

Volume calculator

There was no volume calculator prepared when the spill occurred.



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

June 10, 2024

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

**Re: Closure Report**  
**Spica 25 Fed 3H**  
**API No. 30-015-40220**  
**GPS: Latitude 32.6288948 Longitude -103.8301926**  
**UL -- L, 25, T19S, R31E**  
**Eddy County, NM**  
**NMOCD Ref. No. NAB1718649427**

Pima Environmental Services, LLC. (Pima) has been contracted by Devon Energy Production Company, LP (Devon) to write and submit this closure report for a produced water and Crude oil release that occurred at the Spica 25 Fed 3H (Spica). The initial C-141 was submitted on June 27, 2017 (Appendix C). This incident was assigned Incident ID NAB1718649427 by the New Mexico Oil Conservation Division (NMOCD).

#### **Site Characterization**

Site information and characterization documents can be found in the previously denied Remediation Closure Report located in the OCD Online Permitting - Action Status – Application ID: 189885

#### **Release Information**

**NAB1718649427:** On June 25, 2017, the cable on the rod rotator broke off and wrapped around the wellhead, when the wellhead went up it pulled the cable tight causing the ¼ inch valve to break, causing fluid release onto the pad. The released fluids were calculated to be approximately 14 barrels (bbls) of produced water and 2 barrels (bbls) of crude oil. Vacuum trucks were able to recover approximately 1.5 bbls of Crude oil and 6.5 bbls of produced water.

#### **Countermeasures due to Remediation Closure Report Denied**

On June 8, 2022, the NMOCD denied the remediation closure report citing:

“The OCD has rejected the submitted Application for administrative approval of a release notification and corrective action (C-141), for incident ID (n#) NAB1718649427 for the following reasons:

- **In the Remediation Plan submitted on 8/11/202 there were samples taken at BG-4 and BG-5 with elevated Chlorides 4,400 (BG-4) 4,900 (BG-5). The closure criteria for DTGW <50’ due to lack of GW data, which requires these two sample points to meet the 600 mg/kg closure criteria. These two points were omitted from the closure report, and we have no sample data which indicates that these two points meet the closure criteria. Please remediate and resample these points until they meet the closure criteria and resubmit a closure report including lab data.**

The rejected C-141 can be found in the OCD Online: Permitting - Action Status, under the Application ID: 9006. 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.”

On April 6, 2023, Devon Energy contracted Atkins Engineering Associates, Inc. to drill a new bore hole, OSE Pod No. 1, OSE File No. CP-1939 with a bore hole depth of 55’. 72 hours after drilling, the well was gauged for the presence of water, no water was present and

the well was plugged. The new pod is located within half a mile radius of the Spica 25 Federal 3H. With this new DTGW information BG-4 (4,400) and BG-5 (4,900) meet the 10,000 mg/kg closure criteria. Water survey information is referenced in Appendix A.

#### **Closure Request**

On behalf of Devon, Pima requests that this Remediation Closure Report for incident ID NAB1718649427 be approved. All samples shown on the Work Plan and remediation Closure Report are under the regulatory limits for the 51-100' depth to ground water column of Table 1 19.15.29 NMAC. Devon has complied with the applicable closure requirements outlined in rule 19.15.29.12 NMAC.

Should you have any questions or need additional information, please feel free to contact:  
Devon Energy Production- Dale Woodall at 575-748-0167 or [dale.woodall@dvn.com](mailto:dale.woodall@dvn.com).  
Pima Environmental – DelRae Geller at 806- 724-5391 or [delrae@pimaoil.com](mailto:delrae@pimaoil.com).

Respectfully,

*DelRae Geller*

DelRae Geller  
Project Manager  
Pima Environmental Services, LLC

#### **Attachments**

Appendices:  
Appendix A – Referenced Water Surveys



# 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
<a href="#">CP 01939 POD1</a>		CP	ED	2	4	2	26	19S	31E	609488	3611347	646			
<a href="#">CP 00641 POD1</a>		CP	ED		4	1	36	19S	31E	610247	3609634*	1227	300	130	170
<a href="#">CP 00642 POD1</a>		CP	ED		2	2	25	19S	31E	611025	3611657*	1574	250		
<a href="#">CP 01864 POD1</a>		CP	ED	4	2	1	34	19S	31E	607068	3609824	2826	110		

Average Depth to Water: **130 feet**

Minimum Depth: **130 feet**

Maximum Depth: **130 feet**

**Record Count:** 4

### UTMNAD83 Radius Search (in meters):

**Easting (X):** 609737.8

**Northing (Y):** 3610750.9

**Radius:** 3000

\*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.

5/28/24 11:03 AM

WATER COLUMN/ AVERAGE DEPTH TO  
WATER





# WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

[www.ose.state.nm.us](http://www.ose.state.nm.us)

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD 1 (TW-1)		WELL TAG ID NO. N/A		OSE FILE NO(S) CP-1939			
	WELL OWNER NAME(S) Devon Energy				PHONE (OPTIONAL) 575-748-1838			
	WELL OWNER MAILING ADDRESS 6488 7 Rivers Hwy				CITY Artesia	STATE NM	ZIP 88210	
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 38	SECONDS 3.45	N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND		
	LONGITUDE -103	49	57.98	W	* DATUM REQUIRED: WGS 84			
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE NE SE NE Sec.26 T19S R31E NMPM								
2. DRILLING & CASING INFORMATION	LICENSE NO. 1249		NAME OF LICENSED DRILLER Jackie D. Atkins			NAME OF WELL DRILLING COMPANY Atkins Engineering Associates, Inc.		
	DRILLING STARTED 4/6/23	DRILLING ENDED 4/6/23	DEPTH OF COMPLETED WELL (FT) Temporary Well Material		BORE HOLE DEPTH (FT) ±55	DEPTH WATER FIRST ENCOUNTERED (FT) N/A		
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)					STATIC WATER LEVEL IN COMPLETED WELL (FT) N/A	DATE STATIC MEASURED 4/18/23	
	DRILLING FLUID: <input type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input checked="" type="checkbox"/> OTHER - SPECIFY: Hollow Stem Auger					CHECK HERE IF PITLESS ADAPTER IS INSTALLED <input type="checkbox"/>		
	DEPTH (feet bgl) FROM TO		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	0	55	±6.25	Soil Boring	--	--	--	--
3. ANNULAR MATERIAL	DEPTH (feet bgl) FROM TO		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL		AMOUNT (cubic feet)	METHOD OF PLACEMENT	
				N/A				

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 01/28/2022)

FILE NO. CP-01939	POD NO. 1	TRN NO. 740305
LOCATION 19S.31E.26.242	WELL TAG ID NO.	PAGE 1 OF 2

	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES <b>(attach supplemental sheets to fully describe all units)</b>	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)	
	FROM	TO					
<b>4. HYDROGEOLOGIC LOG OF WELL</b>	0	4	4	Sand, fine-grained, poorly graded, unconsolidated, Tan	Y    ✓ N		
	4	20	16	Sand, fine-grained, poorly graded, semi-consolidated, Tan off white	Y    ✓ N		
	20	25	5	Clay, semi plastic, with fine-grained sand, gray/white	Y    ✓ N		
	25	40	15	Clay, Stiff, semi-plastic, gray/white	Y    ✓ N		
	40	55	15	Sand, fine/very fine-grained, poorly graded, unconsolidated, Tan	Y    ✓ N		
					Y    N		
					Y    N		
					Y    N		
					Y    N		
					Y    N		
					Y    N		
					Y    N		
					Y    N		
					Y    N		
					Y    N		
					Y    N		
					Y    N		
					Y    N		
	METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: <input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input type="checkbox"/> OTHER – SPECIFY:					TOTAL ESTIMATED WELL YIELD (gpm):	0.00
	<b>5. TEST; RIG SUPERVISION</b>	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.				
MISCELLANEOUS INFORMATION: Temporary well material removed and soil boring backfilled using drill cuttings from total depth to ten feet below ground surface(bgs), then hydrated bentonite chips ten feet bgs to surface. 6 Regulus 26 Fed 2 <div style="text-align: right;">USE ONLY APR 20 2023 PM 12</div>							
PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: Shane Eldridge, Cameron Pruitt							
<b>6. SIGNATURE</b>	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING: <div style="display: flex; justify-content: space-between;"><div></div><div>Jackie D. Atkins</div><div>4/27/23</div></div> <div style="display: flex; justify-content: space-between; margin-top: 10px;"><div>SIGNATURE OF DRILLER / PRINT SIGNEE NAME</div><div>DATE</div></div>						

FOR OSE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 01/28/2022)	
FILE NO. CP-01939	POD NO. 1	TRN NO. 740305	
LOCATION 195.31E.76.747-	WELL TAG ID NO.		PAGE 2 OF 2



## Spica 25 Fed 3H

API: 30-015-40220  
NAB1718649427  
Eddy County, NM  
CP-1939- Pod 1 Map

### Legend

- 0.41 Miles
- CP-1939 - POD 1
- Spica 25 Fed 3H

CP-1939 - POD 1

Spica 25 Fed 3H

Google Earth

Image © 2024 Airbus

Released to Imaging: 6/26/2024 8:13:54 AM



1000 ft





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

February 15, 2023

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

**Re: Site Assessment, Remediation, and Closure Report**  
**Spica 25 Fed 3H**  
**API No. 30-015-40220**  
**GPS: Latitude 32.6288948 Longitude -103.8301926**  
**UL -- L, 25, T19S, R31E**  
**Eddy County, NM**  
**NMOCD Ref. No. NAB1718649427**

Pima Environmental Services, LLC. (Pima) has been contracted by Devon Energy Production Company, LP (Devon) to perform a spill assessment, remediation activities, and submit this closure report for a produced water and crude oil release that occurred at the Spica 25 Fed 3H (Spica). The initial C-141 was submitted on June 27, 2017 (Appendix C). This incident was assigned Incident ID NAB1718649427 by the New Mexico Oil Conservation Division (NMOCD).

### Site Characterization

The Spica is located approximately twenty (20) miles southwest of Eunice, NM. This spill site is in Unit L, Section 25, Township 19S, Range 31E, Latitude 32.6288948 Longitude -103.8301926, Eddy County, NM. Figure 1 references a Location Map.

Per the New Mexico Bureau of Geology and Mineral Resources, the geology is made up of Eolian and piedmont 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 Wink loamy fine sand, 0 to 3 percent slopes 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 Spica (Figure 3).

According to the New Mexico Office of the State Engineer, depth to the nearest groundwater in this area is 130 feet below grade surface (BGS). According to the United States Geological Survey (USGS), the nearest groundwater is 650 feet BGS. The closest waterway is a Salt Playa located approximately 2.83 miles south of this location. See Appendix A for referenced water surveys.

Table 1 NMAC and Closure Criteria 19.15.29

Depth to Groundwater (Appendix A)	Constituent & Limits				
	Chlorides	Total TPH	GRO+DRO	BTEX	Benzene
<50' (Lack of GW data)	600 mg/kg	100 mg/kg		50 mg/kg	10 mg/kg
51-100'	10,000 mg/kg	2,500 mg/kg	1,000 mg/kg	50 mg/kg	10 mg/kg
>100'	20,000 mg/kg	2,500 mg/kg	1,000 mg/kg	50 mg/kg	10 mg/kg

Reference Figure 2 for a Topographic Map.

**Release Information**

**NAB1718649427:** On June 25, 2017, the cable on the rod rotator broke off and wrapped around the wellhead, when the wellhead went up it pulled the cable tight causing the ¼ inch valve to break, causing fluid release onto the pad. The released fluids were calculated to be approximately 14 barrels (bbls) of produced water and 2 barrels (bbls) of crude oil. Vacuum trucks were able to recover approximately 1.5 bbls of Crude oil and 6.5 bbls of produced water.

**Remediation Activities, Site Assessment, and Soil Sampling Results**

On September 21, 2022, Pima mobilized personnel to the site to begin collecting soil samples from the affected area. The laboratory results of this sampling event can be found in the following data table. A Site Map can be found in Figure 4.

9-21-22 Soil Sample Results

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is <50')								
DEVON ENERGY - SPICA 25 FED #3H								
Sample Date: 9/21/22		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
S-4	1'	ND	ND	ND	ND	ND	0	1450
	4'	ND	ND	ND	ND	ND	0	3300
	5'	ND	ND	ND	ND	ND	0	ND
S-5	1'	ND	ND	ND	ND	ND	0	1940
	4'	ND	ND	ND	ND	ND	0	1320
	5'	ND	ND	ND	ND	ND	0	ND
S-6	1'	ND	ND	ND	ND	ND	0	ND
S-7	1'	ND	ND	ND	ND	ND	0	24
S-8	1'	ND	ND	ND	ND	ND	0	33.5
S-9	1'	ND	ND	ND	39.6	ND	39.6	42.1
S-10	1'	ND	ND	ND	ND	ND	0	75.9
S-11	1'	ND	ND	ND	ND	ND	0	1130
	4'	ND	ND	ND	ND	ND	0	3730
	5'	ND	ND	ND	ND	ND	0	ND
SW 8	6"	ND	ND	ND	ND	ND	0	ND
SW 9	6"	ND	ND	ND	ND	ND	0	ND
SW 10	6"	ND	ND	ND	ND	ND	0	ND
SW 11	6"	ND	ND	ND	ND	ND	0	ND
SW 12	6"	ND	ND	ND	ND	ND	0	ND
SW 13	6"	ND	ND	ND	ND	ND	0	ND

ND- Analyte Not Detected

**Remediation Activities**

On January 16, 2023, the Devon Construction Department mobilized personnel and equipment to conduct remedial activities. They excavated the areas from S-4, S 5' and S 11' to a depth of 5' BGS. Pima personnel collected samples to verify all contaminated soil had been removed. The contaminated soil was hauled to an approved, lined disposal facility and clean backfill material was brought in.

On January 29, 2023, after sending a 48-hour notification (Appendix C), Pima began collecting confirmation samples of the affected areas. The laboratory results of this sampling event can be found in the following data table. A Confirmation Sample Map can be found in Figure 5.

1-29-23 Confirmation Samples Results

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is <50')								
DEVON ENERGY - SPICA 25 FED #3H								
Sample Date: 1/29/23		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
CS-1	5'	ND	ND	ND	ND	ND	0	ND
CS-2	5'	ND	ND	ND	ND	ND	0	ND
CS-3	5'	ND	ND	ND	ND	ND	0	ND
CS-4	5'	ND	ND	ND	ND	ND	0	ND
CS-5	5'	ND	ND	ND	ND	ND	0	ND
CS-6	5'	ND	ND	ND	ND	ND	0	ND
CS-7	5'	ND	ND	ND	ND	ND	0	ND
CS-8	5'	ND	ND	ND	ND	ND	0	ND
CS-9	5'	ND	ND	ND	ND	ND	0	ND
CS-10	5'	ND	ND	ND	ND	ND	0	ND
CS-11	5'	ND	ND	ND	ND	ND	0	ND
CS-12	5'	ND	ND	ND	ND	ND	0	ND
CS-13	5'	ND	ND	ND	ND	ND	0	ND
CS-14	5'	ND	ND	ND	ND	ND	0	ND
CS-15	5'	ND	ND	ND	ND	ND	0	ND
CS-16	5'	ND	ND	ND	ND	ND	0	ND
CS-17	5'	ND	ND	ND	ND	ND	0	ND
CS-18	5'	ND	ND	ND	ND	ND	0	ND
CSW-1	5'	ND	ND	ND	ND	ND	0	ND
CSW-2	5'	ND	ND	ND	ND	ND	0	ND
CSW-3	5'	ND	ND	ND	ND	ND	0	ND
CSW-4	5'	ND	ND	ND	ND	ND	0	ND

CS-5	5'	ND	ND	ND	ND	ND	0	ND
CS-6	5'	ND	ND	ND	ND	ND	0	ND
CS-7	5'	ND	ND	ND	ND	ND	0	ND
CS-8	5'	ND	ND	ND	ND	ND	0	ND
CS-9	5'	ND	ND	ND	ND	ND	0	ND
CS-10	5'	ND	ND	ND	ND	ND	0	ND
CS-11	5'	ND	ND	ND	ND	ND	0	ND
CS-12	5'	ND	ND	ND	ND	ND	0	ND
CS-13	5'	ND	ND	ND	ND	ND	0	ND
CS-14	5'	ND	ND	ND	ND	ND	0	ND
CS-15	5'	ND	ND	ND	ND	ND	0	ND
CS-16	5'	ND	ND	ND	ND	ND	0	ND
CS-17	5'	ND	ND	ND	ND	ND	0	ND
CS-18	5'	ND	ND	ND	ND	ND	0	ND
CSW-1	5'	ND	ND	ND	ND	ND	0	ND
CSW-2	5'	ND	ND	ND	ND	ND	0	ND
CSW-3	5'	ND	ND	ND	ND	ND	0	ND
CSW-4	5'	ND	ND	ND	ND	ND	0	ND
CSW-5	5'	ND	ND	ND	ND	ND	0	ND
CSW-6	5'	ND	ND	ND	ND	ND	0	ND
CSW-7	5'	ND	ND	ND	ND	ND	0	ND
CSW-8	5'	ND	ND	ND	ND	ND	0	ND
CSW-9	5'	ND	ND	ND	ND	ND	0	ND
CSW-10	5'	ND	ND	ND	ND	ND	0	ND
CSW-11	5'	ND	ND	ND	ND	ND	0	ND
CSW-12	5'	ND	ND	ND	ND	ND	0	ND
CSW-13	5'	ND	ND	ND	ND	ND	0	ND
CSW-14	5'	ND	ND	ND	ND	ND	0	ND
CSW-15	5'	ND	ND	ND	ND	ND	0	ND
CSW-16	5'	ND	ND	ND	ND	ND	0	ND
CSW-17	5'	ND	ND	ND	ND	ND	0	ND
CSW-18	5'	ND	ND	ND	ND	ND	0	ND
CSW-19	5'	ND	ND	ND	ND	ND	0	ND
CSW-20	5'	ND	ND	ND	ND	ND	0	ND
CSW-21	5'	ND	ND	ND	ND	ND	0	ND
CSW-22	5'	ND	ND	ND	ND	ND	0	ND
CSW-23	5'	ND	ND	ND	ND	ND	0	ND
CSW-24	5'	ND	ND	ND	ND	ND	0	ND
CSW-25	5'	ND	ND	ND	ND	ND	0	ND
CSW-26	5'	ND	ND	ND	ND	ND	0	ND
CSW-27	5'	ND	ND	ND	ND	ND	0	ND
CSW-28	5'	ND	ND	ND	ND	ND	0	ND
CSW-29	5'	ND	ND	ND	ND	ND	0	ND
CSW-30	5'	ND	ND	ND	ND	ND	0	ND
CSW-31	5'	ND	ND	ND	ND	ND	0	ND
CSW-32	5'	ND	ND	ND	ND	ND	0	ND
CSW-33	5'	ND	ND	ND	ND	ND	0	ND
CSW-34	5'	ND	ND	ND	ND	ND	0	ND
CSW-35	5'	ND	ND	ND	ND	ND	0	ND
CSW-36	5'	ND	ND	ND	ND	ND	0	ND

ND- Analyte Not Detected

Complete laboratory reports can be found in Appendix E.

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 an NMOCD approved disposal site. The excavation was then backfilled with clean like material, machine compacted and returned to its previous state. See Appendix D for Photographic Documentation.

### Closure Request

After careful review, Pima requests that this incident, NAB1718649427 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](mailto:gio@pimaoil.com).

**Attachments**

Figures:

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

Appendices:

- Appendix A – Referenced Water Surveys
- Appendix B – Soil Survey and Geological Data
- Appendix C – C-141 Form and 48 Hour Notification
- Appendix D – Photographic Documentation
- Appendix E – Laboratory Reports



Pima Environmental Services

**Figures:**

1-Location Map

2-Topographic Map

3-Karst Map

4-Site Map

5-Confirmation Sample Map

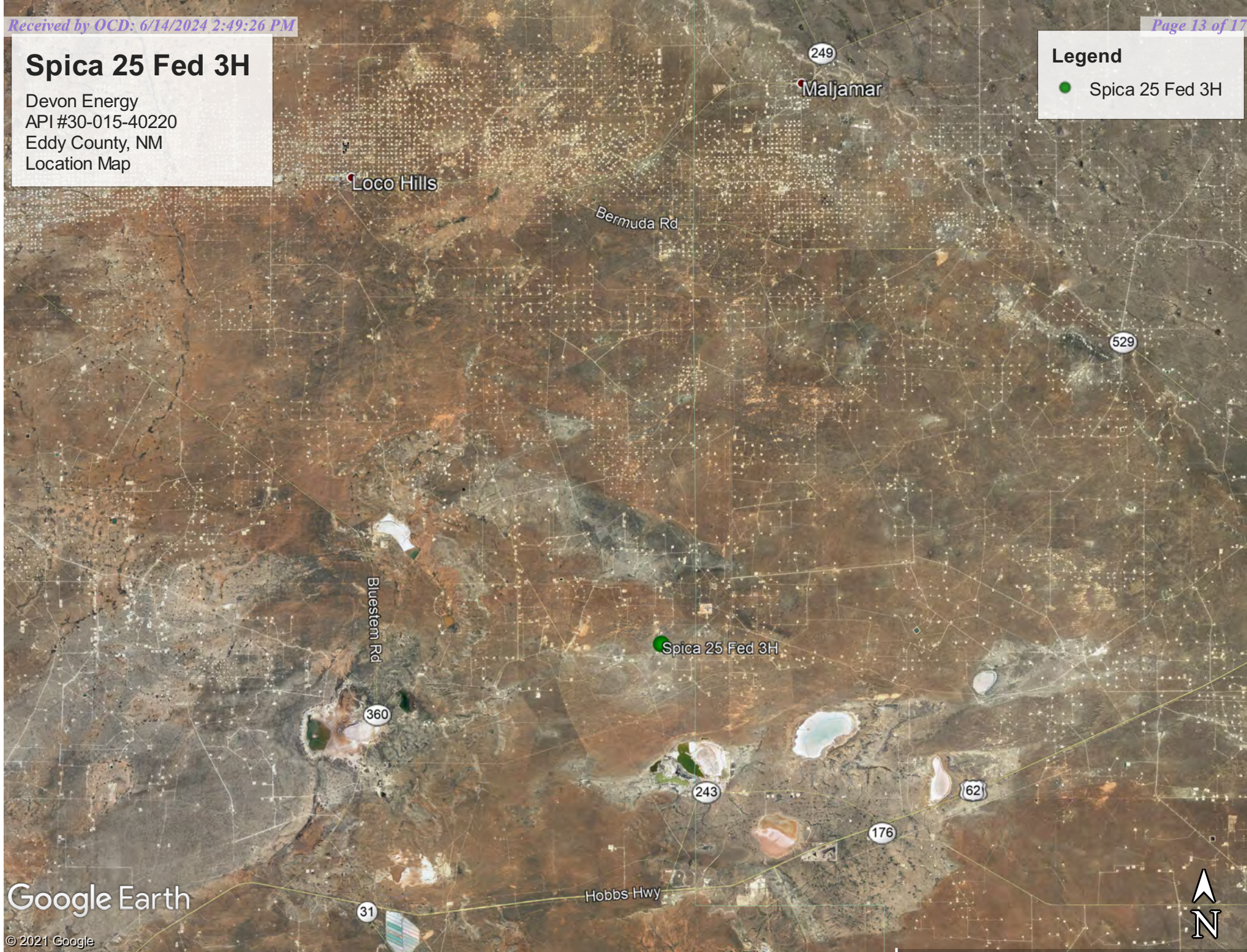


# Spica 25 Fed 3H

Devon Energy  
API #30-015-40220  
Eddy County, NM  
Location Map

## Legend

● Spica 25 Fed 3H



Google Earth

© 2021 Google

10 mi

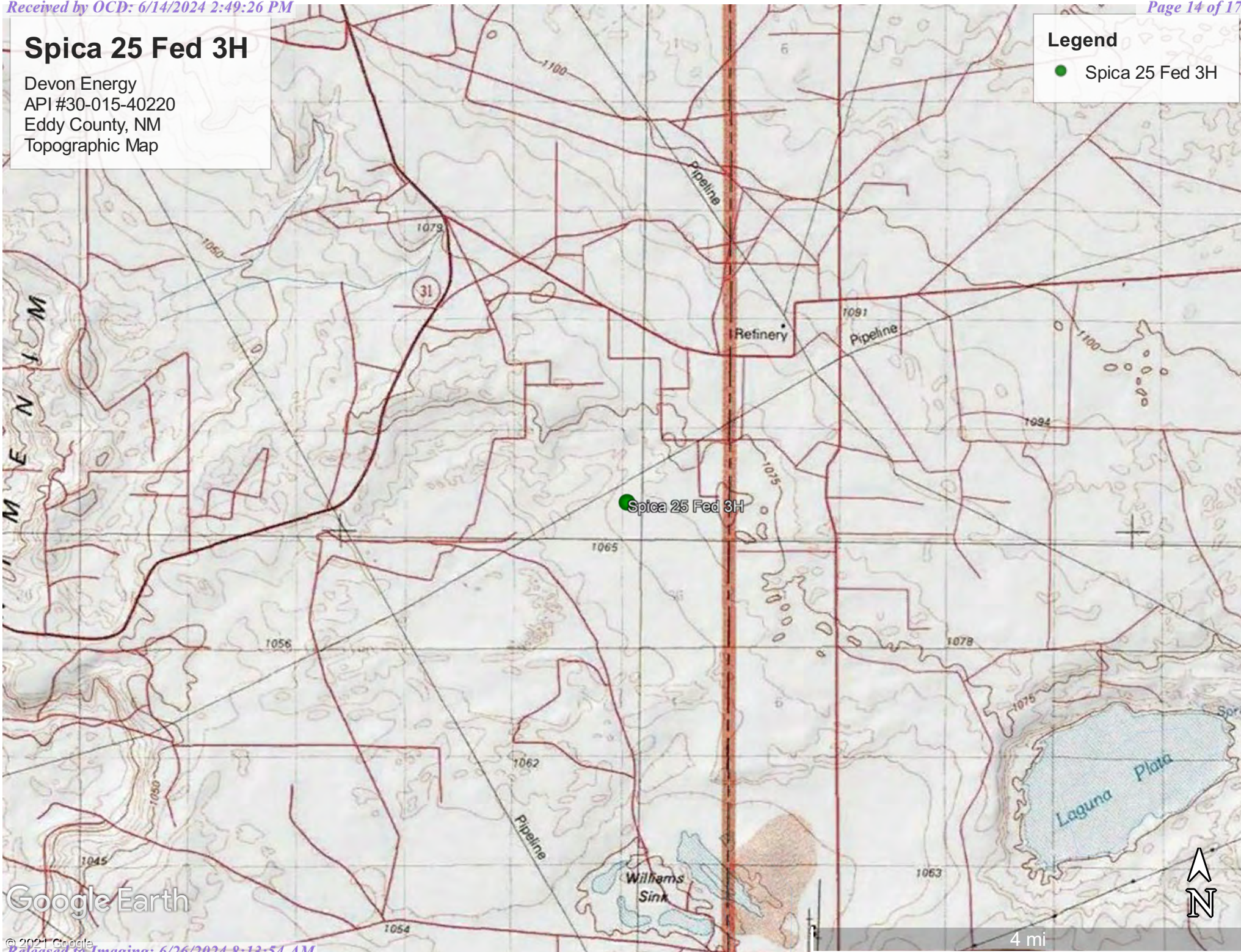


# Spica 25 Fed 3H

Devon Energy  
API #30-015-40220  
Eddy County, NM  
Topographic Map

## Legend

● Spica 25 Fed 3H



Google Earth



# Spica 25 Fed 3H

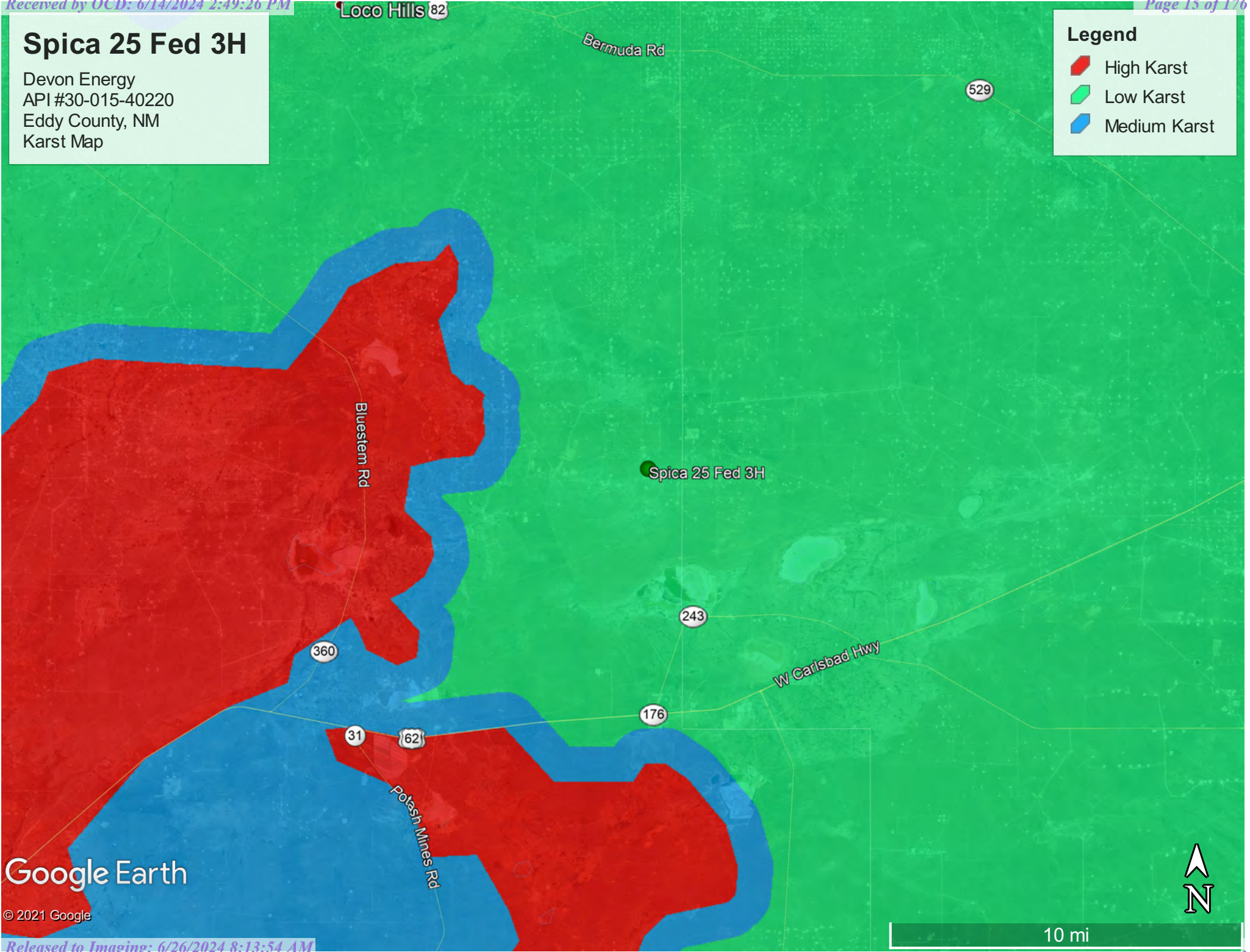
Devon Energy  
API #30-015-40220  
Eddy County, NM  
Karst Map

Legend

High Karst

Low Karst

Medium Karst



Google Earth

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# Spica 25 Fed 3H

Devon Energy  
API: 30-015-40220  
Eddy County, NM  
Site Map

## Legend

- Backgrounds/Sidewalls
- Samples
- 📌 Spica 25 Fed 3H
- Spill Area



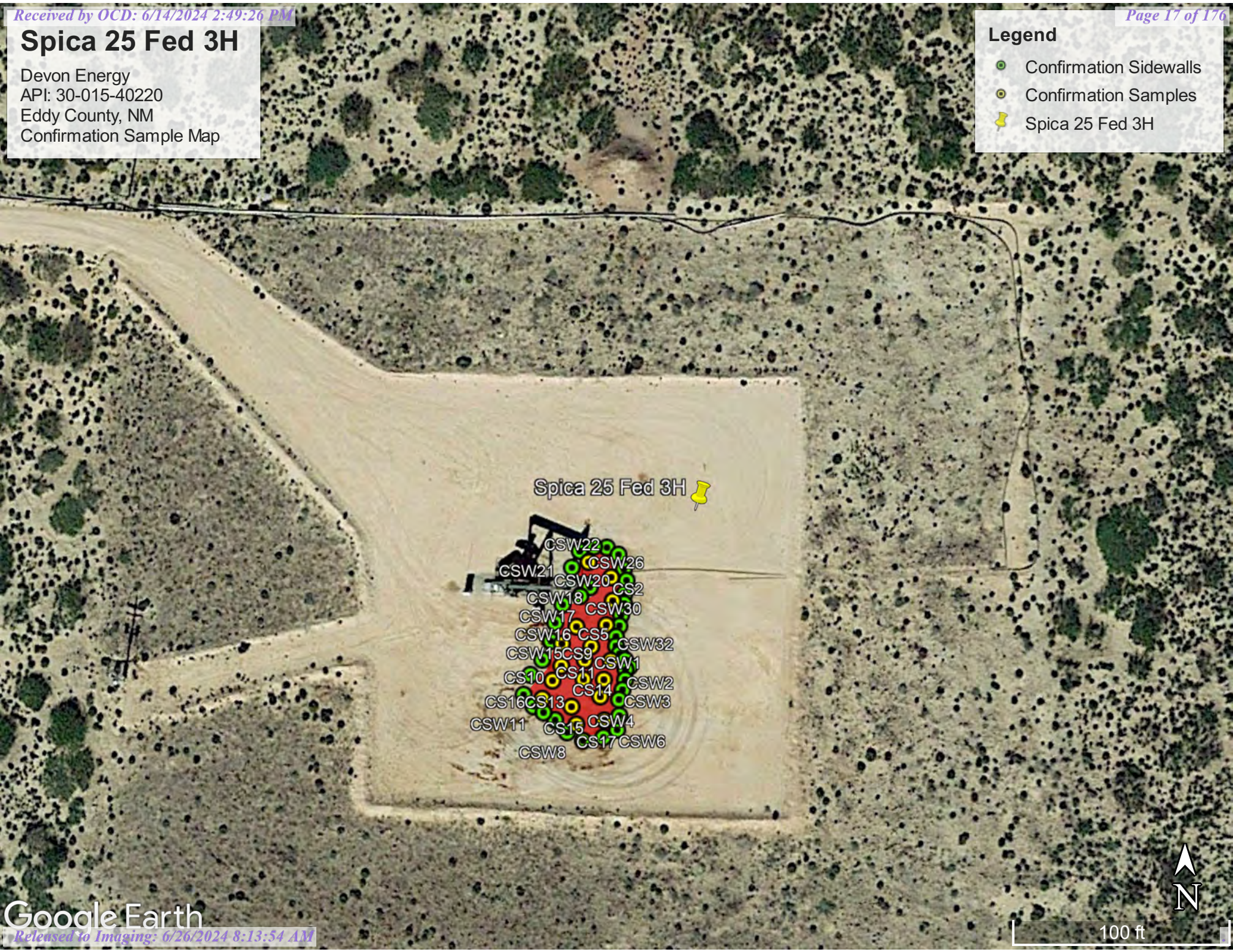
100 ft



# Spica 25 Fed 3H

Devon Energy  
API: 30-015-40220  
Eddy County, NM  
Confirmation Sample Map

- Legend
- Confirmation Sidewalls
  - Confirmation Samples
  - Spica 25 Fed 3H







Pima Environmental Services

**Appendix A**

Water Surveys:

OSE

USGS

Surface Water Map



# New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

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

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

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
<a href="#">CP 00641 POD1</a>		CP	ED	4	1	36	19S	31E		610247	3609634*	1260	300	130	170
<a href="#">CP 00642 POD1</a>		CP	ED	2	2	25	19S	31E		611025	3611657*	1586	250		
<a href="#">CP 00563 POD1</a>		CP	LE	1	1	2	19S	32E		612118	3613376*	3547	300		
<a href="#">CP 01554 POD2</a>		CP	LE	2	2	1	22	19S	31E	607165	3613322	3600	400		
<a href="#">CP 01554 POD1</a>		CP	LE	2	2	1	22	19S	31E	607166	3613354	3623	400		
<a href="#">CP 00640 POD1</a>		CP	LE	2	2	19	19S	32E		612621	3613280*	3843	260	102	158
<a href="#">CP 00639 POD1</a>		CP	LE	3	1	20	19S	32E		613029	3612880*	3932	350	345	5

Average Depth to Water: **192 feet**

Minimum Depth: **102 feet**

Maximum Depth: **345 feet**

**Record Count:** 7

### UTMNAD83 Radius Search (in meters):

**Easting (X):** 609707.96

**Northing (Y):** 3610773.1

**Radius:** 4000

\*UTM location was derived from PLSS - see Help

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

3/22/21 4:44 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER



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

## National Water Information System: Web Interface

USGS Water Resources

Data Category:

Groundwater

Geographic Area:

United States

GO

Click to hide News Bulletins

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

Groundwater levels for the Nation

\* IMPORTANT: [Next Generation Station Page](#)

### Search Results -- 1 sites found

site\_no list =

- 323712103491001

Minimum number of levels = 1

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

### USGS 323712103491001 19S.32E.31.114

Available data for this site

Groundwater: Field measurements

GO

Lea County, New Mexico

Hydrologic Unit Code 13060011

Latitude 32°37'12", Longitude 103°49'10" NAD27

Land-surface elevation 3,497 feet above NAVD88

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

#### Output formats

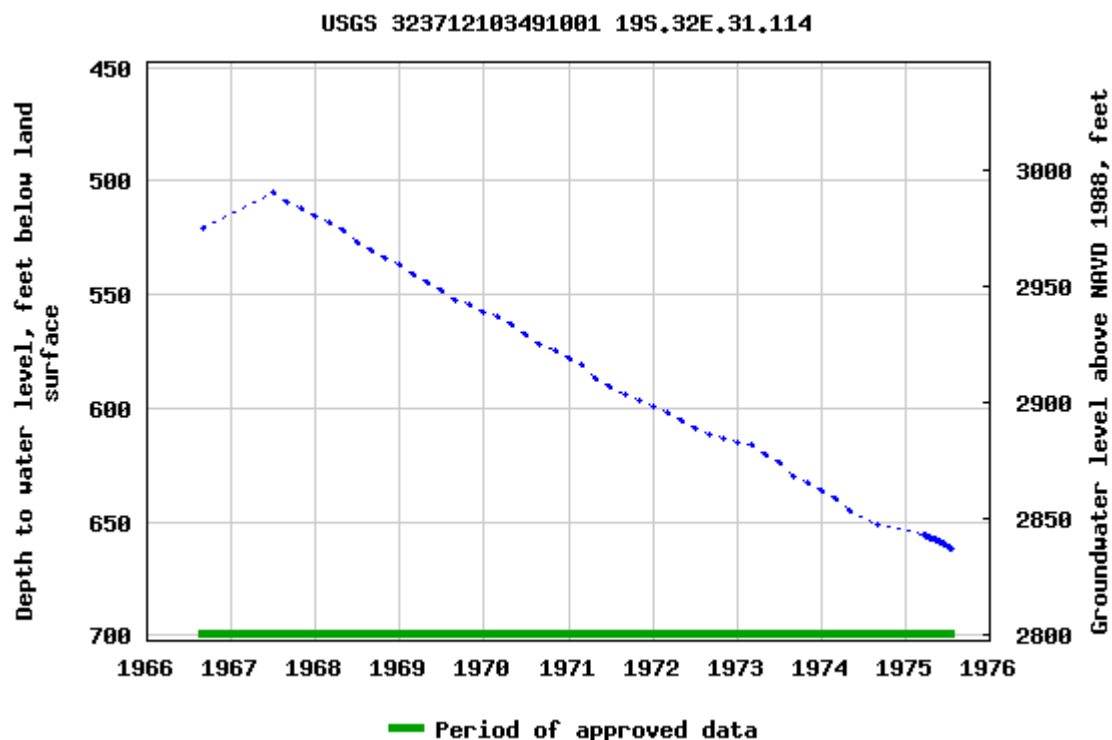
[Table of data](#)

[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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[U.S. Department of the Interior](#) | [U.S. Geological Survey](#)

**Title: Groundwater for USA: Water Levels**

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



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

Page Last Modified: 2021-04-12 13:14:08 EDT



0.72 0.63 nadww01



# Spica 25 Fed 3H

Devon Energy  
API #30-015-40220  
Eddy County, NM  
Surface Water Map

## Legend

-  2.83 Miles
-  Playa

Spica 25 Fed 3H

Playa

Google Earth

243

4 mi







Pima Environmental Services

**Appendix B**

Soil Survey & Geological Data

FEMA Flood Map

Wetlands Map

Map Unit Description: Wink loamy fine sand, 0 to 3 percent slopes, eroded---Eddy Area, New Mexico

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## Eddy Area, New Mexico

### WK—Wink loamy fine sand, 0 to 3 percent slopes, eroded

#### Map Unit Setting

*National map unit symbol:* 1w6c

*Elevation:* 2,700 to 5,000 feet

*Mean annual precipitation:* 5 to 14 inches

*Mean annual air temperature:* 57 to 70 degrees F

*Frost-free period:* 180 to 250 days

*Farmland classification:* Not prime farmland

#### Map Unit Composition

*Wink and similar soils:* 98 percent

*Minor components:* 2 percent

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

#### Description of Wink

##### Setting

*Landform:* Depressions, swales

*Landform position (three-dimensional):* Talf

*Down-slope shape:* Convex

*Across-slope shape:* Convex

*Parent material:* Mixed alluvium and/or eolian sands

##### Typical profile

*H1 - 0 to 8 inches:* loamy fine sand

*H2 - 8 to 38 inches:* fine sandy loam

*H3 - 38 to 60 inches:* fine sandy loam

##### Properties and qualities

*Slope:* 0 to 3 percent

*Depth to restrictive feature:* More than 80 inches

*Natural drainage class:* Well drained

*Runoff class:* Very low

*Capacity of the most limiting layer to transmit water (Ksat):* High  
(2.00 to 6.00 in/hr)

*Depth to water table:* More than 80 inches

*Frequency of flooding:* None

*Frequency of ponding:* None

*Calcium carbonate, maximum in profile:* 30 percent

*Salinity, maximum in profile:* Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

*Sodium adsorption ratio, maximum in profile:* 1.0

*Available water storage in profile:* Low (about 5.7 inches)

##### Interpretive groups

*Land capability classification (irrigated):* None specified

*Land capability classification (nonirrigated):* 7e

*Hydrologic Soil Group:* A

Map Unit Description: Wink loamy fine sand, 0 to 3 percent slopes, eroded---Eddy Area, New Mexico

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*Ecological site:* Loamy Sand (R042XC003NM)  
*Hydric soil rating:* No

#### **Minor Components**

##### **Simona**

*Percent of map unit:* 1 percent  
*Ecological site:* Shallow Sandy (R042XC002NM)  
*Hydric soil rating:* No

##### **Wink**

*Percent of map unit:* 1 percent  
*Ecological site:* Sandy (R042XC004NM)  
*Hydric soil rating:* No

## **Data Source Information**

Soil Survey Area: Eddy Area, New Mexico  
Survey Area Data: Version 15, Sep 15, 2019

# National Flood Hazard Layer FIRMMette



103°50'8"W 32°37'59"N



### Legend

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

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

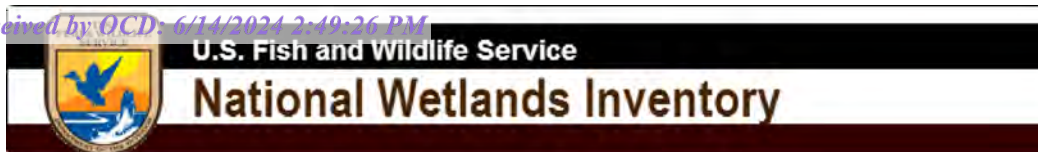
The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

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

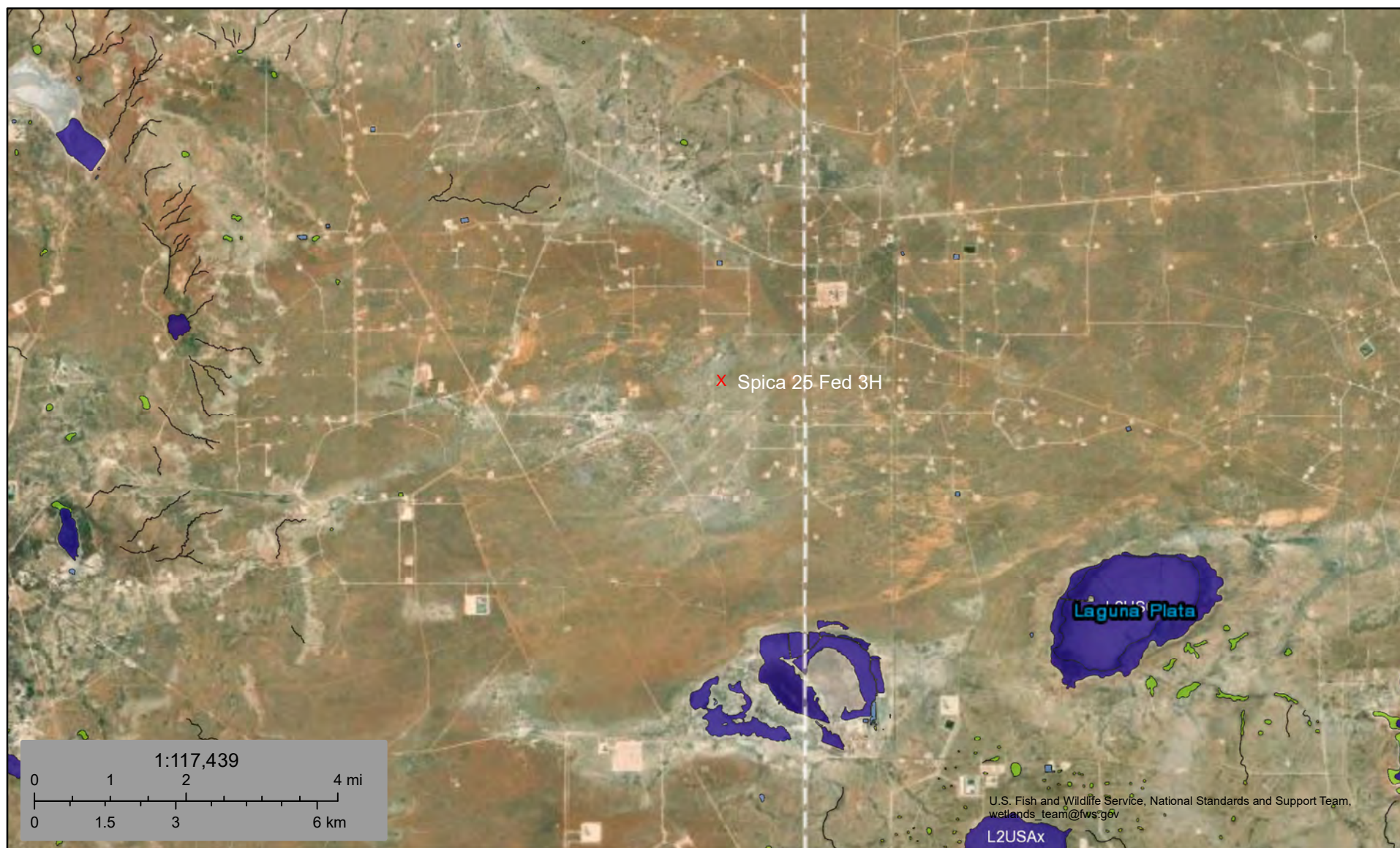
The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 4/12/2021 at 1:17 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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





## Wetlands Map



December 13, 2022

**Wetlands**

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

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

- Lake
- Other
- Riverine

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



Pima Environmental Services

**Appendix C**

C-141

48 Hour Notification



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

**NM OIL CONSERVATION**  
State of New Mexico  
ARTESIA DISTRICT  
Energy Minerals and Natural Resources  
Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-141  
Revised August 8, 2011

JUN 29 2017

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

RECEIVED

### Release Notification and Corrective Action

NAB1718649427

#### OPERATOR

☒ Initial Report ☐

**Name of Company** Devon Energy Production Company **6137** **Contact** Danny Velo, Production Foreman  
**Address** 6488 Seven Rivers Hwy Artesia, NM 88210 **Telephone No.** 575-703-3360  
**Facility Name** Spica 25 Fed 3H **Facility Type** Oil

**Surface Owner** Federal **Mineral Owner** Federal **API No** 30-015-40220

#### LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
L	25	19S	31E	1700'	FSL	340'	FWL	Eddy

Latitude: 32.6288948

Longitude: 103.8301926

#### NATURE OF RELEASE

<b>Type of Release</b> Oil & Produced Water	<b>Volume of Release</b> 2bbls oil & 14bbls produced water	<b>Volume Recovered</b> 1.5bbls oil & 6.5bbls produced water
<b>Source of Release</b> ¼ inch valve	<b>Date and Hour of Occurrence</b> June 25, 2017 @ 11:30 AM	<b>Date and Hour of Discovery</b> June 25, 2017 @ 11:30 AM
<b>Was Immediate Notice Given?</b> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	<b>If YES, To Whom?</b> Shelly Tucker, BLM Mike Bratcher, OCD	
<b>By Whom?</b> Jesse Armendariz, Asst. Production Foreman	<b>Date and Hour</b> Shelly Tucker, BLM June 25, 2017 @ 2:45 PM Mike Bratcher, OCD June 25, 2017 @ 2:13 PM	
<b>Was a Watercourse Reached?</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<b>If YES, Volume Impacting the Watercourse</b> N/A	

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

#### **Describe Cause of Problem and Remedial Action Taken.\***

The cable on the rod rotator broke off and wrapped around the wellhead, when the wellhead went up it pulled the cable tight causing the ¼ inch valve to break. The unit was immediately shut off and the 1" valve coming off the pumping T was shut off and the 2" valve on the backside of the casing was closed to stop the release.

#### **Describe Area Affected and Cleanup Action Taken.\***

Approximately 2bbls oil and 14bbls produced water were released. The release originated on location and sprayed in a South to Southeastern direction into the pasture in an approximate 5' x 5' area. A vacuum truck was dispatched and recovered approximately 1.5bbls oil & 6.5bbls produced water. An environmental contractor will be contacted to assist with delineation and remediation.

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

Signature: <i>Sheila Fisher</i>		<b>OIL CONSERVATION DIVISION</b>	
Printed Name: Sheila Fisher		Approved by Environmental Specialist: <i>Crystal W...</i>	
Title: Field Admin Support		Approval Date: <i>7/3/17</i>	Expiration Date: <i>N/A</i>
E-mail Address: <i>Sheila.fisher@dm.com</i>		Conditions of Approval: <i>see attached</i>	
Date: 6/27/17	Phone: 575.748.1829	Attached <input checked="" type="checkbox"/>	

\* Attach Additional Sheets If Necessary

2RP-427B

Please refer to the New Mexico Oil  
Conservation Division Website for  
updated form(s) at:  
[http://www.emnrd.state.nm.us/  
OCD/forms.html](http://www.emnrd.state.nm.us/OCD/forms.html)

Thank you

Operator/Responsible Party,

The OCD has received the form C-141 you provided on **6/29/17** regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number 2RP-421B has been assigned. **Please refer to this case number in all future correspondence.**

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

*The responsible person shall complete division-approved corrective action for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC. [emphasis added]*

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. **As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District II office in Artesia on or before 7/29/17. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.**

The goals of a characterization effort are: 1) determination of the lateral and vertical extents along with the magnitude of soil contamination. 2) determine if groundwater or surface waters have been impacted. 3) If groundwater or surface waters have been impacted, what are the extents and magnitude of that impact. 4) The characterization of any other adverse impacts that may have occurred (examples: impacts on vegetation, impacts on wildlife, air quality, loss of use of property, etc.). To meet these goals as quickly as possible, the following items must, at a minimum, be addressed in the release characterization workplan and subsequent reporting:

- Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C<sub>6</sub> thru C<sub>36</sub>), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.
- Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C<sub>6</sub> thru C<sub>36</sub>), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.
- Nominal detection limits for field and laboratory analyses must be provided.
- Composite sampling is not generally allowed.
- Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

for laboratory analysis from each borehole or test pit (highest observed contamination and deepest depth investigated). Copies of the actual laboratory results must be provided including chain of custody documentation.

- Probable depth to shallowest protectable groundwater and lateral distance to nearest surface water. If there is an estimate of groundwater depth, the information used to arrive at that estimate must be provided. If there is a reasonable assumption that the depth to protectable water is 50 feet or less, the responsible party should anticipate the need for at least one groundwater monitoring well to be installed in the area of likely maximum contamination.

- If groundwater contamination is encountered, an additional investigation workplan may be required to determine the extents of that contamination. Groundwater and/or surface water samples, if any, must be analyzed by a competent laboratory for volatile organic hydrocarbons (typically Method 8260 full list), total dissolved solids, pH, major anions and cations including chloride and sulfate, dissolved iron, and dissolved manganese. The investigation workplan must provide the groundwater sampling method(s) and sample handling protocols. To the fullest extent possible, aqueous analyses must be undertaken using nominal method detection limits. As with the soil analyses, copies of the actual laboratory results must be provided including chain of custody documentation.

- Accurately scaled and well-drafted site maps must be provided providing the location of borings, test pits, monitoring wells, potentially impacted areas, and significant surface features including roads and site infrastructure that might limit either the release characterization or remedial efforts. Field sketches may be included in subsequent reporting, but should not be considered stand-alone documentation of the site's layout. Digital photographic documentation of the location and fieldwork is recommended, especially if unusual circumstances are encountered.

**Nothing herein should be interpreted to preclude emergency response actions or to imply immediate remediation by removal cannot proceed as warranted. Nonetheless, characterization of impacts and confirmation of the effectiveness of remedial efforts must still be provided to the OCD before any release incident will be closed.**

**Jim Griswold**

OCD Environmental Bureau Chief

1220 South St. Francis Drive

Santa Fe, New Mexico 87505

505-476-3465

[jjim.griswold@state.nm.us](mailto:jjim.griswold@state.nm.us)

Incident ID	NAB1718649427
District RP	
Facility ID	
Application ID	

## Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	>50 (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

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

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

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

State of New Mexico  
Oil Conservation Division

Page 4

Incident ID	NABI718649427
District RP	
Facility ID	
Application ID	

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

Printed Name: Wesley Mathews Title: EHS Professional

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

email: wesley.mathews@dm.com Telephone: 575-578-6195

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

Incident ID	NAB1718649427
District RP	
Facility ID	
Application ID	

## Closure

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

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

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

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

Printed Name: Wesley Mathews Title: EHS Professional

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

email: wesley.mathews@dvn.com Telephone: 575-578-6195

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

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

Closure Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

Printed Name: \_\_\_\_\_ Title: \_\_\_\_\_

Closure not approved 03/10/2023



Gio PimaOil <gio@pimaoil.com>

---

## Confirmation of Sampling Spica 25 Fed 3H

1 message

---

Gio PimaOil <gio@pimaoil.com>

Thu, Jan 26, 2023 at 2:31 PM

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

*Good Afternoon,*

*Pima Environmental would like to notify you that we will begin collecting confirmation samples at the Spica 25 Federal 3H for incidents NAB1718649427 & NAPP225823991. Pima personnel are scheduled to be on site for this sampling event at approximately 8:00 a.m. on Sunday, January 29, 2023. If you have any questions or concerns, please let me know. Thank you.*

--

Gio Gomez

Project Manager

cell-806-782-1151

Office- 575-964-7740

**Pima Environmental Services, LLC.**



Pima Environmental Services

## **Appendix D**

Photographic Documentation





**SITE PHOTOGRAPHS**  
**DEVON ENERGY**  
**SPICA 25 FED 3H**

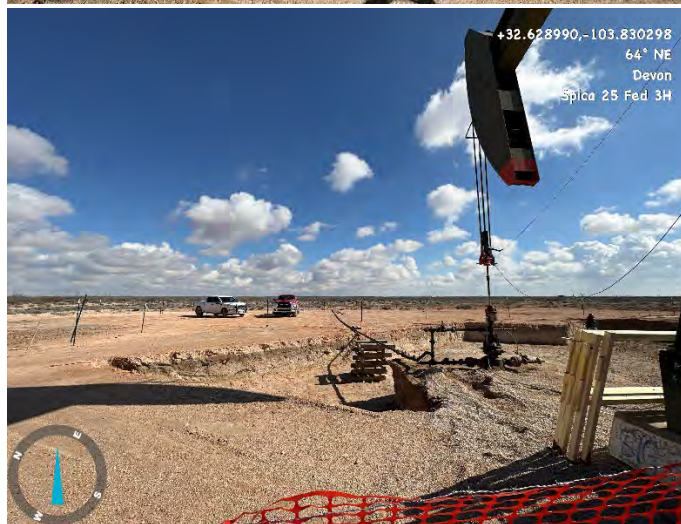
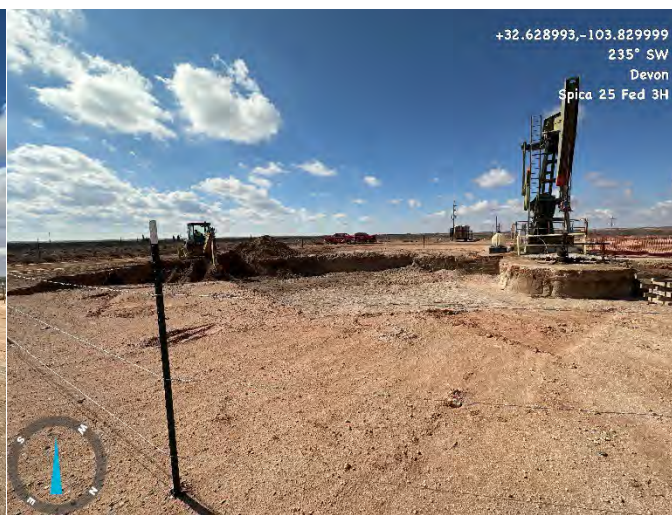
**Pre-Excavation**



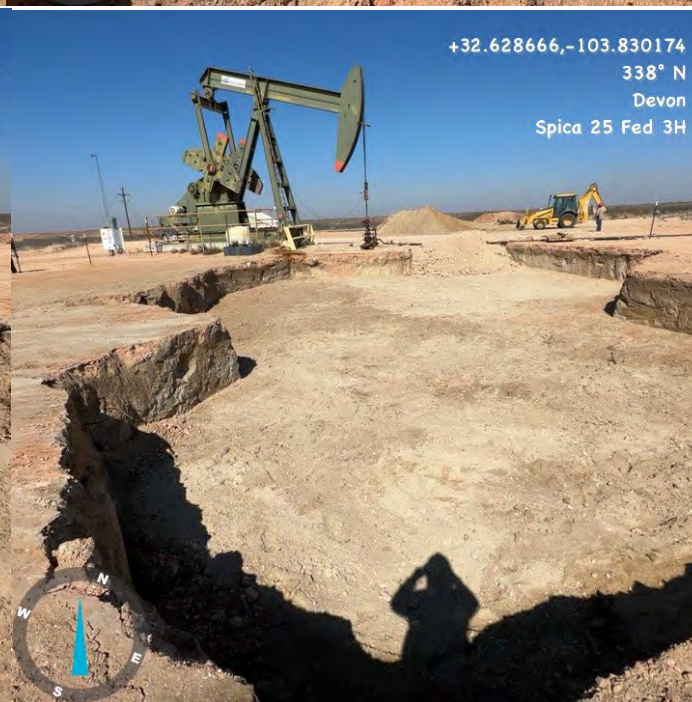




Excavation











#### Post Excavation









Pima Environmental Services

## **Appendix E**

Laboratory Reports

Report to:  
Tom Bynum



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Pima Environmental Services-Carlsbad

Project Name: Spica 25 Fed 3H

Work Order: E209135

Job Number: 01058-0007

Received: 9/23/2022

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
9/29/22

5796 U.S. Hwy 64  
Farmington, NM 87401

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



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

Date Reported: 9/29/22

Tom Bynum  
PO Box 247  
Plains, TX 79355-0247



Project Name: Spica 25 Fed 3H  
Workorder: E209135  
Date Received: 9/23/2022 10:30:00AM

Tom Bynum,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/23/2022 10:30:00AM, under the Project Name: Spica 25 Fed 3H.

The analytical test results summarized in this report with the Project Name: Spica 25 Fed 3H 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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**Rayny Hagan**  
Technical Representative  
Office: 505-421-LABS(5227)

Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)



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## Sample Summary

Pima Environmental Services-Carlsbad	Project Name:	Spica 25 Fed 3H	Reported: 09/29/22 16:39
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
S.4 1'	E209135-01A	Soil	09/21/22	09/23/22	Glass Jar, 4 oz.
S.4 4'	E209135-02A	Soil	09/21/22	09/23/22	Glass Jar, 4 oz.
S.4 5'	E209135-03A	Soil	09/21/22	09/23/22	Glass Jar, 4 oz.
S.5 1'	E209135-04A	Soil	09/21/22	09/23/22	Glass Jar, 4 oz.
S.5 4'	E209135-05A	Soil	09/21/22	09/23/22	Glass Jar, 4 oz.
S.5 5'	E209135-06A	Soil	09/21/22	09/23/22	Glass Jar, 4 oz.
S.6 1'	E209135-07A	Soil	09/21/22	09/23/22	Glass Jar, 4 oz.
S.7 1'	E209135-08A	Soil	09/21/22	09/23/22	Glass Jar, 4 oz.
S.8 1'	E209135-09A	Soil	09/21/22	09/23/22	Glass Jar, 4 oz.
S.9 1'	E209135-10A	Soil	09/21/22	09/23/22	Glass Jar, 4 oz.
S.10 1'	E209135-11A	Soil	09/21/22	09/23/22	Glass Jar, 4 oz.
S.11 1'	E209135-12A	Soil	09/21/22	09/23/22	Glass Jar, 4 oz.
S.11 4'	E209135-13A	Soil	09/21/22	09/23/22	Glass Jar, 4 oz.
S.11 5'	E209135-14A	Soil	09/21/22	09/23/22	Glass Jar, 4 oz.
SW8	E209135-15A	Soil	09/21/22	09/23/22	Glass Jar, 4 oz.
SW9	E209135-16A	Soil	09/21/22	09/23/22	Glass Jar, 4 oz.
SW10	E209135-17A	Soil	09/21/22	09/23/22	Glass Jar, 4 oz.
SW11	E209135-18A	Soil	09/21/22	09/23/22	Glass Jar, 4 oz.
SW12	E209135-19A	Soil	09/21/22	09/23/22	Glass Jar, 4 oz.
SW13	E209135-20A	Soil	09/21/22	09/23/22	Glass Jar, 4 oz.



## Sample Data

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

Project Name: Spica 25 Fed 3H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
9/29/2022 4:39:24PM

**S.4 1'**  
**E209135-01**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2239114
Benzene	ND	0.0250	1	09/23/22	09/27/22	
Ethylbenzene	ND	0.0250	1	09/23/22	09/27/22	
Toluene	ND	0.0250	1	09/23/22	09/27/22	
o-Xylene	ND	0.0250	1	09/23/22	09/27/22	
p,m-Xylene	ND	0.0500	1	09/23/22	09/27/22	
Total Xylenes	ND	0.0250	1	09/23/22	09/27/22	
Surrogate: Bromofluorobenzene	99.5 %	70-130		09/23/22	09/27/22	
Surrogate: 1,2-Dichloroethane-d4	98.8 %	70-130		09/23/22	09/27/22	
Surrogate: Toluene-d8	105 %	70-130		09/23/22	09/27/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2239114
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/23/22	09/27/22	
Surrogate: Bromofluorobenzene	99.5 %	70-130		09/23/22	09/27/22	
Surrogate: 1,2-Dichloroethane-d4	98.8 %	70-130		09/23/22	09/27/22	
Surrogate: Toluene-d8	105 %	70-130		09/23/22	09/27/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2240015
Diesel Range Organics (C10-C28)	ND	25.0	1	09/27/22	09/28/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/27/22	09/28/22	
Surrogate: n-Nonane	98.5 %	50-200		09/27/22	09/28/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2240006
Chloride	1450	20.0	1	09/26/22	09/28/22	





## Sample Data

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

Project Name: Spica 25 Fed 3H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
9/29/2022 4:39:24PM

S.4 4'

E209135-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2239114
Benzene	ND	0.0250	1	09/23/22	09/27/22	
Ethylbenzene	ND	0.0250	1	09/23/22	09/27/22	
Toluene	ND	0.0250	1	09/23/22	09/27/22	
o-Xylene	ND	0.0250	1	09/23/22	09/27/22	
p,m-Xylene	ND	0.0500	1	09/23/22	09/27/22	
Total Xylenes	ND	0.0250	1	09/23/22	09/27/22	
Surrogate: Bromofluorobenzene	98.4 %	70-130		09/23/22	09/27/22	
Surrogate: 1,2-Dichloroethane-d4	95.3 %	70-130		09/23/22	09/27/22	
Surrogate: Toluene-d8	104 %	70-130		09/23/22	09/27/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2239114
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/23/22	09/27/22	
Surrogate: Bromofluorobenzene	98.4 %	70-130		09/23/22	09/27/22	
Surrogate: 1,2-Dichloroethane-d4	95.3 %	70-130		09/23/22	09/27/22	
Surrogate: Toluene-d8	104 %	70-130		09/23/22	09/27/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2240015
Diesel Range Organics (C10-C28)	ND	25.0	1	09/27/22	09/28/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/27/22	09/28/22	
Surrogate: n-Nonane	102 %	50-200		09/27/22	09/28/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2240006
Chloride	3300	40.0	2	09/26/22	09/28/22	



## Sample Data

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

Project Name: Spica 25 Fed 3H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
9/29/2022 4:39:24PM

S.4 5'

E209135-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2239114
Benzene	ND	0.0250	1	09/23/22	09/27/22	
Ethylbenzene	ND	0.0250	1	09/23/22	09/27/22	
Toluene	ND	0.0250	1	09/23/22	09/27/22	
o-Xylene	ND	0.0250	1	09/23/22	09/27/22	
p,m-Xylene	ND	0.0500	1	09/23/22	09/27/22	
Total Xylenes	ND	0.0250	1	09/23/22	09/27/22	
Surrogate: Bromofluorobenzene	95.9 %	70-130		09/23/22	09/27/22	
Surrogate: 1,2-Dichloroethane-d4	96.0 %	70-130		09/23/22	09/27/22	
Surrogate: Toluene-d8	106 %	70-130		09/23/22	09/27/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2239114
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/23/22	09/27/22	
Surrogate: Bromofluorobenzene	95.9 %	70-130		09/23/22	09/27/22	
Surrogate: 1,2-Dichloroethane-d4	96.0 %	70-130		09/23/22	09/27/22	
Surrogate: Toluene-d8	106 %	70-130		09/23/22	09/27/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2240015
Diesel Range Organics (C10-C28)	ND	25.0	1	09/27/22	09/28/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/27/22	09/28/22	
Surrogate: n-Nonane	97.5 %	50-200		09/27/22	09/28/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2240006
Chloride	ND	20.0	1	09/26/22	09/28/22	



## Sample Data

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

Project Name: Spica 25 Fed 3H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
9/29/2022 4:39:24PM

S.5 1'

E209135-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2239114
Benzene	ND	0.0250	1	09/23/22	09/27/22	
Ethylbenzene	ND	0.0250	1	09/23/22	09/27/22	
Toluene	ND	0.0250	1	09/23/22	09/27/22	
o-Xylene	ND	0.0250	1	09/23/22	09/27/22	
p,m-Xylene	ND	0.0500	1	09/23/22	09/27/22	
Total Xylenes	ND	0.0250	1	09/23/22	09/27/22	
Surrogate: Bromofluorobenzene	96.9 %	70-130		09/23/22	09/27/22	
Surrogate: 1,2-Dichloroethane-d4	94.0 %	70-130		09/23/22	09/27/22	
Surrogate: Toluene-d8	106 %	70-130		09/23/22	09/27/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2239114
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/23/22	09/27/22	
Surrogate: Bromofluorobenzene	96.9 %	70-130		09/23/22	09/27/22	
Surrogate: 1,2-Dichloroethane-d4	94.0 %	70-130		09/23/22	09/27/22	
Surrogate: Toluene-d8	106 %	70-130		09/23/22	09/27/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2240015
Diesel Range Organics (C10-C28)	ND	25.0	1	09/27/22	09/28/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/27/22	09/28/22	
Surrogate: n-Nonane	101 %	50-200		09/27/22	09/28/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2240006
Chloride	1940	40.0	2	09/26/22	09/28/22	





## Sample Data

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

Project Name: Spica 25 Fed 3H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
9/29/2022 4:39:24PM

S.5 4'

E209135-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2239114
Benzene	ND	0.0250	1	09/23/22	09/27/22	
Ethylbenzene	ND	0.0250	1	09/23/22	09/27/22	
Toluene	ND	0.0250	1	09/23/22	09/27/22	
o-Xylene	ND	0.0250	1	09/23/22	09/27/22	
p,m-Xylene	ND	0.0500	1	09/23/22	09/27/22	
Total Xylenes	ND	0.0250	1	09/23/22	09/27/22	
Surrogate: Bromofluorobenzene	97.8 %	70-130		09/23/22	09/27/22	
Surrogate: 1,2-Dichloroethane-d4	96.4 %	70-130		09/23/22	09/27/22	
Surrogate: Toluene-d8	105 %	70-130		09/23/22	09/27/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2239114
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/23/22	09/27/22	
Surrogate: Bromofluorobenzene	97.8 %	70-130		09/23/22	09/27/22	
Surrogate: 1,2-Dichloroethane-d4	96.4 %	70-130		09/23/22	09/27/22	
Surrogate: Toluene-d8	105 %	70-130		09/23/22	09/27/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2240015
Diesel Range Organics (C10-C28)	ND	25.0	1	09/27/22	09/28/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/27/22	09/28/22	
Surrogate: n-Nonane	102 %	50-200		09/27/22	09/28/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2240006
Chloride	1320	20.0	1	09/26/22	09/28/22	



## Sample Data

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

Project Name: Spica 25 Fed 3H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
9/29/2022 4:39:24PM

S.5 5'

E209135-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2239114
Benzene	ND	0.0250	1	09/23/22	09/27/22	
Ethylbenzene	ND	0.0250	1	09/23/22	09/27/22	
Toluene	ND	0.0250	1	09/23/22	09/27/22	
o-Xylene	ND	0.0250	1	09/23/22	09/27/22	
p,m-Xylene	ND	0.0500	1	09/23/22	09/27/22	
Total Xylenes	ND	0.0250	1	09/23/22	09/27/22	
Surrogate: Bromofluorobenzene	97.5 %	70-130		09/23/22	09/27/22	
Surrogate: 1,2-Dichloroethane-d4	91.7 %	70-130		09/23/22	09/27/22	
Surrogate: Toluene-d8	106 %	70-130		09/23/22	09/27/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2239114
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/23/22	09/27/22	
Surrogate: Bromofluorobenzene	97.5 %	70-130		09/23/22	09/27/22	
Surrogate: 1,2-Dichloroethane-d4	91.7 %	70-130		09/23/22	09/27/22	
Surrogate: Toluene-d8	106 %	70-130		09/23/22	09/27/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2240015
Diesel Range Organics (C10-C28)	ND	25.0	1	09/27/22	09/28/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/27/22	09/28/22	
Surrogate: n-Nonane	103 %	50-200		09/27/22	09/28/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2240006
Chloride	ND	20.0	1	09/26/22	09/28/22	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Spica 25 Fed 3H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 9/29/2022 4:39:24PM
-----------------------------------------------------------------------------	-------------------------------------------------------------------------------------------	----------------------------------

S.6 1'

E209135-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2239114	
Benzene	ND	0.0250	1	09/23/22	09/27/22	
Ethylbenzene	ND	0.0250	1	09/23/22	09/27/22	
Toluene	ND	0.0250	1	09/23/22	09/27/22	
o-Xylene	ND	0.0250	1	09/23/22	09/27/22	
p,m-Xylene	ND	0.0500	1	09/23/22	09/27/22	
Total Xylenes	ND	0.0250	1	09/23/22	09/27/22	
Surrogate: Bromofluorobenzene	97.4 %	70-130		09/23/22	09/27/22	
Surrogate: 1,2-Dichloroethane-d4	91.9 %	70-130		09/23/22	09/27/22	
Surrogate: Toluene-d8	107 %	70-130		09/23/22	09/27/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2239114	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/23/22	09/27/22	
Surrogate: Bromofluorobenzene	97.4 %	70-130		09/23/22	09/27/22	
Surrogate: 1,2-Dichloroethane-d4	91.9 %	70-130		09/23/22	09/27/22	
Surrogate: Toluene-d8	107 %	70-130		09/23/22	09/27/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: JL		Batch: 2240015	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/27/22	09/28/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/27/22	09/28/22	
Surrogate: n-Nonane	101 %	50-200		09/27/22	09/28/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2240006	
Chloride	ND	20.0	1	09/26/22	09/28/22	





## Sample Data

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

Project Name: Spica 25 Fed 3H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
9/29/2022 4:39:24PM

S.7 1'

E209135-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2239114
Benzene	ND	0.0250	1	09/23/22	09/27/22	
Ethylbenzene	ND	0.0250	1	09/23/22	09/27/22	
Toluene	ND	0.0250	1	09/23/22	09/27/22	
o-Xylene	ND	0.0250	1	09/23/22	09/27/22	
p,m-Xylene	ND	0.0500	1	09/23/22	09/27/22	
Total Xylenes	ND	0.0250	1	09/23/22	09/27/22	
Surrogate: Bromofluorobenzene	96.7 %	70-130		09/23/22	09/27/22	
Surrogate: 1,2-Dichloroethane-d4	93.1 %	70-130		09/23/22	09/27/22	
Surrogate: Toluene-d8	104 %	70-130		09/23/22	09/27/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2239114
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/23/22	09/27/22	
Surrogate: Bromofluorobenzene	96.7 %	70-130		09/23/22	09/27/22	
Surrogate: 1,2-Dichloroethane-d4	93.1 %	70-130		09/23/22	09/27/22	
Surrogate: Toluene-d8	104 %	70-130		09/23/22	09/27/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2240015
Diesel Range Organics (C10-C28)	ND	25.0	1	09/27/22	09/28/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/27/22	09/28/22	
Surrogate: n-Nonane	99.9 %	50-200		09/27/22	09/28/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2240006
Chloride	24.0	20.0	1	09/26/22	09/28/22	



## Sample Data

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

Project Name: Spica 25 Fed 3H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
9/29/2022 4:39:24PM

S.8 1'

E209135-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2239114
Benzene	ND	0.0250	1	09/23/22	09/27/22	
Ethylbenzene	ND	0.0250	1	09/23/22	09/27/22	
Toluene	ND	0.0250	1	09/23/22	09/27/22	
o-Xylene	ND	0.0250	1	09/23/22	09/27/22	
p,m-Xylene	ND	0.0500	1	09/23/22	09/27/22	
Total Xylenes	ND	0.0250	1	09/23/22	09/27/22	
Surrogate: Bromofluorobenzene	99.1 %	70-130		09/23/22	09/27/22	
Surrogate: 1,2-Dichloroethane-d4	98.2 %	70-130		09/23/22	09/27/22	
Surrogate: Toluene-d8	107 %	70-130		09/23/22	09/27/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2239114
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/23/22	09/27/22	
Surrogate: Bromofluorobenzene	99.1 %	70-130		09/23/22	09/27/22	
Surrogate: 1,2-Dichloroethane-d4	98.2 %	70-130		09/23/22	09/27/22	
Surrogate: Toluene-d8	107 %	70-130		09/23/22	09/27/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2240015
Diesel Range Organics (C10-C28)	ND	25.0	1	09/27/22	09/28/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/27/22	09/28/22	
Surrogate: n-Nonane	104 %	50-200		09/27/22	09/28/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2240006
Chloride	33.5	20.0	1	09/26/22	09/28/22	



## Sample Data

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

Project Name: Spica 25 Fed 3H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
9/29/2022 4:39:24PM

S.9 1'

E209135-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2239114
Benzene	ND	0.0250	1	09/23/22	09/27/22	
Ethylbenzene	ND	0.0250	1	09/23/22	09/27/22	
Toluene	ND	0.0250	1	09/23/22	09/27/22	
o-Xylene	ND	0.0250	1	09/23/22	09/27/22	
p,m-Xylene	ND	0.0500	1	09/23/22	09/27/22	
Total Xylenes	ND	0.0250	1	09/23/22	09/27/22	
Surrogate: Bromofluorobenzene	98.6 %	70-130		09/23/22	09/27/22	
Surrogate: 1,2-Dichloroethane-d4	91.4 %	70-130		09/23/22	09/27/22	
Surrogate: Toluene-d8	107 %	70-130		09/23/22	09/27/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2239114
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/23/22	09/27/22	
Surrogate: Bromofluorobenzene	98.6 %	70-130		09/23/22	09/27/22	
Surrogate: 1,2-Dichloroethane-d4	91.4 %	70-130		09/23/22	09/27/22	
Surrogate: Toluene-d8	107 %	70-130		09/23/22	09/27/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2240015
Diesel Range Organics (C10-C28)	39.6	25.0	1	09/27/22	09/28/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/27/22	09/28/22	
Surrogate: n-Nonane	112 %	50-200		09/27/22	09/28/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2240006
Chloride	42.1	20.0	1	09/26/22	09/28/22	





## Sample Data

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

Project Name: Spica 25 Fed 3H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
9/29/2022 4:39:24PM

S.10 1'

E209135-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2239114
Benzene	ND	0.0250	1	09/23/22	09/27/22	
Ethylbenzene	ND	0.0250	1	09/23/22	09/27/22	
Toluene	ND	0.0250	1	09/23/22	09/27/22	
o-Xylene	ND	0.0250	1	09/23/22	09/27/22	
p,m-Xylene	ND	0.0500	1	09/23/22	09/27/22	
Total Xylenes	ND	0.0250	1	09/23/22	09/27/22	
Surrogate: Bromofluorobenzene	97.2 %	70-130		09/23/22	09/27/22	
Surrogate: 1,2-Dichloroethane-d4	92.3 %	70-130		09/23/22	09/27/22	
Surrogate: Toluene-d8	105 %	70-130		09/23/22	09/27/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2239114
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/23/22	09/27/22	
Surrogate: Bromofluorobenzene	97.2 %	70-130		09/23/22	09/27/22	
Surrogate: 1,2-Dichloroethane-d4	92.3 %	70-130		09/23/22	09/27/22	
Surrogate: Toluene-d8	105 %	70-130		09/23/22	09/27/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2240015
Diesel Range Organics (C10-C28)	ND	25.0	1	09/27/22	09/28/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/27/22	09/28/22	
Surrogate: n-Nonane	109 %	50-200		09/27/22	09/28/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2240006
Chloride	75.9	20.0	1	09/26/22	09/28/22	



## Sample Data

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

Project Name: Spica 25 Fed 3H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
9/29/2022 4:39:24PM

S.11 1'

E209135-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2239114	
Benzene	ND	0.0250	1	09/23/22	09/27/22	
Ethylbenzene	ND	0.0250	1	09/23/22	09/27/22	
Toluene	ND	0.0250	1	09/23/22	09/27/22	
o-Xylene	ND	0.0250	1	09/23/22	09/27/22	
p,m-Xylene	ND	0.0500	1	09/23/22	09/27/22	
Total Xylenes	ND	0.0250	1	09/23/22	09/27/22	
Surrogate: Bromofluorobenzene	97.4 %	70-130		09/23/22	09/27/22	
Surrogate: 1,2-Dichloroethane-d4	96.4 %	70-130		09/23/22	09/27/22	
Surrogate: Toluene-d8	108 %	70-130		09/23/22	09/27/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2239114	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/23/22	09/27/22	
Surrogate: Bromofluorobenzene	97.4 %	70-130		09/23/22	09/27/22	
Surrogate: 1,2-Dichloroethane-d4	96.4 %	70-130		09/23/22	09/27/22	
Surrogate: Toluene-d8	108 %	70-130		09/23/22	09/27/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: JL		Batch: 2240015	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/27/22	09/28/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/27/22	09/28/22	
Surrogate: n-Nonane	109 %	50-200		09/27/22	09/28/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2240006	
Chloride	1130	20.0	1	09/26/22	09/28/22	



## Sample Data

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

Project Name: Spica 25 Fed 3H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
9/29/2022 4:39:24PM

S.11 4'

E209135-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2239114	
Benzene	ND	0.0250	1	09/23/22	09/27/22	
Ethylbenzene	ND	0.0250	1	09/23/22	09/27/22	
Toluene	ND	0.0250	1	09/23/22	09/27/22	
o-Xylene	ND	0.0250	1	09/23/22	09/27/22	
p,m-Xylene	ND	0.0500	1	09/23/22	09/27/22	
Total Xylenes	ND	0.0250	1	09/23/22	09/27/22	
Surrogate: Bromofluorobenzene	98.1 %	70-130		09/23/22	09/27/22	
Surrogate: 1,2-Dichloroethane-d4	90.3 %	70-130		09/23/22	09/27/22	
Surrogate: Toluene-d8	106 %	70-130		09/23/22	09/27/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2239114	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/23/22	09/27/22	
Surrogate: Bromofluorobenzene	98.1 %	70-130		09/23/22	09/27/22	
Surrogate: 1,2-Dichloroethane-d4	90.3 %	70-130		09/23/22	09/27/22	
Surrogate: Toluene-d8	106 %	70-130		09/23/22	09/27/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: JL		Batch: 2240015	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/27/22	09/28/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/27/22	09/28/22	
Surrogate: n-Nonane	109 %	50-200		09/27/22	09/28/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2240006	
Chloride	3730	40.0	2	09/26/22	09/28/22	





## Sample Data

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

Project Name: Spica 25 Fed 3H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
9/29/2022 4:39:24PM

S.11 5'

E209135-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2239114
Benzene	ND	0.0250	1	09/23/22	09/27/22	
Ethylbenzene	ND	0.0250	1	09/23/22	09/27/22	
Toluene	ND	0.0250	1	09/23/22	09/27/22	
o-Xylene	ND	0.0250	1	09/23/22	09/27/22	
p,m-Xylene	ND	0.0500	1	09/23/22	09/27/22	
Total Xylenes	ND	0.0250	1	09/23/22	09/27/22	
Surrogate: Bromofluorobenzene	98.2 %	70-130		09/23/22	09/27/22	
Surrogate: 1,2-Dichloroethane-d4	98.7 %	70-130		09/23/22	09/27/22	
Surrogate: Toluene-d8	106 %	70-130		09/23/22	09/27/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2239114
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/23/22	09/27/22	
Surrogate: Bromofluorobenzene	98.2 %	70-130		09/23/22	09/27/22	
Surrogate: 1,2-Dichloroethane-d4	98.7 %	70-130		09/23/22	09/27/22	
Surrogate: Toluene-d8	106 %	70-130		09/23/22	09/27/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2240015
Diesel Range Organics (C10-C28)	ND	25.0	1	09/27/22	09/28/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/27/22	09/28/22	
Surrogate: n-Nonane	109 %	50-200		09/27/22	09/28/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2240006
Chloride	ND	20.0	1	09/26/22	09/28/22	



## Sample Data

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

Project Name: Spica 25 Fed 3H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
9/29/2022 4:39:24PM

## SW8

## E209135-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2239114
Benzene	ND	0.0250	1	09/23/22	09/27/22	
Ethylbenzene	ND	0.0250	1	09/23/22	09/27/22	
Toluene	ND	0.0250	1	09/23/22	09/27/22	
o-Xylene	ND	0.0250	1	09/23/22	09/27/22	
p,m-Xylene	ND	0.0500	1	09/23/22	09/27/22	
Total Xylenes	ND	0.0250	1	09/23/22	09/27/22	
Surrogate: Bromofluorobenzene	98.7 %	70-130		09/23/22	09/27/22	
Surrogate: 1,2-Dichloroethane-d4	90.3 %	70-130		09/23/22	09/27/22	
Surrogate: Toluene-d8	107 %	70-130		09/23/22	09/27/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2239114
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/23/22	09/27/22	
Surrogate: Bromofluorobenzene	98.7 %	70-130		09/23/22	09/27/22	
Surrogate: 1,2-Dichloroethane-d4	90.3 %	70-130		09/23/22	09/27/22	
Surrogate: Toluene-d8	107 %	70-130		09/23/22	09/27/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2240015
Diesel Range Organics (C10-C28)	ND	25.0	1	09/27/22	09/28/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/27/22	09/28/22	
Surrogate: n-Nonane	92.2 %	50-200		09/27/22	09/28/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2240006
Chloride	ND	20.0	1	09/26/22	09/29/22	



## Sample Data

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

Project Name: Spica 25 Fed 3H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
9/29/2022 4:39:24PM

## SW9

## E209135-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2239114
Benzene	ND	0.0250	1	09/23/22	09/27/22	
Ethylbenzene	ND	0.0250	1	09/23/22	09/27/22	
Toluene	ND	0.0250	1	09/23/22	09/27/22	
o-Xylene	ND	0.0250	1	09/23/22	09/27/22	
p,m-Xylene	ND	0.0500	1	09/23/22	09/27/22	
Total Xylenes	ND	0.0250	1	09/23/22	09/27/22	
Surrogate: Bromofluorobenzene	96.2 %	70-130		09/23/22	09/27/22	
Surrogate: 1,2-Dichloroethane-d4	93.1 %	70-130		09/23/22	09/27/22	
Surrogate: Toluene-d8	106 %	70-130		09/23/22	09/27/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2239114
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/23/22	09/27/22	
Surrogate: Bromofluorobenzene	96.2 %	70-130		09/23/22	09/27/22	
Surrogate: 1,2-Dichloroethane-d4	93.1 %	70-130		09/23/22	09/27/22	
Surrogate: Toluene-d8	106 %	70-130		09/23/22	09/27/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2240015
Diesel Range Organics (C10-C28)	ND	25.0	1	09/27/22	09/28/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/27/22	09/28/22	
Surrogate: n-Nonane	90.9 %	50-200		09/27/22	09/28/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2240006
Chloride	ND	20.0	1	09/26/22	09/28/22	





Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Spica 25 Fed 3H	<b>Reported:</b> 9/29/2022 4:39:24PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

SW10

E209135-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2239114	
Benzene	ND	0.0250	1	09/23/22	09/27/22	
Ethylbenzene	ND	0.0250	1	09/23/22	09/27/22	
Toluene	ND	0.0250	1	09/23/22	09/27/22	
o-Xylene	ND	0.0250	1	09/23/22	09/27/22	
p,m-Xylene	ND	0.0500	1	09/23/22	09/27/22	
Total Xylenes	ND	0.0250	1	09/23/22	09/27/22	
Surrogate: Bromofluorobenzene	96.2 %	70-130		09/23/22	09/27/22	
Surrogate: 1,2-Dichloroethane-d4	96.8 %	70-130		09/23/22	09/27/22	
Surrogate: Toluene-d8	107 %	70-130		09/23/22	09/27/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2239114	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/23/22	09/27/22	
Surrogate: Bromofluorobenzene	96.2 %	70-130		09/23/22	09/27/22	
Surrogate: 1,2-Dichloroethane-d4	96.8 %	70-130		09/23/22	09/27/22	
Surrogate: Toluene-d8	107 %	70-130		09/23/22	09/27/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: JL		Batch: 2240015	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/27/22	09/28/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/27/22	09/28/22	
Surrogate: n-Nonane	89.5 %	50-200		09/27/22	09/28/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2240006	
Chloride	ND	20.0	1	09/26/22	09/28/22	



## Sample Data

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

Project Name: Spica 25 Fed 3H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
9/29/2022 4:39:24PM

## SW11

## E209135-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2239114
Benzene	ND	0.0250	1	09/23/22	09/27/22	
Ethylbenzene	ND	0.0250	1	09/23/22	09/27/22	
Toluene	ND	0.0250	1	09/23/22	09/27/22	
o-Xylene	ND	0.0250	1	09/23/22	09/27/22	
p,m-Xylene	ND	0.0500	1	09/23/22	09/27/22	
Total Xylenes	ND	0.0250	1	09/23/22	09/27/22	
Surrogate: Bromofluorobenzene	97.6 %	70-130		09/23/22	09/27/22	
Surrogate: 1,2-Dichloroethane-d4	90.9 %	70-130		09/23/22	09/27/22	
Surrogate: Toluene-d8	105 %	70-130		09/23/22	09/27/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2239114
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/23/22	09/27/22	
Surrogate: Bromofluorobenzene	97.6 %	70-130		09/23/22	09/27/22	
Surrogate: 1,2-Dichloroethane-d4	90.9 %	70-130		09/23/22	09/27/22	
Surrogate: Toluene-d8	105 %	70-130		09/23/22	09/27/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2240015
Diesel Range Organics (C10-C28)	ND	25.0	1	09/27/22	09/28/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/27/22	09/28/22	
Surrogate: n-Nonane	88.3 %	50-200		09/27/22	09/28/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2240006
Chloride	ND	20.0	1	09/26/22	09/28/22	



## Sample Data

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

Project Name: Spica 25 Fed 3H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
9/29/2022 4:39:24PM

## SW12

## E209135-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2239114	
Benzene	ND	0.0250	1	09/23/22	09/27/22	
Ethylbenzene	ND	0.0250	1	09/23/22	09/27/22	
Toluene	ND	0.0250	1	09/23/22	09/27/22	
o-Xylene	ND	0.0250	1	09/23/22	09/27/22	
p,m-Xylene	ND	0.0500	1	09/23/22	09/27/22	
Total Xylenes	ND	0.0250	1	09/23/22	09/27/22	
Surrogate: Bromofluorobenzene	94.3 %	70-130		09/23/22	09/27/22	
Surrogate: 1,2-Dichloroethane-d4	97.0 %	70-130		09/23/22	09/27/22	
Surrogate: Toluene-d8	105 %	70-130		09/23/22	09/27/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2239114	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/23/22	09/27/22	
Surrogate: Bromofluorobenzene	94.3 %	70-130		09/23/22	09/27/22	
Surrogate: 1,2-Dichloroethane-d4	97.0 %	70-130		09/23/22	09/27/22	
Surrogate: Toluene-d8	105 %	70-130		09/23/22	09/27/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: JL		Batch: 2240015	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/27/22	09/28/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/27/22	09/28/22	
Surrogate: n-Nonane	89.4 %	50-200		09/27/22	09/28/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2240006	
Chloride	ND	20.0	1	09/26/22	09/28/22	





## Sample Data

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

Project Name: Spica 25 Fed 3H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
9/29/2022 4:39:24PM

## SW13

## E209135-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2239114
Benzene	ND	0.0250	1	09/23/22	09/27/22	
Ethylbenzene	ND	0.0250	1	09/23/22	09/27/22	
Toluene	ND	0.0250	1	09/23/22	09/27/22	
o-Xylene	ND	0.0250	1	09/23/22	09/27/22	
p,m-Xylene	ND	0.0500	1	09/23/22	09/27/22	
Total Xylenes	ND	0.0250	1	09/23/22	09/27/22	
Surrogate: Bromofluorobenzene	97.1 %	70-130		09/23/22	09/27/22	
Surrogate: 1,2-Dichloroethane-d4	91.5 %	70-130		09/23/22	09/27/22	
Surrogate: Toluene-d8	106 %	70-130		09/23/22	09/27/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2239114
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/23/22	09/27/22	
Surrogate: Bromofluorobenzene	97.1 %	70-130		09/23/22	09/27/22	
Surrogate: 1,2-Dichloroethane-d4	91.5 %	70-130		09/23/22	09/27/22	
Surrogate: Toluene-d8	106 %	70-130		09/23/22	09/27/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2240015
Diesel Range Organics (C10-C28)	ND	25.0	1	09/27/22	09/28/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/27/22	09/28/22	
Surrogate: n-Nonane	89.9 %	50-200		09/27/22	09/28/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2240006
Chloride	ND	20.0	1	09/26/22	09/28/22	



Pima Environmental Services-Carlsbad	Project Name:	Spica 25 Fed 3H	Reported:  9/29/2022 4:39:24PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

Volatile Organic Compounds by EPA 8260B

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2239114-BLK1) Prepared: 09/23/22 Analyzed: 09/27/22

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.477		0.500		95.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.474		0.500		94.8	70-130			
Surrogate: Toluene-d8	0.529		0.500		106	70-130			

LCS (2239114-BS1) Prepared: 09/23/22 Analyzed: 09/27/22

Benzene	2.14	0.0250	2.50		85.7	70-130			
Ethylbenzene	2.19	0.0250	2.50		87.5	70-130			
Toluene	2.17	0.0250	2.50		86.6	70-130			
o-Xylene	2.05	0.0250	2.50		82.0	70-130			
p,m-Xylene	4.06	0.0500	5.00		81.2	70-130			
Total Xylenes	6.11	0.0250	7.50		81.5	70-130			
Surrogate: Bromofluorobenzene	0.498		0.500		99.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.474		0.500		94.7	70-130			
Surrogate: Toluene-d8	0.529		0.500		106	70-130			

Matrix Spike (2239114-MS1) Source: E209135-01 Prepared: 09/23/22 Analyzed: 09/27/22

Benzene	2.13	0.0250	2.50	ND	85.2	48-131			
Ethylbenzene	2.19	0.0250	2.50	ND	87.6	45-135			
Toluene	2.14	0.0250	2.50	ND	85.6	48-130			
o-Xylene	2.06	0.0250	2.50	ND	82.4	43-135			
p,m-Xylene	4.06	0.0500	5.00	ND	81.2	43-135			
Total Xylenes	6.12	0.0250	7.50	ND	81.6	43-135			
Surrogate: Bromofluorobenzene	0.501		0.500		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.508		0.500		102	70-130			
Surrogate: Toluene-d8	0.531		0.500		106	70-130			

Matrix Spike Dup (2239114-MSD1) Source: E209135-01 Prepared: 09/23/22 Analyzed: 09/27/22

Benzene	2.14	0.0250	2.50	ND	85.6	48-131	0.468	23	
Ethylbenzene	2.15	0.0250	2.50	ND	85.9	45-135	1.98	27	
Toluene	2.11	0.0250	2.50	ND	84.5	48-130	1.27	24	
o-Xylene	2.01	0.0250	2.50	ND	80.4	43-135	2.48	27	
p,m-Xylene	3.97	0.0500	5.00	ND	79.5	43-135	2.13	27	
Total Xylenes	5.98	0.0250	7.50	ND	79.8	43-135	2.25	27	
Surrogate: Bromofluorobenzene	0.499		0.500		99.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.490		0.500		98.0	70-130			
Surrogate: Toluene-d8	0.528		0.500		106	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Spica 25 Fed 3H	Reported:  9/29/2022 4:39:24PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2239114-BLK1) Prepared: 09/23/22 Analyzed: 09/27/22

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.477		0.500		95.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.474		0.500		94.8	70-130			
Surrogate: Toluene-d8	0.529		0.500		106	70-130			

LCS (2239114-BS2) Prepared: 09/23/22 Analyzed: 09/27/22

Gasoline Range Organics (C6-C10)	54.5	20.0	50.0		109	70-130			
Surrogate: Bromofluorobenzene	0.488		0.500		97.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.466		0.500		93.2	70-130			
Surrogate: Toluene-d8	0.527		0.500		105	70-130			

Matrix Spike (2239114-MS2) Source: E209135-01 Prepared: 09/23/22 Analyzed: 09/27/22

Gasoline Range Organics (C6-C10)	53.2	20.0	50.0	ND	106	70-130			
Surrogate: Bromofluorobenzene	0.489		0.500		97.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.479		0.500		95.8	70-130			
Surrogate: Toluene-d8	0.526		0.500		105	70-130			

Matrix Spike Dup (2239114-MSD2) Source: E209135-01 Prepared: 09/23/22 Analyzed: 09/27/22

Gasoline Range Organics (C6-C10)	48.8	20.0	50.0	ND	97.6	70-130	8.58	20	
Surrogate: Bromofluorobenzene	0.490		0.500		97.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.502		0.500		100	70-130			
Surrogate: Toluene-d8	0.530		0.500		106	70-130			





QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Spica 25 Fed 3H	Reported:  9/29/2022 4:39:24PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2240015-BLK1)					Prepared: 09/27/22 Analyzed: 09/28/22				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	50.6		50.0		101	50-200			

LCS (2240015-BS1)					Prepared: 09/27/22 Analyzed: 09/28/22				
Diesel Range Organics (C10-C28)	234	25.0	250		93.7	38-132			
Surrogate: n-Nonane	44.2		50.0		88.3	50-200			

Matrix Spike (2240015-MS1)					Source: E209135-15		Prepared: 09/27/22 Analyzed: 09/28/22		
Diesel Range Organics (C10-C28)	233	25.0	250	ND	93.2	38-132			
Surrogate: n-Nonane	44.1		50.0		88.3	50-200			

Matrix Spike Dup (2240015-MSD1)					Source: E209135-15		Prepared: 09/27/22 Analyzed: 09/28/22		
Diesel Range Organics (C10-C28)	237	25.0	250	ND	94.7	38-132	1.62	20	
Surrogate: n-Nonane	45.2		50.0		90.4	50-200			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Spica 25 Fed 3H	Reported:  9/29/2022 4:39:24PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

Anions by EPA 300.0/9056A

Analyst: RAS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2240006-BLK1)					Prepared: 09/26/22 Analyzed: 09/28/22				
Chloride	ND	20.0							
LCS (2240006-BS1)					Prepared: 09/26/22 Analyzed: 09/28/22				
Chloride	246	20.0	250		98.6	90-110			
Matrix Spike (2240006-MS1)					Source: E209135-01		Prepared: 09/26/22 Analyzed: 09/28/22		
Chloride	1720	20.0	250	1450	107	80-120			
Matrix Spike Dup (2240006-MSD1)					Source: E209135-01		Prepared: 09/26/22 Analyzed: 09/28/22		
Chloride	1680	20.0	250	1450	90.8	80-120	2.35	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:	Spica 25 Fed 3H	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	09/29/22 16:39

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

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

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





## Project Information

## Chain of Custody

Page 1 of 2

<b>Client:</b> Pima Environmental Services <b>Project:</b> Spica 25 Fed 34 <b>Project Manager:</b> Tom Bynum <b>Address:</b> 5614 N. Lovington Hwy. <b>City, State, Zip:</b> Hobbs, NM. 88240 <b>Phone:</b> 580-748-1613 <b>Email:</b> tom@pimaoil.com <b>Report due by:</b>					<b>Bill To</b> <b>Attention:</b> Devon Energy <b>Address:</b> <b>City, State, Zip:</b> <b>Phone:</b> <b>Email:</b> <b>Pima Project #</b> 15-1					<b>Lab Use Only</b> <b>Lab Work:</b> E 201135 <b>Job Number:</b> 01058-0007 <b>Analysis and Method</b>					<b>TAT</b> 1D 2D 3D Standard X				<b>EPA Program</b> CWA SDWA RCRA	
										<b>State</b> NM CO UT AZ TX X										
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0		BGDOC NM	BGDOC TX		Remarks				
9:00	9/21/22	S	1	S.4 1'	1								X							
9:05				S.4 4'	2															
9:10				S.4 5'	3															
9:15				S.5 1'	4															
9:20				S.5 4'	5															
9:25				S.5 5'	6															
9:30				S.6 1'	7															
9:35				S.7 1'	8															
9:40				S.8 1'	9															
9:45				S.9 1'	10															
<b>Additional Instructions:</b>																				
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																				
Relinquished by: (Signature) <u>[Signature]</u> Date <u>9/22/22</u> Time <u>3:00</u> Received by: (Signature) <u>[Signature]</u> Date <u>9/22/22</u> Time <u>3:00</u>																				
Relinquished by: (Signature) <u>[Signature]</u> Date <u>9/22/22</u> Time <u>4:15</u> Received by: (Signature) <u>[Signature]</u> Date <u>9/23/22</u> Time <u>10:30</u>																				
Relinquished by: (Signature) <u>[Signature]</u> Date <u>9/22/22</u> Time <u>4:15</u> Received by: (Signature) <u>[Signature]</u> Date <u>9/23/22</u> Time <u>10:30</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 2

<b>Client: Pima Environmental Services</b> <b>Project: SPICA 25 Fed 3H</b> <b>Project Manager: Tom Bynum</b> <b>Address: 5614 N. Lovington Hwy.</b> <b>City, State, Zip: Hobbs, NM. 88240</b> <b>Phone: 580-748-1613</b> <b>Email: tom@pimaoil.com</b> <b>Report due by:</b>					<b>Bill To</b> <b>Attention: Devon Energy</b> <b>Address:</b> <b>City, State, Zip:</b> <b>Phone:</b> <b>Email:</b> <b>Pima Project # 15-1</b>					<b>Lab Use Only</b> <b>Lab WO# E 209135</b> <b>Job Number 01058-0007</b> <b>Analysis and Method</b>					<b>TAT</b> <b>1D 2D 3D Standard</b> <b>X</b>				<b>EPA Program</b> <b>CWA SDWA</b> <b>RCRA</b>	
														<b>State</b> <b>NM CO UT AZ TX</b> <b>X</b>						
														<b>Remarks</b>						
<b>Time Sampled</b>	<b>Date Sampled</b>	<b>Matrix</b>	<b>No. of Containers</b>	<b>Sample ID</b>	<b>Lab Number</b>	<b>DRO/DRO by 8015</b>	<b>GRO/DRO by 8015</b>	<b>BTEX by 8021</b>	<b>VOC by 8260</b>	<b>Metals 6010</b>	<b>Chloride 300.0</b>	<b>BGDOC NM</b>	<b>BGDOC TX</b>							
9:50	9/20/22	S	1	S.10 1'	11							X								
9:55				S.11 1'	12															
10:00				S.11 4'	13															
10:05				S.11 5'	14															
10:10				SW 8	15															
10:15				SW 9	16															
10:20				SW 10	17															
10:25				SW 11	18															
10:30				SW 12	19															
10:35				SW 13	20															
<b>Additional Instructions:</b>																				
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) <i>[Signature]</i>					Received by: (Signature) <i>[Signature]</i>					<b>Lab Use Only</b>										
Date: 9/22/22					Date: 9/22/22					Received on ice: <i>[initials]</i> N										
Time: 3:00					Time: 3:00					T1 T2 T3										
Relinquished by: (Signature) <i>[Signature]</i>					Received by: (Signature) <i>[Signature]</i>					AVG Temp °C 4										
Date: 9-22-22					Date: 9/23/22															
Time: 4:15					Time: 10:30															
Relinquished by: (Signature) <i>[Signature]</i>					Received by: (Signature) <i>[Signature]</i>															
Date:					Date:															
Time:					Time:															
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other																				
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																				
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																				

## Envirotech Analytical Laboratory

Printed: 9/23/2022 11:28:30AM

## 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:	09/23/22 10:30	Work Order ID:	E209135
Phone:	(575) 631-6977	Date Logged In:	09/23/22 09:34	Logged In By:	Caitlin Christian
Email:	tom@pimaoil.com	Due Date:	09/29/22 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: UPSComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:  
Tom Bynum



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Pima Environmental Services-Carlsbad

Project Name: Spica 25 Fed 3H

Work Order: E301152

Job Number: 01058-0007

Received: 1/31/2023

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
2/1/23

5796 U.S. Hwy 64  
Farmington, NM 87401

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



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



Date Reported: 2/1/23

Tom Bynum  
PO Box 247  
Plains, TX 79355-0247



Project Name: Spica 25 Fed 3H  
Workorder: E301152  
Date Received: 1/31/2023 8:15:00AM

Tom Bynum,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 1/31/2023 8:15:00AM, under the Project Name: Spica 25 Fed 3H.

The analytical test results summarized in this report with the Project Name: Spica 25 Fed 3H 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](mailto:whinchman@envirotech-inc.com)

**Raina Schwanz**  
Laboratory Administrator  
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**Alexa Michaels**  
Sample Custody Officer  
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[labadmin@envirotech-inc.com](mailto:labadmin@envirotech-inc.com)

Field Offices:

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[ljjarboe@envirotech-inc.com](mailto:ljjarboe@envirotech-inc.com)

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

Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)

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## Sample Summary

Pima Environmental Services-Carlsbad	Project Name:	Spica 25 Fed 3H	Reported: 02/01/23 15:30
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
CS-1	E301152-01A	Soil	01/29/23	01/31/23	Glass Jar, 2 oz.
CS-2	E301152-02A	Soil	01/29/23	01/31/23	Glass Jar, 2 oz.
CS-3	E301152-03A	Soil	01/29/23	01/31/23	Glass Jar, 2 oz.
CS-4	E301152-04A	Soil	01/29/23	01/31/23	Glass Jar, 2 oz.
CS-5	E301152-05A	Soil	01/29/23	01/31/23	Glass Jar, 2 oz.
CS-6	E301152-06A	Soil	01/29/23	01/31/23	Glass Jar, 2 oz.
CS-7	E301152-07A	Soil	01/29/23	01/31/23	Glass Jar, 2 oz.
CS-8	E301152-08A	Soil	01/29/23	01/31/23	Glass Jar, 2 oz.
CS-9	E301152-09A	Soil	01/29/23	01/31/23	Glass Jar, 2 oz.
CS-10	E301152-10A	Soil	01/29/23	01/31/23	Glass Jar, 2 oz.
CS-11	E301152-11A	Soil	01/29/23	01/31/23	Glass Jar, 2 oz.
CS-12	E301152-12A	Soil	01/29/23	01/31/23	Glass Jar, 2 oz.
CS-13	E301152-13A	Soil	01/29/23	01/31/23	Glass Jar, 2 oz.
CS-14	E301152-14A	Soil	01/29/23	01/31/23	Glass Jar, 2 oz.
CS-15	E301152-15A	Soil	01/29/23	01/31/23	Glass Jar, 2 oz.
CS-16	E301152-16A	Soil	01/29/23	01/31/23	Glass Jar, 2 oz.
CS-17	E301152-17A	Soil	01/29/23	01/31/23	Glass Jar, 2 oz.
CS-18	E301152-18A	Soil	01/29/23	01/31/23	Glass Jar, 2 oz.
CSW-1	E301152-19A	Soil	01/29/23	01/31/23	Glass Jar, 2 oz.
CSW-2	E301152-20A	Soil	01/29/23	01/31/23	Glass Jar, 2 oz.





## Sample Data

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

Project Name: Spica 25 Fed 3H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
2/1/2023 3:30:11PM

## CS-1

## E301152-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2305026
Benzene	ND	0.0250	1	01/30/23	01/31/23	
Ethylbenzene	ND	0.0250	1	01/30/23	01/31/23	
Toluene	ND	0.0250	1	01/30/23	01/31/23	
o-Xylene	ND	0.0250	1	01/30/23	01/31/23	
p,m-Xylene	ND	0.0500	1	01/30/23	01/31/23	
Total Xylenes	ND	0.0250	1	01/30/23	01/31/23	
Surrogate: 4-Bromochlorobenzene-PID		101 %	70-130	01/30/23	01/31/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2305026
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/30/23	01/31/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.8 %	70-130	01/30/23	01/31/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2305024
Diesel Range Organics (C10-C28)	ND	25.0	1	01/30/23	01/31/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/30/23	01/31/23	
Surrogate: n-Nonane		93.7 %	50-200	01/30/23	01/31/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2305031
Chloride	ND	20.0	1	01/31/23	01/31/23	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Spica 25 Fed 3H	<b>Reported:</b> 2/1/2023 3:30:11PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

CS-2

E301152-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2305026	
Benzene	ND	0.0250	1	01/30/23	01/31/23	
Ethylbenzene	ND	0.0250	1	01/30/23	01/31/23	
Toluene	ND	0.0250	1	01/30/23	01/31/23	
o-Xylene	ND	0.0250	1	01/30/23	01/31/23	
p,m-Xylene	ND	0.0500	1	01/30/23	01/31/23	
Total Xylenes	ND	0.0250	1	01/30/23	01/31/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		102 %	70-130	01/30/23	01/31/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2305026	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/30/23	01/31/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		95.9 %	70-130	01/30/23	01/31/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KM		Batch: 2305024	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/30/23	01/31/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/30/23	01/31/23	
<i>Surrogate: n-Nonane</i>						
		95.4 %	50-200	01/30/23	01/31/23	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2305031	
Chloride	ND	20.0	1	01/31/23	01/31/23	



## Sample Data

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

Project Name: Spica 25 Fed 3H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
2/1/2023 3:30:11PM

## CS-3

## E301152-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2305026	
Benzene	ND	0.0250	1	01/30/23	01/31/23	
Ethylbenzene	ND	0.0250	1	01/30/23	01/31/23	
Toluene	ND	0.0250	1	01/30/23	01/31/23	
o-Xylene	ND	0.0250	1	01/30/23	01/31/23	
p,m-Xylene	ND	0.0500	1	01/30/23	01/31/23	
Total Xylenes	ND	0.0250	1	01/30/23	01/31/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		102 %	70-130	01/30/23	01/31/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2305026	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/30/23	01/31/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		92.8 %	70-130	01/30/23	01/31/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: KM		Batch: 2305024	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/30/23	01/31/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/30/23	01/31/23	
<i>Surrogate: n-Nonane</i>						
		94.0 %	50-200	01/30/23	01/31/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2305031	
Chloride	ND	20.0	1	01/31/23	01/31/23	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Spica 25 Fed 3H	<b>Reported:</b> 2/1/2023 3:30:11PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

CS-4

E301152-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2305026	
Benzene	ND	0.0250	1	01/30/23	01/31/23	
Ethylbenzene	ND	0.0250	1	01/30/23	01/31/23	
Toluene	ND	0.0250	1	01/30/23	01/31/23	
o-Xylene	ND	0.0250	1	01/30/23	01/31/23	
p,m-Xylene	ND	0.0500	1	01/30/23	01/31/23	
Total Xylenes	ND	0.0250	1	01/30/23	01/31/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		106 %	70-130	01/30/23	01/31/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2305026	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/30/23	01/31/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		93.5 %	70-130	01/30/23	01/31/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KM		Batch: 2305024	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/30/23	01/31/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/30/23	01/31/23	
<i>Surrogate: n-Nonane</i>						
		100 %	50-200	01/30/23	01/31/23	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2305031	
Chloride	ND	20.0	1	01/31/23	01/31/23	





Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Spica 25 Fed 3H	<b>Reported:</b> 2/1/2023 3:30:11PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

CS-5

E301152-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2305026	
Benzene	ND	0.0250	1	01/30/23	01/31/23	
Ethylbenzene	ND	0.0250	1	01/30/23	01/31/23	
Toluene	ND	0.0250	1	01/30/23	01/31/23	
o-Xylene	ND	0.0250	1	01/30/23	01/31/23	
p,m-Xylene	ND	0.0500	1	01/30/23	01/31/23	
Total Xylenes	ND	0.0250	1	01/30/23	01/31/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		107 %	70-130	01/30/23	01/31/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2305026	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/30/23	01/31/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		99.0 %	70-130	01/30/23	01/31/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: KM		Batch: 2305024	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/30/23	01/31/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/30/23	01/31/23	
<i>Surrogate: n-Nonane</i>						
		100 %	50-200	01/30/23	01/31/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2305031	
Chloride	ND	20.0	1	01/31/23	01/31/23	



## Sample Data

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

Project Name: Spica 25 Fed 3H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
2/1/2023 3:30:11PM

## CS-6

## E301152-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2305026
Benzene	ND	0.0250	1	01/30/23	01/31/23	
Ethylbenzene	ND	0.0250	1	01/30/23	01/31/23	
Toluene	ND	0.0250	1	01/30/23	01/31/23	
o-Xylene	ND	0.0250	1	01/30/23	01/31/23	
p,m-Xylene	ND	0.0500	1	01/30/23	01/31/23	
Total Xylenes	ND	0.0250	1	01/30/23	01/31/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		108 %	70-130	01/30/23	01/31/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2305026
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/30/23	01/31/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		99.7 %	70-130	01/30/23	01/31/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2305024
Diesel Range Organics (C10-C28)	ND	25.0	1	01/30/23	01/31/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/30/23	01/31/23	
<i>Surrogate: n-Nonane</i>						
		104 %	50-200	01/30/23	01/31/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2305031
Chloride	ND	20.0	1	01/31/23	01/31/23	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Spica 25 Fed 3H	<b>Reported:</b> 2/1/2023 3:30:11PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

CS-7

E301152-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2305026	
Benzene	ND	0.0250	1	01/30/23	01/31/23	
Ethylbenzene	ND	0.0250	1	01/30/23	01/31/23	
Toluene	ND	0.0250	1	01/30/23	01/31/23	
o-Xylene	ND	0.0250	1	01/30/23	01/31/23	
p,m-Xylene	ND	0.0500	1	01/30/23	01/31/23	
Total Xylenes	ND	0.0250	1	01/30/23	01/31/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		102 %	70-130	01/30/23	01/31/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2305026	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/30/23	01/31/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		90.9 %	70-130	01/30/23	01/31/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KM		Batch: 2305024	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/30/23	01/31/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/30/23	01/31/23	
<i>Surrogate: n-Nonane</i>						
		104 %	50-200	01/30/23	01/31/23	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2305031	
Chloride	ND	20.0	1	01/31/23	01/31/23	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Spica 25 Fed 3H	<b>Reported:</b> 2/1/2023 3:30:11PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

CS-8

E301152-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2305026	
Benzene	ND	0.0250	1	01/30/23	01/31/23	
Ethylbenzene	ND	0.0250	1	01/30/23	01/31/23	
Toluene	ND	0.0250	1	01/30/23	01/31/23	
o-Xylene	ND	0.0250	1	01/30/23	01/31/23	
p,m-Xylene	ND	0.0500	1	01/30/23	01/31/23	
Total Xylenes	ND	0.0250	1	01/30/23	01/31/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		104 %	70-130	01/30/23	01/31/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2305026	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/30/23	01/31/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		92.3 %	70-130	01/30/23	01/31/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: KM		Batch: 2305024	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/30/23	01/31/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/30/23	01/31/23	
<i>Surrogate: n-Nonane</i>						
		101 %	50-200	01/30/23	01/31/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2305031	
Chloride	ND	20.0	1	01/31/23	01/31/23	





Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Spica 25 Fed 3H	<b>Reported:</b> 2/1/2023 3:30:11PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

CS-9

E301152-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2305026	
Benzene	ND	0.0250	1	01/30/23	01/31/23	
Ethylbenzene	ND	0.0250	1	01/30/23	01/31/23	
Toluene	ND	0.0250	1	01/30/23	01/31/23	
o-Xylene	ND	0.0250	1	01/30/23	01/31/23	
p,m-Xylene	ND	0.0500	1	01/30/23	01/31/23	
Total Xylenes	ND	0.0250	1	01/30/23	01/31/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		105 %	70-130	01/30/23	01/31/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2305026	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/30/23	01/31/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		89.3 %	70-130	01/30/23	01/31/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KM		Batch: 2305024	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/30/23	01/31/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/30/23	01/31/23	
<i>Surrogate: n-Nonane</i>						
		101 %	50-200	01/30/23	01/31/23	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2305031	
Chloride	ND	20.0	1	01/31/23	01/31/23	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Spica 25 Fed 3H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 2/1/2023 3:30:11PM
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CS-10

E301152-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2305026	
Benzene	ND	0.0250	1	01/30/23	01/31/23	
Ethylbenzene	ND	0.0250	1	01/30/23	01/31/23	
Toluene	ND	0.0250	1	01/30/23	01/31/23	
o-Xylene	ND	0.0250	1	01/30/23	01/31/23	
p,m-Xylene	ND	0.0500	1	01/30/23	01/31/23	
Total Xylenes	ND	0.0250	1	01/30/23	01/31/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	104 %	70-130		01/30/23	01/31/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2305026	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/30/23	01/31/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.4 %	70-130		01/30/23	01/31/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: KM		Batch: 2305024	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/30/23	01/31/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/30/23	01/31/23	
<i>Surrogate: n-Nonane</i>						
	100 %	50-200		01/30/23	01/31/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2305031	
Chloride	ND	20.0	1	01/31/23	01/31/23	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Spica 25 Fed 3H	<b>Reported:</b> 2/1/2023 3:30:11PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

CS-11

E301152-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2305026	
Benzene	ND	0.0250	1	01/30/23	01/31/23	
Ethylbenzene	ND	0.0250	1	01/30/23	01/31/23	
Toluene	ND	0.0250	1	01/30/23	01/31/23	
o-Xylene	ND	0.0250	1	01/30/23	01/31/23	
p,m-Xylene	ND	0.0500	1	01/30/23	01/31/23	
Total Xylenes	ND	0.0250	1	01/30/23	01/31/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		104 %	70-130	01/30/23	01/31/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2305026	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/30/23	01/31/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		88.9 %	70-130	01/30/23	01/31/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KM		Batch: 2305024	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/30/23	01/31/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/30/23	01/31/23	
<i>Surrogate: n-Nonane</i>		103 %	50-200	01/30/23	01/31/23	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2305031	
Chloride	ND	20.0	1	01/31/23	01/31/23	



## Sample Data

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

Project Name: Spica 25 Fed 3H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
2/1/2023 3:30:11PM

## CS-12

## E301152-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2305026
Benzene	ND	0.0250	1	01/30/23	01/31/23	
Ethylbenzene	ND	0.0250	1	01/30/23	01/31/23	
Toluene	ND	0.0250	1	01/30/23	01/31/23	
o-Xylene	ND	0.0250	1	01/30/23	01/31/23	
p,m-Xylene	ND	0.0500	1	01/30/23	01/31/23	
Total Xylenes	ND	0.0250	1	01/30/23	01/31/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		106 %	70-130	01/30/23	01/31/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2305026
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/30/23	01/31/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		90.7 %	70-130	01/30/23	01/31/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2305024
Diesel Range Organics (C10-C28)	ND	25.0	1	01/30/23	01/31/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/30/23	01/31/23	
<i>Surrogate: n-Nonane</i>						
		108 %	50-200	01/30/23	01/31/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2305031
Chloride	ND	20.0	1	01/31/23	01/31/23	





## Sample Data

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

Project Name: Spica 25 Fed 3H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
2/1/2023 3:30:11PM

## CS-13

## E301152-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2305026
Benzene	ND	0.0250	1	01/30/23	01/31/23	
Ethylbenzene	ND	0.0250	1	01/30/23	01/31/23	
Toluene	ND	0.0250	1	01/30/23	01/31/23	
o-Xylene	ND	0.0250	1	01/30/23	01/31/23	
p,m-Xylene	ND	0.0500	1	01/30/23	01/31/23	
Total Xylenes	ND	0.0250	1	01/30/23	01/31/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		108 %	70-130	01/30/23	01/31/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2305026
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/30/23	01/31/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		97.7 %	70-130	01/30/23	01/31/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2305024
Diesel Range Organics (C10-C28)	ND	25.0	1	01/30/23	01/31/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/30/23	01/31/23	
<i>Surrogate: n-Nonane</i>						
		106 %	50-200	01/30/23	01/31/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2305031
Chloride	ND	20.0	1	01/31/23	01/31/23	



## Sample Data

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

Project Name: Spica 25 Fed 3H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
2/1/2023 3:30:11PM

## CS-14

## E301152-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2305026	
Benzene	ND	0.0250	1	01/30/23	01/31/23	
Ethylbenzene	ND	0.0250	1	01/30/23	01/31/23	
Toluene	ND	0.0250	1	01/30/23	01/31/23	
o-Xylene	ND	0.0250	1	01/30/23	01/31/23	
p,m-Xylene	ND	0.0500	1	01/30/23	01/31/23	
Total Xylenes	ND	0.0250	1	01/30/23	01/31/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		109 %	70-130	01/30/23	01/31/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2305026	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/30/23	01/31/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		97.5 %	70-130	01/30/23	01/31/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: KM		Batch: 2305024	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/30/23	01/31/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/30/23	01/31/23	
<i>Surrogate: n-Nonane</i>						
		103 %	50-200	01/30/23	01/31/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2305031	
Chloride	ND	20.0	1	01/31/23	01/31/23	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Spica 25 Fed 3H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 2/1/2023 3:30:11PM
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CS-15

E301152-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2305026	
Benzene	ND	0.0250	1	01/30/23	01/31/23	
Ethylbenzene	ND	0.0250	1	01/30/23	01/31/23	
Toluene	ND	0.0250	1	01/30/23	01/31/23	
o-Xylene	ND	0.0250	1	01/30/23	01/31/23	
p,m-Xylene	ND	0.0500	1	01/30/23	01/31/23	
Total Xylenes	ND	0.0250	1	01/30/23	01/31/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	109 %	70-130		01/30/23	01/31/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2305026	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/30/23	01/31/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	98.8 %	70-130		01/30/23	01/31/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: KM		Batch: 2305024	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/30/23	01/31/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/30/23	01/31/23	
<i>Surrogate: n-Nonane</i>						
	104 %	50-200		01/30/23	01/31/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2305031	
Chloride	ND	20.0	1	01/31/23	01/31/23	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Spica 25 Fed 3H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 2/1/2023 3:30:11PM
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CS-16

E301152-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2305026	
Benzene	ND	0.0250	1	01/30/23	01/31/23	
Ethylbenzene	ND	0.0250	1	01/30/23	01/31/23	
Toluene	ND	0.0250	1	01/30/23	01/31/23	
o-Xylene	ND	0.0250	1	01/30/23	01/31/23	
p,m-Xylene	ND	0.0500	1	01/30/23	01/31/23	
Total Xylenes	ND	0.0250	1	01/30/23	01/31/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	109 %	70-130		01/30/23	01/31/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2305026	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/30/23	01/31/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	97.5 %	70-130		01/30/23	01/31/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: KM		Batch: 2305024	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/30/23	01/31/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/30/23	01/31/23	
<i>Surrogate: n-Nonane</i>						
	100 %	50-200		01/30/23	01/31/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2305031	
Chloride	ND	20.0	1	01/31/23	01/31/23	





Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Spica 25 Fed 3H	<b>Reported:</b> 2/1/2023 3:30:11PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

CS-17

E301152-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2305026	
Benzene	ND	0.0250	1	01/30/23	01/31/23	
Ethylbenzene	ND	0.0250	1	01/30/23	01/31/23	
Toluene	ND	0.0250	1	01/30/23	01/31/23	
o-Xylene	ND	0.0250	1	01/30/23	01/31/23	
p,m-Xylene	ND	0.0500	1	01/30/23	01/31/23	
Total Xylenes	ND	0.0250	1	01/30/23	01/31/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		110 %	70-130	01/30/23	01/31/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2305026	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/30/23	01/31/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		97.1 %	70-130	01/30/23	01/31/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KM		Batch: 2305024	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/30/23	01/31/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/30/23	01/31/23	
<i>Surrogate: n-Nonane</i>		99.7 %	50-200	01/30/23	01/31/23	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2305031	
Chloride	ND	20.0	1	01/31/23	01/31/23	



## Sample Data

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

Project Name: Spica 25 Fed 3H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
2/1/2023 3:30:11PM

## CS-18

## E301152-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2305026
Benzene	ND	0.0250	1	01/30/23	01/31/23	
Ethylbenzene	ND	0.0250	1	01/30/23	01/31/23	
Toluene	ND	0.0250	1	01/30/23	01/31/23	
o-Xylene	ND	0.0250	1	01/30/23	01/31/23	
p,m-Xylene	ND	0.0500	1	01/30/23	01/31/23	
Total Xylenes	ND	0.0250	1	01/30/23	01/31/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		111 %	70-130	01/30/23	01/31/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2305026
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/30/23	01/31/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		97.4 %	70-130	01/30/23	01/31/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2305024
Diesel Range Organics (C10-C28)	ND	25.0	1	01/30/23	01/31/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/30/23	01/31/23	
<i>Surrogate: n-Nonane</i>						
		99.6 %	50-200	01/30/23	01/31/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2305031
Chloride	ND	20.0	1	01/31/23	01/31/23	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Spica 25 Fed 3H	<b>Reported:</b> 2/1/2023 3:30:11PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

CSW-1  
E301152-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2305026	
Benzene	ND	0.0250	1	01/30/23	01/31/23	
Ethylbenzene	ND	0.0250	1	01/30/23	01/31/23	
Toluene	ND	0.0250	1	01/30/23	01/31/23	
o-Xylene	ND	0.0250	1	01/30/23	01/31/23	
p,m-Xylene	ND	0.0500	1	01/30/23	01/31/23	
Total Xylenes	ND	0.0250	1	01/30/23	01/31/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		112 %	70-130	01/30/23	01/31/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2305026	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/30/23	01/31/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		97.1 %	70-130	01/30/23	01/31/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KM		Batch: 2305024	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/30/23	01/31/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/30/23	01/31/23	
<i>Surrogate: n-Nonane</i>						
		101 %	50-200	01/30/23	01/31/23	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2305031	
Chloride	ND	20.0	1	01/31/23	01/31/23	



## Sample Data

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

Project Name: Spica 25 Fed 3H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
2/1/2023 3:30:11PM

## CSW-2

## E301152-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2305026
Benzene	ND	0.0250	1	01/30/23	01/31/23	
Ethylbenzene	ND	0.0250	1	01/30/23	01/31/23	
Toluene	ND	0.0250	1	01/30/23	01/31/23	
o-Xylene	ND	0.0250	1	01/30/23	01/31/23	
p,m-Xylene	ND	0.0500	1	01/30/23	01/31/23	
Total Xylenes	ND	0.0250	1	01/30/23	01/31/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		112 %	70-130	01/30/23	01/31/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2305026
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/30/23	01/31/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		97.9 %	70-130	01/30/23	01/31/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2305024
Diesel Range Organics (C10-C28)	ND	25.0	1	01/30/23	01/31/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/30/23	01/31/23	
<i>Surrogate: n-Nonane</i>						
		100 %	50-200	01/30/23	01/31/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2305031
Chloride	ND	20.0	1	01/31/23	01/31/23	





## QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Spica 25 Fed 3H	<b>Reported:</b>  2/1/2023 3:30:11PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

## Volatile Organics by EPA 8021B

Analyst: SL

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

## Blank (2305026-BLK1)

Prepared: 01/30/23 Analyzed: 01/31/23

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	8.01		8.00		100	70-130			

## LCS (2305026-BS1)

Prepared: 01/30/23 Analyzed: 01/31/23

Benzene	5.19	0.0250	5.00		104	70-130			
Ethylbenzene	5.18	0.0250	5.00		104	70-130			
Toluene	5.35	0.0250	5.00		107	70-130			
o-Xylene	5.38	0.0250	5.00		108	70-130			
p,m-Xylene	10.5	0.0500	10.0		105	70-130			
Total Xylenes	15.8	0.0250	15.0		106	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.95		8.00		99.3	70-130			

## LCS Dup (2305026-BSD1)

Prepared: 01/30/23 Analyzed: 01/31/23

Benzene	4.88	0.0250	5.00		97.7	70-130	6.06	20	
Ethylbenzene	4.84	0.0250	5.00		96.7	70-130	6.97	20	
Toluene	5.01	0.0250	5.00		100	70-130	6.60	20	
o-Xylene	5.03	0.0250	5.00		101	70-130	6.58	20	
p,m-Xylene	9.72	0.0500	10.0		97.2	70-130	7.43	20	
Total Xylenes	14.8	0.0250	15.0		98.3	70-130	7.15	20	
Surrogate: 4-Bromochlorobenzene-PID	8.02		8.00		100	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Spica 25 Fed 3H	Reported:  2/1/2023 3:30:11PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2305026-BLK1) Prepared: 01/30/23 Analyzed: 01/31/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.22		8.00		90.3	70-130			

LCS (2305026-BS2) Prepared: 01/30/23 Analyzed: 01/31/23

Gasoline Range Organics (C6-C10)	47.7	20.0	50.0		95.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.48		8.00		93.5	70-130			

LCS Dup (2305026-BSD2) Prepared: 01/30/23 Analyzed: 01/31/23

Gasoline Range Organics (C6-C10)	52.5	20.0	50.0		105	70-130	9.58	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.47		8.00		93.3	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Spica 25 Fed 3H	Reported:  2/1/2023 3:30:11PM
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 (2305024-BLK1)					Prepared: 01/30/23 Analyzed: 01/31/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	50.9		50.0		102	50-200			

LCS (2305024-BS1)					Prepared: 01/30/23 Analyzed: 01/31/23				
Diesel Range Organics (C10-C28)	249	25.0	250		99.6	38-132			
Surrogate: n-Nonane	48.0		50.0		96.0	50-200			

Matrix Spike (2305024-MS1)					Source: E301152-20		Prepared: 01/30/23 Analyzed: 01/31/23		
Diesel Range Organics (C10-C28)	253	25.0	250	ND	101	38-132			
Surrogate: n-Nonane	50.0		50.0		100	50-200			

Matrix Spike Dup (2305024-MSD1)					Source: E301152-20		Prepared: 01/30/23 Analyzed: 01/31/23		
Diesel Range Organics (C10-C28)	253	25.0	250	ND	101	38-132	0.172	20	
Surrogate: n-Nonane	48.3		50.0		96.6	50-200			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Spica 25 Fed 3H	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	2/1/2023 3:30:11PM

Anions by EPA 300.0/9056A

Analyst: BA

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

Blank (2305031-BLK1)					Prepared: 01/31/23 Analyzed: 01/31/23				
Chloride	ND	20.0							
LCS (2305031-BS1)					Prepared: 01/31/23 Analyzed: 01/31/23				
Chloride	250	20.0	250		99.8	90-110			
LCS Dup (2305031-BSD1)					Prepared: 01/31/23 Analyzed: 01/31/23				
Chloride	249	20.0	250		99.5	90-110	0.366	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:	Spica 25 Fed 3H	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	02/01/23 15:30

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

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

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



## Project Information

## Chain of Custody

Page 1 of 6

Client: Pima Environmental Services					Bill To		Lab Use Only				TAT				EPA Program	
Project: <u>SPICA 25 Fed 3H</u>					Attention: <u>Devon Energy</u>		Lab WO# <u>E301152</u>		Job Number <u>0058-007</u>		1D	2D	3D	Standard	CWA	SDWA
Project Manager: Tom Bynum					Address:		Analysis and Method								RCRA	
Address: <u>5614 N. Lovington Hwy.</u>					City, State, Zip										State	
City, State, Zip <u>Hobbs, NM, 88240</u>					Phone:		DRO/ORO by 8015		GRO/DRO by 8015		BTX by 8021		VOC by 8260		Metals 6010	
Phone: <u>580-748-1613</u>					Email:		Chloride 300.0						BGDOC NM		BGDOC TX	
Email: <u>tom@pimaoil.com</u>					Pima Project # <u>1-15</u>											
Report due by:																
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Remarks										
8:00	1/29/23	S	1	CS-1	1	X										
8:05				CS-2	2											
8:10				CS-3	3											
8:15				CS-4	4											
8:20				CS-5	5											
8:25				CS-6	6											
8:30				CS-7	7											
8:35				CS-8	8											
8:40				CS-9	9											
8:45				CS-10	10											
Additional Instructions: <u>Bill To Devon Energy: 20868753</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.																
Sampled by: <u>Audrey Benavidez</u>																
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only								
<u>Neil Rogers</u>		<u>1-30-23</u>	<u>2:00</u>	<u>Michelle Cuyler</u>		<u>1-30-24</u>	<u>1400</u>	Received on ice: <u>Q1 N</u>								
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1 T2 T3								
<u>Michelle Cuyler</u>		<u>1-30-23</u>	<u>1730</u>	<u>Lorenz</u>		<u>1-30-23</u>	<u>1730</u>									
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	AVG Temp °C								
<u>Lorenz</u>		<u>1-30-23</u>	<u>2315</u>	<u>Caith Chet</u>		<u>1/31/23</u>	<u>8:15</u>	<u>4</u>								
Sample Matrix: <u>S</u> - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other																
Container Type: <u>g</u> - glass, p - poly/plastic, ag - amber glass, v - VOA																
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																


**envirotech**



## Project Information

## Chain of Custody

Page 2 of 6

Client: Pima Environmental Services Project: <u>SPICA CS Feed 3H</u> Project Manager: Tom Bynum Address: <u>5614 N. Lovington Hwy.</u> City, State, Zip: <u>Hobbs, NM, 88240</u> Phone: <u>580-748-1613</u> Email: <u>tom@pimaoil.com</u> Report due by:					Bill To Attention: <u>Devon Energy</u> Address: City, State, Zip: Phone: Email: Pima Project # <u>1-15</u>					Lab Use Only Lab WO# <u>E301152</u> Job Number <u>Q058-0007</u> Analysis and Method DRO/ORO by 8015 GRO/DRO by 8015 BTEX by 8021 VOC by 8260 Metals 6010 Chloride 300.0 BGDOC NM BGDOC TX					TAT 1D 2D 3D Standard <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>				EPA Program CWA SDWA RCRA State NM CO UT AZ TX <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	Remarks						
8:50	1/29/23	S	1	CS-11	11							X								
8:55				CS-12	12															
9:00				CS-13	13															
9:05				CS-14	14															
9:10				CS-15	15															
9:15				CS-16	16															
9:20				CS-17	17															
9:25				CS-18	18															
9:30				CSW-1	19															
9:35				CSW-2	20															

Additional Instructions: Bill To Devon Energy: 20868753

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: Audrey Benavidez

Relinquished by: (Signature) Red Refers Date 1-30-23 Time 2:00 Received by: (Signature) Michelle Guyer Date 1-30-23 Time 1400

Relinquished by: (Signature) Michelle Guyer Date 1-30-23 Time 1730 Received by: (Signature) Lorenza Date 1-30-23 Time 1730

Relinquished by: (Signature) Lorenza Date 1-30-23 Time 23:5 Received by: (Signature) Carla Chute Date 1/31/23 Time 8:15

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: ☒ N  
T1 T2 T3  
AVG Temp °C 4

## Envirotech Analytical Laboratory

Printed: 1/31/2023 9:12:00AM

## Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Pima Environmental Services-Carlsbad	Date Received:	01/31/23 08:15	Work Order ID:	E301152
Phone:	(575) 631-6977	Date Logged In:	01/30/23 15:41	Logged In By:	Caitlin Christian
Email:	tom@pimaoil.com	Due Date:	01/31/23 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: CourierComments/Resolution

Project Spica 25 Fed 3H has been separated into 3 reports due to sample volume. Workorders are as follows:  
E301152/E301153/E301154

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:  
Tom Bynum



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Pima Environmental Services-Carlsbad

Project Name: Spica 25 Fed 3H

Work Order: E301153

Job Number: 01058-0007

Received: 1/31/2023

Revision: 2

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
2/1/23

5796 U.S. Hwy 64  
Farmington, NM 87401

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



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



Date Reported: 2/1/23

Tom Bynum  
PO Box 247  
Plains, TX 79355-0247



Project Name: Spica 25 Fed 3H  
Workorder: E301153  
Date Received: 1/31/2023 8:15:00AM

Tom Bynum,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 1/31/2023 8:15:00AM, under the Project Name: Spica 25 Fed 3H.

The analytical test results summarized in this report with the Project Name: Spica 25 Fed 3H 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](mailto:whinchman@envirotech-inc.com)

**Raina Schwanz**  
Laboratory Administrator  
Office: 505-632-1881  
[rainaschwanz@envirotech-inc.com](mailto:rainaschwanz@envirotech-inc.com)

**Alexa Michaels**  
Sample Custody Officer  
Office: 505-632-1881  
[labadmin@envirotech-inc.com](mailto:labadmin@envirotech-inc.com)

Field Offices:

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

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

Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)

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## Sample Summary

Pima Environmental Services-Carlsbad	Project Name:	Spica 25 Fed 3H	<b>Reported:</b> 02/01/23 16:27
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
CSW-3	E301153-01A	Soil	01/29/23	01/31/23	Glass Jar, 2 oz.
CSW-4	E301153-02A	Soil	01/29/23	01/31/23	Glass Jar, 2 oz.
CSW-5	E301153-03A	Soil	01/29/23	01/31/23	Glass Jar, 2 oz.
CSW-6	E301153-04A	Soil	01/29/23	01/31/23	Glass Jar, 2 oz.
CSW-7	E301153-05A	Soil	01/29/23	01/31/23	Glass Jar, 2 oz.
CSW-8	E301153-06A	Soil	01/29/23	01/31/23	Glass Jar, 2 oz.
CSW-9	E301153-07A	Soil	01/29/23	01/31/23	Glass Jar, 2 oz.
CSW-10	E301153-08A	Soil	01/29/23	01/31/23	Glass Jar, 2 oz.
CSW-11	E301153-09A	Soil	01/29/23	01/31/23	Glass Jar, 2 oz.
CSW-12	E301153-10A	Soil	01/29/23	01/31/23	Glass Jar, 2 oz.
CSW-13	E301153-11A	Soil	01/29/23	01/31/23	Glass Jar, 2 oz.
CSW-14	E301153-12A	Soil	01/29/23	01/31/23	Glass Jar, 2 oz.
CSW-15	E301153-13A	Soil	01/29/23	01/31/23	Glass Jar, 2 oz.
CSW-16	E301153-14A	Soil	01/29/23	01/31/23	Glass Jar, 2 oz.
CSW-17	E301153-15A	Soil	01/29/23	01/31/23	Glass Jar, 2 oz.
CSW-18	E301153-16A	Soil	01/29/23	01/31/23	Glass Jar, 2 oz.
CSW-19	E301153-17A	Soil	01/29/23	01/31/23	Glass Jar, 2 oz.
CSW-20	E301153-18A	Soil	01/29/23	01/31/23	Glass Jar, 2 oz.
CSW-21	E301153-19A	Soil	01/29/23	01/31/23	Glass Jar, 2 oz.
CSW-22	E301153-20A	Soil	01/29/23	01/31/23	Glass Jar, 2 oz.



## Sample Data

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

Project Name: Spica 25 Fed 3H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
2/1/2023 4:27:19PM

## CSW-3

## E301153-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2305028	
Benzene	ND	0.0250	1	01/30/23	01/31/23	
Ethylbenzene	ND	0.0250	1	01/30/23	01/31/23	
Toluene	ND	0.0250	1	01/30/23	01/31/23	
o-Xylene	ND	0.0250	1	01/30/23	01/31/23	
p,m-Xylene	ND	0.0500	1	01/30/23	01/31/23	
Total Xylenes	ND	0.0250	1	01/30/23	01/31/23	
Surrogate: Bromofluorobenzene	98.7 %	70-130		01/30/23	01/31/23	
Surrogate: 1,2-Dichloroethane-d4	106 %	70-130		01/30/23	01/31/23	
Surrogate: Toluene-d8	96.4 %	70-130		01/30/23	01/31/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2305028	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/30/23	01/31/23	
Surrogate: Bromofluorobenzene	98.7 %	70-130		01/30/23	01/31/23	
Surrogate: 1,2-Dichloroethane-d4	106 %	70-130		01/30/23	01/31/23	
Surrogate: Toluene-d8	96.4 %	70-130		01/30/23	01/31/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: KM		Batch: 2305023	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/30/23	01/31/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/30/23	01/31/23	
Surrogate: n-Nonane	83.2 %	50-200		01/30/23	01/31/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2305032	
Chloride	ND	20.0	1	01/31/23	01/31/23	





Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Spica 25 Fed 3H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 2/1/2023 4:27:19PM
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CSW-4  
E301153-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2305028
Benzene	ND	0.0250	1	01/30/23	01/31/23	
Ethylbenzene	ND	0.0250	1	01/30/23	01/31/23	
Toluene	ND	0.0250	1	01/30/23	01/31/23	
o-Xylene	ND	0.0250	1	01/30/23	01/31/23	
p,m-Xylene	ND	0.0500	1	01/30/23	01/31/23	
Total Xylenes	ND	0.0250	1	01/30/23	01/31/23	
Surrogate: Bromofluorobenzene	99.2 %	70-130		01/30/23	01/31/23	
Surrogate: 1,2-Dichloroethane-d4	105 %	70-130		01/30/23	01/31/23	
Surrogate: Toluene-d8	95.4 %	70-130		01/30/23	01/31/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2305028
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/30/23	01/31/23	
Surrogate: Bromofluorobenzene	99.2 %	70-130		01/30/23	01/31/23	
Surrogate: 1,2-Dichloroethane-d4	105 %	70-130		01/30/23	01/31/23	
Surrogate: Toluene-d8	95.4 %	70-130		01/30/23	01/31/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2305023
Diesel Range Organics (C10-C28)	ND	25.0	1	01/30/23	01/31/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/30/23	01/31/23	
Surrogate: n-Nonane	88.3 %	50-200		01/30/23	01/31/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2305032
Chloride	ND	20.0	1	01/31/23	01/31/23	



## Sample Data

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

Project Name: Spica 25 Fed 3H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
2/1/2023 4:27:19PM

## CSW-5

## E301153-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2305028
Benzene	ND	0.0250	1	01/30/23	01/31/23	
Ethylbenzene	ND	0.0250	1	01/30/23	01/31/23	
Toluene	ND	0.0250	1	01/30/23	01/31/23	
o-Xylene	ND	0.0250	1	01/30/23	01/31/23	
p,m-Xylene	ND	0.0500	1	01/30/23	01/31/23	
Total Xylenes	ND	0.0250	1	01/30/23	01/31/23	
Surrogate: Bromofluorobenzene		100 %	70-130	01/30/23	01/31/23	
Surrogate: 1,2-Dichloroethane-d4		108 %	70-130	01/30/23	01/31/23	
Surrogate: Toluene-d8		94.9 %	70-130	01/30/23	01/31/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2305028
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/30/23	01/31/23	
Surrogate: Bromofluorobenzene		100 %	70-130	01/30/23	01/31/23	
Surrogate: 1,2-Dichloroethane-d4		108 %	70-130	01/30/23	01/31/23	
Surrogate: Toluene-d8		94.9 %	70-130	01/30/23	01/31/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2305023
Diesel Range Organics (C10-C28)	ND	25.0	1	01/30/23	01/31/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/30/23	01/31/23	
Surrogate: n-Nonane		80.6 %	50-200	01/30/23	01/31/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2305032
Chloride	ND	20.0	1	01/31/23	01/31/23	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Spica 25 Fed 3H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 2/1/2023 4:27:19PM
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CSW-6  
E301153-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2305028
Benzene	ND	0.0250	1	01/30/23	01/31/23	
Ethylbenzene	ND	0.0250	1	01/30/23	01/31/23	
Toluene	ND	0.0250	1	01/30/23	01/31/23	
o-Xylene	ND	0.0250	1	01/30/23	01/31/23	
p,m-Xylene	ND	0.0500	1	01/30/23	01/31/23	
Total Xylenes	ND	0.0250	1	01/30/23	01/31/23	
Surrogate: Bromofluorobenzene	97.0 %	70-130		01/30/23	01/31/23	
Surrogate: 1,2-Dichloroethane-d4	103 %	70-130		01/30/23	01/31/23	
Surrogate: Toluene-d8	95.7 %	70-130		01/30/23	01/31/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2305028
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/30/23	01/31/23	
Surrogate: Bromofluorobenzene	97.0 %	70-130		01/30/23	01/31/23	
Surrogate: 1,2-Dichloroethane-d4	103 %	70-130		01/30/23	01/31/23	
Surrogate: Toluene-d8	95.7 %	70-130		01/30/23	01/31/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2305023
Diesel Range Organics (C10-C28)	ND	25.0	1	01/30/23	01/31/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/30/23	01/31/23	
Surrogate: n-Nonane	92.8 %	50-200		01/30/23	01/31/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2305032
Chloride	ND	20.0	1	01/31/23	01/31/23	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Spica 25 Fed 3H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 2/1/2023 4:27:19PM
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CSW-7  
E301153-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2305028	
Benzene	ND	0.0250	1	01/30/23	01/31/23	
Ethylbenzene	ND	0.0250	1	01/30/23	01/31/23	
Toluene	ND	0.0250	1	01/30/23	01/31/23	
o-Xylene	ND	0.0250	1	01/30/23	01/31/23	
p,m-Xylene	ND	0.0500	1	01/30/23	01/31/23	
Total Xylenes	ND	0.0250	1	01/30/23	01/31/23	
Surrogate: Bromofluorobenzene	96.4 %	70-130		01/30/23	01/31/23	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		01/30/23	01/31/23	
Surrogate: Toluene-d8	96.0 %	70-130		01/30/23	01/31/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2305028	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/30/23	01/31/23	
Surrogate: Bromofluorobenzene	96.4 %	70-130		01/30/23	01/31/23	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		01/30/23	01/31/23	
Surrogate: Toluene-d8	96.0 %	70-130		01/30/23	01/31/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: KM		Batch: 2305023	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/30/23	01/31/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/30/23	01/31/23	
Surrogate: n-Nonane	93.6 %	50-200		01/30/23	01/31/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2305032	
Chloride	ND	20.0	1	01/31/23	01/31/23	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Spica 25 Fed 3H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 2/1/2023 4:27:19PM
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CSW-8  
E301153-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2305028	
Benzene	ND	0.0250	1	01/30/23	01/31/23	
Ethylbenzene	ND	0.0250	1	01/30/23	01/31/23	
Toluene	ND	0.0250	1	01/30/23	01/31/23	
o-Xylene	ND	0.0250	1	01/30/23	01/31/23	
p,m-Xylene	ND	0.0500	1	01/30/23	01/31/23	
Total Xylenes	ND	0.0250	1	01/30/23	01/31/23	
Surrogate: Bromofluorobenzene	97.9 %	70-130		01/30/23	01/31/23	
Surrogate: 1,2-Dichloroethane-d4	106 %	70-130		01/30/23	01/31/23	
Surrogate: Toluene-d8	95.5 %	70-130		01/30/23	01/31/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2305028	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/30/23	01/31/23	
Surrogate: Bromofluorobenzene	97.9 %	70-130		01/30/23	01/31/23	
Surrogate: 1,2-Dichloroethane-d4	106 %	70-130		01/30/23	01/31/23	
Surrogate: Toluene-d8	95.5 %	70-130		01/30/23	01/31/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KM		Batch: 2305023	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/30/23	01/31/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/30/23	01/31/23	
Surrogate: n-Nonane	92.6 %	50-200		01/30/23	01/31/23	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2305032	
Chloride	ND	20.0	1	01/31/23	01/31/23	





Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Spica 25 Fed 3H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 2/1/2023 4:27:19PM
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CSW-9  
E301153-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2305028	
Benzene	ND	0.0250	1	01/30/23	01/31/23	
Ethylbenzene	ND	0.0250	1	01/30/23	01/31/23	
Toluene	ND	0.0250	1	01/30/23	01/31/23	
o-Xylene	ND	0.0250	1	01/30/23	01/31/23	
p,m-Xylene	ND	0.0500	1	01/30/23	01/31/23	
Total Xylenes	ND	0.0250	1	01/30/23	01/31/23	
Surrogate: Bromofluorobenzene		105 %	70-130	01/30/23	01/31/23	
Surrogate: 1,2-Dichloroethane-d4		117 %	70-130	01/30/23	01/31/23	
Surrogate: Toluene-d8		90.2 %	70-130	01/30/23	01/31/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2305028	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/30/23	01/31/23	
Surrogate: Bromofluorobenzene		105 %	70-130	01/30/23	01/31/23	
Surrogate: 1,2-Dichloroethane-d4		117 %	70-130	01/30/23	01/31/23	
Surrogate: Toluene-d8		90.2 %	70-130	01/30/23	01/31/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KM		Batch: 2305023	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/30/23	01/31/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/30/23	01/31/23	
Surrogate: n-Nonane		97.0 %	50-200	01/30/23	01/31/23	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2305032	
Chloride	ND	20.0	1	01/31/23	01/31/23	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Spica 25 Fed 3H	<b>Reported:</b> 2/1/2023 4:27:19PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

CSW-10

E301153-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2305028	
Benzene	ND	0.0250	1	01/30/23	01/31/23	
Ethylbenzene	ND	0.0250	1	01/30/23	01/31/23	
Toluene	ND	0.0250	1	01/30/23	01/31/23	
o-Xylene	ND	0.0250	1	01/30/23	01/31/23	
p,m-Xylene	ND	0.0500	1	01/30/23	01/31/23	
Total Xylenes	ND	0.0250	1	01/30/23	01/31/23	
Surrogate: Bromofluorobenzene		105 %	70-130	01/30/23	01/31/23	
Surrogate: 1,2-Dichloroethane-d4		117 %	70-130	01/30/23	01/31/23	
Surrogate: Toluene-d8		91.2 %	70-130	01/30/23	01/31/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2305028	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/30/23	01/31/23	
Surrogate: Bromofluorobenzene		105 %	70-130	01/30/23	01/31/23	
Surrogate: 1,2-Dichloroethane-d4		117 %	70-130	01/30/23	01/31/23	
Surrogate: Toluene-d8		91.2 %	70-130	01/30/23	01/31/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: KM		Batch: 2305023	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/30/23	01/31/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/30/23	01/31/23	
Surrogate: n-Nonane		100 %	50-200	01/30/23	01/31/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2305032	
Chloride	ND	20.0	1	01/31/23	01/31/23	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Spica 25 Fed 3H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 2/1/2023 4:27:19PM
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CSW-11

E301153-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2305028
Benzene	ND	0.0250	1	01/30/23	01/31/23	
Ethylbenzene	ND	0.0250	1	01/30/23	01/31/23	
Toluene	ND	0.0250	1	01/30/23	01/31/23	
o-Xylene	ND	0.0250	1	01/30/23	01/31/23	
p,m-Xylene	ND	0.0500	1	01/30/23	01/31/23	
Total Xylenes	ND	0.0250	1	01/30/23	01/31/23	
Surrogate: Bromofluorobenzene		104 %	70-130	01/30/23	01/31/23	
Surrogate: 1,2-Dichloroethane-d4		116 %	70-130	01/30/23	01/31/23	
Surrogate: Toluene-d8		92.0 %	70-130	01/30/23	01/31/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2305028
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/30/23	01/31/23	
Surrogate: Bromofluorobenzene		104 %	70-130	01/30/23	01/31/23	
Surrogate: 1,2-Dichloroethane-d4		116 %	70-130	01/30/23	01/31/23	
Surrogate: Toluene-d8		92.0 %	70-130	01/30/23	01/31/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2305023
Diesel Range Organics (C10-C28)	ND	25.0	1	01/30/23	01/31/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/30/23	01/31/23	
Surrogate: n-Nonane		98.6 %	50-200	01/30/23	01/31/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2305032
Chloride	ND	20.0	1	01/31/23	01/31/23	



## Sample Data

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

Project Name: Spica 25 Fed 3H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
2/1/2023 4:27:19PM

## CSW-12

## E301153-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2305028
Benzene	ND	0.0250	1	01/30/23	01/31/23	
Ethylbenzene	ND	0.0250	1	01/30/23	01/31/23	
Toluene	ND	0.0250	1	01/30/23	01/31/23	
o-Xylene	ND	0.0250	1	01/30/23	01/31/23	
p,m-Xylene	ND	0.0500	1	01/30/23	01/31/23	
Total Xylenes	ND	0.0250	1	01/30/23	01/31/23	
Surrogate: Bromofluorobenzene		106 %	70-130	01/30/23	01/31/23	
Surrogate: 1,2-Dichloroethane-d4		115 %	70-130	01/30/23	01/31/23	
Surrogate: Toluene-d8		91.8 %	70-130	01/30/23	01/31/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2305028
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/30/23	01/31/23	
Surrogate: Bromofluorobenzene		106 %	70-130	01/30/23	01/31/23	
Surrogate: 1,2-Dichloroethane-d4		115 %	70-130	01/30/23	01/31/23	
Surrogate: Toluene-d8		91.8 %	70-130	01/30/23	01/31/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2305023
Diesel Range Organics (C10-C28)	ND	25.0	1	01/30/23	01/31/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/30/23	01/31/23	
Surrogate: n-Nonane		98.5 %	50-200	01/30/23	01/31/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2305032
Chloride	ND	20.0	1	01/31/23	01/31/23	



## Sample Data

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

Project Name: Spica 25 Fed 3H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
2/1/2023 4:27:19PM

## CSW-13

## E301153-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2305028
Benzene	ND	0.0250	1	01/30/23	01/31/23	
Ethylbenzene	ND	0.0250	1	01/30/23	01/31/23	
Toluene	ND	0.0250	1	01/30/23	01/31/23	
o-Xylene	ND	0.0250	1	01/30/23	01/31/23	
p,m-Xylene	ND	0.0500	1	01/30/23	01/31/23	
Total Xylenes	ND	0.0250	1	01/30/23	01/31/23	
Surrogate: Bromofluorobenzene		106 %	70-130	01/30/23	01/31/23	
Surrogate: 1,2-Dichloroethane-d4		117 %	70-130	01/30/23	01/31/23	
Surrogate: Toluene-d8		91.8 %	70-130	01/30/23	01/31/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2305028
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/30/23	01/31/23	
Surrogate: Bromofluorobenzene		106 %	70-130	01/30/23	01/31/23	
Surrogate: 1,2-Dichloroethane-d4		117 %	70-130	01/30/23	01/31/23	
Surrogate: Toluene-d8		91.8 %	70-130	01/30/23	01/31/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2305023
Diesel Range Organics (C10-C28)	ND	25.0	1	01/30/23	01/31/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/30/23	01/31/23	
Surrogate: n-Nonane		98.8 %	50-200	01/30/23	01/31/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2305032
Chloride	ND	20.0	1	01/31/23	01/31/23	





Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Spica 25 Fed 3H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 2/1/2023 4:27:19PM
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CSW-14

E301153-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2305028	
Benzene	ND	0.0250	1	01/30/23	01/31/23	
Ethylbenzene	ND	0.0250	1	01/30/23	01/31/23	
Toluene	ND	0.0250	1	01/30/23	01/31/23	
o-Xylene	ND	0.0250	1	01/30/23	01/31/23	
p,m-Xylene	ND	0.0500	1	01/30/23	01/31/23	
Total Xylenes	ND	0.0250	1	01/30/23	01/31/23	
Surrogate: Bromofluorobenzene		104 %	70-130	01/30/23	01/31/23	
Surrogate: 1,2-Dichloroethane-d4		115 %	70-130	01/30/23	01/31/23	
Surrogate: Toluene-d8		91.1 %	70-130	01/30/23	01/31/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2305028	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/30/23	01/31/23	
Surrogate: Bromofluorobenzene		104 %	70-130	01/30/23	01/31/23	
Surrogate: 1,2-Dichloroethane-d4		115 %	70-130	01/30/23	01/31/23	
Surrogate: Toluene-d8		91.1 %	70-130	01/30/23	01/31/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: KM		Batch: 2305023	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/30/23	01/31/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/30/23	01/31/23	
Surrogate: n-Nonane		101 %	50-200	01/30/23	01/31/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2305032	
Chloride	ND	20.0	1	01/31/23	01/31/23	



## Sample Data

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

Project Name: Spica 25 Fed 3H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
2/1/2023 4:27:19PM

## CSW-15

## E301153-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2305028
Benzene	ND	0.0250	1	01/30/23	01/31/23	
Ethylbenzene	ND	0.0250	1	01/30/23	01/31/23	
Toluene	ND	0.0250	1	01/30/23	01/31/23	
o-Xylene	ND	0.0250	1	01/30/23	01/31/23	
p,m-Xylene	ND	0.0500	1	01/30/23	01/31/23	
Total Xylenes	ND	0.0250	1	01/30/23	01/31/23	
Surrogate: Bromofluorobenzene		102 %	70-130	01/30/23	01/31/23	
Surrogate: 1,2-Dichloroethane-d4		114 %	70-130	01/30/23	01/31/23	
Surrogate: Toluene-d8		90.9 %	70-130	01/30/23	01/31/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2305028
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/30/23	01/31/23	
Surrogate: Bromofluorobenzene		102 %	70-130	01/30/23	01/31/23	
Surrogate: 1,2-Dichloroethane-d4		114 %	70-130	01/30/23	01/31/23	
Surrogate: Toluene-d8		90.9 %	70-130	01/30/23	01/31/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2305023
Diesel Range Organics (C10-C28)	ND	25.0	1	01/30/23	01/31/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/30/23	01/31/23	
Surrogate: n-Nonane		97.9 %	50-200	01/30/23	01/31/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2305032
Chloride	ND	20.0	1	01/31/23	01/31/23	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Spica 25 Fed 3H	<b>Reported:</b> 2/1/2023 4:27:19PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

CSW-16

E301153-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2305028	
Benzene	ND	0.0250	1	01/30/23	01/31/23	
Ethylbenzene	ND	0.0250	1	01/30/23	01/31/23	
Toluene	ND	0.0250	1	01/30/23	01/31/23	
o-Xylene	ND	0.0250	1	01/30/23	01/31/23	
p,m-Xylene	ND	0.0500	1	01/30/23	01/31/23	
Total Xylenes	ND	0.0250	1	01/30/23	01/31/23	
Surrogate: Bromofluorobenzene		103 %	70-130	01/30/23	01/31/23	
Surrogate: 1,2-Dichloroethane-d4		117 %	70-130	01/30/23	01/31/23	
Surrogate: Toluene-d8		91.5 %	70-130	01/30/23	01/31/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2305028	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/30/23	01/31/23	
Surrogate: Bromofluorobenzene		103 %	70-130	01/30/23	01/31/23	
Surrogate: 1,2-Dichloroethane-d4		117 %	70-130	01/30/23	01/31/23	
Surrogate: Toluene-d8		91.5 %	70-130	01/30/23	01/31/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: KM		Batch: 2305023	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/30/23	01/31/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/30/23	01/31/23	
Surrogate: n-Nonane		100 %	50-200	01/30/23	01/31/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2305032	
Chloride	ND	20.0	1	01/31/23	01/31/23	



## Sample Data

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

Project Name: Spica 25 Fed 3H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
2/1/2023 4:27:19PM

## CSW-17

## E301153-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2305028
Benzene	ND	0.0250	1	01/30/23	01/31/23	
Ethylbenzene	ND	0.0250	1	01/30/23	01/31/23	
Toluene	ND	0.0250	1	01/30/23	01/31/23	
o-Xylene	ND	0.0250	1	01/30/23	01/31/23	
p,m-Xylene	ND	0.0500	1	01/30/23	01/31/23	
Total Xylenes	ND	0.0250	1	01/30/23	01/31/23	
Surrogate: Bromofluorobenzene	92.7 %	70-130		01/30/23	01/31/23	
Surrogate: 1,2-Dichloroethane-d4	98.2 %	70-130		01/30/23	01/31/23	
Surrogate: Toluene-d8	101 %	70-130		01/30/23	01/31/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2305028
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/30/23	01/31/23	
Surrogate: Bromofluorobenzene	92.7 %	70-130		01/30/23	01/31/23	
Surrogate: 1,2-Dichloroethane-d4	98.2 %	70-130		01/30/23	01/31/23	
Surrogate: Toluene-d8	101 %	70-130		01/30/23	01/31/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2305023
Diesel Range Organics (C10-C28)	ND	25.0	1	01/30/23	01/31/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/30/23	01/31/23	
Surrogate: n-Nonane	102 %	50-200		01/30/23	01/31/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2305032
Chloride	ND	20.0	1	01/31/23	01/31/23	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Spica 25 Fed 3H	<b>Reported:</b> 2/1/2023 4:27:19PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

CSW-18

E301153-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2305028	
Benzene	ND	0.0250	1	01/30/23	01/31/23	
Ethylbenzene	ND	0.0250	1	01/30/23	01/31/23	
Toluene	ND	0.0250	1	01/30/23	01/31/23	
o-Xylene	ND	0.0250	1	01/30/23	01/31/23	
p,m-Xylene	ND	0.0500	1	01/30/23	01/31/23	
Total Xylenes	ND	0.0250	1	01/30/23	01/31/23	
Surrogate: Bromofluorobenzene	91.8 %	70-130		01/30/23	01/31/23	
Surrogate: 1,2-Dichloroethane-d4	93.6 %	70-130		01/30/23	01/31/23	
Surrogate: Toluene-d8	103 %	70-130		01/30/23	01/31/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2305028	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/30/23	01/31/23	
Surrogate: Bromofluorobenzene	91.8 %	70-130		01/30/23	01/31/23	
Surrogate: 1,2-Dichloroethane-d4	93.6 %	70-130		01/30/23	01/31/23	
Surrogate: Toluene-d8	103 %	70-130		01/30/23	01/31/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KM		Batch: 2305023	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/30/23	01/31/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/30/23	01/31/23	
Surrogate: n-Nonane	100 %	50-200		01/30/23	01/31/23	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2305032	
Chloride	ND	20.0	1	01/31/23	01/31/23	





## Sample Data

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

Project Name: Spica 25 Fed 3H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
2/1/2023 4:27:19PM

**CSW-19**  
**E301153-17**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2305028
Benzene	ND	0.0250	1	01/30/23	01/31/23	
Ethylbenzene	ND	0.0250	1	01/30/23	01/31/23	
Toluene	ND	0.0250	1	01/30/23	01/31/23	
o-Xylene	ND	0.0250	1	01/30/23	01/31/23	
p,m-Xylene	ND	0.0500	1	01/30/23	01/31/23	
Total Xylenes	ND	0.0250	1	01/30/23	01/31/23	
Surrogate: Bromofluorobenzene		103 %	70-130	01/30/23	01/31/23	
Surrogate: 1,2-Dichloroethane-d4		112 %	70-130	01/30/23	01/31/23	
Surrogate: Toluene-d8		90.4 %	70-130	01/30/23	01/31/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2305028
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/30/23	01/31/23	
Surrogate: Bromofluorobenzene		103 %	70-130	01/30/23	01/31/23	
Surrogate: 1,2-Dichloroethane-d4		112 %	70-130	01/30/23	01/31/23	
Surrogate: Toluene-d8		90.4 %	70-130	01/30/23	01/31/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2305023
Diesel Range Organics (C10-C28)	ND	25.0	1	01/30/23	01/31/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/30/23	01/31/23	
Surrogate: n-Nonane		99.8 %	50-200	01/30/23	01/31/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2305032
Chloride	ND	20.0	1	01/31/23	01/31/23	



## Sample Data

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

Project Name: Spica 25 Fed 3H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
2/1/2023 4:27:19PM

## CSW-20

## E301153-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2305028
Benzene	ND	0.0250	1	01/30/23	01/31/23	
Ethylbenzene	ND	0.0250	1	01/30/23	01/31/23	
Toluene	ND	0.0250	1	01/30/23	01/31/23	
o-Xylene	ND	0.0250	1	01/30/23	01/31/23	
p,m-Xylene	ND	0.0500	1	01/30/23	01/31/23	
Total Xylenes	ND	0.0250	1	01/30/23	01/31/23	
Surrogate: Bromofluorobenzene	95.4 %	70-130		01/30/23	01/31/23	
Surrogate: 1,2-Dichloroethane-d4	104 %	70-130		01/30/23	01/31/23	
Surrogate: Toluene-d8	96.3 %	70-130		01/30/23	01/31/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2305028
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/30/23	01/31/23	
Surrogate: Bromofluorobenzene	95.4 %	70-130		01/30/23	01/31/23	
Surrogate: 1,2-Dichloroethane-d4	104 %	70-130		01/30/23	01/31/23	
Surrogate: Toluene-d8	96.3 %	70-130		01/30/23	01/31/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2305023
Diesel Range Organics (C10-C28)	ND	25.0	1	01/30/23	01/31/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/30/23	01/31/23	
Surrogate: n-Nonane	101 %	50-200		01/30/23	01/31/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2305032
Chloride	ND	20.0	1	01/31/23	01/31/23	



## Sample Data

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

Project Name: Spica 25 Fed 3H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
2/1/2023 4:27:19PM

## CSW-21

## E301153-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2305028
Benzene	ND	0.0250	1	01/30/23	01/31/23	
Ethylbenzene	ND	0.0250	1	01/30/23	01/31/23	
Toluene	ND	0.0250	1	01/30/23	01/31/23	
o-Xylene	ND	0.0250	1	01/30/23	01/31/23	
p,m-Xylene	ND	0.0500	1	01/30/23	01/31/23	
Total Xylenes	ND	0.0250	1	01/30/23	01/31/23	
Surrogate: Bromofluorobenzene	97.5 %	70-130		01/30/23	01/31/23	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		01/30/23	01/31/23	
Surrogate: Toluene-d8	95.9 %	70-130		01/30/23	01/31/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2305028
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/30/23	01/31/23	
Surrogate: Bromofluorobenzene	97.5 %	70-130		01/30/23	01/31/23	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		01/30/23	01/31/23	
Surrogate: Toluene-d8	95.9 %	70-130		01/30/23	01/31/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2305023
Diesel Range Organics (C10-C28)	ND	25.0	1	01/30/23	01/31/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/30/23	01/31/23	
Surrogate: n-Nonane	99.2 %	50-200		01/30/23	01/31/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2305032
Chloride	ND	20.0	1	01/31/23	01/31/23	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Spica 25 Fed 3H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 2/1/2023 4:27:19PM
-----------------------------------------------------------------------------	-------------------------------------------------------------------------------------------	---------------------------------

CSW-22

E301153-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2305028	
Benzene	ND	0.0250	1	01/30/23	01/31/23	
Ethylbenzene	ND	0.0250	1	01/30/23	01/31/23	
Toluene	ND	0.0250	1	01/30/23	01/31/23	
o-Xylene	ND	0.0250	1	01/30/23	01/31/23	
p,m-Xylene	ND	0.0500	1	01/30/23	01/31/23	
Total Xylenes	ND	0.0250	1	01/30/23	01/31/23	
Surrogate: Bromofluorobenzene	95.6 %	70-130		01/30/23	01/31/23	
Surrogate: 1,2-Dichloroethane-d4	104 %	70-130		01/30/23	01/31/23	
Surrogate: Toluene-d8	94.1 %	70-130		01/30/23	01/31/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2305028	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/30/23	01/31/23	
Surrogate: Bromofluorobenzene	95.6 %	70-130		01/30/23	01/31/23	
Surrogate: 1,2-Dichloroethane-d4	104 %	70-130		01/30/23	01/31/23	
Surrogate: Toluene-d8	94.1 %	70-130		01/30/23	01/31/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: KM		Batch: 2305023	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/30/23	01/31/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/30/23	01/31/23	
Surrogate: n-Nonane	101 %	50-200		01/30/23	01/31/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2305032	
Chloride	ND	20.0	1	01/31/23	01/31/23	



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Spica 25 Fed 3H	Reported:  2/1/2023 4:27:19PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

Volatile Organic Compounds by EPA 8260B

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2305028-BLK1)

Prepared: 01/30/23 Analyzed: 01/31/23

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.487		0.500		97.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.499		0.500		99.7	70-130			
Surrogate: Toluene-d8	0.476		0.500		95.2	70-130			

LCS (2305028-BS1)

Prepared: 01/30/23 Analyzed: 01/31/23

Benzene	2.51	0.0250	2.50		100	70-130			
Ethylbenzene	2.46	0.0250	2.50		98.2	70-130			
Toluene	2.39	0.0250	2.50		95.8	70-130			
o-Xylene	2.56	0.0250	2.50		103	70-130			
p,m-Xylene	5.06	0.0500	5.00		101	70-130			
Total Xylenes	7.63	0.0250	7.50		102	70-130			
Surrogate: Bromofluorobenzene	0.497		0.500		99.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.519		0.500		104	70-130			
Surrogate: Toluene-d8	0.486		0.500		97.2	70-130			

LCS Dup (2305028-BSD1)

Prepared: 01/30/23 Analyzed: 01/31/23

Benzene	2.85	0.0250	2.50		114	70-130	12.7	23	
Ethylbenzene	2.76	0.0250	2.50		110	70-130	11.6	27	
Toluene	2.74	0.0250	2.50		110	70-130	13.5	24	
o-Xylene	2.90	0.0250	2.50		116	70-130	12.3	27	
p,m-Xylene	5.71	0.0500	5.00		114	70-130	12.0	27	
Total Xylenes	8.61	0.0250	7.50		115	70-130	12.1	27	
Surrogate: Bromofluorobenzene	0.507		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.498		0.500		99.6	70-130			
Surrogate: Toluene-d8	0.485		0.500		96.9	70-130			





## QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Spica 25 Fed 3H	<b>Reported:</b>  2/1/2023 4:27:19PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

## Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2305028-BLK1)

Prepared: 01/30/23 Analyzed: 01/31/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.487		0.500		97.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.499		0.500		99.7	70-130			
Surrogate: Toluene-d8	0.476		0.500		95.2	70-130			

## LCS (2305028-BS2)

Prepared: 01/30/23 Analyzed: 01/31/23

Gasoline Range Organics (C6-C10)	43.4	20.0	50.0		86.7	70-130			
Surrogate: Bromofluorobenzene	0.499		0.500		99.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.500		0.500		100	70-130			
Surrogate: Toluene-d8	0.484		0.500		96.7	70-130			

## LCS Dup (2305028-BSD2)

Prepared: 01/30/23 Analyzed: 01/31/23

Gasoline Range Organics (C6-C10)	48.5	20.0	50.0		97.0	70-130	11.3	20	
Surrogate: Bromofluorobenzene	0.502		0.500		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.494		0.500		98.7	70-130			
Surrogate: Toluene-d8	0.486		0.500		97.2	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Spica 25 Fed 3H	Reported:  2/1/2023 4:27:19PM
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 (2305023-BLK1)					Prepared: 01/30/23 Analyzed: 01/31/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	47.2		50.0		94.4	50-200			

LCS (2305023-BS1)					Prepared: 01/30/23 Analyzed: 01/31/23				
Diesel Range Organics (C10-C28)	268	25.0	250		107	38-132			
Surrogate: n-Nonane	50.2		50.0		100	50-200			

Matrix Spike (2305023-MS1)					Source: E301153-10		Prepared: 01/30/23 Analyzed: 01/31/23		
Diesel Range Organics (C10-C28)	276	25.0	250	ND	110	38-132			
Surrogate: n-Nonane	49.5		50.0		99.0	50-200			

Matrix Spike Dup (2305023-MSD1)					Source: E301153-10		Prepared: 01/30/23 Analyzed: 01/31/23		
Diesel Range Organics (C10-C28)	272	25.0	250	ND	109	38-132	1.43	20	
Surrogate: n-Nonane	48.7		50.0		97.5	50-200			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Spica 25 Fed 3H	Reported:  2/1/2023 4:27:19PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

Anions by EPA 300.0/9056A

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2305032-BLK1)					Prepared: 01/31/23 Analyzed: 01/31/23				
Chloride	ND	20.0							
LCS (2305032-BS1)					Prepared: 01/31/23 Analyzed: 01/31/23				
Chloride	248	20.0	250		99.3	90-110			
LCS Dup (2305032-BSD1)					Prepared: 01/31/23 Analyzed: 01/31/23				
Chloride	249	20.0	250		99.6	90-110	0.290	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:	Spica 25 Fed 3H	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	02/01/23 16:27

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

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

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



## Project Information

## Chain of Custody

Page 3 of 6

Client: Pima Environmental Services		Bill To		Lab Use Only		TAT		EPA Program					
Project: <u>SPICA 25 Fed 3H</u>		Attention: <u>Devon Energy</u>		Lab WO# <u>E 301153</u>		Job Number <u>01058-0007</u>		1D	2D	3D	Standard	CWA	SDWA
Project Manager: Tom Bynum		Address:		Analysis and Method								RCRA	
Address: <u>5614 N. Lovington Hwy.</u>		City, State, Zip		DRO/DRO by 8015		GRO/DRO by 8015		BTEX by 8021		VOC by 8260		Metals 6010	
City, State, Zip <u>Hobbs, NM, 88240</u>		Phone:										Chloride 300.0	
Phone: <u>580-748-1613</u>		Email:										BGDOC NM	
Email: <u>tom@pimaoil.com</u>		Pima Project # <u>1-15</u>										BGDOC TX	
Report due by:												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	Remarks
9:40	1/29/23	S	1	CSW-3	1							X		
9:45				CSW-4	2									
9:50				CSW-5	3									
9:55				CSW-6	4									
10:00				CSW-7	5									
10:05				CSW-8	6									
10:10				CSW-9	7									
10:15				CSW-10	8									
10:20				CSW-11	9									
10:25				CSW-12	10									

## Additional Instructions:

Bill To Devon Energy 20868753

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: Audrey Benavidez

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

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only
<u>Ned Rogers</u>	1-30-23	2:00	<u>Audrey Benavidez</u>	1-30-23	1400	Received on ice: <u>(Y)</u> N
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	T1
<u>Audrey Benavidez</u>	1-30-23	1730	<u>Forensics</u>	1-30-23	1730	T2
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	T3
<u>Forensics</u>	1-30-23	235	<u>Carla Chute</u>	1/31/23	8:15	AVG Temp °C <u>4</u>
Sample Matrix: <u>S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other</u>			Container Type: <u>G - glass, p - poly/plastic, ag - amber glass, v - VOA</u>			

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

 envirotech



## Project Information

## Chain of Custody

Page 4 of 6

Client: Pima Environmental Services Project: <u>SPICA 25 Fed 3H</u> Project Manager: Tom Bynum Address: 5614 N. Lovington Hwy. City, State, Zip: Hobbs, NM, 88240 Phone: 580-748-1613 Email: tom@pimaoil.com Report due by:					Bill To Attention: <u>Devon Energy</u> Address: City, State, Zip: Phone: Email: Pima Project # <u>1-15</u>					Lab Use Only Lab WO# <u>E301153</u> Job Number <u>0058-0007</u> Analysis and Method						TAT 1D 2D 3D Standard				EPA Program CWA SDWA	
											NM CO UT AZ TX				RCRA						
											NM TX				State						
											NM 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							
10:30	1/29/23	S	1	CSW-13	11								X								
10:35				CSW-14	12																
10:40				CSW-15	13																
10:45				CSW-16	14																
10:50				CSW-17	15																
10:55				CSW-18	16																
11:00				CSW-19	17																
11:05				CSW-20	18																
11:10				CSW-21	19																
11:15				CSW-22	20																
Additional Instructions: <u>Bill To Devon Energy 20868753</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>Ned Hayes</u> Date <u>1-30-23</u> Time <u>2:00</u> Received by: (Signature) <u>Audrey Benavidez</u> Date <u>1-30-23</u> Time <u>1400</u>																					
Relinquished by: (Signature) <u>Ned Hayes</u> Date <u>1-30-23</u> Time <u>1730</u> Received by: (Signature) <u>Lorenzo Fei</u> Date <u>1-30-23</u> Time <u>1730</u>																					
Relinquished by: (Signature) <u>Lorenzo Fei</u> Date <u>1-30-23</u> Time <u>2315</u> Received by: (Signature) <u>Carth Chate</u> Date <u>1/31/23</u> Time <u>8:15</u>																					
Sample Matrix: <u>S</u> - Soil, <u>Sd</u> - Solid, <u>Sg</u> - Sludge, <u>A</u> - Aqueous, <u>O</u> - Other																					
Container Type: <u>g</u> - glass, <u>p</u> - poly/plastic, <u>ag</u> - amber glass, <u>v</u> - VOA																					
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																					



## Envirotech Analytical Laboratory

Printed: 1/31/2023 9:14:03AM

## Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Pima Environmental Services-Carlsbad	Date Received:	01/31/23 08:15	Work Order ID:	E301153
Phone:	(575) 631-6977	Date Logged In:	01/30/23 15:42	Logged In By:	Caitlin Christian
Email:	tom@pimaoil.com	Due Date:	01/31/23 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: CourierComments/Resolution

Project Spica 25 Fed 3H has been separated into 3 reports due to sample volume. Workorders are as follows:  
E301152/E301153/E301154

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:  
Tom Bynum



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Pima Environmental Services-Carlsbad

Project Name: Spica 25 Fed 3H

Work Order: E301154

Job Number: 01058-0007

Received: 1/31/2023

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
2/1/23

5796 U.S. Hwy 64  
Farmington, NM 87401

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



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



Date Reported: 2/1/23

Tom Bynum  
PO Box 247  
Plains, TX 79355-0247



Project Name: Spica 25 Fed 3H  
Workorder: E301154  
Date Received: 1/31/2023 8:15:00AM

Tom Bynum,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 1/31/2023 8:15:00AM, under the Project Name: Spica 25 Fed 3H.

The analytical test results summarized in this report with the Project Name: Spica 25 Fed 3H 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](mailto:whinchman@envirotech-inc.com)

**Raina Schwanz**  
Laboratory Administrator  
Office: 505-632-1881  
[rainaschwanz@envirotech-inc.com](mailto:rainaschwanz@envirotech-inc.com)

**Alexa Michaels**  
Sample Custody Officer  
Office: 505-632-1881  
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Field Offices:

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Chain of Custody etc.

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## Sample Summary

Pima Environmental Services-Carlsbad	Project Name:	Spica 25 Fed 3H	<b>Reported:</b> 02/01/23 15:49
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
CSW-23	E301154-01A	Soil	01/29/23	01/31/23	Glass Jar, 2 oz.
CSW-24	E301154-02A	Soil	01/29/23	01/31/23	Glass Jar, 2 oz.
CSW-25	E301154-03A	Soil	01/29/23	01/31/23	Glass Jar, 2 oz.
CSW-26	E301154-04A	Soil	01/29/23	01/31/23	Glass Jar, 2 oz.
CSW-27	E301154-05A	Soil	01/29/23	01/31/23	Glass Jar, 2 oz.
CSW-28	E301154-06A	Soil	01/29/23	01/31/23	Glass Jar, 2 oz.
CSW-29	E301154-07A	Soil	01/29/23	01/31/23	Glass Jar, 2 oz.
CSW-30	E301154-08A	Soil	01/29/23	01/31/23	Glass Jar, 2 oz.
CSW-31	E301154-09A	Soil	01/29/23	01/31/23	Glass Jar, 2 oz.
CSW-32	E301154-10A	Soil	01/29/23	01/31/23	Glass Jar, 2 oz.
CSW-33	E301154-11A	Soil	01/29/23	01/31/23	Glass Jar, 2 oz.
CSW-34	E301154-12A	Soil	01/29/23	01/31/23	Glass Jar, 2 oz.
CSW-35	E301154-13A	Soil	01/29/23	01/31/23	Glass Jar, 2 oz.
CSW-36	E301154-14A	Soil	01/29/23	01/31/23	Glass Jar, 2 oz.



## Sample Data

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

Project Name: Spica 25 Fed 3H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
2/1/2023 3:49:21PM

## CSW-23

## E301154-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2305022	
Benzene	ND	0.0250	1	01/30/23	01/31/23	
Ethylbenzene	ND	0.0250	1	01/30/23	01/31/23	
Toluene	ND	0.0250	1	01/30/23	01/31/23	
o-Xylene	ND	0.0250	1	01/30/23	01/31/23	
p,m-Xylene	ND	0.0500	1	01/30/23	01/31/23	
Total Xylenes	ND	0.0250	1	01/30/23	01/31/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	106 %	70-130		01/30/23	01/31/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2305022	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/30/23	01/31/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.8 %	70-130		01/30/23	01/31/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: KM		Batch: 2305027	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/30/23	01/31/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/30/23	01/31/23	
<i>Surrogate: n-Nonane</i>						
	74.0 %	50-200		01/30/23	01/31/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2305033	
Chloride	ND	20.0	1	01/31/23	01/31/23	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Spica 25 Fed 3H	<b>Reported:</b> 2/1/2023 3:49:21PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

CSW-24

E301154-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2305022	
Benzene	ND	0.0250	1	01/30/23	01/31/23	
Ethylbenzene	ND	0.0250	1	01/30/23	01/31/23	
Toluene	ND	0.0250	1	01/30/23	01/31/23	
o-Xylene	ND	0.0250	1	01/30/23	01/31/23	
p,m-Xylene	ND	0.0500	1	01/30/23	01/31/23	
Total Xylenes	ND	0.0250	1	01/30/23	01/31/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		104 %	70-130	01/30/23	01/31/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2305022	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/30/23	01/31/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		90.7 %	70-130	01/30/23	01/31/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: KM		Batch: 2305027	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/30/23	01/31/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/30/23	01/31/23	
<i>Surrogate: n-Nonane</i>						
		74.4 %	50-200	01/30/23	01/31/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2305033	
Chloride	ND	20.0	1	01/31/23	01/31/23	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Spica 25 Fed 3H	<b>Reported:</b> 2/1/2023 3:49:21PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

CSW-25

E301154-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2305022	
Benzene	ND	0.0250	1	01/30/23	01/31/23	
Ethylbenzene	ND	0.0250	1	01/30/23	01/31/23	
Toluene	ND	0.0250	1	01/30/23	01/31/23	
o-Xylene	ND	0.0250	1	01/30/23	01/31/23	
p,m-Xylene	ND	0.0500	1	01/30/23	01/31/23	
Total Xylenes	ND	0.0250	1	01/30/23	01/31/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		103 %	70-130	01/30/23	01/31/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2305022	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/30/23	01/31/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		91.3 %	70-130	01/30/23	01/31/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KM		Batch: 2305027	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/30/23	01/31/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/30/23	01/31/23	
<i>Surrogate: n-Nonane</i>						
		77.2 %	50-200	01/30/23	01/31/23	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2305033	
Chloride	ND	20.0	1	01/31/23	01/31/23	





## Sample Data

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

Project Name: Spica 25 Fed 3H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
2/1/2023 3:49:21PM

## CSW-26

## E301154-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2305022
Benzene	ND	0.0250	1	01/30/23	01/31/23	
Ethylbenzene	ND	0.0250	1	01/30/23	01/31/23	
Toluene	ND	0.0250	1	01/30/23	01/31/23	
o-Xylene	ND	0.0250	1	01/30/23	01/31/23	
p,m-Xylene	ND	0.0500	1	01/30/23	01/31/23	
Total Xylenes	ND	0.0250	1	01/30/23	01/31/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		103 %	70-130	01/30/23	01/31/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2305022
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/30/23	01/31/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		91.1 %	70-130	01/30/23	01/31/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2305027
Diesel Range Organics (C10-C28)	ND	25.0	1	01/30/23	01/31/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/30/23	01/31/23	
<i>Surrogate: n-Nonane</i>						
		76.5 %	50-200	01/30/23	01/31/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2305033
Chloride	ND	20.0	1	01/31/23	01/31/23	



## Sample Data

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

Project Name: Spica 25 Fed 3H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
2/1/2023 3:49:21PM

## CSW-27

## E301154-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2305022	
Benzene	ND	0.0250	1	01/30/23	01/31/23	
Ethylbenzene	ND	0.0250	1	01/30/23	01/31/23	
Toluene	ND	0.0250	1	01/30/23	01/31/23	
o-Xylene	ND	0.0250	1	01/30/23	01/31/23	
p,m-Xylene	ND	0.0500	1	01/30/23	01/31/23	
Total Xylenes	ND	0.0250	1	01/30/23	01/31/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		103 %	70-130	01/30/23	01/31/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2305022	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/30/23	01/31/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		90.8 %	70-130	01/30/23	01/31/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: KM		Batch: 2305027	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/30/23	01/31/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/30/23	01/31/23	
<i>Surrogate: n-Nonane</i>						
		78.2 %	50-200	01/30/23	01/31/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2305033	
Chloride	ND	20.0	1	01/31/23	01/31/23	



## Sample Data

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

Project Name: Spica 25 Fed 3H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
2/1/2023 3:49:21PM

## CSW-28

## E301154-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2305022	
Benzene	ND	0.0250	1	01/30/23	01/31/23	
Ethylbenzene	ND	0.0250	1	01/30/23	01/31/23	
Toluene	ND	0.0250	1	01/30/23	01/31/23	
o-Xylene	ND	0.0250	1	01/30/23	01/31/23	
p,m-Xylene	ND	0.0500	1	01/30/23	01/31/23	
Total Xylenes	ND	0.0250	1	01/30/23	01/31/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		103 %	70-130	01/30/23	01/31/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2305022	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/30/23	01/31/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		91.5 %	70-130	01/30/23	01/31/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: KM		Batch: 2305027	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/30/23	01/31/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/30/23	01/31/23	
<i>Surrogate: n-Nonane</i>						
		80.3 %	50-200	01/30/23	01/31/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2305033	
Chloride	ND	20.0	1	01/31/23	01/31/23	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Spica 25 Fed 3H	<b>Reported:</b> 2/1/2023 3:49:21PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

CSW-29

E301154-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2305022	
Benzene	ND	0.0250	1	01/30/23	01/31/23	
Ethylbenzene	ND	0.0250	1	01/30/23	01/31/23	
Toluene	ND	0.0250	1	01/30/23	01/31/23	
o-Xylene	ND	0.0250	1	01/30/23	01/31/23	
p,m-Xylene	ND	0.0500	1	01/30/23	01/31/23	
Total Xylenes	ND	0.0250	1	01/30/23	01/31/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		102 %	70-130	01/30/23	01/31/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2305022	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/30/23	01/31/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		90.8 %	70-130	01/30/23	01/31/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KM		Batch: 2305027	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/30/23	01/31/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/30/23	01/31/23	
<i>Surrogate: n-Nonane</i>						
		81.4 %	50-200	01/30/23	01/31/23	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2305033	
Chloride	ND	20.0	1	01/31/23	01/31/23	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Spica 25 Fed 3H	<b>Reported:</b> 2/1/2023 3:49:21PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

CSW-30

E301154-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2305022	
Benzene	ND	0.0250	1	01/30/23	01/31/23	
Ethylbenzene	ND	0.0250	1	01/30/23	01/31/23	
Toluene	ND	0.0250	1	01/30/23	01/31/23	
o-Xylene	ND	0.0250	1	01/30/23	01/31/23	
p,m-Xylene	ND	0.0500	1	01/30/23	01/31/23	
Total Xylenes	ND	0.0250	1	01/30/23	01/31/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		107 %	70-130	01/30/23	01/31/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2305022	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/30/23	01/31/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		98.8 %	70-130	01/30/23	01/31/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KM		Batch: 2305027	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/30/23	01/31/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/30/23	01/31/23	
<i>Surrogate: n-Nonane</i>						
		83.0 %	50-200	01/30/23	01/31/23	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2305033	
Chloride	ND	20.0	1	01/31/23	01/31/23	





## Sample Data

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

Project Name: Spica 25 Fed 3H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
2/1/2023 3:49:21PM

## CSW-31

## E301154-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2305022	
Benzene	ND	0.0250	1	01/30/23	01/31/23	
Ethylbenzene	ND	0.0250	1	01/30/23	01/31/23	
Toluene	ND	0.0250	1	01/30/23	01/31/23	
o-Xylene	ND	0.0250	1	01/30/23	01/31/23	
p,m-Xylene	ND	0.0500	1	01/30/23	01/31/23	
Total Xylenes	ND	0.0250	1	01/30/23	01/31/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		108 %	70-130	01/30/23	01/31/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2305022	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/30/23	01/31/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		95.7 %	70-130	01/30/23	01/31/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: KM		Batch: 2305027	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/30/23	01/31/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/30/23	01/31/23	
<i>Surrogate: n-Nonane</i>						
		82.1 %	50-200	01/30/23	01/31/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2305033	
Chloride	ND	20.0	1	01/31/23	01/31/23	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Spica 25 Fed 3H	<b>Reported:</b> 2/1/2023 3:49:21PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

CSW-32

E301154-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2305022	
Benzene	ND	0.0250	1	01/30/23	01/31/23	
Ethylbenzene	ND	0.0250	1	01/30/23	01/31/23	
Toluene	ND	0.0250	1	01/30/23	01/31/23	
o-Xylene	ND	0.0250	1	01/30/23	01/31/23	
p,m-Xylene	ND	0.0500	1	01/30/23	01/31/23	
Total Xylenes	ND	0.0250	1	01/30/23	01/31/23	
Surrogate: 4-Bromochlorobenzene-PID	108 %	70-130		01/30/23	01/31/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2305022	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/30/23	01/31/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	95.9 %	70-130		01/30/23	01/31/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KM		Batch: 2305027	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/30/23	01/31/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/30/23	01/31/23	
Surrogate: n-Nonane	81.4 %	50-200		01/30/23	01/31/23	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2305033	
Chloride	ND	20.0	1	01/31/23	01/31/23	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Spica 25 Fed 3H	<b>Reported:</b> 2/1/2023 3:49:21PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

CSW-33

E301154-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2305022	
Benzene	ND	0.0250	1	01/30/23	01/31/23	
Ethylbenzene	ND	0.0250	1	01/30/23	01/31/23	
Toluene	ND	0.0250	1	01/30/23	01/31/23	
o-Xylene	ND	0.0250	1	01/30/23	01/31/23	
p,m-Xylene	ND	0.0500	1	01/30/23	01/31/23	
Total Xylenes	ND	0.0250	1	01/30/23	01/31/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		109 %	70-130	01/30/23	01/31/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2305022	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/30/23	01/31/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		96.8 %	70-130	01/30/23	01/31/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KM		Batch: 2305027	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/30/23	01/31/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/30/23	01/31/23	
<i>Surrogate: n-Nonane</i>						
		83.7 %	50-200	01/30/23	01/31/23	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2305033	
Chloride	ND	20.0	1	01/31/23	01/31/23	



## Sample Data

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

Project Name: Spica 25 Fed 3H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
2/1/2023 3:49:21PM

## CSW-34

## E301154-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2305022	
Benzene	ND	0.0250	1	01/30/23	01/31/23	
Ethylbenzene	ND	0.0250	1	01/30/23	01/31/23	
Toluene	ND	0.0250	1	01/30/23	01/31/23	
o-Xylene	ND	0.0250	1	01/30/23	01/31/23	
p,m-Xylene	ND	0.0500	1	01/30/23	01/31/23	
Total Xylenes	ND	0.0250	1	01/30/23	01/31/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		109 %	70-130	01/30/23	01/31/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2305022	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/30/23	01/31/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		97.1 %	70-130	01/30/23	01/31/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: KM		Batch: 2305027	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/30/23	01/31/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/30/23	01/31/23	
<i>Surrogate: n-Nonane</i>						
		82.4 %	50-200	01/30/23	01/31/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2305033	
Chloride	ND	20.0	1	01/31/23	01/31/23	



## Sample Data

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

Project Name: Spica 25 Fed 3H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
2/1/2023 3:49:21PM

## CSW-35

## E301154-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2305022	
Benzene	ND	0.0250	1	01/30/23	01/31/23	
Ethylbenzene	ND	0.0250	1	01/30/23	01/31/23	
Toluene	ND	0.0250	1	01/30/23	01/31/23	
o-Xylene	ND	0.0250	1	01/30/23	01/31/23	
p,m-Xylene	ND	0.0500	1	01/30/23	01/31/23	
Total Xylenes	ND	0.0250	1	01/30/23	01/31/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		108 %	70-130	01/30/23	01/31/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2305022	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/30/23	01/31/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		97.8 %	70-130	01/30/23	01/31/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: KM		Batch: 2305027	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/30/23	01/31/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/30/23	01/31/23	
<i>Surrogate: n-Nonane</i>						
		80.8 %	50-200	01/30/23	01/31/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2305033	
Chloride	ND	20.0	1	01/31/23	01/31/23	





## Sample Data

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

Project Name: Spica 25 Fed 3H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
2/1/2023 3:49:21PM

## CSW-36

## E301154-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2305022	
Benzene	ND	0.0250	1	01/30/23	01/31/23	
Ethylbenzene	ND	0.0250	1	01/30/23	01/31/23	
Toluene	ND	0.0250	1	01/30/23	01/31/23	
o-Xylene	ND	0.0250	1	01/30/23	01/31/23	
p,m-Xylene	ND	0.0500	1	01/30/23	01/31/23	
Total Xylenes	ND	0.0250	1	01/30/23	01/31/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		108 %	70-130	01/30/23	01/31/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2305022	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/30/23	01/31/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		98.5 %	70-130	01/30/23	01/31/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: KM		Batch: 2305027	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/30/23	01/31/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/30/23	01/31/23	
<i>Surrogate: n-Nonane</i>						
		82.5 %	50-200	01/30/23	01/31/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2305033	
Chloride	ND	20.0	1	01/31/23	01/31/23	



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Spica 25 Fed 3H	Reported:  2/1/2023 3:49:21PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

Volatile Organics by EPA 8021B

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2305022-BLK1)

Prepared: 01/30/23 Analyzed: 01/31/23

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	8.37		8.00		105	70-130			

LCS (2305022-BS1)

Prepared: 01/30/23 Analyzed: 01/31/23

Benzene	5.11	0.0250	5.00		102	70-130			
Ethylbenzene	5.17	0.0250	5.00		103	70-130			
Toluene	5.28	0.0250	5.00		106	70-130			
o-Xylene	5.30	0.0250	5.00		106	70-130			
p,m-Xylene	10.5	0.0500	10.0		105	70-130			
Total Xylenes	15.8	0.0250	15.0		105	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.29		8.00		104	70-130			

LCS Dup (2305022-BSD1)

Prepared: 01/30/23 Analyzed: 01/31/23

Benzene	4.67	0.0250	5.00		93.3	70-130	9.14	20	
Ethylbenzene	4.71	0.0250	5.00		94.2	70-130	9.19	20	
Toluene	4.82	0.0250	5.00		96.3	70-130	9.24	20	
o-Xylene	4.83	0.0250	5.00		96.6	70-130	9.40	20	
p,m-Xylene	9.55	0.0500	10.0		95.5	70-130	9.08	20	
Total Xylenes	14.4	0.0250	15.0		95.8	70-130	9.19	20	
Surrogate: 4-Bromochlorobenzene-PID	8.25		8.00		103	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Spica 25 Fed 3H	Reported:  2/1/2023 3:49:21PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2305022-BLK1) Prepared: 01/30/23 Analyzed: 01/31/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.85		8.00		98.1	70-130			

LCS (2305022-BS2) Prepared: 01/30/23 Analyzed: 01/31/23

Gasoline Range Organics (C6-C10)	50.7	20.0	50.0		101	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.95		8.00		99.4	70-130			

LCS Dup (2305022-BSD2) Prepared: 01/30/23 Analyzed: 01/31/23

Gasoline Range Organics (C6-C10)	50.3	20.0	50.0		101	70-130	0.811	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.01		8.00		100	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Spica 25 Fed 3H	Reported:  2/1/2023 3:49:21PM
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 (2305027-BLK1)					Prepared: 01/30/23 Analyzed: 01/31/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	40.1		50.0		80.2	50-200			

LCS (2305027-BS1)					Prepared: 01/30/23 Analyzed: 01/31/23				
Diesel Range Organics (C10-C28)	225	25.0	250		89.9	38-132			
Surrogate: n-Nonane	40.9		50.0		81.8	50-200			

Matrix Spike (2305027-MS1)					Source: E301154-05		Prepared: 01/30/23 Analyzed: 01/31/23		
Diesel Range Organics (C10-C28)	229	25.0	250	ND	91.7	38-132			
Surrogate: n-Nonane	40.9		50.0		81.7	50-200			

Matrix Spike Dup (2305027-MSD1)					Source: E301154-05		Prepared: 01/30/23 Analyzed: 01/31/23		
Diesel Range Organics (C10-C28)	229	25.0	250	ND	91.6	38-132	0.135	20	
Surrogate: n-Nonane	39.8		50.0		79.6	50-200			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Spica 25 Fed 3H	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	2/1/2023 3:49:21PM

Anions by EPA 300.0/9056A

Analyst: BA

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

Blank (2305033-BLK1)					Prepared: 01/31/23 Analyzed: 01/31/23				
Chloride	ND	20.0							
LCS (2305033-BS1)					Prepared: 01/31/23 Analyzed: 01/31/23				
Chloride	250	20.0	250		99.9	90-110			
LCS Dup (2305033-BSD1)					Prepared: 01/31/23 Analyzed: 01/31/23				
Chloride	250	20.0	250		100	90-110	0.113	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:	Spica 25 Fed 3H	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	02/01/23 15:49

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

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

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

## Project Information

## Chain of Custody

Page 5 of 6

Client: Pima Environmental Services Project: <u>SPICA 25 Fed 3H</u> Project Manager: Tom Bynum Address: 5614 N. Lovington Hwy. City, State, Zip: Hobbs, NM, 88240 Phone: 580-748-1613 Email: tom@pimaoil.com Report due by:					Bill To Attention: <u>Devon Energy</u> Address: City, State, Zip: Phone: Email: Pima Project # <u>1-15</u>					Lab Use Only Lab WO# <u>E301154</u> Job Number <u>01058-0007</u> Analysis and Method					TAT 1D 2D 3D Standard				EPA Program CWA SDWA RCRA	
										State NM CO UT AZ TX										
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	Remarks						
11:20	1/29/23	S	1	CSW-23	1							X								
11:25				CSW-24	2															
11:30				CSW-25	3															
11:35				CSW-26	4															
11:40				CSW-27	5															
11:45				CSW-28	6															
11:50				CSW-29	7															
11:55				CSW-30	8															
12:00				CSW-31	9															
12:05				CSW-32	10															
Additional Instructions: <u>Bill To Devon Energy 20868753</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 5 °C on subsequent days.																				
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		Lab Use Only Received on ice: <u>Y/N</u>								
<u>Ned Rogers</u>		1-30-23		2:00		<u>Michelle Capule</u>		1-30-23		1400										
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		T1 T2 T3								
<u>Michelle Capule</u>		1-30-23		1730		<u>Lorenzo</u>		1-30-23		1730										
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		AVG Temp °C <u>4</u>								
<u>Lorenzo</u>		1-30-23		2305		<u>Carla Chuta</u>		1/31/23		8:15										
Sample Matrix: <u>S</u> - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other										Container Type: <u>g</u> - glass, p - poly/plastic, ag - amber glass, v - VOA										
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																				





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## Envirotech Analytical Laboratory

Printed: 1/31/2023 9:17:14AM

## Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Pima Environmental Services-Carlsbad	Date Received:	01/31/23 08:15	Work Order ID:	E301154
Phone:	(575) 631-6977	Date Logged In:	01/30/23 15:44	Logged In By:	Caitlin Christian
Email:	tom@pimaoil.com	Due Date:	01/31/23 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: CourierComments/Resolution

Project Spica 25 Fed 3H has been separated into 3 reports due to sample volume. Workorders are as follows:  
E301152/E301153/E301154

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?	No
Collectors name?	No

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

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

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

QUESTIONS

Action 354307

QUESTIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID:	6137
	Action Number:	354307
	Action Type:	
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QUESTIONS

Prerequisites	
Incident ID (n#)	nAB1718649427
Incident Name	NAB1718649427 SPICA 25 FED 3H @ 30-015-40220
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received
Incident Well	[30-015-40220] SPICA 25 FEDERAL #003H

Location of Release Source	
Please answer all the questions in this group.	
Site Name	SPICA 25 FED 3H
Date Release Discovered	06/25/2017
Surface Owner	Federal

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Cause: Equipment Failure   Valve   Crude Oil   Released: 2 BBL   Recovered: 1 BBL   Lost: 1 BBL.
Produced Water Released (bbls) Details	Cause: Equipment Failure   Valve   Produced Water   Released: 14 BBL   Recovered: 7 BBL   Lost: 7 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.



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QUESTIONS, Page 2

Action 354307

**QUESTIONS (continued)**

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID:	6137
	Action Number:	354307
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Nature and Volume of Release (continued)</b>	
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@dnv.com Date: 06/14/2024
----------------------------------------------------	--------------------------------------------------------------------------------------------------

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QUESTIONS, Page 3

Action 354307

**QUESTIONS (continued)**

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 354307
	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
<b>What is the minimum distance, between the closest lateral extents of the release and the following surface areas:</b>	
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)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

**Remediation Plan**

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

Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

**Soil Contamination Sampling:** (Provide the highest observable value for each, in milligrams per kilograms.)

Chloride (EPA 300.0 or SM4500 Cl B)	3730
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	39.6
GRO+DRO (EPA SW-846 Method 8015M)	0
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0

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

On what estimated date will the remediation commence	01/16/2023
On what date will (or did) the final sampling or liner inspection occur	01/29/2023
On what date will (or was) the remediation complete(d)	01/16/2023
What is the estimated surface area (in square feet) that will be reclaimed	0
What is the estimated volume (in cubic yards) that will be reclaimed	0
What is the estimated surface area (in square feet) that will be remediated	3000
What is the estimated volume (in cubic yards) that will be remediated	111

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 354307

**QUESTIONS (continued)**

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 354307
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Remediation Plan (continued)</b>	
<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>	
<b>This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:</b>	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and <b>off-site</b> disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for <b>off-site</b> disposal	R360 Artesia LLC LANDFARM [FEEM0112340644]
<b>OR</b> which OCD approved well (API) will be used for <b>off-site</b> disposal	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, out-of-state	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and <b>on-site</b> remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Dale Woodall Title: EHS Professional Email: Dale.Woodall@dmn.com Date: 06/14/2024
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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Action 354307

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 354307
	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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Action 354307

**QUESTIONS (continued)**

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID:	6137
	Action Number:	354307
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Sampling Event Information</b>	
Last sampling notification (C-141N) recorded	354315
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	01/29/2023
What was the (estimated) number of samples that were to be gathered	90
What was the sampling surface area in square feet	4000

**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	3000
What was the total volume (cubic yards) remediated	111
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	0
What was the total volume (in cubic yards) reclaimed	0
Summarize any additional remediation activities not included by answers (above)	see this and previously submitted reports

*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@dmn.com Date: 06/14/2024
----------------------------------------------------	--------------------------------------------------------------------------------------------------



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Action 354307

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 354307
	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 354307

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 354307
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your Remediation Closure Report for Incident #NAB1718649427 SPICA 25 FED 3H, thank you. This Remediation Closure Report is approved.	6/26/2024