-16-24	1645	T1 T2 T3								
C.M.		7-16-24	2230	Kathryn R Heller		7-17-24	0600	AVG Temp °C 4								
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other											Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA					
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																

Project Information

Chain of Custody

Page 2 of 4

Client: Pima Environmental Services				Bill To		Lab Use Only		TAT				EPA Program							
Project: <u>Thistle Unit 6</u>				Attention: <u>Devon</u>		Lab WO# <u>E407123</u>		Job Number <u>01058-0007</u>				1D	2D	3D	Standard	CWA	SDWA		
Project Manager: <u>Gio Gomez</u>				Address:		Analysis and Method										RCRA			
Address: <u>5614 N. Lovington Hwy.</u>				City, State, Zip		DRO/ORO by 8015		GRO/DRO by 8015				BTEX by 8021				VOC by 8260			
City, State, Zip <u>Hobbs, NM. 88240</u>				Phone:		Metals 6010		Chloride 300.0				BGDOC NM				BGDOC TX			
Phone: <u>806-782-1151</u>				Email:															
Email: <u>gio@pimaoil.com</u>				Pima Project # <u>1-174</u>															
Report due by:																			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Remarks													
3:07	7/15	S	1	CS11	11														
3:13				CS12	12														
3:37				CSW1	13														
3:42				CSW2	14														
3:47				CSW3	15														
3:52				CSW4	16														
3:59				CSW5	17														
4:07				CSW6	18														
4:11				CSW7	19														
4:21				CSW8	20														
Additional Instructions: <u>Billing # 1007096201</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)		Date		Time		Received by: (Signature)		Date		Time		Lab Use Only							
<u>Karime Adams</u>		7/16/24		1:25		<u>Michelle Gonzales</u>		7.16.24		1325		Received on ice: <u>Y</u> / N							
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		T1 T2 T3							
<u>Michelle Gonzales</u>		7-16-24		1545		<u>J.M.</u>		7.16.24		1645									
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		AVG Temp °C							
<u>J.M.</u>		7.16.24		2230		<u>Kayla R Hall</u>						4							
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other																			
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																			
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																			

Envirotech Analytical Laboratory

Printed: 7/17/2024 12:34:32PM

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:	07/17/24 06:00	Work Order ID:	E407123
Phone:	(575) 631-6977	Date Logged In:	07/16/24 15:18	Logged In By:	Alexa Michaels
Email:	gio@pimaoil.com	Due Date:	07/17/24 17:00 (0 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
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: CouierSample 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 InstructionComments/Resolution

Thistle Unit 6 has been separated into multiple WO due to high sample volume. WO are E407123 and E407124.

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

Date



envirotech Inc.

Report to:
Gio Gomez



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Pima Environmental Services-Carlsbad

Project Name: Thistle Unit 6

Work Order: E407124

Job Number: 01058-0007

Received: 7/17/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
7/17/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 7/17/24

Gio Gomez
PO Box 247
Plains, TX 79355-0247



Project Name: Thistle Unit 6
Workorder: E407124
Date Received: 7/17/2024 6:00:00AM

Gio Gomez,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/17/2024 6:00:00AM, under the Project Name: Thistle Unit 6.

The analytical test results summarized in this report with the Project Name: Thistle Unit 6 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

Raina Schwanz
Laboratory Administrator
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Sample Summary

Pima Environmental Services-Carlsbad	Project Name:	Thistle Unit 6	Reported: 07/17/24 16:19
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
CSW9	E407124-01A	Soil	07/15/24	07/17/24	Glass Jar, 2 oz.
CSW10	E407124-02A	Soil	07/15/24	07/17/24	Glass Jar, 2 oz.
CSW11	E407124-03A	Soil	07/15/24	07/17/24	Glass Jar, 2 oz.
CSW12	E407124-04A	Soil	07/15/24	07/17/24	Glass Jar, 2 oz.
CSW13	E407124-05A	Soil	07/15/24	07/17/24	Glass Jar, 2 oz.
CSW14	E407124-06A	Soil	07/15/24	07/17/24	Glass Jar, 2 oz.
CSW15	E407124-07A	Soil	07/15/24	07/17/24	Glass Jar, 2 oz.
CSW16	E407124-08A	Soil	07/15/24	07/17/24	Glass Jar, 2 oz.
CSW17	E407124-09A	Soil	07/15/24	07/17/24	Glass Jar, 2 oz.
CSW18	E407124-10A	Soil	07/15/24	07/17/24	Glass Jar, 2 oz.
CSW19	E407124-11A	Soil	07/15/24	07/17/24	Glass Jar, 2 oz.
CSW20	E407124-12A	Soil	07/15/24	07/17/24	Glass Jar, 2 oz.
CSW21	E407124-13A	Soil	07/15/24	07/17/24	Glass Jar, 2 oz.
CSW22	E407124-14A	Soil	07/15/24	07/17/24	Glass Jar, 2 oz.
CSW23	E407124-15A	Soil	07/15/24	07/17/24	Glass Jar, 2 oz.



Sample Data

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

Project Name: Thistle Unit 6
Project Number: 01058-0007
Project Manager: Gio Gomez

Reported:
7/17/2024 4:19:50PM

CSW9

E407124-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2429048	
Benzene	ND	0.0250	1	07/16/24	07/17/24	
Ethylbenzene	ND	0.0250	1	07/16/24	07/17/24	
Toluene	ND	0.0250	1	07/16/24	07/17/24	
o-Xylene	ND	0.0250	1	07/16/24	07/17/24	
p,m-Xylene	ND	0.0500	1	07/16/24	07/17/24	
Total Xylenes	ND	0.0250	1	07/16/24	07/17/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	88.8 %	70-130		07/16/24	07/17/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2429048	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/16/24	07/17/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	96.0 %	70-130		07/16/24	07/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2429037	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/17/24	07/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/17/24	07/17/24	
<i>Surrogate: n-Nonane</i>	109 %	50-200		07/17/24	07/17/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2429039	
Chloride	ND	20.0	1	07/17/24	07/17/24	



Sample Data

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

Project Name: Thistle Unit 6
Project Number: 01058-0007
Project Manager: Gio Gomez

Reported:
7/17/2024 4:19:50PM

CSW10

E407124-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2429048	
Benzene	ND	0.0250	1	07/16/24	07/17/24	
Ethylbenzene	ND	0.0250	1	07/16/24	07/17/24	
Toluene	ND	0.0250	1	07/16/24	07/17/24	
o-Xylene	ND	0.0250	1	07/16/24	07/17/24	
p,m-Xylene	ND	0.0500	1	07/16/24	07/17/24	
Total Xylenes	ND	0.0250	1	07/16/24	07/17/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	89.7 %	70-130		07/16/24	07/17/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2429048	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/16/24	07/17/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	97.1 %	70-130		07/16/24	07/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2429037	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/17/24	07/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/17/24	07/17/24	
<i>Surrogate: n-Nonane</i>						
	109 %	50-200		07/17/24	07/17/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2429039	
Chloride	ND	20.0	1	07/17/24	07/17/24	



Sample Data

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

Project Name: Thistle Unit 6
Project Number: 01058-0007
Project Manager: Gio Gomez

Reported:
7/17/2024 4:19:50PM

CSW11

E407124-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2429048	
Benzene	ND	0.0250	1	07/16/24	07/17/24	
Ethylbenzene	ND	0.0250	1	07/16/24	07/17/24	
Toluene	ND	0.0250	1	07/16/24	07/17/24	
o-Xylene	ND	0.0250	1	07/16/24	07/17/24	
p,m-Xylene	ND	0.0500	1	07/16/24	07/17/24	
Total Xylenes	ND	0.0250	1	07/16/24	07/17/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	89.9 %	70-130		07/16/24	07/17/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2429048	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/16/24	07/17/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.9 %	70-130		07/16/24	07/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2429037	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/17/24	07/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/17/24	07/17/24	
<i>Surrogate: n-Nonane</i>						
	109 %	50-200		07/17/24	07/17/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2429039	
Chloride	ND	20.0	1	07/17/24	07/17/24	



Sample Data

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

Project Name: Thistle Unit 6
Project Number: 01058-0007
Project Manager: Gio Gomez

Reported:
7/17/2024 4:19:50PM

CSW12

E407124-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B		mg/kg	mg/kg	Analyst: IY		Batch: 2429048
Benzene	ND	0.0250	1	07/16/24	07/17/24	
Ethylbenzene	ND	0.0250	1	07/16/24	07/17/24	
Toluene	ND	0.0250	1	07/16/24	07/17/24	
o-Xylene	ND	0.0250	1	07/16/24	07/17/24	
p,m-Xylene	ND	0.0500	1	07/16/24	07/17/24	
Total Xylenes	ND	0.0250	1	07/16/24	07/17/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		88.6 %	70-130	07/16/24	07/17/24	
Nonhalogenated Organics by EPA 8015D - GRO		mg/kg	mg/kg	Analyst: IY		Batch: 2429048
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/16/24	07/17/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		97.4 %	70-130	07/16/24	07/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO		mg/kg	mg/kg	Analyst: NV		Batch: 2429037
Diesel Range Organics (C10-C28)	ND	25.0	1	07/17/24	07/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/17/24	07/17/24	
<i>Surrogate: n-Nonane</i>		113 %	50-200	07/17/24	07/17/24	
Anions by EPA 300.0/9056A		mg/kg	mg/kg	Analyst: DT		Batch: 2429039
Chloride	ND	20.0	1	07/17/24	07/17/24	



Sample Data

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

Project Name: Thistle Unit 6
Project Number: 01058-0007
Project Manager: Gio Gomez

Reported:
7/17/2024 4:19:50PM

CSW13

E407124-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2429048
Benzene	ND	0.0250	1	07/16/24	07/17/24	
Ethylbenzene	ND	0.0250	1	07/16/24	07/17/24	
Toluene	ND	0.0250	1	07/16/24	07/17/24	
o-Xylene	ND	0.0250	1	07/16/24	07/17/24	
p,m-Xylene	ND	0.0500	1	07/16/24	07/17/24	
Total Xylenes	ND	0.0250	1	07/16/24	07/17/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	87.8 %	70-130		07/16/24	07/17/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2429048
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/16/24	07/17/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.4 %	70-130		07/16/24	07/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2429037
Diesel Range Organics (C10-C28)	ND	25.0	1	07/17/24	07/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/17/24	07/17/24	
<i>Surrogate: n-Nonane</i>						
	111 %	50-200		07/17/24	07/17/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2429039
Chloride	ND	20.0	1	07/17/24	07/17/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Thistle Unit 6	Reported: 7/17/2024 4:19:50PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

CSW14

E407124-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2429048	
Benzene	ND	0.0250	1	07/16/24	07/17/24	
Ethylbenzene	ND	0.0250	1	07/16/24	07/17/24	
Toluene	ND	0.0250	1	07/16/24	07/17/24	
o-Xylene	ND	0.0250	1	07/16/24	07/17/24	
p,m-Xylene	ND	0.0500	1	07/16/24	07/17/24	
Total Xylenes	ND	0.0250	1	07/16/24	07/17/24	
Surrogate: 4-Bromochlorobenzene-PID	87.7 %	70-130		07/16/24	07/17/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2429048	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/16/24	07/17/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	95.5 %	70-130		07/16/24	07/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2429037	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/17/24	07/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/17/24	07/17/24	
Surrogate: n-Nonane	93.1 %	50-200		07/17/24	07/17/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2429039	
Chloride	ND	20.0	1	07/17/24	07/17/24	



Sample Data

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

Project Name: Thistle Unit 6
Project Number: 01058-0007
Project Manager: Gio Gomez

Reported:
7/17/2024 4:19:50PM

CSW15

E407124-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B		mg/kg	mg/kg	Analyst: IY		Batch: 2429048
Benzene	ND	0.0250	1	07/16/24	07/17/24	
Ethylbenzene	ND	0.0250	1	07/16/24	07/17/24	
Toluene	ND	0.0250	1	07/16/24	07/17/24	
o-Xylene	ND	0.0250	1	07/16/24	07/17/24	
p,m-Xylene	ND	0.0500	1	07/16/24	07/17/24	
Total Xylenes	ND	0.0250	1	07/16/24	07/17/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		87.5 %	70-130	07/16/24	07/17/24	
Nonhalogenated Organics by EPA 8015D - GRO		mg/kg	mg/kg	Analyst: IY		Batch: 2429048
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/16/24	07/17/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		96.1 %	70-130	07/16/24	07/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO		mg/kg	mg/kg	Analyst: NV		Batch: 2429037
Diesel Range Organics (C10-C28)	ND	25.0	1	07/17/24	07/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/17/24	07/17/24	
<i>Surrogate: n-Nonane</i>		92.4 %	50-200	07/17/24	07/17/24	
Anions by EPA 300.0/9056A		mg/kg	mg/kg	Analyst: DT		Batch: 2429039
Chloride	ND	20.0	1	07/17/24	07/17/24	



Sample Data

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

Project Name: Thistle Unit 6
Project Number: 01058-0007
Project Manager: Gio Gomez

Reported:
7/17/2024 4:19:50PM

CSW16

E407124-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2429048
Benzene	ND	0.0250	1	07/16/24	07/17/24	
Ethylbenzene	ND	0.0250	1	07/16/24	07/17/24	
Toluene	ND	0.0250	1	07/16/24	07/17/24	
o-Xylene	ND	0.0250	1	07/16/24	07/17/24	
p,m-Xylene	ND	0.0500	1	07/16/24	07/17/24	
Total Xylenes	ND	0.0250	1	07/16/24	07/17/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		87.7 %	70-130	07/16/24	07/17/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2429048
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/16/24	07/17/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		96.3 %	70-130	07/16/24	07/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2429037
Diesel Range Organics (C10-C28)	ND	25.0	1	07/17/24	07/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/17/24	07/17/24	
<i>Surrogate: n-Nonane</i>						
		94.7 %	50-200	07/17/24	07/17/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2429039
Chloride	ND	20.0	1	07/17/24	07/17/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Thistle Unit 6	Reported: 7/17/2024 4:19:50PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

CSW17

E407124-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2429048	
Benzene	ND	0.0250	1	07/16/24	07/17/24	
Ethylbenzene	ND	0.0250	1	07/16/24	07/17/24	
Toluene	ND	0.0250	1	07/16/24	07/17/24	
o-Xylene	ND	0.0250	1	07/16/24	07/17/24	
p,m-Xylene	ND	0.0500	1	07/16/24	07/17/24	
Total Xylenes	ND	0.0250	1	07/16/24	07/17/24	
Surrogate: 4-Bromochlorobenzene-PID	91.6 %	70-130		07/16/24	07/17/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2429048	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/16/24	07/17/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	106 %	70-130		07/16/24	07/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2429037	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/17/24	07/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/17/24	07/17/24	
Surrogate: n-Nonane	91.5 %	50-200		07/17/24	07/17/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2429039	
Chloride	ND	20.0	1	07/17/24	07/17/24	



Sample Data

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

Project Name: Thistle Unit 6
Project Number: 01058-0007
Project Manager: Gio Gomez

Reported:
7/17/2024 4:19:50PM

CSW18

E407124-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2429048
Benzene	ND	0.0250	1	07/16/24	07/17/24	
Ethylbenzene	ND	0.0250	1	07/16/24	07/17/24	
Toluene	ND	0.0250	1	07/16/24	07/17/24	
o-Xylene	ND	0.0250	1	07/16/24	07/17/24	
p,m-Xylene	ND	0.0500	1	07/16/24	07/17/24	
Total Xylenes	ND	0.0250	1	07/16/24	07/17/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	90.5 %	70-130		07/16/24	07/17/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2429048
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/16/24	07/17/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	106 %	70-130		07/16/24	07/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2429037
Diesel Range Organics (C10-C28)	ND	25.0	1	07/17/24	07/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/17/24	07/17/24	
<i>Surrogate: n-Nonane</i>						
	95.7 %	50-200		07/17/24	07/17/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2429039
Chloride	ND	20.0	1	07/17/24	07/17/24	



Sample Data

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

Project Name: Thistle Unit 6
Project Number: 01058-0007
Project Manager: Gio Gomez

Reported:
7/17/2024 4:19:50PM

CSW19

E407124-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2429048
Benzene	ND	0.0250	1	07/16/24	07/17/24	
Ethylbenzene	ND	0.0250	1	07/16/24	07/17/24	
Toluene	ND	0.0250	1	07/16/24	07/17/24	
o-Xylene	ND	0.0250	1	07/16/24	07/17/24	
p,m-Xylene	ND	0.0500	1	07/16/24	07/17/24	
Total Xylenes	ND	0.0250	1	07/16/24	07/17/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	90.0 %	70-130		07/16/24	07/17/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2429048
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/16/24	07/17/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	106 %	70-130		07/16/24	07/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2429037
Diesel Range Organics (C10-C28)	ND	25.0	1	07/17/24	07/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/17/24	07/17/24	
<i>Surrogate: n-Nonane</i>						
	114 %	50-200		07/17/24	07/17/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2429039
Chloride	ND	20.0	1	07/17/24	07/17/24	



Sample Data

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

Project Name: Thistle Unit 6
Project Number: 01058-0007
Project Manager: Gio Gomez

Reported:
7/17/2024 4:19:50PM

CSW20

E407124-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2429048	
Benzene	ND	0.0250	1	07/16/24	07/17/24	
Ethylbenzene	ND	0.0250	1	07/16/24	07/17/24	
Toluene	ND	0.0250	1	07/16/24	07/17/24	
o-Xylene	ND	0.0250	1	07/16/24	07/17/24	
p,m-Xylene	ND	0.0500	1	07/16/24	07/17/24	
Total Xylenes	ND	0.0250	1	07/16/24	07/17/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	89.5 %	70-130		07/16/24	07/17/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2429048	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/16/24	07/17/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	106 %	70-130		07/16/24	07/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2429037	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/17/24	07/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/17/24	07/17/24	
<i>Surrogate: n-Nonane</i>	115 %	50-200		07/17/24	07/17/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2429039	
Chloride	ND	20.0	1	07/17/24	07/17/24	



Sample Data

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

Project Name: Thistle Unit 6
Project Number: 01058-0007
Project Manager: Gio Gomez

Reported:
7/17/2024 4:19:50PM

CSW21

E407124-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2429048
Benzene	ND	0.0250	1	07/16/24	07/17/24	
Ethylbenzene	ND	0.0250	1	07/16/24	07/17/24	
Toluene	ND	0.0250	1	07/16/24	07/17/24	
o-Xylene	ND	0.0250	1	07/16/24	07/17/24	
p,m-Xylene	ND	0.0500	1	07/16/24	07/17/24	
Total Xylenes	ND	0.0250	1	07/16/24	07/17/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	89.3 %	70-130		07/16/24	07/17/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2429048
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/16/24	07/17/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	106 %	70-130		07/16/24	07/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2429037
Diesel Range Organics (C10-C28)	ND	25.0	1	07/17/24	07/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/17/24	07/17/24	
<i>Surrogate: n-Nonane</i>						
	112 %	50-200		07/17/24	07/17/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2429039
Chloride	ND	20.0	1	07/17/24	07/17/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Thistle Unit 6	Reported: 7/17/2024 4:19:50PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

CSW22

E407124-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2429048	
Benzene	ND	0.0250	1	07/16/24	07/17/24	
Ethylbenzene	ND	0.0250	1	07/16/24	07/17/24	
Toluene	ND	0.0250	1	07/16/24	07/17/24	
o-Xylene	ND	0.0250	1	07/16/24	07/17/24	
p,m-Xylene	ND	0.0500	1	07/16/24	07/17/24	
Total Xylenes	ND	0.0250	1	07/16/24	07/17/24	
Surrogate: 4-Bromochlorobenzene-PID	89.4 %	70-130		07/16/24	07/17/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2429048	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/16/24	07/17/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	106 %	70-130		07/16/24	07/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2429037	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/17/24	07/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/17/24	07/17/24	
Surrogate: n-Nonane	94.9 %	50-200		07/17/24	07/17/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2429039	
Chloride	ND	20.0	1	07/17/24	07/17/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Thistle Unit 6	Reported: 7/17/2024 4:19:50PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

CSW23

E407124-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2429048	
Benzene	ND	0.0250	1	07/16/24	07/17/24	
Ethylbenzene	ND	0.0250	1	07/16/24	07/17/24	
Toluene	ND	0.0250	1	07/16/24	07/17/24	
o-Xylene	ND	0.0250	1	07/16/24	07/17/24	
p,m-Xylene	ND	0.0500	1	07/16/24	07/17/24	
Total Xylenes	ND	0.0250	1	07/16/24	07/17/24	
Surrogate: 4-Bromochlorobenzene-PID	90.7 %	70-130		07/16/24	07/17/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2429048	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/16/24	07/17/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	107 %	70-130		07/16/24	07/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2429037	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/17/24	07/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/17/24	07/17/24	
Surrogate: n-Nonane	101 %	50-200		07/17/24	07/17/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2429039	
Chloride	ND	20.0	1	07/17/24	07/17/24	



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Thistle Unit 6	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	7/17/2024 4:19:50PM

Volatile Organics by EPA 8021B

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 (2429048-BLK1) Prepared: 07/16/24 Analyzed: 07/17/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.48		8.00		93.4	70-130			

LCS (2429048-BS1) Prepared: 07/16/24 Analyzed: 07/17/24

Benzene	5.32	0.0250	5.00		106	70-130			
Ethylbenzene	4.97	0.0250	5.00		99.4	70-130			
Toluene	5.24	0.0250	5.00		105	70-130			
o-Xylene	5.11	0.0250	5.00		102	70-130			
p,m-Xylene	10.2	0.0500	10.0		102	70-130			
Total Xylenes	15.3	0.0250	15.0		102	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.53		8.00		94.1	70-130			

LCS Dup (2429048-BSD1) Prepared: 07/16/24 Analyzed: 07/17/24

Benzene	5.25	0.0250	5.00		105	70-130	1.38	20	
Ethylbenzene	4.91	0.0250	5.00		98.3	70-130	1.18	20	
Toluene	5.18	0.0250	5.00		104	70-130	1.25	20	
o-Xylene	5.06	0.0250	5.00		101	70-130	1.08	20	
p,m-Xylene	10.1	0.0500	10.0		101	70-130	1.10	20	
Total Xylenes	15.1	0.0250	15.0		101	70-130	1.09	20	
Surrogate: 4-Bromochlorobenzene-PID	7.53		8.00		94.1	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Thistle Unit 6	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	7/17/2024 4:19:50PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2429048-BLK1) Prepared: 07/16/24 Analyzed: 07/17/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.49		8.00		106	70-130			

LCS (2429048-BS2) Prepared: 07/16/24 Analyzed: 07/17/24

Gasoline Range Organics (C6-C10)	50.8	20.0	50.0		102	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.64		8.00		108	70-130			

LCS Dup (2429048-BSD2) Prepared: 07/16/24 Analyzed: 07/17/24

Gasoline Range Organics (C6-C10)	51.6	20.0	50.0		103	70-130	1.48	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.64		8.00		108	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Thistle Unit 6	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	7/17/2024 4:19:50PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2429037-BLK1)					Prepared: 07/16/24 Analyzed: 07/17/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	56.2		50.0		112	50-200			

LCS (2429037-BS1)					Prepared: 07/16/24 Analyzed: 07/17/24				
Diesel Range Organics (C10-C28)	272	25.0	250		109	38-132			
Surrogate: n-Nonane	58.5		50.0		117	50-200			

LCS Dup (2429037-BSD1)					Prepared: 07/16/24 Analyzed: 07/17/24				
Diesel Range Organics (C10-C28)	279	25.0	250		112	38-132	2.75	20	
Surrogate: n-Nonane	60.0		50.0		120	50-200			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Thistle Unit 6	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	7/17/2024 4:19:50PM

Anions by EPA 300.0/9056A

Analyst: DT

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

Blank (2429039-BLK1)					Prepared: 07/16/24 Analyzed: 07/16/24				
Chloride	ND	20.0							
LCS (2429039-BS1)					Prepared: 07/16/24 Analyzed: 07/16/24				
Chloride	252	20.0	250		101	90-110			
LCS Dup (2429039-BSD1)					Prepared: 07/16/24 Analyzed: 07/16/24				
Chloride	251	20.0	250		100	90-110	0.685	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 6	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Gio Gomez	07/17/24 16:19

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

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

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



Project Information

Chain of Custody

Page 3 of 4

Client: Pima Environmental Services		Bill To		Lab Use Only		TAT				EPA Program			
Project: <u>Thistle Unit 6</u>		Attention: <u>Devon</u>		Lab WO# <u>E407124</u>		Job Number <u>01058-0007</u>		1D	2D	3D	Standard	CWA	SDWA
Project Manager: <u>Gio Gomez</u>		Address:		Address:				<input checked="" type="checkbox"/>					
Address: <u>5614 N. Lovington Hwy.</u>		City, State, Zip		City, State, Zip									RCRA
City, State, Zip <u>Hobbs, NM, 88240</u>		Phone:		Phone:									
Phone: <u>806-782-1151</u>		Email:		Email:									
Email: <u>gio@pimaoil.com</u>		Pima Project # <u>1-174</u>											
Report due by:													

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	Remarks
4:28	7/15	S	1	CSW9	1							X		
4:33				CSW10	2									
4:38				CSW11	3									
4:41				CSW12	4									
4:46				CSW13	5									
4:50				CSW14	6									
4:53				CSW15	7									
4:59				CSW16	8									
5:06				CSW17	9									
5:17				CSW18	10									

Additional Instructions:

Billing # 1007096201

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: 1

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>Karime Adame</u>	Date <u>7/16/24</u>	Time <u>1:25</u>	Received by: (Signature) <u>Michelle Gonzales</u>	Date <u>7-16-24</u>	Time <u>1325</u>	Lab Use Only Received on ice: <input checked="" type="checkbox"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
Relinquished by: (Signature) <u>Michelle Gonzales</u>	Date <u>7-16-24</u>	Time <u>1545</u>	Received by: (Signature) <u>A.M.</u>	Date <u>7-16-24</u>	Time <u>1645</u>	
Relinquished by: (Signature) <u>A.M.</u>	Date <u>7-16-24</u>	Time <u>2230</u>	Received by: (Signature) <u>Kayla A. Hall</u>	Date <u>7-17-24</u>	Time <u>0600</u>	

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

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

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


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Project Information

Chain of Custody

Page 44 of

Client: Pima Environmental Services		Bill To		Lab Use Only		TAT				EPA Program			
Project: <u>Thistle Unit 6</u>		Attention: <u>Devon</u>		Lab WO# <u>E407124</u>		Job Number <u>01058-0007</u>		1D	2D	3D	Standard	CWA	SDWA
Project Manager: <u>Gio Gomez</u>		Address:		Analysis and Method				<input checked="" type="checkbox"/>					
Address: <u>5614 N. Lovington Hwy.</u>		City, State, Zip											RCRA
City, State, Zip <u>Hobbs, NM, 88240</u>		Phone:											
Phone: <u>806-782-1151</u>		Email:											
Email: <u>gio@pimaoil.com</u>		Pima Project # <u>1-174</u>											
Report due by:													

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BDOC NM	BDOC TX	Remarks
5:20	7/15	S	1	CSW19	11							X		
5:26			1	CSW20	12									
5:31			1	CSW21	13									
5:39			1	CSW22	14									
5:43			1	CSW23	15									

Additional Instructions:

Billing # 1007096201

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

Sampled by:

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

Relinquished by: (Signature) <u>Carina Adams</u>	Date <u>7/16/24</u>	Time <u>1:25</u>	Received by: (Signature) <u>Michelle Gonzales</u>	Date <u>7-16-24</u>	Time <u>1325</u>	Lab Use Only Received on ice: <input checked="" type="checkbox"/> Y / N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
Relinquished by: (Signature) <u>Michelle Gonzales</u>	Date <u>7-16-24</u>	Time <u>1545</u>	Received by: (Signature) <u>J.M.</u>	Date <u>7.16.24</u>	Time <u>1645</u>	
Relinquished by: (Signature) <u>J.M.</u>	Date <u>7-16-24</u>	Time <u>2230</u>	Received by: (Signature) <u>Kyle R Heale</u>	Date <u>7-17-24</u>	Time <u>0600</u>	

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

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

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


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Envirotech Analytical Laboratory

Printed: 7/17/2024 12:37:58PM

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:	07/17/24 06:00	Work Order ID:	E407124
Phone:	(575) 631-6977	Date Logged In:	07/16/24 15:19	Logged In By:	Alexa Michaels
Email:	gio@pimaoil.com	Due Date:	07/17/24 17:00 (0 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
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: CouierComments/Resolution

Thistle Unit 6 has been separated into multiple WO due to high sample volume. WO are E407123 and E407124.

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:
Gio Gomez



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Pima Environmental Services-Carlsbad

Project Name: Thistle Unit 6 Well Pad

Work Order: E409181

Job Number: 01058-0007

Received: 9/20/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
9/30/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 9/30/24

Gio Gomez
PO Box 247
Plains, TX 79355-0247



Project Name: Thistle Unit 6 Well Pad
Workorder: E409181
Date Received: 9/20/2024 7:45:00AM

Gio Gomez,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/20/2024 7:45:00AM, under the Project Name: Thistle Unit 6 Well Pad.

The analytical test results summarized in this report with the Project Name: Thistle Unit 6 Well Pad apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

Raina Schwanz
Laboratory Administrator
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Sample Summary

Pima Environmental Services-Carlsbad	Project Name:	Thistle Unit 6 Well Pad	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	09/30/24 09:50

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
S1 - 1'	E409181-01A	Soil	09/18/24	09/20/24	Glass Jar, 2 oz.
S1 - 2'	E409181-02A	Soil	09/18/24	09/20/24	Glass Jar, 2 oz.
S1 - 3'	E409181-03A	Soil	09/18/24	09/20/24	Glass Jar, 2 oz.
S1 - 4'	E409181-04A	Soil	09/18/24	09/20/24	Glass Jar, 2 oz.
S2 - 1'	E409181-05A	Soil	09/18/24	09/20/24	Glass Jar, 2 oz.
S2 - 2'	E409181-06A	Soil	09/18/24	09/20/24	Glass Jar, 2 oz.
S2 - 3'	E409181-07A	Soil	09/18/24	09/20/24	Glass Jar, 2 oz.
S2 - 4'	E409181-08A	Soil	09/18/24	09/20/24	Glass Jar, 2 oz.
S3 - 1'	E409181-09A	Soil	09/18/24	09/20/24	Glass Jar, 2 oz.
S3 - 2'	E409181-10A	Soil	09/18/24	09/20/24	Glass Jar, 2 oz.
S3 - 3'	E409181-11A	Soil	09/18/24	09/20/24	Glass Jar, 2 oz.
S3 - 4'	E409181-12A	Soil	09/18/24	09/20/24	Glass Jar, 2 oz.
S4 - 1'	E409181-13A	Soil	09/18/24	09/20/24	Glass Jar, 2 oz.
S4 - 2'	E409181-14A	Soil	09/18/24	09/20/24	Glass Jar, 2 oz.
S4 - 3'	E409181-15A	Soil	09/18/24	09/20/24	Glass Jar, 2 oz.
S4 - 4'	E409181-16A	Soil	09/18/24	09/20/24	Glass Jar, 2 oz.
S5 - 1'	E409181-17A	Soil	09/18/24	09/20/24	Glass Jar, 2 oz.
S5 - 2'	E409181-18A	Soil	09/18/24	09/20/24	Glass Jar, 2 oz.
S5 - 3'	E409181-19A	Soil	09/18/24	09/20/24	Glass Jar, 2 oz.
S5 - 4'	E409181-20A	Soil	09/18/24	09/20/24	Glass Jar, 2 oz.



Sample Data

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

Project Name: Thistle Unit 6 Well Pad
Project Number: 01058-0007
Project Manager: Gio Gomez

Reported:
9/30/2024 9:50:01AM

S1 - 1'

E409181-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2438150
Benzene	ND	0.0250	1	09/20/24	09/27/24	
Ethylbenzene	0.0460	0.0250	1	09/20/24	09/27/24	
Toluene	ND	0.0250	1	09/20/24	09/27/24	
o-Xylene	0.196	0.0250	1	09/20/24	09/27/24	
p,m-Xylene	0.211	0.0500	1	09/20/24	09/27/24	
Total Xylenes	0.407	0.0250	1	09/20/24	09/27/24	
Surrogate: Bromofluorobenzene	96.6 %	70-130		09/20/24	09/27/24	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		09/20/24	09/27/24	
Surrogate: Toluene-d8	103 %	70-130		09/20/24	09/27/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2438150
Gasoline Range Organics (C6-C10)	25.2	20.0	1	09/20/24	09/27/24	
Surrogate: Bromofluorobenzene	96.6 %	70-130		09/20/24	09/27/24	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		09/20/24	09/27/24	
Surrogate: Toluene-d8	103 %	70-130		09/20/24	09/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AF		Batch: 2438143
Diesel Range Organics (C10-C28)	8250	500	20	09/20/24	09/25/24	
Oil Range Organics (C28-C36)	1440	1000	20	09/20/24	09/25/24	
Surrogate: n-Nonane	131 %	50-200		09/20/24	09/25/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2438155
Chloride	3590	40.0	2	09/20/24	09/21/24	



Sample Data

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

Project Name: Thistle Unit 6 Well Pad
Project Number: 01058-0007
Project Manager: Gio Gomez

Reported:
9/30/2024 9:50:01AM

S1 - 2'

E409181-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2438150
Benzene	ND	0.0250	1	09/20/24	09/27/24	
Ethylbenzene	ND	0.0250	1	09/20/24	09/27/24	
Toluene	ND	0.0250	1	09/20/24	09/27/24	
o-Xylene	ND	0.0250	1	09/20/24	09/27/24	
p,m-Xylene	ND	0.0500	1	09/20/24	09/27/24	
Total Xylenes	ND	0.0250	1	09/20/24	09/27/24	
Surrogate: Bromofluorobenzene	83.0 %	70-130		09/20/24	09/27/24	
Surrogate: 1,2-Dichloroethane-d4	104 %	70-130		09/20/24	09/27/24	
Surrogate: Toluene-d8	99.7 %	70-130		09/20/24	09/27/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2438150
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/20/24	09/27/24	
Surrogate: Bromofluorobenzene	83.0 %	70-130		09/20/24	09/27/24	
Surrogate: 1,2-Dichloroethane-d4	104 %	70-130		09/20/24	09/27/24	
Surrogate: Toluene-d8	99.7 %	70-130		09/20/24	09/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AF		Batch: 2438143
Diesel Range Organics (C10-C28)	683	25.0	1	09/20/24	09/25/24	
Oil Range Organics (C28-C36)	268	50.0	1	09/20/24	09/25/24	
Surrogate: n-Nonane	112 %	50-200		09/20/24	09/25/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2438155
Chloride	29.8	20.0	1	09/20/24	09/21/24	



Sample Data

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

Project Name: Thistle Unit 6 Well Pad
Project Number: 01058-0007
Project Manager: Gio Gomez

Reported:
9/30/2024 9:50:01AM

S1 - 3'

E409181-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2438150
Benzene	ND	0.0250	1	09/20/24	09/27/24	
Ethylbenzene	ND	0.0250	1	09/20/24	09/27/24	
Toluene	ND	0.0250	1	09/20/24	09/27/24	
o-Xylene	ND	0.0250	1	09/20/24	09/27/24	
p,m-Xylene	ND	0.0500	1	09/20/24	09/27/24	
Total Xylenes	ND	0.0250	1	09/20/24	09/27/24	
Surrogate: Bromofluorobenzene	96.8 %	70-130		09/20/24	09/27/24	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		09/20/24	09/27/24	
Surrogate: Toluene-d8	103 %	70-130		09/20/24	09/27/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2438150
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/20/24	09/27/24	
Surrogate: Bromofluorobenzene	96.8 %	70-130		09/20/24	09/27/24	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		09/20/24	09/27/24	
Surrogate: Toluene-d8	103 %	70-130		09/20/24	09/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AF		Batch: 2438143
Diesel Range Organics (C10-C28)	207	25.0	1	09/20/24	09/25/24	
Oil Range Organics (C28-C36)	69.7	50.0	1	09/20/24	09/25/24	
Surrogate: n-Nonane	116 %	50-200		09/20/24	09/25/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2438155
Chloride	ND	20.0	1	09/20/24	09/21/24	



Sample Data

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

Project Name: Thistle Unit 6 Well Pad
Project Number: 01058-0007
Project Manager: Gio Gomez

Reported:
9/30/2024 9:50:01AM

S1 - 4'

E409181-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2438150
Benzene	ND	0.0250	1	09/20/24	09/27/24	
Ethylbenzene	ND	0.0250	1	09/20/24	09/27/24	
Toluene	ND	0.0250	1	09/20/24	09/27/24	
o-Xylene	ND	0.0250	1	09/20/24	09/27/24	
p,m-Xylene	ND	0.0500	1	09/20/24	09/27/24	
Total Xylenes	ND	0.0250	1	09/20/24	09/27/24	
Surrogate: Bromofluorobenzene	97.6 %	70-130		09/20/24	09/27/24	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		09/20/24	09/27/24	
Surrogate: Toluene-d8	99.7 %	70-130		09/20/24	09/27/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2438150
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/20/24	09/27/24	
Surrogate: Bromofluorobenzene	97.6 %	70-130		09/20/24	09/27/24	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		09/20/24	09/27/24	
Surrogate: Toluene-d8	99.7 %	70-130		09/20/24	09/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AF		Batch: 2438143
Diesel Range Organics (C10-C28)	64.1	25.0	1	09/20/24	09/25/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/20/24	09/25/24	
Surrogate: n-Nonane	113 %	50-200		09/20/24	09/25/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2438155
Chloride	ND	20.0	1	09/20/24	09/21/24	



Sample Data

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

Project Name: Thistle Unit 6 Well Pad
Project Number: 01058-0007
Project Manager: Gio Gomez

Reported:
9/30/2024 9:50:01AM

S2 - 1'

E409181-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2438150
Benzene	ND	0.0250	1	09/20/24	09/27/24	
Ethylbenzene	0.106	0.0250	1	09/20/24	09/27/24	
Toluene	ND	0.0250	1	09/20/24	09/27/24	
o-Xylene	0.411	0.0250	1	09/20/24	09/27/24	
p,m-Xylene	0.626	0.0500	1	09/20/24	09/27/24	
Total Xylenes	1.04	0.0250	1	09/20/24	09/27/24	
Surrogate: Bromofluorobenzene	97.3 %	70-130		09/20/24	09/27/24	
Surrogate: 1,2-Dichloroethane-d4	97.0 %	70-130		09/20/24	09/27/24	
Surrogate: Toluene-d8	102 %	70-130		09/20/24	09/27/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2438150
Gasoline Range Organics (C6-C10)	47.0	20.0	1	09/20/24	09/27/24	
Surrogate: Bromofluorobenzene	97.3 %	70-130		09/20/24	09/27/24	
Surrogate: 1,2-Dichloroethane-d4	97.0 %	70-130		09/20/24	09/27/24	
Surrogate: Toluene-d8	102 %	70-130		09/20/24	09/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AF		Batch: 2438143
Diesel Range Organics (C10-C28)	11000	500	20	09/20/24	09/25/24	
Oil Range Organics (C28-C36)	2450	1000	20	09/20/24	09/25/24	
Surrogate: n-Nonane	136 %	50-200		09/20/24	09/25/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2438155
Chloride	3650	40.0	2	09/20/24	09/21/24	



Sample Data

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

Project Name: Thistle Unit 6 Well Pad
Project Number: 01058-0007
Project Manager: Gio Gomez

Reported:
9/30/2024 9:50:01AM

S2 - 2'

E409181-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2438150
Benzene	ND	0.0250	1	09/20/24	09/27/24	
Ethylbenzene	ND	0.0250	1	09/20/24	09/27/24	
Toluene	ND	0.0250	1	09/20/24	09/27/24	
o-Xylene	ND	0.0250	1	09/20/24	09/27/24	
p,m-Xylene	ND	0.0500	1	09/20/24	09/27/24	
Total Xylenes	ND	0.0250	1	09/20/24	09/27/24	
Surrogate: Bromofluorobenzene	75.6 %	70-130		09/20/24	09/27/24	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		09/20/24	09/27/24	
Surrogate: Toluene-d8	100 %	70-130		09/20/24	09/27/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2438150
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/20/24	09/27/24	
Surrogate: Bromofluorobenzene	75.6 %	70-130		09/20/24	09/27/24	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		09/20/24	09/27/24	
Surrogate: Toluene-d8	100 %	70-130		09/20/24	09/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AF		Batch: 2438143
Diesel Range Organics (C10-C28)	832	25.0	1	09/20/24	09/25/24	
Oil Range Organics (C28-C36)	299	50.0	1	09/20/24	09/25/24	
Surrogate: n-Nonane	112 %	50-200		09/20/24	09/25/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2438155
Chloride	29.1	20.0	1	09/20/24	09/21/24	



Sample Data

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

Project Name: Thistle Unit 6 Well Pad
Project Number: 01058-0007
Project Manager: Gio Gomez

Reported:
9/30/2024 9:50:01AM

S2 - 3'

E409181-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2438150
Benzene	ND	0.0250	1	09/20/24	09/27/24	
Ethylbenzene	ND	0.0250	1	09/20/24	09/27/24	
Toluene	ND	0.0250	1	09/20/24	09/27/24	
o-Xylene	ND	0.0250	1	09/20/24	09/27/24	
p,m-Xylene	ND	0.0500	1	09/20/24	09/27/24	
Total Xylenes	ND	0.0250	1	09/20/24	09/27/24	
Surrogate: Bromofluorobenzene	97.8 %	70-130		09/20/24	09/27/24	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		09/20/24	09/27/24	
Surrogate: Toluene-d8	102 %	70-130		09/20/24	09/27/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2438150
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/20/24	09/27/24	
Surrogate: Bromofluorobenzene	97.8 %	70-130		09/20/24	09/27/24	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		09/20/24	09/27/24	
Surrogate: Toluene-d8	102 %	70-130		09/20/24	09/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AF		Batch: 2438143
Diesel Range Organics (C10-C28)	167	25.0	1	09/20/24	09/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/20/24	09/27/24	
Surrogate: n-Nonane	97.3 %	50-200		09/20/24	09/27/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2438155
Chloride	ND	20.0	1	09/20/24	09/21/24	



Sample Data

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

Project Name: Thistle Unit 6 Well Pad
Project Number: 01058-0007
Project Manager: Gio Gomez

Reported:
9/30/2024 9:50:01AM

S2 - 4'

E409181-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2438150
Benzene	ND	0.0250	1	09/20/24	09/27/24	
Ethylbenzene	ND	0.0250	1	09/20/24	09/27/24	
Toluene	ND	0.0250	1	09/20/24	09/27/24	
o-Xylene	ND	0.0250	1	09/20/24	09/27/24	
p,m-Xylene	ND	0.0500	1	09/20/24	09/27/24	
Total Xylenes	ND	0.0250	1	09/20/24	09/27/24	
Surrogate: Bromofluorobenzene	96.1 %	70-130		09/20/24	09/27/24	
Surrogate: 1,2-Dichloroethane-d4	98.3 %	70-130		09/20/24	09/27/24	
Surrogate: Toluene-d8	100 %	70-130		09/20/24	09/27/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2438150
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/20/24	09/27/24	
Surrogate: Bromofluorobenzene	96.1 %	70-130		09/20/24	09/27/24	
Surrogate: 1,2-Dichloroethane-d4	98.3 %	70-130		09/20/24	09/27/24	
Surrogate: Toluene-d8	100 %	70-130		09/20/24	09/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AF		Batch: 2438143
Diesel Range Organics (C10-C28)	85.4	25.0	1	09/20/24	09/25/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/20/24	09/25/24	
Surrogate: n-Nonane	117 %	50-200		09/20/24	09/25/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2438155
Chloride	ND	20.0	1	09/20/24	09/21/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Thistle Unit 6 Well Pad	Reported: 9/30/2024 9:50:01AM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

S3 - 1'

E409181-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2438150	
Benzene	ND	0.0250	1	09/20/24	09/27/24	
Ethylbenzene	0.215	0.0250	1	09/20/24	09/27/24	
Toluene	ND	0.0250	1	09/20/24	09/27/24	
o-Xylene	0.551	0.0250	1	09/20/24	09/27/24	
p,m-Xylene	0.875	0.0500	1	09/20/24	09/27/24	
Total Xylenes	1.43	0.0250	1	09/20/24	09/27/24	
Surrogate: Bromofluorobenzene	97.0 %	70-130		09/20/24	09/27/24	
Surrogate: 1,2-Dichloroethane-d4	98.3 %	70-130		09/20/24	09/27/24	
Surrogate: Toluene-d8	102 %	70-130		09/20/24	09/27/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2438150	
Gasoline Range Organics (C6-C10)	72.3	20.0	1	09/20/24	09/27/24	
Surrogate: Bromofluorobenzene	97.0 %	70-130		09/20/24	09/27/24	
Surrogate: 1,2-Dichloroethane-d4	98.3 %	70-130		09/20/24	09/27/24	
Surrogate: Toluene-d8	102 %	70-130		09/20/24	09/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: AF		Batch: 2438143	
Diesel Range Organics (C10-C28)	17400	250	10	09/20/24	09/25/24	
Oil Range Organics (C28-C36)	5510	500	10	09/20/24	09/25/24	
Surrogate: n-Nonane	162 %	50-200		09/20/24	09/25/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2438155	
Chloride	26.0	20.0	1	09/20/24	09/21/24	



Sample Data

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

Project Name: Thistle Unit 6 Well Pad
Project Number: 01058-0007
Project Manager: Gio Gomez

Reported:
9/30/2024 9:50:01AM

S3 - 2'

E409181-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2438150
Benzene	ND	0.0250	1	09/20/24	09/28/24	
Ethylbenzene	ND	0.0250	1	09/20/24	09/28/24	
Toluene	ND	0.0250	1	09/20/24	09/28/24	
o-Xylene	ND	0.0250	1	09/20/24	09/28/24	
p,m-Xylene	ND	0.0500	1	09/20/24	09/28/24	
Total Xylenes	ND	0.0250	1	09/20/24	09/28/24	
Surrogate: Bromofluorobenzene	72.2 %	70-130		09/20/24	09/28/24	
Surrogate: 1,2-Dichloroethane-d4	95.6 %	70-130		09/20/24	09/28/24	
Surrogate: Toluene-d8	101 %	70-130		09/20/24	09/28/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2438150
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/20/24	09/28/24	
Surrogate: Bromofluorobenzene	72.2 %	70-130		09/20/24	09/28/24	
Surrogate: 1,2-Dichloroethane-d4	95.6 %	70-130		09/20/24	09/28/24	
Surrogate: Toluene-d8	101 %	70-130		09/20/24	09/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AF		Batch: 2438143
Diesel Range Organics (C10-C28)	695	25.0	1	09/20/24	09/25/24	
Oil Range Organics (C28-C36)	271	50.0	1	09/20/24	09/25/24	
Surrogate: n-Nonane	108 %	50-200		09/20/24	09/25/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2438155
Chloride	30.9	20.0	1	09/20/24	09/21/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Thistle Unit 6 Well Pad	Reported: 9/30/2024 9:50:01AM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

S3 - 3'

E409181-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2438150	
Benzene	ND	0.0250	1	09/20/24	09/28/24	
Ethylbenzene	ND	0.0250	1	09/20/24	09/28/24	
Toluene	ND	0.0250	1	09/20/24	09/28/24	
o-Xylene	ND	0.0250	1	09/20/24	09/28/24	
p,m-Xylene	ND	0.0500	1	09/20/24	09/28/24	
Total Xylenes	ND	0.0250	1	09/20/24	09/28/24	
Surrogate: Bromofluorobenzene	92.5 %	70-130		09/20/24	09/28/24	
Surrogate: 1,2-Dichloroethane-d4	98.5 %	70-130		09/20/24	09/28/24	
Surrogate: Toluene-d8	102 %	70-130		09/20/24	09/28/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2438150	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/20/24	09/28/24	
Surrogate: Bromofluorobenzene	92.5 %	70-130		09/20/24	09/28/24	
Surrogate: 1,2-Dichloroethane-d4	98.5 %	70-130		09/20/24	09/28/24	
Surrogate: Toluene-d8	102 %	70-130		09/20/24	09/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: AF		Batch: 2438143	
Diesel Range Organics (C10-C28)	197	25.0	1	09/20/24	09/25/24	
Oil Range Organics (C28-C36)	71.3	50.0	1	09/20/24	09/25/24	
Surrogate: n-Nonane	112 %	50-200		09/20/24	09/25/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2438155	
Chloride	ND	20.0	1	09/20/24	09/21/24	



Sample Data

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

Project Name: Thistle Unit 6 Well Pad
Project Number: 01058-0007
Project Manager: Gio Gomez

Reported:
9/30/2024 9:50:01AM

S3 - 4'

E409181-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2438150
Benzene	ND	0.0250	1	09/20/24	09/28/24	
Ethylbenzene	ND	0.0250	1	09/20/24	09/28/24	
Toluene	ND	0.0250	1	09/20/24	09/28/24	
o-Xylene	ND	0.0250	1	09/20/24	09/28/24	
p,m-Xylene	ND	0.0500	1	09/20/24	09/28/24	
Total Xylenes	ND	0.0250	1	09/20/24	09/28/24	
Surrogate: Bromofluorobenzene	96.3 %	70-130		09/20/24	09/28/24	
Surrogate: 1,2-Dichloroethane-d4	99.4 %	70-130		09/20/24	09/28/24	
Surrogate: Toluene-d8	101 %	70-130		09/20/24	09/28/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2438150
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/20/24	09/28/24	
Surrogate: Bromofluorobenzene	96.3 %	70-130		09/20/24	09/28/24	
Surrogate: 1,2-Dichloroethane-d4	99.4 %	70-130		09/20/24	09/28/24	
Surrogate: Toluene-d8	101 %	70-130		09/20/24	09/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AF		Batch: 2438143
Diesel Range Organics (C10-C28)	56.8	25.0	1	09/20/24	09/25/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/20/24	09/25/24	
Surrogate: n-Nonane	111 %	50-200		09/20/24	09/25/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2438155
Chloride	ND	20.0	1	09/20/24	09/21/24	



Sample Data

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

Project Name: Thistle Unit 6 Well Pad
Project Number: 01058-0007
Project Manager: Gio Gomez

Reported:
9/30/2024 9:50:01AM

S4 - 1'

E409181-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2438150
Benzene	ND	0.0250	1	09/20/24	09/28/24	
Ethylbenzene	0.135	0.0250	1	09/20/24	09/28/24	
Toluene	ND	0.0250	1	09/20/24	09/28/24	
o-Xylene	0.354	0.0250	1	09/20/24	09/28/24	
p,m-Xylene	0.551	0.0500	1	09/20/24	09/28/24	
Total Xylenes	0.904	0.0250	1	09/20/24	09/28/24	
Surrogate: Bromofluorobenzene	96.6 %	70-130		09/20/24	09/28/24	
Surrogate: 1,2-Dichloroethane-d4	99.2 %	70-130		09/20/24	09/28/24	
Surrogate: Toluene-d8	104 %	70-130		09/20/24	09/28/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2438150
Gasoline Range Organics (C6-C10)	51.4	20.0	1	09/20/24	09/28/24	
Surrogate: Bromofluorobenzene	96.6 %	70-130		09/20/24	09/28/24	
Surrogate: 1,2-Dichloroethane-d4	99.2 %	70-130		09/20/24	09/28/24	
Surrogate: Toluene-d8	104 %	70-130		09/20/24	09/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AF		Batch: 2438143
Diesel Range Organics (C10-C28)	9090	250	10	09/20/24	09/25/24	
Oil Range Organics (C28-C36)	2610	500	10	09/20/24	09/25/24	
Surrogate: n-Nonane	130 %	50-200		09/20/24	09/25/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2438155
Chloride	197	20.0	1	09/20/24	09/21/24	



Sample Data

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

Project Name: Thistle Unit 6 Well Pad
Project Number: 01058-0007
Project Manager: Gio Gomez

Reported:
9/30/2024 9:50:01AM

S4 - 2'

E409181-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2438150
Benzene	ND	0.0250	1	09/20/24	09/28/24	
Ethylbenzene	ND	0.0250	1	09/20/24	09/28/24	
Toluene	ND	0.0250	1	09/20/24	09/28/24	
o-Xylene	ND	0.0250	1	09/20/24	09/28/24	
p,m-Xylene	ND	0.0500	1	09/20/24	09/28/24	
Total Xylenes	ND	0.0250	1	09/20/24	09/28/24	
Surrogate: Bromofluorobenzene	75.8 %	70-130		09/20/24	09/28/24	
Surrogate: 1,2-Dichloroethane-d4	97.1 %	70-130		09/20/24	09/28/24	
Surrogate: Toluene-d8	103 %	70-130		09/20/24	09/28/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2438150
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/20/24	09/28/24	
Surrogate: Bromofluorobenzene	75.8 %	70-130		09/20/24	09/28/24	
Surrogate: 1,2-Dichloroethane-d4	97.1 %	70-130		09/20/24	09/28/24	
Surrogate: Toluene-d8	103 %	70-130		09/20/24	09/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AF		Batch: 2438143
Diesel Range Organics (C10-C28)	793	25.0	1	09/20/24	09/25/24	
Oil Range Organics (C28-C36)	307	50.0	1	09/20/24	09/25/24	
Surrogate: n-Nonane	113 %	50-200		09/20/24	09/25/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2438155
Chloride	30.3	20.0	1	09/20/24	09/21/24	



Sample Data

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

Project Name: Thistle Unit 6 Well Pad
Project Number: 01058-0007
Project Manager: Gio Gomez

Reported:
9/30/2024 9:50:01AM

S4 - 3'

E409181-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2438150
Benzene	ND	0.0250	1	09/20/24	09/28/24	
Ethylbenzene	ND	0.0250	1	09/20/24	09/28/24	
Toluene	ND	0.0250	1	09/20/24	09/28/24	
o-Xylene	ND	0.0250	1	09/20/24	09/28/24	
p,m-Xylene	ND	0.0500	1	09/20/24	09/28/24	
Total Xylenes	ND	0.0250	1	09/20/24	09/28/24	
Surrogate: Bromofluorobenzene	97.6 %	70-130		09/20/24	09/28/24	
Surrogate: 1,2-Dichloroethane-d4	97.5 %	70-130		09/20/24	09/28/24	
Surrogate: Toluene-d8	102 %	70-130		09/20/24	09/28/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2438150
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/20/24	09/28/24	
Surrogate: Bromofluorobenzene	97.6 %	70-130		09/20/24	09/28/24	
Surrogate: 1,2-Dichloroethane-d4	97.5 %	70-130		09/20/24	09/28/24	
Surrogate: Toluene-d8	102 %	70-130		09/20/24	09/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AF		Batch: 2438143
Diesel Range Organics (C10-C28)	197	25.0	1	09/20/24	09/25/24	
Oil Range Organics (C28-C36)	71.6	50.0	1	09/20/24	09/25/24	
Surrogate: n-Nonane	114 %	50-200		09/20/24	09/25/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2438155
Chloride	ND	20.0	1	09/20/24	09/21/24	



Sample Data

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

Project Name: Thistle Unit 6 Well Pad
Project Number: 01058-0007
Project Manager: Gio Gomez

Reported:
9/30/2024 9:50:01AM

S4 - 4'

E409181-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2438150
Benzene	ND	0.0250	1	09/20/24	09/28/24	
Ethylbenzene	ND	0.0250	1	09/20/24	09/28/24	
Toluene	ND	0.0250	1	09/20/24	09/28/24	
o-Xylene	ND	0.0250	1	09/20/24	09/28/24	
p,m-Xylene	ND	0.0500	1	09/20/24	09/28/24	
Total Xylenes	ND	0.0250	1	09/20/24	09/28/24	
Surrogate: Bromofluorobenzene		101 %	70-130	09/20/24	09/28/24	
Surrogate: 1,2-Dichloroethane-d4		99.8 %	70-130	09/20/24	09/28/24	
Surrogate: Toluene-d8		101 %	70-130	09/20/24	09/28/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2438150
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/20/24	09/28/24	
Surrogate: Bromofluorobenzene		101 %	70-130	09/20/24	09/28/24	
Surrogate: 1,2-Dichloroethane-d4		99.8 %	70-130	09/20/24	09/28/24	
Surrogate: Toluene-d8		101 %	70-130	09/20/24	09/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AF		Batch: 2438143
Diesel Range Organics (C10-C28)	76.6	25.0	1	09/20/24	09/25/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/20/24	09/25/24	
Surrogate: n-Nonane		118 %	50-200	09/20/24	09/25/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2438155
Chloride	ND	20.0	1	09/20/24	09/21/24	



Sample Data

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

Project Name: Thistle Unit 6 Well Pad
Project Number: 01058-0007
Project Manager: Gio Gomez

Reported:
9/30/2024 9:50:01AM

S5 - 1'

E409181-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2438150
Benzene	ND	0.0250	1	09/20/24	09/28/24	
Ethylbenzene	0.0995	0.0250	1	09/20/24	09/28/24	
Toluene	0.0355	0.0250	1	09/20/24	09/28/24	
o-Xylene	0.882	0.0250	1	09/20/24	09/28/24	
p,m-Xylene	1.69	0.0500	1	09/20/24	09/28/24	
Total Xylenes	2.57	0.0250	1	09/20/24	09/28/24	
Surrogate: Bromofluorobenzene	92.5 %	70-130		09/20/24	09/28/24	
Surrogate: 1,2-Dichloroethane-d4	103 %	70-130		09/20/24	09/28/24	
Surrogate: Toluene-d8	103 %	70-130		09/20/24	09/28/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2438150
Gasoline Range Organics (C6-C10)	50.8	20.0	1	09/20/24	09/28/24	
Surrogate: Bromofluorobenzene	92.5 %	70-130		09/20/24	09/28/24	
Surrogate: 1,2-Dichloroethane-d4	103 %	70-130		09/20/24	09/28/24	
Surrogate: Toluene-d8	103 %	70-130		09/20/24	09/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AF		Batch: 2438143
Diesel Range Organics (C10-C28)	11400	500	20	09/20/24	09/25/24	
Oil Range Organics (C28-C36)	3270	1000	20	09/20/24	09/25/24	
Surrogate: n-Nonane	135 %	50-200		09/20/24	09/25/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2438155
Chloride	3030	40.0	2	09/20/24	09/21/24	



Sample Data

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

Project Name: Thistle Unit 6 Well Pad
Project Number: 01058-0007
Project Manager: Gio Gomez

Reported:
9/30/2024 9:50:01AM

S5 - 2'

E409181-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2438150
Benzene	ND	0.0250	1	09/20/24	09/28/24	
Ethylbenzene	ND	0.0250	1	09/20/24	09/28/24	
Toluene	ND	0.0250	1	09/20/24	09/28/24	
o-Xylene	ND	0.0250	1	09/20/24	09/28/24	
p,m-Xylene	ND	0.0500	1	09/20/24	09/28/24	
Total Xylenes	ND	0.0250	1	09/20/24	09/28/24	
Surrogate: Bromofluorobenzene	80.9 %	70-130		09/20/24	09/28/24	
Surrogate: 1,2-Dichloroethane-d4	104 %	70-130		09/20/24	09/28/24	
Surrogate: Toluene-d8	102 %	70-130		09/20/24	09/28/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2438150
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/20/24	09/28/24	
Surrogate: Bromofluorobenzene	80.9 %	70-130		09/20/24	09/28/24	
Surrogate: 1,2-Dichloroethane-d4	104 %	70-130		09/20/24	09/28/24	
Surrogate: Toluene-d8	102 %	70-130		09/20/24	09/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AF		Batch: 2438143
Diesel Range Organics (C10-C28)	902	25.0	1	09/20/24	09/25/24	
Oil Range Organics (C28-C36)	368	50.0	1	09/20/24	09/25/24	
Surrogate: n-Nonane	115 %	50-200		09/20/24	09/25/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2438155
Chloride	32.4	20.0	1	09/20/24	09/21/24	



Sample Data

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

Project Name: Thistle Unit 6 Well Pad
Project Number: 01058-0007
Project Manager: Gio Gomez

Reported:
9/30/2024 9:50:01AM

S5 - 3'

E409181-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2438150
Benzene	ND	0.0250	1	09/20/24	09/28/24	
Ethylbenzene	ND	0.0250	1	09/20/24	09/28/24	
Toluene	ND	0.0250	1	09/20/24	09/28/24	
o-Xylene	ND	0.0250	1	09/20/24	09/28/24	
p,m-Xylene	ND	0.0500	1	09/20/24	09/28/24	
Total Xylenes	ND	0.0250	1	09/20/24	09/28/24	
Surrogate: Bromofluorobenzene	96.5 %	70-130		09/20/24	09/28/24	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		09/20/24	09/28/24	
Surrogate: Toluene-d8	101 %	70-130		09/20/24	09/28/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2438150
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/20/24	09/28/24	
Surrogate: Bromofluorobenzene	96.5 %	70-130		09/20/24	09/28/24	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		09/20/24	09/28/24	
Surrogate: Toluene-d8	101 %	70-130		09/20/24	09/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AF		Batch: 2438143
Diesel Range Organics (C10-C28)	213	25.0	1	09/20/24	09/25/24	
Oil Range Organics (C28-C36)	79.6	50.0	1	09/20/24	09/25/24	
Surrogate: n-Nonane	120 %	50-200		09/20/24	09/25/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2438155
Chloride	ND	20.0	1	09/20/24	09/23/24	



Sample Data

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

Project Name: Thistle Unit 6 Well Pad
Project Number: 01058-0007
Project Manager: Gio Gomez

Reported:
9/30/2024 9:50:01AM

S5 - 4'

E409181-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2438150
Benzene	ND	0.0250	1	09/20/24	09/28/24	
Ethylbenzene	ND	0.0250	1	09/20/24	09/28/24	
Toluene	ND	0.0250	1	09/20/24	09/28/24	
o-Xylene	ND	0.0250	1	09/20/24	09/28/24	
p,m-Xylene	ND	0.0500	1	09/20/24	09/28/24	
Total Xylenes	ND	0.0250	1	09/20/24	09/28/24	
Surrogate: Bromofluorobenzene	95.7 %	70-130		09/20/24	09/28/24	
Surrogate: 1,2-Dichloroethane-d4	97.7 %	70-130		09/20/24	09/28/24	
Surrogate: Toluene-d8	103 %	70-130		09/20/24	09/28/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2438150
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/20/24	09/28/24	
Surrogate: Bromofluorobenzene	95.7 %	70-130		09/20/24	09/28/24	
Surrogate: 1,2-Dichloroethane-d4	97.7 %	70-130		09/20/24	09/28/24	
Surrogate: Toluene-d8	103 %	70-130		09/20/24	09/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AF		Batch: 2438143
Diesel Range Organics (C10-C28)	65.3	25.0	1	09/20/24	09/25/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/20/24	09/25/24	
Surrogate: n-Nonane	133 %	50-200		09/20/24	09/25/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2438155
Chloride	ND	20.0	1	09/20/24	09/23/24	



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Thistle Unit 6 Well Pad	Reported: 9/30/2024 9:50:01AM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

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 (2438150-BLK1) Prepared: 09/20/24 Analyzed: 09/27/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.476		0.500		95.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.512		0.500		102	70-130			
Surrogate: Toluene-d8	0.509		0.500		102	70-130			

LCS (2438150-BS1) Prepared: 09/20/24 Analyzed: 09/27/24

Benzene	2.15	0.0250	2.50		86.2	70-130			
Ethylbenzene	2.23	0.0250	2.50		89.2	70-130			
Toluene	2.20	0.0250	2.50		88.0	70-130			
o-Xylene	2.21	0.0250	2.50		88.4	70-130			
p,m-Xylene	4.47	0.0500	5.00		89.3	70-130			
Total Xylenes	6.68	0.0250	7.50		89.0	70-130			
Surrogate: Bromofluorobenzene	0.468		0.500		93.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.495		0.500		99.0	70-130			
Surrogate: Toluene-d8	0.505		0.500		101	70-130			

LCS Dup (2438150-BSD1) Prepared: 09/20/24 Analyzed: 09/27/24

Benzene	2.21	0.0250	2.50		88.2	70-130	2.36	23	
Ethylbenzene	2.29	0.0250	2.50		91.6	70-130	2.70	27	
Toluene	2.24	0.0250	2.50		89.5	70-130	1.67	24	
o-Xylene	2.30	0.0250	2.50		92.2	70-130	4.19	27	
p,m-Xylene	4.57	0.0500	5.00		91.4	70-130	2.35	27	
Total Xylenes	6.88	0.0250	7.50		91.7	70-130	2.96	27	
Surrogate: Bromofluorobenzene	0.484		0.500		96.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.484		0.500		96.7	70-130			
Surrogate: Toluene-d8	0.506		0.500		101	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Thistle Unit 6 Well Pad	Reported: 9/30/2024 9:50:01AM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

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 (2438150-BLK1) Prepared: 09/20/24 Analyzed: 09/27/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.476		0.500		95.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.512		0.500		102	70-130			
Surrogate: Toluene-d8	0.509		0.500		102	70-130			

LCS (2438150-BS2) Prepared: 09/20/24 Analyzed: 09/27/24

Gasoline Range Organics (C6-C10)	48.3	20.0	50.0		96.5	70-130			
Surrogate: Bromofluorobenzene	0.495		0.500		98.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.511		0.500		102	70-130			
Surrogate: Toluene-d8	0.511		0.500		102	70-130			

LCS Dup (2438150-BSD2) Prepared: 09/20/24 Analyzed: 09/27/24

Gasoline Range Organics (C6-C10)	48.8	20.0	50.0		97.6	70-130	1.17	20	
Surrogate: Bromofluorobenzene	0.496		0.500		99.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.517		0.500		103	70-130			
Surrogate: Toluene-d8	0.509		0.500		102	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Thistle Unit 6 Well Pad	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	9/30/2024 9:50:01AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: AF

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 (2438143-BLK1) Prepared: 09/20/24 Analyzed: 09/25/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	56.4		50.0		113	50-200			

LCS (2438143-BS1) Prepared: 09/20/24 Analyzed: 09/25/24

Diesel Range Organics (C10-C28)	247	25.0	250		98.7	38-132			
Surrogate: n-Nonane	56.4		50.0		113	50-200			

LCS Dup (2438143-BSD1) Prepared: 09/20/24 Analyzed: 09/25/24

Diesel Range Organics (C10-C28)	257	25.0	250		103	38-132	4.09	20	
Surrogate: n-Nonane	56.4		50.0		113	50-200			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Thistle Unit 6 Well Pad	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	9/30/2024 9:50:01AM

Anions by EPA 300.0/9056A

Analyst: DT

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

Blank (2438155-BLK1)					Prepared: 09/20/24 Analyzed: 09/21/24				
Chloride	ND	20.0							
LCS (2438155-BS1)					Prepared: 09/20/24 Analyzed: 09/21/24				
Chloride	257	20.0	250		103	90-110			
Matrix Spike (2438155-MS1)					Source: E409181-07		Prepared: 09/20/24 Analyzed: 09/21/24		
Chloride	268	20.0	250	ND	107	80-120			
Matrix Spike Dup (2438155-MSD1)					Source: E409181-07		Prepared: 09/20/24 Analyzed: 09/21/24		
Chloride	270	20.0	250	ND	108	80-120	1.10	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 6 Well Pad	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Gio Gomez	09/30/24 09:50

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

Released Under E.O. 14176
Page 31 of 33

Project Information

Chain of Custody

Client: Pima Environmental Services
Project: Thistle Unit 6 wellpad
Project Manager: Gio Gomez
Address: 5614 N. Lovington Hwy.
City, State, Zip: Hobbs, NM, 88240
Phone: 806-782-1151
Email: gio@pimaoil.com
Report due by:

Bill To
Attention: Devon
Address:
City, State, Zip
Phone:
Email:
Pima Project # 174-2

Lab Use Only						TAT				EPA Program	
Lab WO# <u>E409181</u>		Job Number <u>01058-007</u>				1D	2D	3D	Standard	CWA	SDWA
Analysis and Method											RCRA
						State					
						NM	CO	UT	AZ	TX	
						Remarks					

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX		
8:30	9/19	S		S1-1'	1							X			
8:36				S1-2'	2										
9:11				S1-3'	3										
9:20				S1-4'	4										
9:29				S2-1'	5										
9:37				S2-2'	6										
9:48				S2-3'	7										
9:56				S2-4'	8										
10:11				S3-1'	9										
10:28				S3-2'	10										

Additional Instructions: Billing# 21308909

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

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

Relinquished by: (Signature) <u>Verime Adams</u>	Date <u>9/19/24</u>	Time <u>2:30</u>	Received by: (Signature) <u>Michelle Gonzales</u>	Date <u>9-19-24</u>	Time <u>1430</u>	Lab Use Only Received on ice: <u>(X) N</u> T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
Relinquished by: (Signature) <u>Michelle Gonzales</u>	Date <u>9-19-24</u>	Time <u>1645</u>	Received by: (Signature) <u>L.H.</u>	Date <u>9-19-24</u>	Time <u>1715</u>	
Relinquished by: (Signature) <u>L.H.</u>	Date <u>9.19.24</u>	Time <u>2400</u>	Received by: (Signature) <u>Caitlin Mar</u>	Date <u>9.19.24</u>	Time <u>7:45</u>	

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

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

Refused to Sample 9/17/24 11:32 AM

Client: Pima Environmental Services
Project: Thistle Unit 6 Wellpad
Project Manager: Gio Gomez
Address: 5614 N. Lovington Hwy.
City, State, Zip Hobbs, NM. 88240
Phone: 806-782-1151
Email: gio@pimaoil.com
Report due by:

Bill To
Attention: Devon
Address:
City, State, Zip
Phone:
Email:
Pima Project # 174-2

Lab Use Only
Lab WO# E409181 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
BGDOC NM
BGDOC TX

TAT
1D 2D 3D Standard
X
State
NM CO UT AZ TX
X

EPA Program
CWA SDWA
RCRA

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	Remarks
0:39	9/18	S		S3-3'	11							X		
0:45				S3-4'	12									
10:56				S4-1'	13									
11:11				S4-2'	14									
11:20				S4-3'	15									
11:26				S4-4'	16									
11:33				S5-1'	17									
11:37				S5-2'	18									
11:42				S5-3'	19									
11:49				S5-4'	20									

Additional Instructions: Billing# 21308909

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.
Sampled by:
Relinquished by: (Signature) Carime Adams Date 9/19/24 Time 2:30
Received by: (Signature) Michelle Gonzales Date 9-19-24 Time 1430
Relinquished by: (Signature) Michelle Gonzales Date 9-19-24 Time 1645
Received by: (Signature) J.H. Date 9-19-24 Time 1715
Relinquished by: (Signature) J.H. Date 9-19-24 Time 2:400
Received by: (Signature) Carth Moore Date 9-20-24 Time 7:45
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

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

Envirotech Analytical Laboratory

Printed: 9/20/2024 10:27:09AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Pima Environmental Services-Carlsbad	Date Received:	09/20/24 07:45	Work Order ID:	E409181
Phone:	(575) 631-6977	Date Logged In:	09/19/24 16:01	Logged In By:	Noe Soto
Email:	gio@pimaoil.com	Due Date:	09/26/24 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? 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: CourierSample 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 InstructionComments/Resolution

NO. Of Containers and sampled by name are missing on COC by client. Project Thistle Unit 6 Well Pad has been separated into 2 WOs due to high sample volume. The WOs are E409181 & E409182.

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

Date



envirotech Inc.

Report to:
Gio Gomez



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Pima Environmental Services-Carlsbad

Project Name: Thistle Unit 6 Well Pad

Work Order: E409182

Job Number: 01058-0007

Received: 9/20/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
9/26/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 9/26/24

Gio Gomez
PO Box 247
Plains, TX 79355-0247



Project Name: Thistle Unit 6 Well Pad
Workorder: E409182
Date Received: 9/20/2024 7:45:00AM

Gio Gomez,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/20/2024 7:45:00AM, under the Project Name: Thistle Unit 6 Well Pad.

The analytical test results summarized in this report with the Project Name: Thistle Unit 6 Well Pad 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
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mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Pima Environmental Services-Carlsbad	Project Name:	Thistle Unit 6 Well Pad	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	09/26/24 16:32

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
S6 - 1'	E409182-01A	Soil	09/18/24	09/20/24	Glass Jar, 2 oz.
S6 - 2'	E409182-02A	Soil	09/18/24	09/20/24	Glass Jar, 2 oz.
S6 - 3'	E409182-03A	Soil	09/18/24	09/20/24	Glass Jar, 2 oz.
S6 - 4'	E409182-04A	Soil	09/18/24	09/20/24	Glass Jar, 2 oz.
SW1	E409182-05A	Soil	09/18/24	09/20/24	Glass Jar, 2 oz.
SW2	E409182-06A	Soil	09/18/24	09/20/24	Glass Jar, 2 oz.
SW3	E409182-07A	Soil	09/18/24	09/20/24	Glass Jar, 2 oz.
SW4	E409182-08A	Soil	09/18/24	09/20/24	Glass Jar, 2 oz.
SW5	E409182-09A	Soil	09/18/24	09/20/24	Glass Jar, 2 oz.
SW6	E409182-10A	Soil	09/18/24	09/20/24	Glass Jar, 2 oz.
BG1	E409182-11A	Soil	09/18/24	09/20/24	Glass Jar, 2 oz.

Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Thistle Unit 6 Well Pad Project Number: 01058-0007 Project Manager: Gio Gomez	Reported: 9/26/2024 4:32:08PM
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S6 - 1'
E409182-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2438146	
Benzene	ND	0.0250	1	09/20/24	09/20/24	
Ethylbenzene	ND	0.0250	1	09/20/24	09/20/24	
Toluene	ND	0.0250	1	09/20/24	09/20/24	
o-Xylene	ND	0.0250	1	09/20/24	09/20/24	
p,m-Xylene	ND	0.0500	1	09/20/24	09/20/24	
Total Xylenes	ND	0.0250	1	09/20/24	09/20/24	
Surrogate: 4-Bromochlorobenzene-PID	90.4 %	70-130		09/20/24	09/20/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2438146	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/20/24	09/20/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	98.0 %	70-130		09/20/24	09/20/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF		Batch: 2438142	
Diesel Range Organics (C10-C28)	844	25.0	1	09/20/24	09/26/24	
Oil Range Organics (C28-C36)	389	50.0	1	09/20/24	09/26/24	
Surrogate: n-Nonane	119 %	50-200		09/20/24	09/26/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2438157	
Chloride	26.8	20.0	1	09/20/24	09/23/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Thistle Unit 6 Well Pad	Reported: 9/26/2024 4:32:08PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

S6 - 2'

E409182-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2438146	
Benzene	ND	0.0250	1	09/20/24	09/20/24	
Ethylbenzene	ND	0.0250	1	09/20/24	09/20/24	
Toluene	ND	0.0250	1	09/20/24	09/20/24	
o-Xylene	ND	0.0250	1	09/20/24	09/20/24	
p,m-Xylene	0.0519	0.0500	1	09/20/24	09/20/24	
Total Xylenes	0.0519	0.0250	1	09/20/24	09/20/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	90.1 %	70-130		09/20/24	09/20/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2438146	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/20/24	09/20/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	97.7 %	70-130		09/20/24	09/20/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF		Batch: 2438142	
Diesel Range Organics (C10-C28)	970	25.0	1	09/20/24	09/25/24	
Oil Range Organics (C28-C36)	417	50.0	1	09/20/24	09/25/24	
<i>Surrogate: n-Nonane</i>						
	120 %	50-200		09/20/24	09/25/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2438157	
Chloride	34.6	20.0	1	09/20/24	09/23/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Thistle Unit 6 Well Pad	Reported: 9/26/2024 4:32:08PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

S6 - 3'

E409182-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2438146	
Benzene	ND	0.0250	1	09/20/24	09/20/24	
Ethylbenzene	ND	0.0250	1	09/20/24	09/20/24	
Toluene	ND	0.0250	1	09/20/24	09/20/24	
o-Xylene	ND	0.0250	1	09/20/24	09/20/24	
p,m-Xylene	ND	0.0500	1	09/20/24	09/20/24	
Total Xylenes	ND	0.0250	1	09/20/24	09/20/24	
Surrogate: 4-Bromochlorobenzene-PID	89.1 %	70-130		09/20/24	09/20/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2438146	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/20/24	09/20/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	96.9 %	70-130		09/20/24	09/20/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF		Batch: 2438142	
Diesel Range Organics (C10-C28)	288	25.0	1	09/20/24	09/25/24	
Oil Range Organics (C28-C36)	117	50.0	1	09/20/24	09/25/24	
Surrogate: n-Nonane	114 %	50-200		09/20/24	09/25/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2438157	
Chloride	ND	20.0	1	09/20/24	09/23/24	



Sample Data

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

Project Name: Thistle Unit 6 Well Pad
Project Number: 01058-0007
Project Manager: Gio Gomez

Reported:
9/26/2024 4:32:08PM

S6 - 4'

E409182-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: CG		Batch: 2438146
Benzene	ND	0.0250	1	09/20/24	09/20/24	
Ethylbenzene	ND	0.0250	1	09/20/24	09/20/24	
Toluene	ND	0.0250	1	09/20/24	09/20/24	
o-Xylene	ND	0.0250	1	09/20/24	09/20/24	
p,m-Xylene	ND	0.0500	1	09/20/24	09/20/24	
Total Xylenes	ND	0.0250	1	09/20/24	09/20/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	90.8 %	70-130		09/20/24	09/20/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: CG		Batch: 2438146
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/20/24	09/20/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	98.4 %	70-130		09/20/24	09/20/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AF		Batch: 2438142
Diesel Range Organics (C10-C28)	50.8	25.0	1	09/20/24	09/25/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/20/24	09/25/24	
<i>Surrogate: n-Nonane</i>						
	117 %	50-200		09/20/24	09/25/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2438157
Chloride	ND	20.0	1	09/20/24	09/23/24	



Sample Data

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

Project Name: Thistle Unit 6 Well Pad
Project Number: 01058-0007
Project Manager: Gio Gomez

Reported:
9/26/2024 4:32:08PM

SW1

E409182-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: CG		Batch: 2438146
Benzene	ND	0.0250	1	09/20/24	09/20/24	
Ethylbenzene	ND	0.0250	1	09/20/24	09/20/24	
Toluene	ND	0.0250	1	09/20/24	09/20/24	
o-Xylene	ND	0.0250	1	09/20/24	09/20/24	
p,m-Xylene	ND	0.0500	1	09/20/24	09/20/24	
Total Xylenes	ND	0.0250	1	09/20/24	09/20/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	91.1 %	70-130		09/20/24	09/20/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: CG		Batch: 2438146
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/20/24	09/20/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	98.1 %	70-130		09/20/24	09/20/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AF		Batch: 2438142
Diesel Range Organics (C10-C28)	ND	25.0	1	09/20/24	09/25/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/20/24	09/25/24	
<i>Surrogate: n-Nonane</i>						
	114 %	50-200		09/20/24	09/25/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2438157
Chloride	ND	20.0	1	09/20/24	09/23/24	



Sample Data

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

Project Name: Thistle Unit 6 Well Pad
Project Number: 01058-0007
Project Manager: Gio Gomez

Reported:
9/26/2024 4:32:08PM

SW2

E409182-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: CG		Batch: 2438146
Benzene	ND	0.0250	1	09/20/24	09/20/24	
Ethylbenzene	ND	0.0250	1	09/20/24	09/20/24	
Toluene	ND	0.0250	1	09/20/24	09/20/24	
o-Xylene	ND	0.0250	1	09/20/24	09/20/24	
p,m-Xylene	ND	0.0500	1	09/20/24	09/20/24	
Total Xylenes	ND	0.0250	1	09/20/24	09/20/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	90.7 %	70-130		09/20/24	09/20/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: CG		Batch: 2438146
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/20/24	09/20/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	96.7 %	70-130		09/20/24	09/20/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AF		Batch: 2438142
Diesel Range Organics (C10-C28)	ND	25.0	1	09/20/24	09/25/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/20/24	09/25/24	
<i>Surrogate: n-Nonane</i>						
	120 %	50-200		09/20/24	09/25/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2438157
Chloride	ND	20.0	1	09/20/24	09/23/24	



Sample Data

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

Project Name: Thistle Unit 6 Well Pad
Project Number: 01058-0007
Project Manager: Gio Gomez

Reported:
9/26/2024 4:32:08PM

SW3

E409182-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: CG		Batch: 2438146	
Benzene	ND	0.0250	1	09/20/24	09/20/24	
Ethylbenzene	ND	0.0250	1	09/20/24	09/20/24	
Toluene	ND	0.0250	1	09/20/24	09/20/24	
o-Xylene	ND	0.0250	1	09/20/24	09/20/24	
p,m-Xylene	ND	0.0500	1	09/20/24	09/20/24	
Total Xylenes	ND	0.0250	1	09/20/24	09/20/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.0 %	70-130		09/20/24	09/20/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: CG		Batch: 2438146	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/20/24	09/20/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	97.3 %	70-130		09/20/24	09/20/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: AF		Batch: 2438142	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/20/24	09/25/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/20/24	09/25/24	
<i>Surrogate: n-Nonane</i>						
	117 %	50-200		09/20/24	09/25/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2438157	
Chloride	ND	20.0	1	09/20/24	09/23/24	



Sample Data

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

Project Name: Thistle Unit 6 Well Pad
Project Number: 01058-0007
Project Manager: Gio Gomez

Reported:
9/26/2024 4:32:08PM

SW4

E409182-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: CG		Batch: 2438146
Benzene	ND	0.0250	1	09/20/24	09/20/24	
Ethylbenzene	ND	0.0250	1	09/20/24	09/20/24	
Toluene	ND	0.0250	1	09/20/24	09/20/24	
o-Xylene	ND	0.0250	1	09/20/24	09/20/24	
p,m-Xylene	ND	0.0500	1	09/20/24	09/20/24	
Total Xylenes	ND	0.0250	1	09/20/24	09/20/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	90.9 %	70-130		09/20/24	09/20/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: CG		Batch: 2438146
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/20/24	09/20/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	97.6 %	70-130		09/20/24	09/20/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AF		Batch: 2438142
Diesel Range Organics (C10-C28)	ND	25.0	1	09/20/24	09/25/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/20/24	09/25/24	
<i>Surrogate: n-Nonane</i>						
	118 %	50-200		09/20/24	09/25/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2438157
Chloride	ND	20.0	1	09/20/24	09/23/24	



Sample Data

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

Project Name: Thistle Unit 6 Well Pad
Project Number: 01058-0007
Project Manager: Gio Gomez

Reported:
9/26/2024 4:32:08PM

SW5

E409182-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: CG		Batch: 2438146
Benzene	ND	0.0250	1	09/20/24	09/20/24	
Ethylbenzene	ND	0.0250	1	09/20/24	09/20/24	
Toluene	ND	0.0250	1	09/20/24	09/20/24	
o-Xylene	ND	0.0250	1	09/20/24	09/20/24	
p,m-Xylene	ND	0.0500	1	09/20/24	09/20/24	
Total Xylenes	ND	0.0250	1	09/20/24	09/20/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	90.6 %	70-130		09/20/24	09/20/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: CG		Batch: 2438146
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/20/24	09/20/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	98.6 %	70-130		09/20/24	09/20/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AF		Batch: 2438142
Diesel Range Organics (C10-C28)	ND	25.0	1	09/20/24	09/25/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/20/24	09/25/24	
<i>Surrogate: n-Nonane</i>						
	112 %	50-200		09/20/24	09/25/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2438157
Chloride	ND	20.0	1	09/20/24	09/23/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Thistle Unit 6 Well Pad	Reported: 9/26/2024 4:32:08PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

SW6

E409182-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2438146	
Benzene	ND	0.0250	1	09/20/24	09/20/24	
Ethylbenzene	ND	0.0250	1	09/20/24	09/20/24	
Toluene	ND	0.0250	1	09/20/24	09/20/24	
o-Xylene	ND	0.0250	1	09/20/24	09/20/24	
p,m-Xylene	ND	0.0500	1	09/20/24	09/20/24	
Total Xylenes	ND	0.0250	1	09/20/24	09/20/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	91.6 %	70-130		09/20/24	09/20/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2438146	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/20/24	09/20/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	96.5 %	70-130		09/20/24	09/20/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF		Batch: 2438142	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/20/24	09/25/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/20/24	09/25/24	
<i>Surrogate: n-Nonane</i>						
	119 %	50-200		09/20/24	09/25/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2438157	
Chloride	ND	20.0	1	09/20/24	09/24/24	



Sample Data

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

Project Name: Thistle Unit 6 Well Pad
Project Number: 01058-0007
Project Manager: Gio Gomez

Reported:
9/26/2024 4:32:08PM

BG1

E409182-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: CG		Batch: 2438146	
Benzene	ND	0.0250	1	09/20/24	09/21/24	
Ethylbenzene	ND	0.0250	1	09/20/24	09/21/24	
Toluene	ND	0.0250	1	09/20/24	09/21/24	
o-Xylene	ND	0.0250	1	09/20/24	09/21/24	
p,m-Xylene	ND	0.0500	1	09/20/24	09/21/24	
Total Xylenes	ND	0.0250	1	09/20/24	09/21/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	91.1 %	70-130		09/20/24	09/21/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: CG		Batch: 2438146	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/20/24	09/21/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	97.7 %	70-130		09/20/24	09/21/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: AF		Batch: 2438142	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/20/24	09/25/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/20/24	09/25/24	
<i>Surrogate: n-Nonane</i>						
	118 %	50-200		09/20/24	09/25/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2438157	
Chloride	ND	20.0	1	09/20/24	09/24/24	



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Thistle Unit 6 Well Pad	Reported: 9/26/2024 4:32:08PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

Volatile Organics by EPA 8021B

Analyst: CG

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 (2438146-BLK1) Prepared: 09/20/24 Analyzed: 09/20/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.07		8.00		88.3	70-130			

LCS (2438146-BS1) Prepared: 09/20/24 Analyzed: 09/20/24

Benzene	4.57	0.0250	5.00		91.3	70-130			
Ethylbenzene	4.60	0.0250	5.00		92.1	70-130			
Toluene	4.65	0.0250	5.00		92.9	70-130			
o-Xylene	4.59	0.0250	5.00		91.7	70-130			
p,m-Xylene	9.35	0.0500	10.0		93.5	70-130			
Total Xylenes	13.9	0.0250	15.0		92.9	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.07		8.00		88.4	70-130			

Matrix Spike (2438146-MS1) Source: E409176-07 Prepared: 09/20/24 Analyzed: 09/20/24

Benzene	5.02	0.0250	5.00	ND	100	54-133			
Ethylbenzene	5.06	0.0250	5.00	ND	101	61-133			
Toluene	5.10	0.0250	5.00	ND	102	61-130			
o-Xylene	5.03	0.0250	5.00	ND	101	63-131			
p,m-Xylene	10.2	0.0500	10.0	ND	102	63-131			
Total Xylenes	15.3	0.0250	15.0	ND	102	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.08		8.00		88.5	70-130			

Matrix Spike Dup (2438146-MSD1) Source: E409176-07 Prepared: 09/20/24 Analyzed: 09/20/24

Benzene	4.95	0.0250	5.00	ND	99.0	54-133	1.41	20	
Ethylbenzene	5.01	0.0250	5.00	ND	100	61-133	0.933	20	
Toluene	5.04	0.0250	5.00	ND	101	61-130	1.17	20	
o-Xylene	5.00	0.0250	5.00	ND	100	63-131	0.576	20	
p,m-Xylene	10.2	0.0500	10.0	ND	102	63-131	0.870	20	
Total Xylenes	15.2	0.0250	15.0	ND	101	63-131	0.773	20	
Surrogate: 4-Bromochlorobenzene-PID	7.19		8.00		89.9	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Thistle Unit 6 Well Pad	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	9/26/2024 4:32:08PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: CG

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 (2438146-BLK1) Prepared: 09/20/24 Analyzed: 09/20/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.78		8.00		97.2	70-130			

LCS (2438146-BS2) Prepared: 09/20/24 Analyzed: 09/20/24

Gasoline Range Organics (C6-C10)	45.4	20.0	50.0		90.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.86		8.00		98.2	70-130			

Matrix Spike (2438146-MS2) Source: E409176-07 Prepared: 09/20/24 Analyzed: 09/20/24

Gasoline Range Organics (C6-C10)	44.8	20.0	50.0	ND	89.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.92		8.00		99.0	70-130			

Matrix Spike Dup (2438146-MSD2) Source: E409176-07 Prepared: 09/20/24 Analyzed: 09/20/24

Gasoline Range Organics (C6-C10)	45.1	20.0	50.0	ND	90.2	70-130	0.742	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.89		8.00		98.7	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Thistle Unit 6 Well Pad	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	9/26/2024 4:32:08PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: AF

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

Blank (2438142-BLK1) Prepared: 09/20/24 Analyzed: 09/25/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	56.9		50.0		114	50-200			

LCS (2438142-BS1) Prepared: 09/20/24 Analyzed: 09/25/24

Diesel Range Organics (C10-C28)	306	25.0	250		123	38-132			
Surrogate: n-Nonane	66.1		50.0		132	50-200			

LCS Dup (2438142-BSD1) Prepared: 09/20/24 Analyzed: 09/25/24

Diesel Range Organics (C10-C28)	241	25.0	250		96.3	38-132	24.0	20	R3
Surrogate: n-Nonane	57.7		50.0		115	50-200			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Thistle Unit 6 Well Pad	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	9/26/2024 4:32:08PM

Anions by EPA 300.0/9056A

Analyst: DT

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

Blank (2438157-BLK1)					Prepared: 09/20/24 Analyzed: 09/23/24				
Chloride	ND	20.0							
LCS (2438157-BS1)					Prepared: 09/20/24 Analyzed: 09/23/24				
Chloride	254	20.0	250		102	90-110			
Matrix Spike (2438157-MS1)					Source: E409182-02		Prepared: 09/20/24 Analyzed: 09/23/24		
Chloride	287	20.0	250	34.6	101	80-120			
Matrix Spike Dup (2438157-MSD1)					Source: E409182-02		Prepared: 09/20/24 Analyzed: 09/23/24		
Chloride	288	20.0	250	34.6	102	80-120	0.405	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 6 Well Pad	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Gio Gomez	09/26/24 16:32

- R3 The RPD exceeded the acceptance limit. LCS spike recovery met acceptance criteria.
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite
- DNR Did not react with the addition of acid or base.

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

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



Envirotech Analytical Laboratory

Printed: 9/20/2024 10:32:29AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Pima Environmental Services-Carlsbad	Date Received:	09/20/24 07:45	Work Order ID:	E409182
Phone:	(575) 631-6977	Date Logged In:	09/19/24 16:02	Logged In By:	Noe Soto
Email:	gio@pimaoil.com	Due Date:	09/26/24 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? 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: CourierSample 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 InstructionComments/Resolution

NO. Of Containers and sampled by name are missing on COC by client. Project Thistle Unit 6 Well Pad has been separated into 2 WOs due to high sample volume. The WOs are E409181 & E409182.

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

Date



envirotech Inc.

Report to:
Gio Gomez



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Pima Environmental Services-Carlsbad

Project Name: Thistle Unit #6

Work Order: E410150

Job Number: 01058-0007

Received: 10/16/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
10/16/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 10/16/24

Gio Gomez
PO Box 247
Plains, TX 79355-0247



Project Name: Thistle Unit #6
Workorder: E410150
Date Received: 10/16/2024 7:45:00AM

Gio Gomez,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/16/2024 7:45:00AM, under the Project Name: Thistle Unit #6.

The analytical test results summarized in this report with the Project Name: Thistle Unit #6 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
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Cell: 775-287-1762
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Sample Summary

Pima Environmental Services-Carlsbad	Project Name:	Thistle Unit #6	Reported: 10/16/24 15:20
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
CS1 - Bottom	E410150-01A	Soil	10/15/24	10/16/24	Glass Jar, 2 oz.
CS2 - Bottom	E410150-02A	Soil	10/15/24	10/16/24	Glass Jar, 2 oz.
CS3 - Bottom	E410150-03A	Soil	10/15/24	10/16/24	Glass Jar, 2 oz.
CSW1- Comp	E410150-04A	Soil	10/15/24	10/16/24	Glass Jar, 2 oz.
CSW2- Comp	E410150-05A	Soil	10/15/24	10/16/24	Glass Jar, 2 oz.
CSW3- Comp	E410150-06A	Soil	10/15/24	10/16/24	Glass Jar, 2 oz.
CSW4- Comp	E410150-07A	Soil	10/15/24	10/16/24	Glass Jar, 2 oz.
CSW5- Comp	E410150-08A	Soil	10/15/24	10/16/24	Glass Jar, 2 oz.
CSW6- Comp	E410150-09A	Soil	10/15/24	10/16/24	Glass Jar, 2 oz.



Sample Data

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

Project Name: Thistle Unit #6
Project Number: 01058-0007
Project Manager: Gio Gomez

Reported:
10/16/2024 3:20:19PM

CS1 - Bottom

E410150-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: CG		Batch: 2442094	
Benzene	ND	0.0250	1	10/16/24	10/16/24	
Ethylbenzene	ND	0.0250	1	10/16/24	10/16/24	
Toluene	ND	0.0250	1	10/16/24	10/16/24	
o-Xylene	ND	0.0250	1	10/16/24	10/16/24	
p,m-Xylene	ND	0.0500	1	10/16/24	10/16/24	
Total Xylenes	ND	0.0250	1	10/16/24	10/16/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		107 %	70-130	10/16/24	10/16/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: CG		Batch: 2442094	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/16/24	10/16/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		94.1 %	70-130	10/16/24	10/16/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2442081	
Diesel Range Organics (C10-C28)	182	25.0	1	10/15/24	10/16/24	
Oil Range Organics (C28-C36)	53.0	50.0	1	10/15/24	10/16/24	
<i>Surrogate: n-Nonane</i>						
		85.2 %	50-200	10/15/24	10/16/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2442091	
Chloride	ND	20.0	1	10/16/24	10/16/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Thistle Unit #6	Reported: 10/16/2024 3:20:19PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

CS2 - Bottom
E410150-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2442094	
Benzene	ND	0.0250	1	10/16/24	10/16/24	
Ethylbenzene	ND	0.0250	1	10/16/24	10/16/24	
Toluene	ND	0.0250	1	10/16/24	10/16/24	
o-Xylene	ND	0.0250	1	10/16/24	10/16/24	
p,m-Xylene	ND	0.0500	1	10/16/24	10/16/24	
Total Xylenes	ND	0.0250	1	10/16/24	10/16/24	
Surrogate: 4-Bromochlorobenzene-PID	90.7 %	70-130		10/16/24	10/16/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2442094	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/16/24	10/16/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	98.2 %	70-130		10/16/24	10/16/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2442081	
Diesel Range Organics (C10-C28)	363	25.0	1	10/15/24	10/16/24	
Oil Range Organics (C28-C36)	112	50.0	1	10/15/24	10/16/24	
Surrogate: n-Nonane	97.8 %	50-200		10/15/24	10/16/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2442091	
Chloride	ND	20.0	1	10/16/24	10/16/24	



Sample Data

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

Project Name: Thistle Unit #6
Project Number: 01058-0007
Project Manager: Gio Gomez

Reported:
10/16/2024 3:20:19PM

CS3 - Bottom

E410150-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: CG		Batch: 2442094
Benzene	ND	0.0250	1	10/16/24	10/16/24	
Ethylbenzene	ND	0.0250	1	10/16/24	10/16/24	
Toluene	ND	0.0250	1	10/16/24	10/16/24	
o-Xylene	ND	0.0250	1	10/16/24	10/16/24	
p,m-Xylene	ND	0.0500	1	10/16/24	10/16/24	
Total Xylenes	ND	0.0250	1	10/16/24	10/16/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		89.9 %	70-130	10/16/24	10/16/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: CG		Batch: 2442094
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/16/24	10/16/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		98.1 %	70-130	10/16/24	10/16/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2442081
Diesel Range Organics (C10-C28)	442	25.0	1	10/15/24	10/16/24	
Oil Range Organics (C28-C36)	149	50.0	1	10/15/24	10/16/24	
<i>Surrogate: n-Nonane</i>						
		101 %	50-200	10/15/24	10/16/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2442091
Chloride	ND	20.0	1	10/16/24	10/16/24	



Sample Data

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

Project Name: Thistle Unit #6
Project Number: 01058-0007
Project Manager: Gio Gomez

Reported:
10/16/2024 3:20:19PM

CSW1- Comp

E410150-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: CG		Batch: 2442094	
Benzene	ND	0.0250	1	10/16/24	10/16/24	
Ethylbenzene	ND	0.0250	1	10/16/24	10/16/24	
Toluene	ND	0.0250	1	10/16/24	10/16/24	
o-Xylene	ND	0.0250	1	10/16/24	10/16/24	
p,m-Xylene	ND	0.0500	1	10/16/24	10/16/24	
Total Xylenes	ND	0.0250	1	10/16/24	10/16/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	89.7 %	70-130		10/16/24	10/16/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: CG		Batch: 2442094	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/16/24	10/16/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	98.1 %	70-130		10/16/24	10/16/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2442081	
Diesel Range Organics (C10-C28)	173	25.0	1	10/15/24	10/16/24	
Oil Range Organics (C28-C36)	62.9	50.0	1	10/15/24	10/16/24	
<i>Surrogate: n-Nonane</i>						
	108 %	50-200		10/15/24	10/16/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2442091	
Chloride	ND	20.0	1	10/16/24	10/16/24	



Sample Data

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

Project Name: Thistle Unit #6
Project Number: 01058-0007
Project Manager: Gio Gomez

Reported:
10/16/2024 3:20:19PM

CSW2- Comp
E410150-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: CG		Batch: 2442094	
Benzene	ND	0.0250	1	10/16/24	10/16/24	
Ethylbenzene	ND	0.0250	1	10/16/24	10/16/24	
Toluene	ND	0.0250	1	10/16/24	10/16/24	
o-Xylene	0.0285	0.0250	1	10/16/24	10/16/24	
p,m-Xylene	0.0652	0.0500	1	10/16/24	10/16/24	
Total Xylenes	0.0937	0.0250	1	10/16/24	10/16/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	91.6 %	70-130		10/16/24	10/16/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: CG		Batch: 2442094	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/16/24	10/16/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	99.5 %	70-130		10/16/24	10/16/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2442081	
Diesel Range Organics (C10-C28)	419	25.0	1	10/15/24	10/16/24	
Oil Range Organics (C28-C36)	158	50.0	1	10/15/24	10/16/24	
<i>Surrogate: n-Nonane</i>						
	109 %	50-200		10/15/24	10/16/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2442091	
Chloride	ND	20.0	1	10/16/24	10/16/24	



Sample Data

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

Project Name: Thistle Unit #6
Project Number: 01058-0007
Project Manager: Gio Gomez

Reported:
10/16/2024 3:20:19PM

CSW3- Comp

E410150-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: CG		Batch: 2442094	
Benzene	ND	0.0250	1	10/16/24	10/16/24	
Ethylbenzene	ND	0.0250	1	10/16/24	10/16/24	
Toluene	ND	0.0250	1	10/16/24	10/16/24	
o-Xylene	ND	0.0250	1	10/16/24	10/16/24	
p,m-Xylene	ND	0.0500	1	10/16/24	10/16/24	
Total Xylenes	ND	0.0250	1	10/16/24	10/16/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		104 %	70-130	10/16/24	10/16/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: CG		Batch: 2442094	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/16/24	10/16/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		92.9 %	70-130	10/16/24	10/16/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2442081	
Diesel Range Organics (C10-C28)	287	25.0	1	10/15/24	10/16/24	
Oil Range Organics (C28-C36)	116	50.0	1	10/15/24	10/16/24	
<i>Surrogate: n-Nonane</i>						
		107 %	50-200	10/15/24	10/16/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2442091	
Chloride	ND	20.0	1	10/16/24	10/16/24	



Sample Data

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

Project Name: Thistle Unit #6
Project Number: 01058-0007
Project Manager: Gio Gomez

Reported:
10/16/2024 3:20:19PM

CSW4- Comp
E410150-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: CG		Batch: 2442094	
Benzene	ND	0.0250	1	10/16/24	10/16/24	
Ethylbenzene	ND	0.0250	1	10/16/24	10/16/24	
Toluene	ND	0.0250	1	10/16/24	10/16/24	
o-Xylene	ND	0.0250	1	10/16/24	10/16/24	
p,m-Xylene	ND	0.0500	1	10/16/24	10/16/24	
Total Xylenes	ND	0.0250	1	10/16/24	10/16/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	89.4 %	70-130		10/16/24	10/16/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: CG		Batch: 2442094	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/16/24	10/16/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	97.4 %	70-130		10/16/24	10/16/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2442081	
Diesel Range Organics (C10-C28)	26.4	25.0	1	10/15/24	10/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/15/24	10/16/24	
<i>Surrogate: n-Nonane</i>						
	97.5 %	50-200		10/15/24	10/16/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2442091	
Chloride	ND	20.0	1	10/16/24	10/16/24	



Sample Data

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

Project Name: Thistle Unit #6
Project Number: 01058-0007
Project Manager: Gio Gomez

Reported:
10/16/2024 3:20:19PM

CSW5- Comp
E410150-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2442094	
Benzene	ND	0.0250	1	10/16/24	10/16/24	
Ethylbenzene	ND	0.0250	1	10/16/24	10/16/24	
Toluene	ND	0.0250	1	10/16/24	10/16/24	
o-Xylene	0.0257	0.0250	1	10/16/24	10/16/24	
p,m-Xylene	0.0622	0.0500	1	10/16/24	10/16/24	
Total Xylenes	0.0879	0.0250	1	10/16/24	10/16/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	89.8 %	70-130		10/16/24	10/16/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2442094	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/16/24	10/16/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	98.2 %	70-130		10/16/24	10/16/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2442081	
Diesel Range Organics (C10-C28)	248	25.0	1	10/15/24	10/16/24	
Oil Range Organics (C28-C36)	98.8	50.0	1	10/15/24	10/16/24	
<i>Surrogate: n-Nonane</i>						
	95.7 %	50-200		10/15/24	10/16/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2442091	
Chloride	ND	20.0	1	10/16/24	10/16/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Thistle Unit #6	Reported: 10/16/2024 3:20:19PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

CSW6- Comp
E410150-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2442094	
Benzene	ND	0.0250	1	10/16/24	10/16/24	
Ethylbenzene	ND	0.0250	1	10/16/24	10/16/24	
Toluene	ND	0.0250	1	10/16/24	10/16/24	
o-Xylene	ND	0.0250	1	10/16/24	10/16/24	
p,m-Xylene	0.0517	0.0500	1	10/16/24	10/16/24	
Total Xylenes	0.0517	0.0250	1	10/16/24	10/16/24	
Surrogate: 4-Bromochlorobenzene-PID	88.5 %	70-130		10/16/24	10/16/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2442094	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/16/24	10/16/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	98.5 %	70-130		10/16/24	10/16/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2442081	
Diesel Range Organics (C10-C28)	197	25.0	1	10/15/24	10/16/24	
Oil Range Organics (C28-C36)	75.0	50.0	1	10/15/24	10/16/24	
Surrogate: n-Nonane	96.4 %	50-200		10/15/24	10/16/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2442091	
Chloride	ND	20.0	1	10/16/24	10/16/24	



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Thistle Unit #6	Reported: 10/16/2024 3:20:19PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

Volatile Organics by EPA 8021B

Analyst: CG

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 (2442094-BLK1) Prepared: 10/16/24 Analyzed: 10/16/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	8.12		8.00		102	70-130			

LCS (2442094-BS1) Prepared: 10/16/24 Analyzed: 10/16/24

Benzene	4.78	0.0250	5.00		95.6	70-130			
Ethylbenzene	4.67	0.0250	5.00		93.4	70-130			
Toluene	4.75	0.0250	5.00		95.0	70-130			
o-Xylene	4.66	0.0250	5.00		93.2	70-130			
p,m-Xylene	9.52	0.0500	10.0		95.2	70-130			
Total Xylenes	14.2	0.0250	15.0		94.6	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.10		8.00		101	70-130			

Matrix Spike (2442094-MS1) Source: E410150-06 Prepared: 10/16/24 Analyzed: 10/16/24

Benzene	6.07	0.0250	5.00	ND	121	54-133			
Ethylbenzene	5.93	0.0250	5.00	ND	119	61-133			
Toluene	6.02	0.0250	5.00	ND	120	61-130			
o-Xylene	5.96	0.0250	5.00	ND	119	63-131			
p,m-Xylene	12.1	0.0500	10.0	ND	121	63-131			
Total Xylenes	18.0	0.0250	15.0	ND	120	63-131			
Surrogate: 4-Bromochlorobenzene-PID	8.53		8.00		107	70-130			

Matrix Spike Dup (2442094-MSD1) Source: E410150-06 Prepared: 10/16/24 Analyzed: 10/16/24

Benzene	5.57	0.0250	5.00	ND	111	54-133	8.62	20	
Ethylbenzene	5.45	0.0250	5.00	ND	109	61-133	8.37	20	
Toluene	5.53	0.0250	5.00	ND	111	61-130	8.50	20	
o-Xylene	5.47	0.0250	5.00	ND	109	63-131	8.56	20	
p,m-Xylene	11.1	0.0500	10.0	ND	111	63-131	8.38	20	
Total Xylenes	16.6	0.0250	15.0	ND	111	63-131	8.44	20	
Surrogate: 4-Bromochlorobenzene-PID	8.40		8.00		105	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Thistle Unit #6	Reported: 10/16/2024 3:20:19PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: CG

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 (2442094-BLK1) Prepared: 10/16/24 Analyzed: 10/16/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.42		8.00		92.7	70-130			

LCS (2442094-BS2) Prepared: 10/16/24 Analyzed: 10/16/24

Gasoline Range Organics (C6-C10)	44.5	20.0	50.0		89.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.50		8.00		93.8	70-130			

Matrix Spike (2442094-MS2) Source: E410150-06 Prepared: 10/16/24 Analyzed: 10/16/24

Gasoline Range Organics (C6-C10)	50.9	20.0	50.0	ND	102	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.69		8.00		96.1	70-130			

Matrix Spike Dup (2442094-MSD2) Source: E410150-06 Prepared: 10/16/24 Analyzed: 10/16/24

Gasoline Range Organics (C6-C10)	50.7	20.0	50.0	ND	101	70-130	0.479	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.73		8.00		96.6	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Thistle Unit #6	Reported: 10/16/2024 3:20:19PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2442081-BLK1)					Prepared: 10/15/24 Analyzed: 10/15/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	46.8		50.0		93.5	50-200			

LCS (2442081-BS1)					Prepared: 10/15/24 Analyzed: 10/15/24				
Diesel Range Organics (C10-C28)	261	25.0	250		105	38-132			
Surrogate: n-Nonane	51.0		50.0		102	50-200			

LCS Dup (2442081-BSD1)					Prepared: 10/15/24 Analyzed: 10/15/24				
Diesel Range Organics (C10-C28)	263	25.0	250		105	38-132	0.433	20	
Surrogate: n-Nonane	50.6		50.0		101	50-200			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Thistle Unit #6	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	10/16/2024 3:20:19PM

Anions by EPA 300.0/9056A

Analyst: IY

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

Blank (2442091-BLK1)					Prepared: 10/16/24 Analyzed: 10/16/24				
Chloride	ND	20.0							
LCS (2442091-BS1)					Prepared: 10/16/24 Analyzed: 10/16/24				
Chloride	254	20.0	250		102	90-110			
Matrix Spike (2442091-MS1)					Source: E410149-03		Prepared: 10/16/24 Analyzed: 10/16/24		
Chloride	254	20.0	250	ND	102	80-120			
Matrix Spike Dup (2442091-MSD1)					Source: E410149-03		Prepared: 10/16/24 Analyzed: 10/16/24		
Chloride	254	20.0	250	ND	102	80-120	0.0271	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 #6	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Gio Gomez	10/16/24 15:20

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

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

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



Envirotech Analytical Laboratory

Printed: 10/16/2024 8:51:32AM

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:	10/16/24 07:45	Work Order ID:	E410150
Phone:	(575) 631-6977	Date Logged In:	10/15/24 15:03	Logged In By:	Caitlin Mars
Email:	gio@pimaoil.com	Due Date:	10/16/24 17:00 (0 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/Resolution

Sampled by and no of containers not provided on COC per client.

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

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

General Information
Phone: (505) 629-6116

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

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

QUESTIONS

Action 394665

QUESTIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 394665
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2406623089
Incident Name	NAPP2406623089 THISTLE UNIT 6 @ 30-025-34767
Incident Type	Oil Release
Incident Status	Remediation Closure Report Received
Incident Well	[30-025-34767] THISTLE UNIT #006

Location of Release Source	
Please answer all the questions in this group.	
Site Name	THISTLE UNIT 6
Date Release Discovered	03/05/2024
Surface Owner	State

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Cause: Equipment Failure Coupling Crude Oil Released: 8 BBL Recovered: 8 BBL Lost: 0 BBL.
Produced Water Released (bbls) Details	Not answered.
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)	A valve broke on the back of a tank and spilled old oil onto the ground. The hole in the valve was plugged and a truck recovered the spilled fluid.

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QUESTIONS, Page 2

Action 394665

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 394665
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No
Reasons why this would be considered a submission for a notification of a major release	Unavailable.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response

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

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

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

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

I hereby agree and sign off to the above statement	Name: Dale Woodall Title: EHS Professional Email: Dale.Woodall@dmn.com Date: 10/22/2024
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Oil Conservation Division
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QUESTIONS, Page 3

Action 394665

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 394665
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS**Site Characterization**

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

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 51 and 75 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Greater than 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	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
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)

Chloride (EPA 300.0 or SM4500 Cl B)	3650
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	14723
GRO+DRO (EPA SW-846 Method 8015M)	72
BTEX (EPA SW-846 Method 8021B or 8260B)	0.1
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	10/08/2024
On what date will (or did) the final sampling or liner inspection occur	10/08/2024
On what date will (or was) the remediation complete(d)	10/09/2024
What is the estimated surface area (in square feet) that will be reclaimed	459
What is the estimated volume (in cubic yards) that will be reclaimed	17
What is the estimated surface area (in square feet) that will be remediated	459
What is the estimated volume (in cubic yards) that will be remediated	17

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 394665

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 394665
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

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:	
(Select all answers below that apply.)	
(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	OWL LANDFILL JAL [fJEG1635837366]
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: 10/22/2024
<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>	

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

General Information
Phone: (505) 629-6116

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

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

QUESTIONS, Page 5

Action 394665

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 394665
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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QUESTIONS, Page 6

Action 394665

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 394665
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	391796
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	10/15/2024
What was the (estimated) number of samples that were to be gathered	9
What was the sampling surface area in square feet	460

Remediation Closure Request

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

Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	459
What was the total volume (cubic yards) remediated	17
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	459
What was the total volume (in cubic yards) reclaimed	17
Summarize any additional remediation activities not included by answers (above)	"The location is scheduled for reclamation, and the open excavation will not be backfilled until reclamation occurs."

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

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

I hereby agree and sign off to the above statement	Name: Dale Woodall Title: EHS Professional Email: Dale.Woodall@dvn.com Date: 10/22/2024
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QUESTIONS, Page 7

Action 394665

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 394665
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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CONDITIONS

Action 394665

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 394665
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
nvez	Remediation has met 19.15.29 NMAC requirements. Soil impacts exceeding the reclamation standards have been left in place and are required to meet 19.15.29.13D (1) NMAC once the site is no longer reasonably needed for production or subsequent drilling ops.	2/11/2025