

Incident ID	NRM2003157418
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 not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

Characterization Report Checklist: *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.

Oil Conservation Division

Incident ID	NRM2003157418
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I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Dale Woodall Title: Environmental Professional
 Signature: *Dale Woodall* Date: 4/18/2023
 email: dale.woodall@dnv.com Telephone: 575-748-1839

OCD Only

Received by: Jocelyn Harimon Date: 04/18/2023

Incident ID	NRM2003157418
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Closure

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

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

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

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

Printed Name: Dale Woodall Title: Environmental Professional

Signature: *Dale Woodall* Date: 4/18/2023

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

OCD Only

Received by: Jocelyn Harimon Date: 04/18/2023

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

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____



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

April 17th, 2023

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

Re: Site Assessment, Remediation, and Closure Report
Rattlesnake 16 SWD #001
API No. 30-025-42355
GPS: Latitude 32.0441688 Longitude -103.4826937
UL -- E, Sec. 16, T26S, R34E
Lea County, NM
NMOCD Ref. No. NRM2003157418

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 Rattlesnake 16 SWD #001 (Rattlesnake). The initial C-141 was submitted on October 21st, 2019 (Appendix C). This incident was assigned Incident ID NRM2003157418 by the New Mexico Oil Conservation Division (NMOCD).

Site Characterization

The Rattlesnake is located approximately seventeen (17) miles southwest of Jal, NM. This spill site is in Unit E, Section 16, Township 26S, Range 34E, Latitude 32.0441688 Longitude -103.4826937, Lea County, NM. Figure 1 references a Location Map.

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

According to the New Mexico Office of the State Engineer, depth to the nearest groundwater in this area is 200 feet below grade surface (BGS). According to the United States Geological Survey (USGS), the nearest groundwater is greater than 80.17 feet BGS. The closest waterway is the Red Bluff Reservoir, located approximately 26.24 miles to the southwest of this location. See Appendix A for referenced water surveys.

Table 1 NMAC and Closure Criteria 19.15.29					
Depth to Groundwater (Appendix A)	Constituent & Limits				
	Chlorides	Total TPH	GRO+DRO	BTEX	Benzene
<50' (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

NRM2003157418: On September 29th, 2019, a lightning strike caused fluid to be released from the SWD storage tanks. Approximately 291 barrels of crude oil and 3,110 barrels of produced water were released into the lined containment. Approximately 291 barrels of crude oil and 3,110 barrels of produced water were recovered. Currently all storage tanks as well as the lined containment have been removed from the Rattlesnake.

Remediation Activities, Site Assessment, and Soil Sampling Results

On March 29th, 2023, Pima Environmental mobilized personnel to assess the impacted area. Pima sampled the areas surrounding the H-Pumps and collected a total of twenty-eight soil samples for laboratory analysis. Six bottom samples (N1-N6) were collected at depths of 1, 3 and 4 feet to determine vertical delineation. Additionally, side wall samples (SW1-SW10) were collected at a depth of 6 inches to determine horizontal delineation. An initial site map can be found in Figure 4.

3-29-2023 Soil Sample Results

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is <50')								
DEVON ENERGY -RATTLESNAKE 16 SWD								
Sample Date: 3/29/2023				NM Approved Laboratory Results				
Sample ID	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg
N-1	1'	ND	ND	ND	25.6	ND	25.6	100
	3'	ND	ND	ND	ND	ND	0	22.2
	4'	ND	ND	ND	ND	ND	0	ND
N-2	1'	ND	ND	ND	ND	ND	0	47.5
	3'	ND	ND	ND	ND	ND	0	39.3
	4'	ND	ND	ND	ND	ND	0	ND
N-3	1'	ND	ND	ND	28.9	ND	28.9	88.5
	3'	ND	ND	ND	ND	ND	0	28.3
	4'	ND	ND	ND	ND	ND	0	ND
N-4	1'	ND	ND	ND	30.9	ND	30.9	99.9
	3'	ND	ND	ND	ND	ND	0	24.2
	4'	ND	ND	ND	ND	ND	0	ND
N-5	1'	ND	ND	ND	26.1	ND	26.1	80.9
	3'	ND	ND	ND	ND	ND	0	27.1
	4'	ND	ND	ND	ND	ND	0	ND
N-6	1'	ND	ND	ND	26.7	ND	26.7	89.8
	3'	ND	ND	ND	ND	ND	0	30.4
	4'	ND	ND	ND	ND	ND	0	ND
NSW 1	6"	ND	ND	ND	ND	ND	0	ND
NSW 2	6"	ND	ND	ND	ND	ND	0	ND
NSW 3	6"	ND	ND	ND	ND	ND	0	ND
NSW 4	6"	ND	ND	ND	ND	ND	0	ND
NSW 5	6"	ND	ND	ND	ND	ND	0	ND
NSW 6	6"	ND	ND	ND	ND	ND	0	ND
NSW 7	6"	ND	ND	ND	ND	ND	0	ND
NSW 8	6"	ND	ND	ND	ND	ND	0	ND
NSW 9	6"	ND	ND	ND	ND	ND	0	20.8
NSW 10	6"	ND	ND	ND	ND	ND	0	ND

ND: Analyte Non-Detect

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

Closure Request

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

After careful review, Pima requests that this incident, NRM2003157418, be closed. Devon has complied with the applicable closure requirements set forth in rule 19.15.19.12 NMAC.

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

Respectfully,

Sebastian Orozco

Sebastian Orozco
Environmental Professional
Pima Environment Services, LLC

Attachments

Figures:

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

Appendices:

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



Pima Environmental Services

Figures:

1-Location Map

2-Topographic Map

3-Karst Map

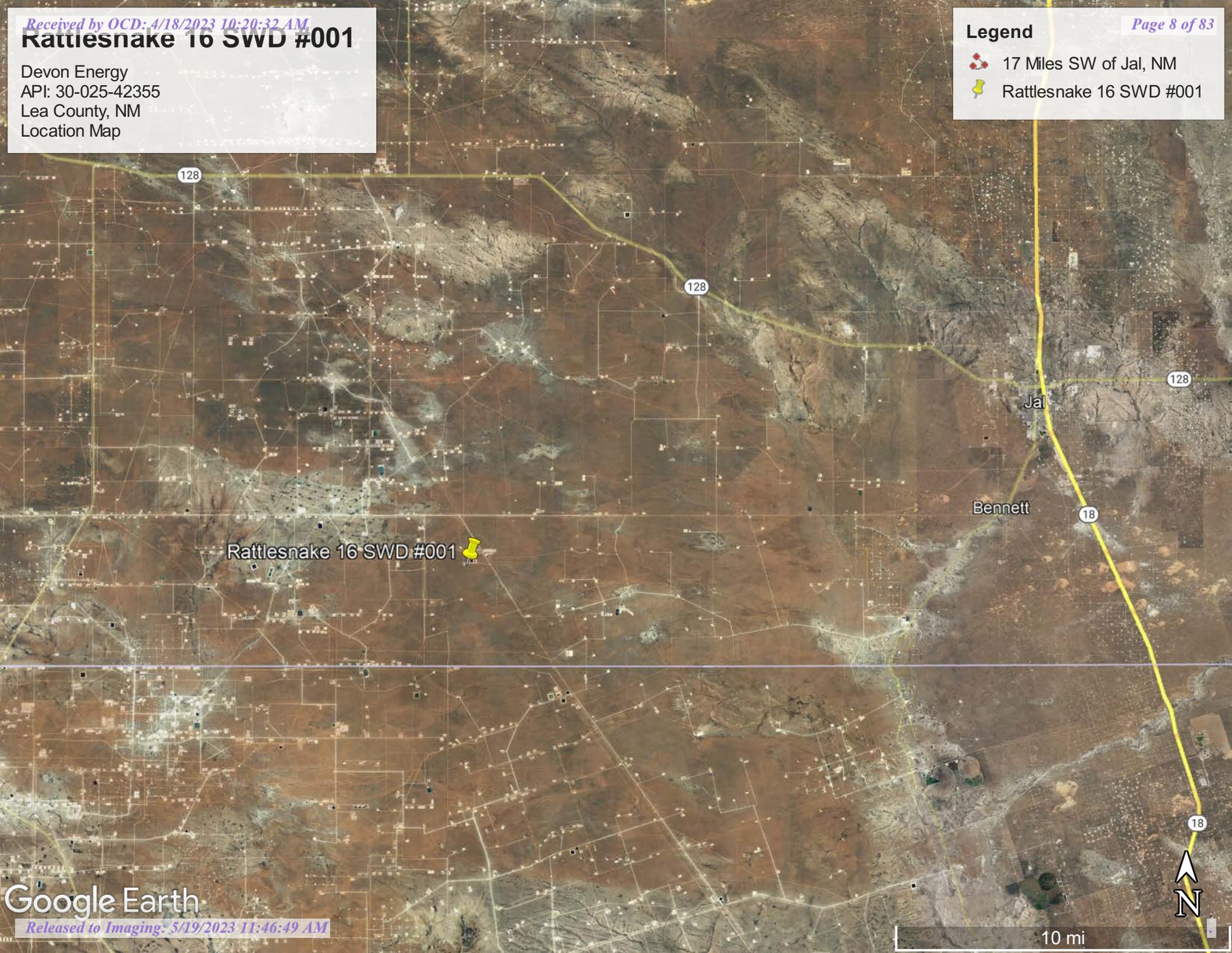
4-Site Map

Rattlesnake 16 SWD #001

Devon Energy
API: 30-025-42355
Lea County, NM
Location Map

Legend

-  17 Miles SW of Jal, NM
-  Rattlesnake 16 SWD #001



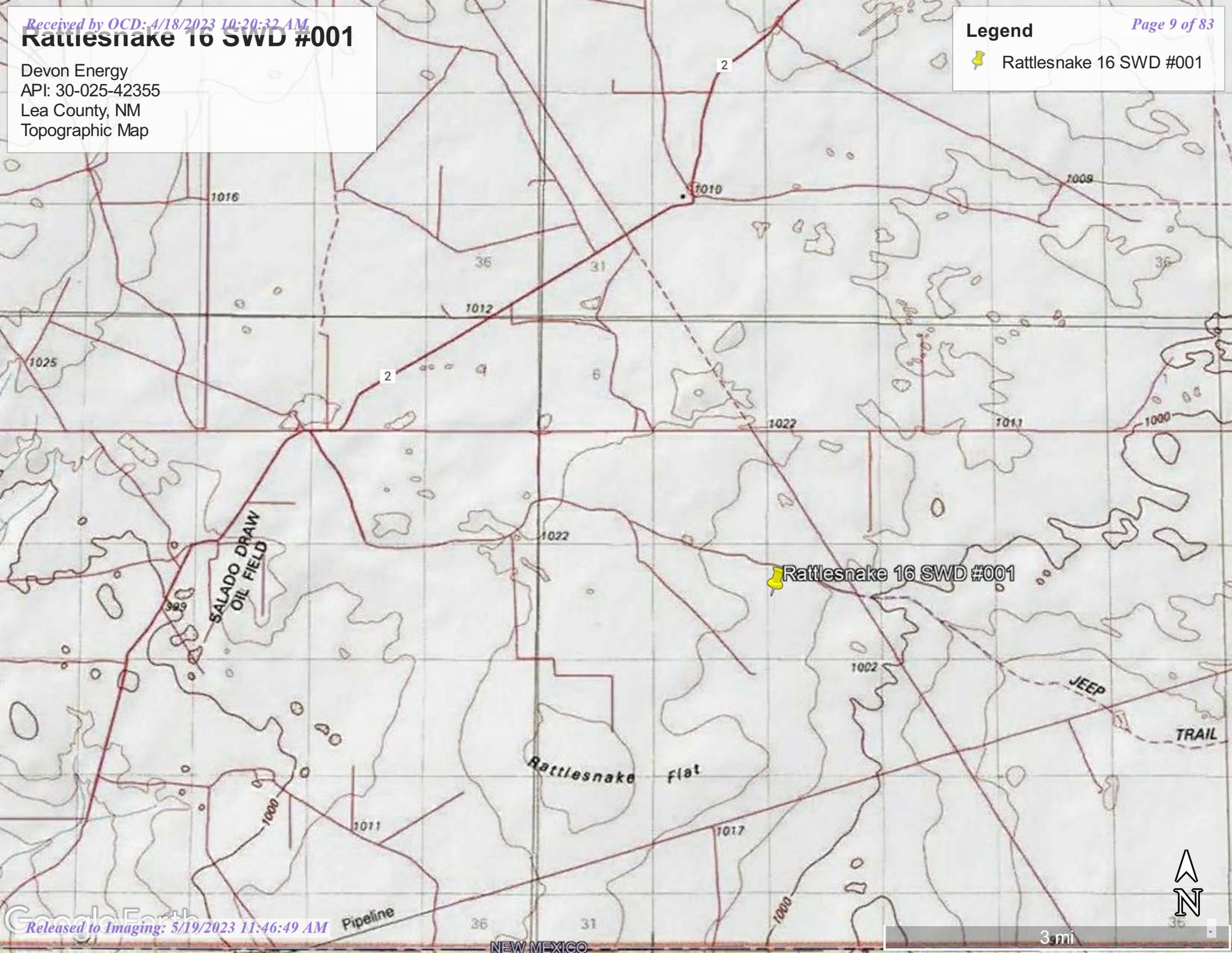
Rattlesnake 16 SWD #001 

Rattlesnake 16 SWD #001

Devon Energy
API: 30-025-42355
Lea County, NM
Topographic Map

Legend

-  Rattlesnake 16 SWD #001



 Rattlesnake 16 SWD #001

SALADO DRAW
OIL FIELD

Rattlesnake Flat

JEEP TRAIL

Pipeline

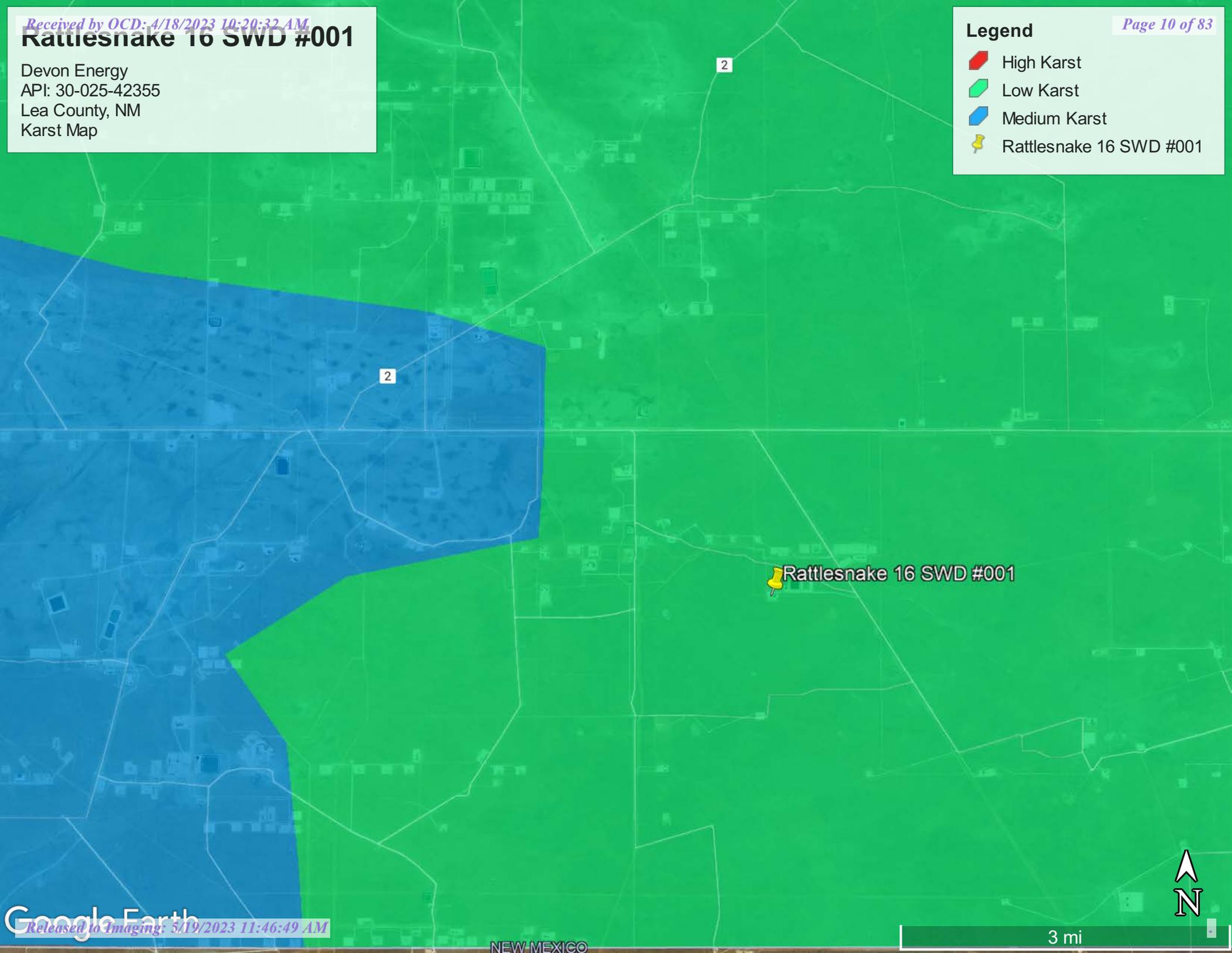


Rattlesnake 16 SWD #001

Devon Energy
API: 30-025-42355
Lea County, NM
Karst Map

Legend

-  High Karst
-  Low Karst
-  Medium Karst
-  Rattlesnake 16 SWD #001



 Rattlesnake 16 SWD #001

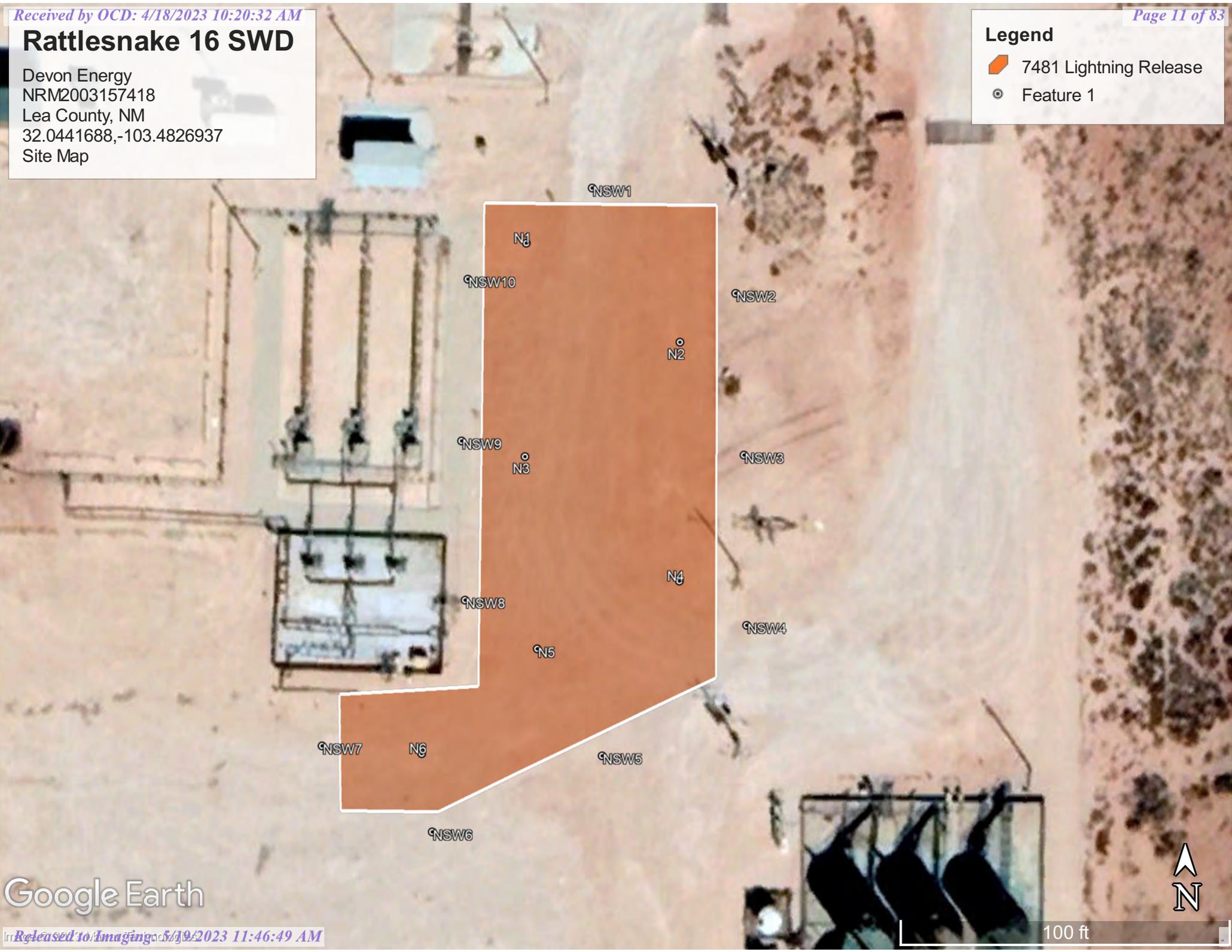


Rattlesnake 16 SWD

Devon Energy
NRM2003157418
Lea County, NM
32.0441688,-103.4826937
Site Map

Legend

-  7481 Lightning Release
-  Feature 1



Google Earth



100 ft



Pima Environmental Services

Appendix A

Water Surveys:

OSE

USGS

Surface Water Map



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

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

(In feet)

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Q 4	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
C_04583 POD1		CUB	LE	3	3	3	15	26S	34E		644920	3545643	1801	55		
C_04626 POD1		CUB	LE	4	2	1	18	26S	34E		640644	3546672	2634			
C_02295		CUB	LE	2	2	4	12	26S	33E		639865	3547624	3628	250	200	50
C_02292 POD1		CUB	LE	4	1	2	06	26S	34E		640992	3549987	4295	200	140	60
C_03442 POD1		C	LE	4	1	2	06	26S	34E		641056	3550028	4297	251		
C_03441 POD1		C	LE	4	1	2	06	26S	34E		640971	3550039	4351	250		
C_02291		CUB	LE	1	1	2	06	26S	34E		640825	3550140*	4513	220	160	60

Average Depth to Water: **166 feet**
 Minimum Depth: **140 feet**
 Maximum Depth: **200 feet**

Record Count: 7

UTMNAD83 Radius Search (in meters):

Easting (X): 643257.18

Northing (Y): 3546337.47

Radius: 5000

*UTM location was derived from PLSS - see Help

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

2/23/23 10:48 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER



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National Water Information System: Web Interface

USGS Water Resources

Data Category:

Groundwater

Geographic Area:

United States

GO

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Groundwater levels for the Nation



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

Search Results -- 1 sites found

site_no list =

- 320056103333501

Minimum number of levels = 1

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

USGS 320056103333501 26S.33E.27.21132

Available data for this site

Groundwater: Field measurements

GO

Lea County, New Mexico

Hydrologic Unit Code 13070001

Latitude 32°00'56", Longitude 103°33'35" NAD27

Land-surface elevation 3,273 feet above NAVD88

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

This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

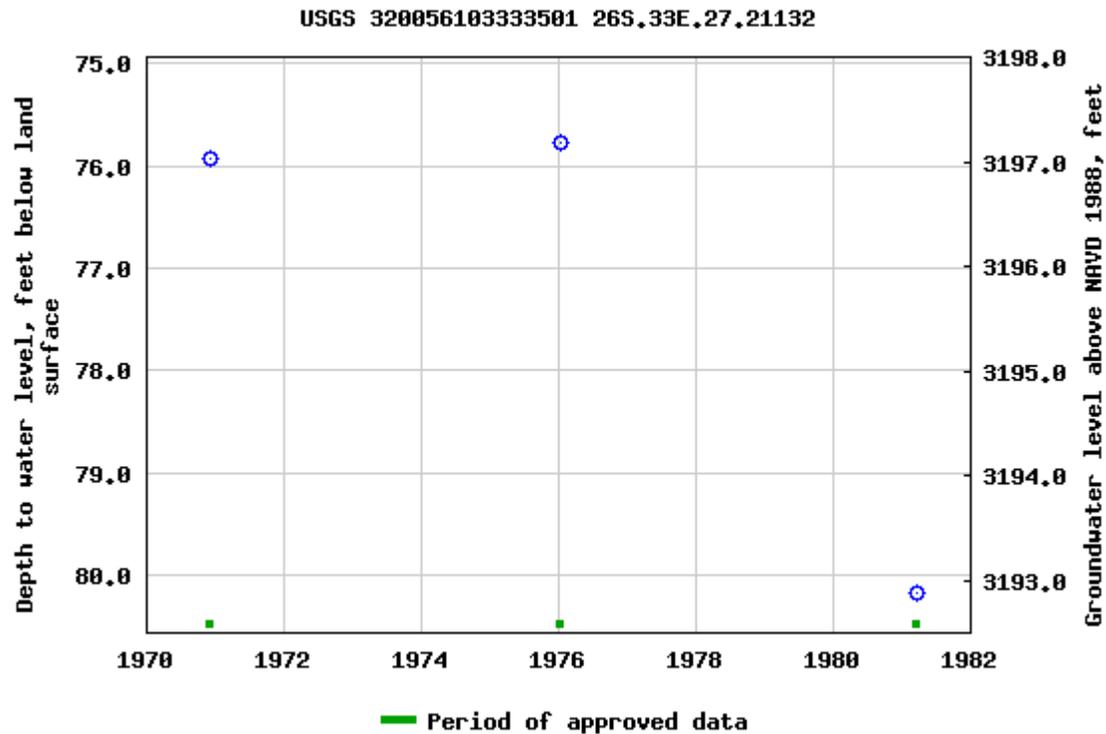
Output formats

[Table of data](#)

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Title: Groundwater for USA: Water Levels

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



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

Page Last Modified: 2023-02-23 12:46:25 EST

0.57 0.49 nadww02



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Data Category:

Groundwater

Geographic Area:

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Groundwater levels for the Nation

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Search Results -- 1 sites found

site_no list =

- 320059103333501

Minimum number of levels = 1

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

USGS 320059103333501 26S.33E.27.21112

Available data for this site

Groundwater: Field measurements

GO

Lea County, New Mexico

Hydrologic Unit Code 13070001

Latitude 32°01'16.0", Longitude 103°33'33.9" NAD83

Land-surface elevation 3,252.00 feet above NGVD29

The depth of the well is 200 feet below land surface.

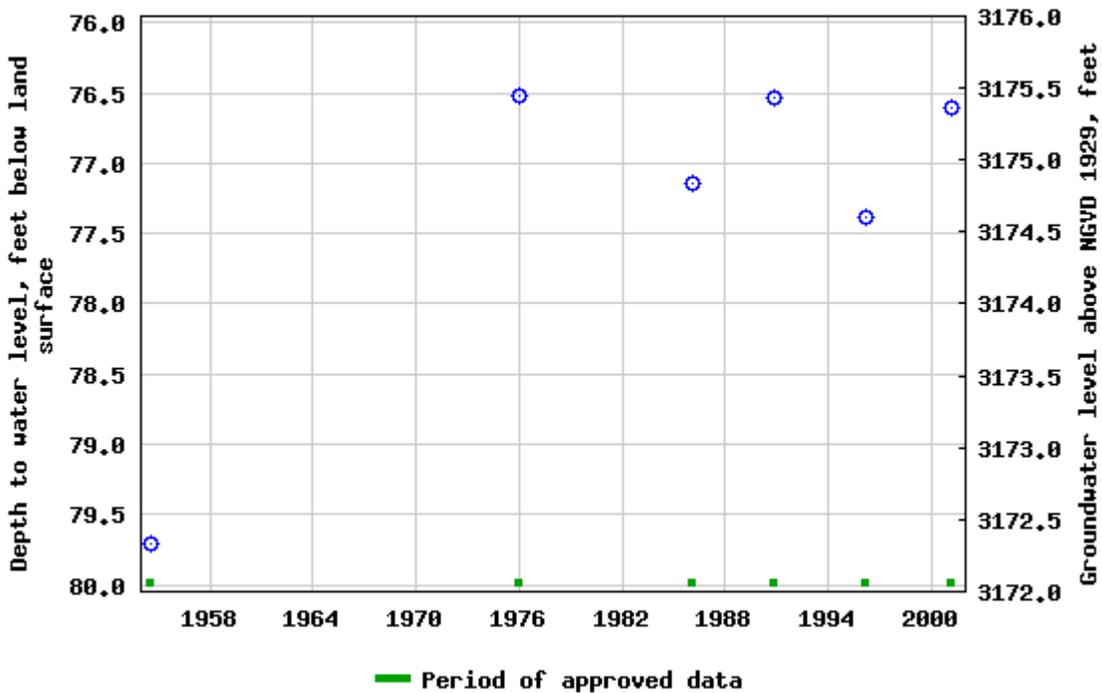
This well is completed in the Other aquifers (N9999OTHER) national aquifer.

This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

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

USGS 320059103333501 26S.33E.27.21112



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



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

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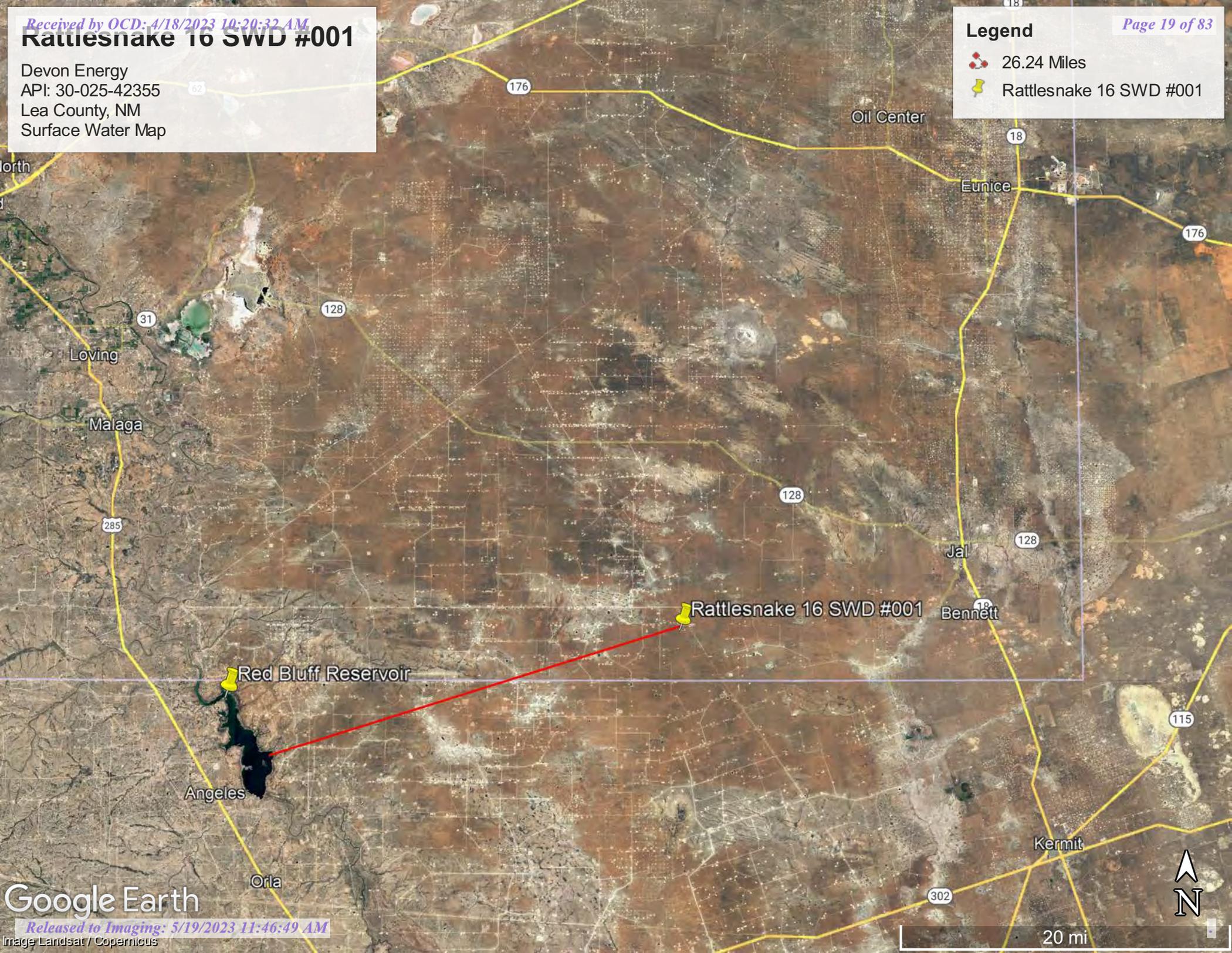
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Rattlesnake 16 SWD #001

Devon Energy
API: 30-025-42355
Lea County, NM
Surface Water Map

Legend

-  26.24 Miles
-  Rattlesnake 16 SWD #001



Google Earth

20 mi





Pima Environmental Services

Appendix B

Soil Survey & Geological Data

FEMA Flood Map

Wetlands Map

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

Lea County, New Mexico

PU—Pyote and Maljamar fine sands

Map Unit Setting

National map unit symbol: dmqq
Elevation: 3,000 to 3,900 feet
Mean annual precipitation: 10 to 12 inches
Mean annual air temperature: 60 to 62 degrees F
Frost-free period: 190 to 205 days
Farmland classification: Not prime farmland

Map Unit Composition

Pyote and similar soils: 46 percent
Maljamar and similar soils: 44 percent
Minor components: 10 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Pyote

Setting

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

Typical profile

A - 0 to 30 inches: fine sand
Bt - 30 to 60 inches: fine sandy loam

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Negligible
Capacity of the most limiting layer to transmit water (Ksat): High (2.00 to 6.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 5 percent
Gypsum, maximum content: 1 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 2.0
Available water supply, 0 to 60 inches: Low (about 5.1 inches)

Interpretive groups

Land capability classification (irrigated): 6e

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

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

Description of Maljamar

Setting

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

Typical profile

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

Properties and qualities

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

Interpretive groups

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

Minor Components

Kermit

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

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

Hydric soil rating: No

Data Source Information

Soil Survey Area: Lea County, New Mexico
Survey Area Data: Version 19, Sep 8, 2022

National Flood Hazard Layer FIRMette



103°29'16"W 32°2'54"N



Legend

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

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





Wetlands Map



February 23, 2023

Wetlands

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

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



Pima Environmental Services

Appendix C

C-141 Form

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

State of New Mexico
Energy Minerals and Natural
Resources Department

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

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

Incident ID	NRM2003157418
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

GIL17-191206-C-1410

Responsible Party Devon Energy Production Company	OGRID 6137
Contact Name Amanda T. Davis	Contact Telephone 575-748-0176
Contact email amanda.davis@dvn.com	Incident # (assigned by OCD)
Contact mailing address 6488 Seven Rivers HWY	

Location of Release Source

Latitude 32.0441688 Longitude -103.4826937
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Rattlesnake 16 SWD	Site Type Salt Water Disposal
Date Release Discovered 9/29/2019	API# (if applicable) 30-025-42355

Unit Letter	Section	Township	Range	County
E	16	26S	34E	Lea

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

Nature and Volume of Release

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

<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls) 291	Volume Recovered (bbls) 291
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 3,110	Volume Recovered (bbls) 3,110
	Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release **Lightning strike on facility causing fluid release and fire.**

State of New Mexico
Oil Conservation Division

Page 2

Incident ID	NRM2003157418
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? This is considered a major release because it is a fluid release and fire.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Immediate notice was not given.	

Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.
If all the actions described above have <u>not</u> been undertaken, explain why:
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.
Printed Name: <u>Kendra DeHoyos</u> Title: <u>EHS Associate</u> Signature: <u>Kendra DeHoyos</u> Date: <u>10/21/2019</u> email: <u>kendra.dehoyos@dvn.com</u> Telephone: <u>575-748-3371</u>
<u>OCD Only</u> Received by: <u>Ramona Marcus</u> Date: <u>1/31/2020</u>

Incident ID	NRM2003157418
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 not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

Characterization Report Checklist: *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	NRM2003157418
District RP	
Facility ID	
Application ID	

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

Printed Name: Dale Woodall Title: Environmental Professional
 Signature: *Dale Woodall* Date: 4/18/2023
 email: dale.woodall@dvn.com Telephone: 575-748-1839

OCD Only

Received by: _____ Date: _____

Incident ID	NRM2003157418
District RP	
Facility ID	
Application ID	

Closure

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

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

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

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

Printed Name: Dale Woodall Title: Environmental Professional
 Signature: *Dale Woodall* Date: 4/18/2023
 email: dale.woodall@dvn.com Telephone: 575-748-1839

OCD Only

Received by: _____ Date: _____

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

Closure Approved by: *Jennifer Nobui* Date: 05/19/2023
 Printed Name: Jennifer Nobui Title: Environmental Specialist A



Pima Environmental Services

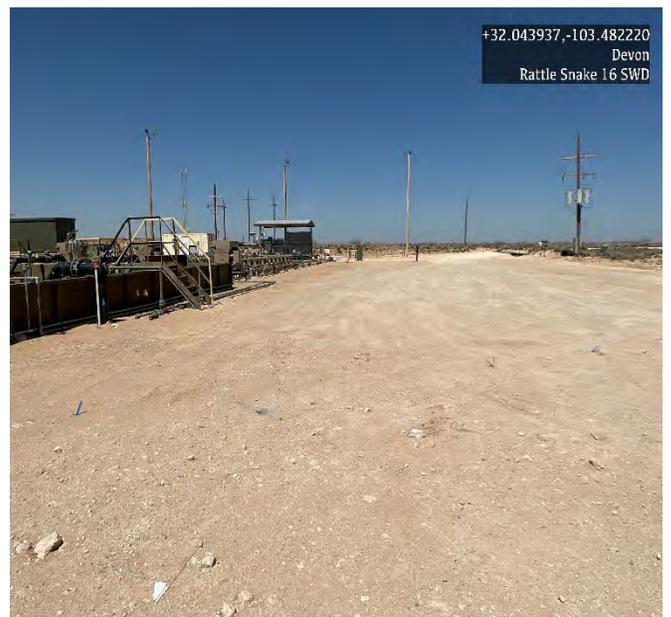
Appendix D

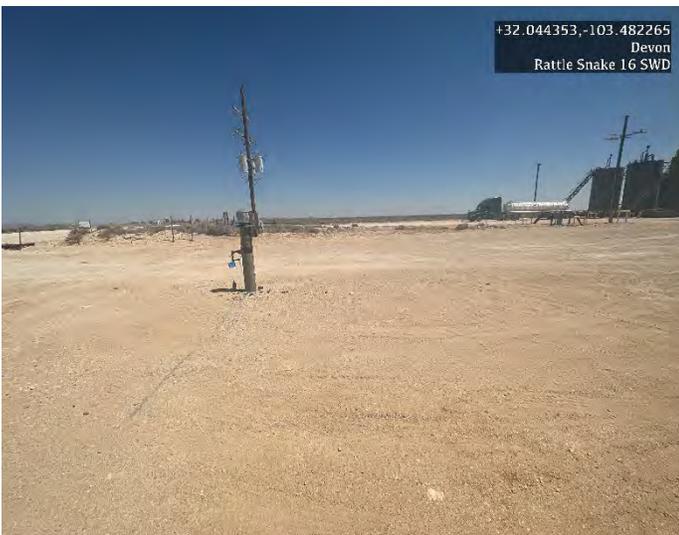
Photographic Documentation



**SITE PHOTOGRAPHS
DEVON ENERGY
RATTLESNAKE 16 SWD 1**

Site Assessment









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: Rattle Snake 16 SWD

Work Order: E303154

Job Number: 01058-0007

Received: 3/31/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
4/6/23

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 4/6/23



Tom Bynum
PO Box 247
Plains, TX 79355-0247

Project Name: Rattle Snake 16 SWD
Workorder: E303154
Date Received: 3/31/2023 5:45:00AM

Tom Bynum,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 3/31/2023 5:45:00AM, under the Project Name: Rattle Snake 16 SWD.

The analytical test results summarized in this report with the Project Name: Rattle Snake 16 SWD apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

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

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

Field Offices:

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

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

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Rattle Snake 16 SWD Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 04/06/23 09:57
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
N1 - 1'	E303154-01A	Soil	03/29/23	03/31/23	Glass Jar, 2 oz.
N2 - 1'	E303154-02A	Soil	03/29/23	03/31/23	Glass Jar, 2 oz.
N3 - 1'	E303154-03A	Soil	03/29/23	03/31/23	Glass Jar, 2 oz.
N4 - 1'	E303154-04A	Soil	03/29/23	03/31/23	Glass Jar, 2 oz.
N5 - 1'	E303154-05A	Soil	03/29/23	03/31/23	Glass Jar, 2 oz.
N6 - 1'	E303154-06A	Soil	03/29/23	03/31/23	Glass Jar, 2 oz.
N1 - 3'	E303154-07A	Soil	03/29/23	03/31/23	Glass Jar, 2 oz.
N2 - 3'	E303154-08A	Soil	03/29/23	03/31/23	Glass Jar, 2 oz.
N3 - 3'	E303154-09A	Soil	03/29/23	03/31/23	Glass Jar, 2 oz.
N4 - 3'	E303154-10A	Soil	03/29/23	03/31/23	Glass Jar, 2 oz.
N5 - 3'	E303154-11A	Soil	03/29/23	03/31/23	Glass Jar, 2 oz.
N6 - 3'	E303154-12A	Soil	03/29/23	03/31/23	Glass Jar, 2 oz.
N1 - 4'	E303154-13A	Soil	03/29/23	03/31/23	Glass Jar, 2 oz.
N2 - 4'	E303154-14A	Soil	03/29/23	03/31/23	Glass Jar, 2 oz.
N3 - 4'	E303154-15A	Soil	03/29/23	03/31/23	Glass Jar, 2 oz.
N4 - 4'	E303154-16A	Soil	03/29/23	03/31/23	Glass Jar, 2 oz.
N5 - 4'	E303154-17A	Soil	03/29/23	03/31/23	Glass Jar, 2 oz.
N6 - 4'	E303154-18A	Soil	03/29/23	03/31/23	Glass Jar, 2 oz.
NSW 1	E303154-19A	Soil	03/29/23	03/31/23	Glass Jar, 2 oz.
NSW 2	E303154-20A	Soil	03/29/23	03/31/23	Glass Jar, 2 oz.
NSW 3	E303154-21A	Soil	03/29/23	03/31/23	Glass Jar, 2 oz.
NSW 4	E303154-22A	Soil	03/29/23	03/31/23	Glass Jar, 2 oz.
NSW 5	E303154-23A	Soil	03/29/23	03/31/23	Glass Jar, 2 oz.
NSW 6	E303154-24A	Soil	03/29/23	03/31/23	Glass Jar, 2 oz.
NSW 7	E303154-25A	Soil	03/29/23	03/31/23	Glass Jar, 2 oz.
NSW 8	E303154-26A	Soil	03/29/23	03/31/23	Glass Jar, 2 oz.
NSW 9	E303154-27A	Soil	03/29/23	03/31/23	Glass Jar, 2 oz.
NSW 10	E303154-28A	Soil	03/29/23	03/31/23	Glass Jar, 2 oz.



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Rattle Snake 16 SWD Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 4/6/2023 9:57:48AM
---	---	--

N1 - 1'

E303154-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: IY		Batch: 2313074
Benzene	ND	0.0250	1	03/30/23	04/01/23	
Ethylbenzene	ND	0.0250	1	03/30/23	04/01/23	
Toluene	ND	0.0250	1	03/30/23	04/01/23	
o-Xylene	ND	0.0250	1	03/30/23	04/01/23	
p,m-Xylene	ND	0.0500	1	03/30/23	04/01/23	
Total Xylenes	ND	0.0250	1	03/30/23	04/01/23	
<i>Surrogate: Bromofluorobenzene</i>	98.0 %	70-130		03/30/23	04/01/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	109 %	70-130		03/30/23	04/01/23	
<i>Surrogate: Toluene-d8</i>	101 %	70-130		03/30/23	04/01/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2313074
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/30/23	04/01/23	
<i>Surrogate: Bromofluorobenzene</i>	98.0 %	70-130		03/30/23	04/01/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	109 %	70-130		03/30/23	04/01/23	
<i>Surrogate: Toluene-d8</i>	101 %	70-130		03/30/23	04/01/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: JL		Batch: 2313101
Diesel Range Organics (C10-C28)	25.6	25.0	1	04/01/23	04/04/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/01/23	04/04/23	
<i>Surrogate: n-Nonane</i>	109 %	50-200		04/01/23	04/04/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2313078
Chloride	100	20.0	1	03/30/23	04/01/23	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Rattle Snake 16 SWD Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 4/6/2023 9:57:48AM
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N2 - 1'

E303154-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: IY		Batch: 2313074
Benzene	ND	0.0250	1	03/30/23	04/01/23	
Ethylbenzene	ND	0.0250	1	03/30/23	04/01/23	
Toluene	ND	0.0250	1	03/30/23	04/01/23	
o-Xylene	ND	0.0250	1	03/30/23	04/01/23	
p,m-Xylene	ND	0.0500	1	03/30/23	04/01/23	
Total Xylenes	ND	0.0250	1	03/30/23	04/01/23	
<i>Surrogate: Bromofluorobenzene</i>		99.7 %	70-130	03/30/23	04/01/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		113 %	70-130	03/30/23	04/01/23	
<i>Surrogate: Toluene-d8</i>		101 %	70-130	03/30/23	04/01/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2313074
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/30/23	04/01/23	
<i>Surrogate: Bromofluorobenzene</i>		99.7 %	70-130	03/30/23	04/01/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		113 %	70-130	03/30/23	04/01/23	
<i>Surrogate: Toluene-d8</i>		101 %	70-130	03/30/23	04/01/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: JL		Batch: 2313101
Diesel Range Organics (C10-C28)	ND	25.0	1	04/01/23	04/04/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/01/23	04/04/23	
<i>Surrogate: n-Nonane</i>		106 %	50-200	04/01/23	04/04/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2313078
Chloride	47.5	20.0	1	03/30/23	04/01/23	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Rattle Snake 16 SWD Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 4/6/2023 9:57:48AM
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N3 - 1'

E303154-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B		mg/kg	mg/kg	Analyst: IY		Batch: 2313074
Benzene	ND	0.0250	1	03/30/23	04/01/23	
Ethylbenzene	ND	0.0250	1	03/30/23	04/01/23	
Toluene	ND	0.0250	1	03/30/23	04/01/23	
o-Xylene	ND	0.0250	1	03/30/23	04/01/23	
p,m-Xylene	ND	0.0500	1	03/30/23	04/01/23	
Total Xylenes	ND	0.0250	1	03/30/23	04/01/23	
<i>Surrogate: Bromofluorobenzene</i>		101 %	70-130	03/30/23	04/01/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		110 %	70-130	03/30/23	04/01/23	
<i>Surrogate: Toluene-d8</i>		103 %	70-130	03/30/23	04/01/23	
Nonhalogenated Organics by EPA 8015D - GRO		mg/kg	mg/kg	Analyst: IY		Batch: 2313074
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/30/23	04/01/23	
<i>Surrogate: Bromofluorobenzene</i>		101 %	70-130	03/30/23	04/01/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		110 %	70-130	03/30/23	04/01/23	
<i>Surrogate: Toluene-d8</i>		103 %	70-130	03/30/23	04/01/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO		mg/kg	mg/kg	Analyst: JL		Batch: 2313101
Diesel Range Organics (C10-C28)	28.9	25.0	1	04/01/23	04/04/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/01/23	04/04/23	
<i>Surrogate: n-Nonane</i>		107 %	50-200	04/01/23	04/04/23	
Anions by EPA 300.0/9056A		mg/kg	mg/kg	Analyst: BA		Batch: 2313078
Chloride	88.5	20.0	1	03/30/23	04/01/23	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Rattle Snake 16 SWD Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 4/6/2023 9:57:48AM
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N4 - 1'

E303154-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: IY		Batch: 2313074
Benzene	ND	0.0250	1	03/30/23	04/01/23	
Ethylbenzene	ND	0.0250	1	03/30/23	04/01/23	
Toluene	ND	0.0250	1	03/30/23	04/01/23	
o-Xylene	ND	0.0250	1	03/30/23	04/01/23	
p,m-Xylene	ND	0.0500	1	03/30/23	04/01/23	
Total Xylenes	ND	0.0250	1	03/30/23	04/01/23	
<i>Surrogate: Bromofluorobenzene</i>		101 %	70-130	03/30/23	04/01/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		111 %	70-130	03/30/23	04/01/23	
<i>Surrogate: Toluene-d8</i>		102 %	70-130	03/30/23	04/01/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2313074
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/30/23	04/01/23	
<i>Surrogate: Bromofluorobenzene</i>		101 %	70-130	03/30/23	04/01/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		111 %	70-130	03/30/23	04/01/23	
<i>Surrogate: Toluene-d8</i>		102 %	70-130	03/30/23	04/01/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: JL		Batch: 2313101
Diesel Range Organics (C10-C28)	30.9	25.0	1	04/01/23	04/04/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/01/23	04/04/23	
<i>Surrogate: n-Nonane</i>		108 %	50-200	04/01/23	04/04/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2313078
Chloride	99.9	20.0	1	03/30/23	04/01/23	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Rattle Snake 16 SWD Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 4/6/2023 9:57:48AM
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N5 - 1'

E303154-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: IY		Batch: 2313074
Benzene	ND	0.0250	1	03/30/23	04/01/23	
Ethylbenzene	ND	0.0250	1	03/30/23	04/01/23	
Toluene	ND	0.0250	1	03/30/23	04/01/23	
o-Xylene	ND	0.0250	1	03/30/23	04/01/23	
p,m-Xylene	ND	0.0500	1	03/30/23	04/01/23	
Total Xylenes	ND	0.0250	1	03/30/23	04/01/23	
<i>Surrogate: Bromofluorobenzene</i>		101 %	70-130	03/30/23	04/01/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		110 %	70-130	03/30/23	04/01/23	
<i>Surrogate: Toluene-d8</i>		104 %	70-130	03/30/23	04/01/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2313074
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/30/23	04/01/23	
<i>Surrogate: Bromofluorobenzene</i>		101 %	70-130	03/30/23	04/01/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		110 %	70-130	03/30/23	04/01/23	
<i>Surrogate: Toluene-d8</i>		104 %	70-130	03/30/23	04/01/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: JL		Batch: 2313101
Diesel Range Organics (C10-C28)	26.1	25.0	1	04/01/23	04/04/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/01/23	04/04/23	
<i>Surrogate: n-Nonane</i>		109 %	50-200	04/01/23	04/04/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2313078
Chloride	80.9	20.0	1	03/30/23	04/01/23	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Rattle Snake 16 SWD Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 4/6/2023 9:57:48AM
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N6 - 1'

E303154-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: IY		Batch: 2313074
Benzene	ND	0.0250	1	03/30/23	04/01/23	
Ethylbenzene	ND	0.0250	1	03/30/23	04/01/23	
Toluene	ND	0.0250	1	03/30/23	04/01/23	
o-Xylene	ND	0.0250	1	03/30/23	04/01/23	
p,m-Xylene	ND	0.0500	1	03/30/23	04/01/23	
Total Xylenes	ND	0.0250	1	03/30/23	04/01/23	
<i>Surrogate: Bromofluorobenzene</i>		99.1 %	70-130	03/30/23	04/01/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		114 %	70-130	03/30/23	04/01/23	
<i>Surrogate: Toluene-d8</i>		103 %	70-130	03/30/23	04/01/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2313074
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/30/23	04/01/23	
<i>Surrogate: Bromofluorobenzene</i>		99.1 %	70-130	03/30/23	04/01/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		114 %	70-130	03/30/23	04/01/23	
<i>Surrogate: Toluene-d8</i>		103 %	70-130	03/30/23	04/01/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: JL		Batch: 2313101
Diesel Range Organics (C10-C28)	26.7	25.0	1	04/01/23	04/04/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/01/23	04/04/23	
<i>Surrogate: n-Nonane</i>		110 %	50-200	04/01/23	04/04/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2313078
Chloride	89.8	20.0	1	03/30/23	04/01/23	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Rattle Snake 16 SWD Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 4/6/2023 9:57:48AM
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N1 - 3'

E303154-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2313074
Benzene	ND	0.0250	1	03/30/23	04/01/23	
Ethylbenzene	ND	0.0250	1	03/30/23	04/01/23	
Toluene	ND	0.0250	1	03/30/23	04/01/23	
o-Xylene	ND	0.0250	1	03/30/23	04/01/23	
p,m-Xylene	ND	0.0500	1	03/30/23	04/01/23	
Total Xylenes	ND	0.0250	1	03/30/23	04/01/23	
<i>Surrogate: Bromofluorobenzene</i>		102 %	70-130	03/30/23	04/01/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		113 %	70-130	03/30/23	04/01/23	
<i>Surrogate: Toluene-d8</i>		103 %	70-130	03/30/23	04/01/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2313074
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/30/23	04/01/23	
<i>Surrogate: Bromofluorobenzene</i>		102 %	70-130	03/30/23	04/01/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		113 %	70-130	03/30/23	04/01/23	
<i>Surrogate: Toluene-d8</i>		103 %	70-130	03/30/23	04/01/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2313101
Diesel Range Organics (C10-C28)	ND	25.0	1	04/01/23	04/04/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/01/23	04/04/23	
<i>Surrogate: n-Nonane</i>		108 %	50-200	04/01/23	04/04/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2313078
Chloride	22.2	20.0	1	03/30/23	04/01/23	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Rattle Snake 16 SWD Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 4/6/2023 9:57:48AM
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N2 - 3'

E303154-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2313074
Benzene	ND	0.0250	1	03/30/23	04/01/23	
Ethylbenzene	ND	0.0250	1	03/30/23	04/01/23	
Toluene	ND	0.0250	1	03/30/23	04/01/23	
o-Xylene	ND	0.0250	1	03/30/23	04/01/23	
p,m-Xylene	ND	0.0500	1	03/30/23	04/01/23	
Total Xylenes	ND	0.0250	1	03/30/23	04/01/23	
<i>Surrogate: Bromofluorobenzene</i>		96.9 %	70-130	03/30/23	04/01/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		112 %	70-130	03/30/23	04/01/23	
<i>Surrogate: Toluene-d8</i>		104 %	70-130	03/30/23	04/01/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2313074
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/30/23	04/01/23	
<i>Surrogate: Bromofluorobenzene</i>		96.9 %	70-130	03/30/23	04/01/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		112 %	70-130	03/30/23	04/01/23	
<i>Surrogate: Toluene-d8</i>		104 %	70-130	03/30/23	04/01/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2313101
Diesel Range Organics (C10-C28)	ND	25.0	1	04/01/23	04/04/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/01/23	04/04/23	
<i>Surrogate: n-Nonane</i>		111 %	50-200	04/01/23	04/04/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2313078
Chloride	39.3	20.0	1	03/30/23	04/01/23	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Rattle Snake 16 SWD Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 4/6/2023 9:57:48AM
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N3 - 3'

E303154-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2313074
Benzene	ND	0.0250	1	03/30/23	04/01/23	
Ethylbenzene	ND	0.0250	1	03/30/23	04/01/23	
Toluene	ND	0.0250	1	03/30/23	04/01/23	
o-Xylene	ND	0.0250	1	03/30/23	04/01/23	
p,m-Xylene	ND	0.0500	1	03/30/23	04/01/23	
Total Xylenes	ND	0.0250	1	03/30/23	04/01/23	
<i>Surrogate: Bromofluorobenzene</i>		98.5 %	70-130	03/30/23	04/01/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		108 %	70-130	03/30/23	04/01/23	
<i>Surrogate: Toluene-d8</i>		104 %	70-130	03/30/23	04/01/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2313074
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/30/23	04/01/23	
<i>Surrogate: Bromofluorobenzene</i>		98.5 %	70-130	03/30/23	04/01/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		108 %	70-130	03/30/23	04/01/23	
<i>Surrogate: Toluene-d8</i>		104 %	70-130	03/30/23	04/01/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2313101
Diesel Range Organics (C10-C28)	ND	25.0	1	04/01/23	04/04/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/01/23	04/04/23	
<i>Surrogate: n-Nonane</i>		111 %	50-200	04/01/23	04/04/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2313078
Chloride	28.3	20.0	1	03/30/23	04/01/23	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Rattle Snake 16 SWD Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 4/6/2023 9:57:48AM
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N4 - 3'

E303154-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: IY		Batch: 2313074
Benzene	ND	0.0250	1	03/30/23	04/01/23	
Ethylbenzene	ND	0.0250	1	03/30/23	04/01/23	
Toluene	ND	0.0250	1	03/30/23	04/01/23	
o-Xylene	ND	0.0250	1	03/30/23	04/01/23	
p,m-Xylene	ND	0.0500	1	03/30/23	04/01/23	
Total Xylenes	ND	0.0250	1	03/30/23	04/01/23	
<i>Surrogate: Bromofluorobenzene</i>		99.7 %	70-130	03/30/23	04/01/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		108 %	70-130	03/30/23	04/01/23	
<i>Surrogate: Toluene-d8</i>		105 %	70-130	03/30/23	04/01/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2313074
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/30/23	04/01/23	
<i>Surrogate: Bromofluorobenzene</i>		99.7 %	70-130	03/30/23	04/01/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		108 %	70-130	03/30/23	04/01/23	
<i>Surrogate: Toluene-d8</i>		105 %	70-130	03/30/23	04/01/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: JL		Batch: 2313101
Diesel Range Organics (C10-C28)	ND	25.0	1	04/01/23	04/04/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/01/23	04/04/23	
<i>Surrogate: n-Nonane</i>		109 %	50-200	04/01/23	04/04/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2313078
Chloride	24.2	20.0	1	03/30/23	04/01/23	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Rattle Snake 16 SWD Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 4/6/2023 9:57:48AM
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N5 - 3'

E303154-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2313074
Benzene	ND	0.0250	1	03/30/23	04/01/23	
Ethylbenzene	ND	0.0250	1	03/30/23	04/01/23	
Toluene	ND	0.0250	1	03/30/23	04/01/23	
o-Xylene	ND	0.0250	1	03/30/23	04/01/23	
p,m-Xylene	ND	0.0500	1	03/30/23	04/01/23	
Total Xylenes	ND	0.0250	1	03/30/23	04/01/23	
<i>Surrogate: Bromofluorobenzene</i>		97.7 %	70-130	03/30/23	04/01/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		108 %	70-130	03/30/23	04/01/23	
<i>Surrogate: Toluene-d8</i>		103 %	70-130	03/30/23	04/01/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2313074
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/30/23	04/01/23	
<i>Surrogate: Bromofluorobenzene</i>		97.7 %	70-130	03/30/23	04/01/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		108 %	70-130	03/30/23	04/01/23	
<i>Surrogate: Toluene-d8</i>		103 %	70-130	03/30/23	04/01/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2313101
Diesel Range Organics (C10-C28)	ND	25.0	1	04/01/23	04/04/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/01/23	04/04/23	
<i>Surrogate: n-Nonane</i>		112 %	50-200	04/01/23	04/04/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2313078
Chloride	27.1	20.0	1	03/30/23	04/01/23	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Rattle Snake 16 SWD Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 4/6/2023 9:57:48AM
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N6 - 3'

E303154-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: IY		Batch: 2313074
Benzene	ND	0.0250	1	03/30/23	04/01/23	
Ethylbenzene	ND	0.0250	1	03/30/23	04/01/23	
Toluene	ND	0.0250	1	03/30/23	04/01/23	
o-Xylene	ND	0.0250	1	03/30/23	04/01/23	
p,m-Xylene	ND	0.0500	1	03/30/23	04/01/23	
Total Xylenes	ND	0.0250	1	03/30/23	04/01/23	
<i>Surrogate: Bromofluorobenzene</i>		98.7 %	70-130	03/30/23	04/01/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		108 %	70-130	03/30/23	04/01/23	
<i>Surrogate: Toluene-d8</i>		106 %	70-130	03/30/23	04/01/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2313074
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/30/23	04/01/23	
<i>Surrogate: Bromofluorobenzene</i>		98.7 %	70-130	03/30/23	04/01/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		108 %	70-130	03/30/23	04/01/23	
<i>Surrogate: Toluene-d8</i>		106 %	70-130	03/30/23	04/01/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: JL		Batch: 2313101
Diesel Range Organics (C10-C28)	ND	25.0	1	04/01/23	04/04/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/01/23	04/04/23	
<i>Surrogate: n-Nonane</i>		113 %	50-200	04/01/23	04/04/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2313078
Chloride	30.4	20.0	1	03/30/23	04/01/23	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Rattle Snake 16 SWD Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 4/6/2023 9:57:48AM
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N1 - 4'

E303154-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2313074
Benzene	ND	0.0250	1	03/30/23	04/01/23	
Ethylbenzene	ND	0.0250	1	03/30/23	04/01/23	
Toluene	ND	0.0250	1	03/30/23	04/01/23	
o-Xylene	ND	0.0250	1	03/30/23	04/01/23	
p,m-Xylene	ND	0.0500	1	03/30/23	04/01/23	
Total Xylenes	ND	0.0250	1	03/30/23	04/01/23	
<i>Surrogate: Bromofluorobenzene</i>		99.4 %	70-130	03/30/23	04/01/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		110 %	70-130	03/30/23	04/01/23	
<i>Surrogate: Toluene-d8</i>		103 %	70-130	03/30/23	04/01/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2313074
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/30/23	04/01/23	
<i>Surrogate: Bromofluorobenzene</i>		99.4 %	70-130	03/30/23	04/01/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		110 %	70-130	03/30/23	04/01/23	
<i>Surrogate: Toluene-d8</i>		103 %	70-130	03/30/23	04/01/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2313101
Diesel Range Organics (C10-C28)	ND	25.0	1	04/01/23	04/04/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/01/23	04/04/23	
<i>Surrogate: n-Nonane</i>		111 %	50-200	04/01/23	04/04/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2313078
Chloride	ND	20.0	1	03/30/23	04/01/23	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Rattle Snake 16 SWD Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 4/6/2023 9:57:48AM
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N2 - 4'

E303154-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2313074
Benzene	ND	0.0250	1	03/30/23	04/01/23	
Ethylbenzene	ND	0.0250	1	03/30/23	04/01/23	
Toluene	ND	0.0250	1	03/30/23	04/01/23	
o-Xylene	ND	0.0250	1	03/30/23	04/01/23	
p,m-Xylene	ND	0.0500	1	03/30/23	04/01/23	
Total Xylenes	ND	0.0250	1	03/30/23	04/01/23	
<i>Surrogate: Bromofluorobenzene</i>		99.3 %	70-130	03/30/23	04/01/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		111 %	70-130	03/30/23	04/01/23	
<i>Surrogate: Toluene-d8</i>		104 %	70-130	03/30/23	04/01/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2313074
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/30/23	04/01/23	
<i>Surrogate: Bromofluorobenzene</i>		99.3 %	70-130	03/30/23	04/01/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		111 %	70-130	03/30/23	04/01/23	
<i>Surrogate: Toluene-d8</i>		104 %	70-130	03/30/23	04/01/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2313101
Diesel Range Organics (C10-C28)	ND	25.0	1	04/01/23	04/04/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/01/23	04/04/23	
<i>Surrogate: n-Nonane</i>		113 %	50-200	04/01/23	04/04/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2313078
Chloride	ND	20.0	1	03/30/23	04/01/23	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Rattle Snake 16 SWD Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 4/6/2023 9:57:48AM
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N3 - 4'

E303154-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2313074
Benzene	ND	0.0250	1	03/30/23	04/01/23	
Ethylbenzene	ND	0.0250	1	03/30/23	04/01/23	
Toluene	ND	0.0250	1	03/30/23	04/01/23	
o-Xylene	ND	0.0250	1	03/30/23	04/01/23	
p,m-Xylene	ND	0.0500	1	03/30/23	04/01/23	
Total Xylenes	ND	0.0250	1	03/30/23	04/01/23	
<i>Surrogate: Bromofluorobenzene</i>		101 %	70-130	03/30/23	04/01/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		106 %	70-130	03/30/23	04/01/23	
<i>Surrogate: Toluene-d8</i>		103 %	70-130	03/30/23	04/01/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2313074
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/30/23	04/01/23	
<i>Surrogate: Bromofluorobenzene</i>		101 %	70-130	03/30/23	04/01/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		106 %	70-130	03/30/23	04/01/23	
<i>Surrogate: Toluene-d8</i>		103 %	70-130	03/30/23	04/01/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2313101
Diesel Range Organics (C10-C28)	ND	25.0	1	04/01/23	04/04/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/01/23	04/04/23	
<i>Surrogate: n-Nonane</i>		111 %	50-200	04/01/23	04/04/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2313078
Chloride	ND	20.0	1	03/30/23	04/01/23	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Rattle Snake 16 SWD Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 4/6/2023 9:57:48AM
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N4 - 4'

E303154-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B		mg/kg	mg/kg	Analyst: IY		Batch: 2313074
Benzene	ND	0.0250	1	03/30/23	04/01/23	
Ethylbenzene	ND	0.0250	1	03/30/23	04/01/23	
Toluene	ND	0.0250	1	03/30/23	04/01/23	
o-Xylene	ND	0.0250	1	03/30/23	04/01/23	
p,m-Xylene	ND	0.0500	1	03/30/23	04/01/23	
Total Xylenes	ND	0.0250	1	03/30/23	04/01/23	
<i>Surrogate: Bromofluorobenzene</i>		98.9 %	70-130	03/30/23	04/01/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		111 %	70-130	03/30/23	04/01/23	
<i>Surrogate: Toluene-d8</i>		102 %	70-130	03/30/23	04/01/23	
Nonhalogenated Organics by EPA 8015D - GRO		mg/kg	mg/kg	Analyst: IY		Batch: 2313074
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/30/23	04/01/23	
<i>Surrogate: Bromofluorobenzene</i>		98.9 %	70-130	03/30/23	04/01/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		111 %	70-130	03/30/23	04/01/23	
<i>Surrogate: Toluene-d8</i>		102 %	70-130	03/30/23	04/01/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO		mg/kg	mg/kg	Analyst: JL		Batch: 2313101
Diesel Range Organics (C10-C28)	ND	25.0	1	04/01/23	04/04/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/01/23	04/04/23	
<i>Surrogate: n-Nonane</i>		110 %	50-200	04/01/23	04/04/23	
Anions by EPA 300.0/9056A		mg/kg	mg/kg	Analyst: BA		Batch: 2313078
Chloride	ND	20.0	1	03/30/23	04/01/23	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Rattle Snake 16 SWD Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 4/6/2023 9:57:48AM
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N5 - 4'

E303154-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2313074
Benzene	ND	0.0250	1	03/30/23	04/01/23	
Ethylbenzene	ND	0.0250	1	03/30/23	04/01/23	
Toluene	ND	0.0250	1	03/30/23	04/01/23	
o-Xylene	ND	0.0250	1	03/30/23	04/01/23	
p,m-Xylene	ND	0.0500	1	03/30/23	04/01/23	
Total Xylenes	ND	0.0250	1	03/30/23	04/01/23	
<i>Surrogate: Bromofluorobenzene</i>		99.5 %	70-130	03/30/23	04/01/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		108 %	70-130	03/30/23	04/01/23	
<i>Surrogate: Toluene-d8</i>		102 %	70-130	03/30/23	04/01/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2313074
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/30/23	04/01/23	
<i>Surrogate: Bromofluorobenzene</i>		99.5 %	70-130	03/30/23	04/01/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		108 %	70-130	03/30/23	04/01/23	
<i>Surrogate: Toluene-d8</i>		102 %	70-130	03/30/23	04/01/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2313101
Diesel Range Organics (C10-C28)	ND	25.0	1	04/01/23	04/04/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/01/23	04/04/23	
<i>Surrogate: n-Nonane</i>		111 %	50-200	04/01/23	04/04/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2313078
Chloride	ND	20.0	1	03/30/23	04/01/23	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Rattle Snake 16 SWD Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 4/6/2023 9:57:48AM
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N6 - 4'

E303154-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B		mg/kg	mg/kg	Analyst: IY		Batch: 2313074
Benzene	ND	0.0250	1	03/30/23	04/01/23	
Ethylbenzene	ND	0.0250	1	03/30/23	04/01/23	
Toluene	ND	0.0250	1	03/30/23	04/01/23	
o-Xylene	ND	0.0250	1	03/30/23	04/01/23	
p,m-Xylene	ND	0.0500	1	03/30/23	04/01/23	
Total Xylenes	ND	0.0250	1	03/30/23	04/01/23	
<i>Surrogate: Bromofluorobenzene</i>		101 %	70-130	03/30/23	04/01/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		111 %	70-130	03/30/23	04/01/23	
<i>Surrogate: Toluene-d8</i>		104 %	70-130	03/30/23	04/01/23	
Nonhalogenated Organics by EPA 8015D - GRO		mg/kg	mg/kg	Analyst: IY		Batch: 2313074
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/30/23	04/01/23	
<i>Surrogate: Bromofluorobenzene</i>		101 %	70-130	03/30/23	04/01/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		111 %	70-130	03/30/23	04/01/23	
<i>Surrogate: Toluene-d8</i>		104 %	70-130	03/30/23	04/01/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO		mg/kg	mg/kg	Analyst: JL		Batch: 2313101
Diesel Range Organics (C10-C28)	ND	25.0	1	04/01/23	04/04/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/01/23	04/04/23	
<i>Surrogate: n-Nonane</i>		112 %	50-200	04/01/23	04/04/23	
Anions by EPA 300.0/9056A		mg/kg	mg/kg	Analyst: BA		Batch: 2313078
Chloride	ND	20.0	1	03/30/23	04/01/23	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Rattle Snake 16 SWD Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 4/6/2023 9:57:48AM
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NSW 1

E303154-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B		mg/kg	mg/kg	Analyst: IY		Batch: 2313074
Benzene	ND	0.0250	1	03/30/23	04/01/23	
Ethylbenzene	ND	0.0250	1	03/30/23	04/01/23	
Toluene	ND	0.0250	1	03/30/23	04/01/23	
o-Xylene	ND	0.0250	1	03/30/23	04/01/23	
p,m-Xylene	ND	0.0500	1	03/30/23	04/01/23	
Total Xylenes	ND	0.0250	1	03/30/23	04/01/23	
<i>Surrogate: Bromofluorobenzene</i>		102 %	70-130	03/30/23	04/01/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		112 %	70-130	03/30/23	04/01/23	
<i>Surrogate: Toluene-d8</i>		105 %	70-130	03/30/23	04/01/23	
Nonhalogenated Organics by EPA 8015D - GRO		mg/kg	mg/kg	Analyst: IY		Batch: 2313074
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/30/23	04/01/23	
<i>Surrogate: Bromofluorobenzene</i>		102 %	70-130	03/30/23	04/01/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		112 %	70-130	03/30/23	04/01/23	
<i>Surrogate: Toluene-d8</i>		105 %	70-130	03/30/23	04/01/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO		mg/kg	mg/kg	Analyst: JL		Batch: 2313101
Diesel Range Organics (C10-C28)	ND	25.0	1	04/01/23	04/04/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/01/23	04/04/23	
<i>Surrogate: n-Nonane</i>		119 %	50-200	04/01/23	04/04/23	
Anions by EPA 300.0/9056A		mg/kg	mg/kg	Analyst: BA		Batch: 2313078
Chloride	ND	20.0	1	03/30/23	04/01/23	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Rattle Snake 16 SWD Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 4/6/2023 9:57:48AM
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NSW 2

E303154-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: IY		Batch: 2313074
Benzene	ND	0.0250	1	03/30/23	04/01/23	
Ethylbenzene	ND	0.0250	1	03/30/23	04/01/23	
Toluene	ND	0.0250	1	03/30/23	04/01/23	
o-Xylene	ND	0.0250	1	03/30/23	04/01/23	
p,m-Xylene	ND	0.0500	1	03/30/23	04/01/23	
Total Xylenes	ND	0.0250	1	03/30/23	04/01/23	
<i>Surrogate: Bromofluorobenzene</i>		101 %	70-130	03/30/23	04/01/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		113 %	70-130	03/30/23	04/01/23	
<i>Surrogate: Toluene-d8</i>		103 %	70-130	03/30/23	04/01/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2313074
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/30/23	04/01/23	
<i>Surrogate: Bromofluorobenzene</i>		101 %	70-130	03/30/23	04/01/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		113 %	70-130	03/30/23	04/01/23	
<i>Surrogate: Toluene-d8</i>		103 %	70-130	03/30/23	04/01/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: JL		Batch: 2313101
Diesel Range Organics (C10-C28)	ND	25.0	1	04/01/23	04/04/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/01/23	04/04/23	
<i>Surrogate: n-Nonane</i>		111 %	50-200	04/01/23	04/04/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2313078
Chloride	ND	20.0	1	03/30/23	04/01/23	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Rattle Snake 16 SWD Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 4/6/2023 9:57:48AM
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NSW 3

E303154-21

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B		mg/kg	mg/kg	Analyst: IY		Batch: 2313073
Benzene	ND	0.0250	1	03/30/23	03/31/23	
Ethylbenzene	ND	0.0250	1	03/30/23	03/31/23	
Toluene	ND	0.0250	1	03/30/23	03/31/23	
o-Xylene	ND	0.0250	1	03/30/23	03/31/23	
p,m-Xylene	ND	0.0500	1	03/30/23	03/31/23	
Total Xylenes	ND	0.0250	1	03/30/23	03/31/23	
<i>Surrogate: Bromofluorobenzene</i>		102 %	70-130	03/30/23	03/31/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		112 %	70-130	03/30/23	03/31/23	
<i>Surrogate: Toluene-d8</i>		101 %	70-130	03/30/23	03/31/23	
Nonhalogenated Organics by EPA 8015D - GRO		mg/kg	mg/kg	Analyst: IY		Batch: 2313073
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/30/23	03/31/23	
<i>Surrogate: Bromofluorobenzene</i>		102 %	70-130	03/30/23	03/31/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		112 %	70-130	03/30/23	03/31/23	
<i>Surrogate: Toluene-d8</i>		101 %	70-130	03/30/23	03/31/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO		mg/kg	mg/kg	Analyst: JL		Batch: 2313100
Diesel Range Organics (C10-C28)	ND	25.0	1	04/01/23	04/05/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/01/23	04/05/23	
<i>Surrogate: n-Nonane</i>		115 %	50-200	04/01/23	04/05/23	
Anions by EPA 300.0/9056A		mg/kg	mg/kg	Analyst: BA		Batch: 2313083
Chloride	ND	20.0	1	03/30/23	04/03/23	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Rattle Snake 16 SWD Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 4/6/2023 9:57:48AM
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NSW 4

E303154-22

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: IY		Batch: 2313073
Benzene	ND	0.0250	1	03/30/23	03/31/23	
Ethylbenzene	ND	0.0250	1	03/30/23	03/31/23	
Toluene	ND	0.0250	1	03/30/23	03/31/23	
o-Xylene	ND	0.0250	1	03/30/23	03/31/23	
p,m-Xylene	ND	0.0500	1	03/30/23	03/31/23	
Total Xylenes	ND	0.0250	1	03/30/23	03/31/23	
<i>Surrogate: Bromofluorobenzene</i>		103 %	70-130	03/30/23	03/31/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		118 %	70-130	03/30/23	03/31/23	
<i>Surrogate: Toluene-d8</i>		103 %	70-130	03/30/23	03/31/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2313073
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/30/23	03/31/23	
<i>Surrogate: Bromofluorobenzene</i>		103 %	70-130	03/30/23	03/31/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		118 %	70-130	03/30/23	03/31/23	
<i>Surrogate: Toluene-d8</i>		103 %	70-130	03/30/23	03/31/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: JL		Batch: 2313100
Diesel Range Organics (C10-C28)	ND	25.0	1	04/01/23	04/05/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/01/23	04/05/23	
<i>Surrogate: n-Nonane</i>		117 %	50-200	04/01/23	04/05/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2313083
Chloride	ND	20.0	1	03/30/23	04/03/23	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Rattle Snake 16 SWD Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 4/6/2023 9:57:48AM
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NSW 5

E303154-23

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2313073
Benzene	ND	0.0250	1	03/30/23	03/31/23	
Ethylbenzene	ND	0.0250	1	03/30/23	03/31/23	
Toluene	ND	0.0250	1	03/30/23	03/31/23	
o-Xylene	ND	0.0250	1	03/30/23	03/31/23	
p,m-Xylene	ND	0.0500	1	03/30/23	03/31/23	
Total Xylenes	ND	0.0250	1	03/30/23	03/31/23	
<i>Surrogate: Bromofluorobenzene</i>		100 %	70-130	03/30/23	03/31/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		111 %	70-130	03/30/23	03/31/23	
<i>Surrogate: Toluene-d8</i>		102 %	70-130	03/30/23	03/31/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2313073
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/30/23	03/31/23	
<i>Surrogate: Bromofluorobenzene</i>		100 %	70-130	03/30/23	03/31/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		111 %	70-130	03/30/23	03/31/23	
<i>Surrogate: Toluene-d8</i>		102 %	70-130	03/30/23	03/31/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2313100
Diesel Range Organics (C10-C28)	ND	25.0	1	04/01/23	04/05/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/01/23	04/05/23	
<i>Surrogate: n-Nonane</i>		118 %	50-200	04/01/23	04/05/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2313083
Chloride	ND	20.0	1	03/30/23	04/03/23	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Rattle Snake 16 SWD Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 4/6/2023 9:57:48AM
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NSW 6

E303154-24

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2313073
Benzene	ND	0.0250	1	03/30/23	03/31/23	
Ethylbenzene	ND	0.0250	1	03/30/23	03/31/23	
Toluene	ND	0.0250	1	03/30/23	03/31/23	
o-Xylene	ND	0.0250	1	03/30/23	03/31/23	
p,m-Xylene	ND	0.0500	1	03/30/23	03/31/23	
Total Xylenes	ND	0.0250	1	03/30/23	03/31/23	
<i>Surrogate: Bromofluorobenzene</i>		101 %	70-130	03/30/23	03/31/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		110 %	70-130	03/30/23	03/31/23	
<i>Surrogate: Toluene-d8</i>		103 %	70-130	03/30/23	03/31/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2313073
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/30/23	03/31/23	
<i>Surrogate: Bromofluorobenzene</i>		101 %	70-130	03/30/23	03/31/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		110 %	70-130	03/30/23	03/31/23	
<i>Surrogate: Toluene-d8</i>		103 %	70-130	03/30/23	03/31/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2313100
Diesel Range Organics (C10-C28)	ND	25.0	1	04/01/23	04/05/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/01/23	04/05/23	
<i>Surrogate: n-Nonane</i>		130 %	50-200	04/01/23	04/05/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2313083
Chloride	ND	20.0	1	03/30/23	04/03/23	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Rattle Snake 16 SWD Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 4/6/2023 9:57:48AM
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NSW 7

E303154-25

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2313073
Benzene	ND	0.0250	1	03/30/23	03/31/23	
Ethylbenzene	ND	0.0250	1	03/30/23	03/31/23	
Toluene	ND	0.0250	1	03/30/23	03/31/23	
o-Xylene	ND	0.0250	1	03/30/23	03/31/23	
p,m-Xylene	ND	0.0500	1	03/30/23	03/31/23	
Total Xylenes	ND	0.0250	1	03/30/23	03/31/23	
<i>Surrogate: Bromofluorobenzene</i>		103 %	70-130	03/30/23	03/31/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		113 %	70-130	03/30/23	03/31/23	
<i>Surrogate: Toluene-d8</i>		102 %	70-130	03/30/23	03/31/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2313073
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/30/23	03/31/23	
<i>Surrogate: Bromofluorobenzene</i>		103 %	70-130	03/30/23	03/31/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		113 %	70-130	03/30/23	03/31/23	
<i>Surrogate: Toluene-d8</i>		102 %	70-130	03/30/23	03/31/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2313100
Diesel Range Organics (C10-C28)	ND	25.0	1	04/01/23	04/05/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/01/23	04/05/23	
<i>Surrogate: n-Nonane</i>		119 %	50-200	04/01/23	04/05/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2313083
Chloride	ND	20.0	1	03/30/23	04/03/23	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Rattle Snake 16 SWD Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 4/6/2023 9:57:48AM
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NSW 8

E303154-26

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2313073
Benzene	ND	0.0250	1	03/30/23	03/31/23	
Ethylbenzene	ND	0.0250	1	03/30/23	03/31/23	
Toluene	ND	0.0250	1	03/30/23	03/31/23	
o-Xylene	ND	0.0250	1	03/30/23	03/31/23	
p,m-Xylene	ND	0.0500	1	03/30/23	03/31/23	
Total Xylenes	ND	0.0250	1	03/30/23	03/31/23	
<i>Surrogate: Bromofluorobenzene</i>		102 %	70-130	03/30/23	03/31/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		116 %	70-130	03/30/23	03/31/23	
<i>Surrogate: Toluene-d8</i>		103 %	70-130	03/30/23	03/31/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2313073
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/30/23	03/31/23	
<i>Surrogate: Bromofluorobenzene</i>		102 %	70-130	03/30/23	03/31/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		116 %	70-130	03/30/23	03/31/23	
<i>Surrogate: Toluene-d8</i>		103 %	70-130	03/30/23	03/31/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2313100
Diesel Range Organics (C10-C28)	ND	25.0	1	04/01/23	04/05/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/01/23	04/05/23	
<i>Surrogate: n-Nonane</i>		109 %	50-200	04/01/23	04/05/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2313083
Chloride	ND	20.0	1	03/30/23	04/03/23	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Rattle Snake 16 SWD Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 4/6/2023 9:57:48AM
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NSW 9

E303154-27

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: IY		Batch: 2313073
Benzene	ND	0.0250	1	03/30/23	03/31/23	
Ethylbenzene	ND	0.0250	1	03/30/23	03/31/23	
Toluene	ND	0.0250	1	03/30/23	03/31/23	
o-Xylene	ND	0.0250	1	03/30/23	03/31/23	
p,m-Xylene	ND	0.0500	1	03/30/23	03/31/23	
Total Xylenes	ND	0.0250	1	03/30/23	03/31/23	
<i>Surrogate: Bromofluorobenzene</i>		99.2 %	70-130	03/30/23	03/31/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		112 %	70-130	03/30/23	03/31/23	
<i>Surrogate: Toluene-d8</i>		100 %	70-130	03/30/23	03/31/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2313073
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/30/23	03/31/23	
<i>Surrogate: Bromofluorobenzene</i>		99.2 %	70-130	03/30/23	03/31/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		112 %	70-130	03/30/23	03/31/23	
<i>Surrogate: Toluene-d8</i>		100 %	70-130	03/30/23	03/31/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: JL		Batch: 2313100
Diesel Range Organics (C10-C28)	ND	25.0	1	04/01/23	04/05/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/01/23	04/05/23	
<i>Surrogate: n-Nonane</i>		108 %	50-200	04/01/23	04/05/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2313083
Chloride	20.8	20.0	1	03/30/23	04/03/23	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Rattle Snake 16 SWD Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 4/6/2023 9:57:48AM
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**NSW 10
E303154-28**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: IY		Batch: 2313073
Benzene	ND	0.0250	1	03/30/23	03/31/23	
Ethylbenzene	ND	0.0250	1	03/30/23	03/31/23	
Toluene	ND	0.0250	1	03/30/23	03/31/23	
o-Xylene	ND	0.0250	1	03/30/23	03/31/23	
p,m-Xylene	ND	0.0500	1	03/30/23	03/31/23	
Total Xylenes	ND	0.0250	1	03/30/23	03/31/23	
<i>Surrogate: Bromofluorobenzene</i>		103 %	70-130	03/30/23	03/31/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		116 %	70-130	03/30/23	03/31/23	
<i>Surrogate: Toluene-d8</i>		103 %	70-130	03/30/23	03/31/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2313073
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/30/23	03/31/23	
<i>Surrogate: Bromofluorobenzene</i>		103 %	70-130	03/30/23	03/31/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		116 %	70-130	03/30/23	03/31/23	
<i>Surrogate: Toluene-d8</i>		103 %	70-130	03/30/23	03/31/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: JL		Batch: 2313100
Diesel Range Organics (C10-C28)	ND	25.0	1	04/01/23	04/05/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/01/23	04/05/23	
<i>Surrogate: n-Nonane</i>		108 %	50-200	04/01/23	04/05/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2313083
Chloride	ND	20.0	1	03/30/23	04/03/23	



QC Summary Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Rattle Snake 16 SWD Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 4/6/2023 9:57:48AM
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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 (2313073-BLK1)

Prepared: 03/30/23 Analyzed: 03/31/23

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	0.514		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.554		0.500		111	70-130			
Surrogate: Toluene-d8	0.499		0.500		99.8	70-130			

LCS (2313073-BS1)

Prepared: 03/30/23 Analyzed: 03/31/23

Benzene	2.47	0.0250	2.50		99.0	70-130			
Ethylbenzene	2.57	0.0250	2.50		103	70-130			
Toluene	2.60	0.0250	2.50		104	70-130			
o-Xylene	2.59	0.0250	2.50		104	70-130			
p,m-Xylene	5.14	0.0500	5.00		103	70-130			
Total Xylenes	7.73	0.0250	7.50		103	70-130			
Surrogate: Bromofluorobenzene	0.531		0.500		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.575		0.500		115	70-130			
Surrogate: Toluene-d8	0.519		0.500		104	70-130			

LCS Dup (2313073-BSD1)

Prepared: 03/30/23 Analyzed: 03/31/23

Benzene	2.49	0.0250	2.50		99.6	70-130	0.685	23	
Ethylbenzene	2.51	0.0250	2.50		100	70-130	2.27	27	
Toluene	2.57	0.0250	2.50		103	70-130	1.16	24	
o-Xylene	2.55	0.0250	2.50		102	70-130	1.71	27	
p,m-Xylene	5.04	0.0500	5.00		101	70-130	1.91	27	
Total Xylenes	7.58	0.0250	7.50		101	70-130	1.84	27	
Surrogate: Bromofluorobenzene	0.542		0.500		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.553		0.500		111	70-130			
Surrogate: Toluene-d8	0.512		0.500		102	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Rattle Snake 16 SWD Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 4/6/2023 9:57:48AM
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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 (2313074-BLK1)

Prepared: 03/30/23 Analyzed: 04/01/23

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	0.497		0.500		99.3			70-130	
Surrogate: 1,2-Dichloroethane-d4	0.582		0.500		116			70-130	
Surrogate: Toluene-d8	0.504		0.500		101			70-130	

LCS (2313074-BS1)

Prepared: 03/30/23 Analyzed: 04/01/23

Benzene	2.54	0.0250	2.50		102			70-130	
Ethylbenzene	2.46	0.0250	2.50		98.4			70-130	
Toluene	2.52	0.0250	2.50		101			70-130	
o-Xylene	2.47	0.0250	2.50		98.9			70-130	
p,m-Xylene	4.91	0.0500	5.00		98.2			70-130	
Total Xylenes	7.38	0.0250	7.50		98.5			70-130	
Surrogate: Bromofluorobenzene	0.535		0.500		107			70-130	
Surrogate: 1,2-Dichloroethane-d4	0.574		0.500		115			70-130	
Surrogate: Toluene-d8	0.511		0.500		102			70-130	

Matrix Spike (2313074-MS1)

Source: E303154-02

Prepared: 03/30/23 Analyzed: 04/01/23

Benzene	2.60	0.0250	2.50	ND	104			48-131	
Ethylbenzene	2.51	0.0250	2.50	ND	100			45-135	
Toluene	2.58	0.0250	2.50	ND	103			48-130	
o-Xylene	2.52	0.0250	2.50	ND	101			43-135	
p,m-Xylene	5.02	0.0500	5.00	ND	100			43-135	
Total Xylenes	7.54	0.0250	7.50	ND	101			43-135	
Surrogate: Bromofluorobenzene	0.519		0.500		104			70-130	
Surrogate: 1,2-Dichloroethane-d4	0.568		0.500		114			70-130	
Surrogate: Toluene-d8	0.503		0.500		101			70-130	

Matrix Spike Dup (2313074-MSD1)

Source: E303154-02

Prepared: 03/30/23 Analyzed: 04/01/23

Benzene	2.67	0.0250	2.50	ND	107		2.68	23	
Ethylbenzene	2.58	0.0250	2.50	ND	103		2.81	27	
Toluene	2.65	0.0250	2.50	ND	106		2.72	24	
o-Xylene	2.60	0.0250	2.50	ND	104		3.14	27	
p,m-Xylene	5.17	0.0500	5.00	ND	103		2.81	27	
Total Xylenes	7.77	0.0250	7.50	ND	104		2.92	27	
Surrogate: Bromofluorobenzene	0.531		0.500		106			70-130	
Surrogate: 1,2-Dichloroethane-d4	0.555		0.500		111			70-130	
Surrogate: Toluene-d8	0.510		0.500		102			70-130	



QC Summary Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Rattle Snake 16 SWD Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 4/6/2023 9:57:48AM
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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 (2313073-BLK1)

Prepared: 03/30/23 Analyzed: 03/31/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.514		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.554		0.500		111	70-130			
Surrogate: Toluene-d8	0.499		0.500		99.8	70-130			

LCS (2313073-BS2)

Prepared: 03/30/23 Analyzed: 03/31/23

Gasoline Range Organics (C6-C10)	55.1	20.0	50.0		110	70-130			
Surrogate: Bromofluorobenzene	0.523		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.539		0.500		108	70-130			
Surrogate: Toluene-d8	0.521		0.500		104	70-130			

LCS Dup (2313073-BSD2)

Prepared: 03/30/23 Analyzed: 03/31/23

Gasoline Range Organics (C6-C10)	54.2	20.0	50.0		108	70-130	1.57	20	
Surrogate: Bromofluorobenzene	0.521		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.559		0.500		112	70-130			
Surrogate: Toluene-d8	0.522		0.500		104	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Rattle Snake 16 SWD Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 4/6/2023 9:57:48AM
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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 (2313074-BLK1)

Prepared: 03/30/23 Analyzed: 04/01/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.497		0.500		99.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.582		0.500		116	70-130			
Surrogate: Toluene-d8	0.504		0.500		101	70-130			

LCS (2313074-BS2)

Prepared: 03/30/23 Analyzed: 04/01/23

Gasoline Range Organics (C6-C10)	53.2	20.0				70-130			
Surrogate: Bromofluorobenzene	0.507		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.555		0.500		111	70-130			
Surrogate: Toluene-d8	0.521		0.500		104	70-130			

Matrix Spike (2313074-MS2)

Source: E303154-02

Prepared: 03/30/23 Analyzed: 04/01/23

Gasoline Range Organics (C6-C10)	53.6	20.0		ND		70-130			
Surrogate: Bromofluorobenzene	0.517		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.555		0.500		111	70-130			
Surrogate: Toluene-d8	0.517		0.500		103	70-130			

Matrix Spike Dup (2313074-MSD2)

Source: E303154-02

Prepared: 03/30/23 Analyzed: 04/01/23

Gasoline Range Organics (C6-C10)	52.6	20.0		ND		70-130	2.02	20	
Surrogate: Bromofluorobenzene	0.526		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.543		0.500		109	70-130			
Surrogate: Toluene-d8	0.520		0.500		104	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Rattle Snake 16 SWD Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 4/6/2023 9:57:48AM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2313100-BLK1)

Prepared: 04/01/23 Analyzed: 04/05/23

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	59.2		50.0		118	50-200			

LCS (2313100-BS1)

Prepared: 04/01/23 Analyzed: 04/05/23

Diesel Range Organics (C10-C28)	282	25.0	250		113	38-132			
Surrogate: n-Nonane	57.0		50.0		114	50-200			

Matrix Spike (2313100-MS1)

Source: E303154-26

Prepared: 04/01/23 Analyzed: 04/05/23

Diesel Range Organics (C10-C28)	298	25.0	250	ND	119	38-132			
Surrogate: n-Nonane	55.9		50.0		112	50-200			

Matrix Spike Dup (2313100-MSD1)

Source: E303154-26

Prepared: 04/01/23 Analyzed: 04/05/23

Diesel Range Organics (C10-C28)	299	25.0	250	ND	120	38-132	0.291	20	
Surrogate: n-Nonane	55.5		50.0		111	50-200			



QC Summary Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Rattle Snake 16 SWD Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 4/6/2023 9:57:48AM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2313101-BLK1)

Prepared: 04/01/23 Analyzed: 04/04/23

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	55.4		50.0		111	50-200			

LCS (2313101-BS1)

Prepared: 04/01/23 Analyzed: 04/04/23

Diesel Range Organics (C10-C28)	285	25.0	250		114	38-132			
Surrogate: n-Nonane	55.2		50.0		110	50-200			

Matrix Spike (2313101-MS1)

Source: E303154-16

Prepared: 04/01/23 Analyzed: 04/04/23

Diesel Range Organics (C10-C28)	294	25.0	250	ND	117	38-132			
Surrogate: n-Nonane	52.6		50.0		105	50-200			

Matrix Spike Dup (2313101-MSD1)

Source: E303154-16

Prepared: 04/01/23 Analyzed: 04/04/23

Diesel Range Organics (C10-C28)	289	25.0	250	ND	116	38-132	1.54	20	
Surrogate: n-Nonane	49.0		50.0		98.0	50-200			



QC Summary Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Rattle Snake 16 SWD Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 4/6/2023 9:57:48AM
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Anions by EPA 300.0/9056A

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2313078-BLK1)

Prepared: 03/30/23 Analyzed: 04/01/23

Chloride ND 20.0

LCS (2313078-BS1)

Prepared: 03/30/23 Analyzed: 04/01/23

Chloride 241 20.0 250 96.3 90-110

Matrix Spike (2313078-MS1)

Source: E303154-01

Prepared: 03/30/23 Analyzed: 04/01/23

Chloride 328 20.0 250 100 90.9 80-120

Matrix Spike Dup (2313078-MSD1)

Source: E303154-01

Prepared: 03/30/23 Analyzed: 04/01/23

Chloride 332 20.0 250 100 92.6 80-120 1.27 20



QC Summary Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Rattle Snake 16 SWD Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 4/6/2023 9:57:48AM
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Anions by EPA 300.0/9056A

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2313083-BLK1)

Prepared: 03/30/23 Analyzed: 04/03/23

Chloride ND 20.0

LCS (2313083-BS1)

Prepared: 03/30/23 Analyzed: 04/03/23

Chloride 252 20.0 250 101 90-110

Matrix Spike (2313083-MS1)

Source: E303154-21

Prepared: 03/30/23 Analyzed: 04/03/23

Chloride 267 20.0 250 ND 107 80-120

Matrix Spike Dup (2313083-MSD1)

Source: E303154-21

Prepared: 03/30/23 Analyzed: 04/03/23

Chloride 268 20.0 250 ND 107 80-120 0.306 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:	Rattle Snake 16 SWD	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	04/06/23 09:57

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.



Client: Pima Environmental Services		Bill To		Lab Use Only		TAT		EPA Program	
Project: <u>Rame Snake Lake SWD</u>		Attention: <u>Devon</u>		Lab WO# <u>E303154</u>		Job Number <u>010580007</u>		CWA	
Project Manager: Tom Bynum		Address:		1D		2D		3D	
Address: 5614 N. Lovington Hwy.		City, State, Zip		Analysis and Method		Standard		RCRA	
City, State, Zip <u>Hobbs, NM, 88240</u>		Phone:		DRO/DRO by 8015		GRO/DRO by 8015		BTEX by 8021	
Phone: 580-748-1613		Email:		VOC by 8260		Metals 6010		Chloride 300.0	
Email: tom@pimaoil.com		Pima Project # <u>1-267</u>		BGDOC NM		BGDOC TX		State	
Report due by:				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
3:10	3/29/23	S	1	N1-1'	1							X		
3:15				N2-1'	2									
3:20				N3-1'	3									
3:25				N4-1'	4									
3:30				N5-1'	5									
3:35				N6-1'	6									
3:40				N1-3'	7									
3:45				N2-3'	8									
3:50				N3-3'	9									
3:55				N4-3'	10									

Additional Instructions: Billing #: 21130338

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: Audriana Bernades

Relinquished by: (Signature) <u>AB</u>	Date <u>3-30-23</u>	Time <u>2:00</u>	Received by: (Signature) <u>Michelle Gonzalez</u>	Date <u>3-30-23</u>	Time <u>1400</u>	Received on ice: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Relinquished by: (Signature) <u>Michelle Gonzalez</u>	Date <u>3-30-23</u>	Time <u>1730</u>	Received by: (Signature) <u>Lawrence Lee</u>	Date <u>3-30-23</u>	Time <u>1730</u>	T1: _____ T2: _____ T3: _____
Relinquished by: (Signature) <u>Karluzeta</u>	Date <u>3-30-23</u>	Time <u>2315</u>	Received by: (Signature) <u>Alvarez</u>	Date <u>3-31-23</u>	Time <u>5:45</u>	AVG Temp °C <u>4</u>

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

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



Client: Pima Environmental Services Project: <u>Rattle Snake 1.6 Sd</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:	Attention: <u>Devon</u> Address: City, State, Zip: Phone: Email: Pima Project # <u>1-267</u>	Lab Use Only Lab WO# <u>E303154</u> Job Number <u>01058-0007</u> Analysis and Method	TAT 1D 2D 3D Standard <u>X</u>	EPA Program CWA SDWA RCRA
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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
4:00	3/29/23	S	1	N5-3'	11							X		
4:05				N6-3'	12									
4:10				N1-4'	13									
4:15				N2-4'	14									
4:20				N3-4'	15									
4:25				N4-4'	16									
4:30				N5-4'	17									
4:35				N6-4'	18									
4:40				NSW1	19									
4:45				NSW2	20									

Additional Instructions: Billing #: 21130338

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: Audriana Benavidez

Relinquished by: (Signature) <u>[Signature]</u>	Date <u>3-30-23</u> Time <u>2:00</u>	Received by: (Signature) <u>[Signature]</u>	Date <u>3-30-23</u> Time <u>1400</u>	Received on ice: <u>(Y) N</u>
Relinquished by: (Signature) <u>[Signature]</u>	Date <u>3-30-23</u> Time <u>1730</u>	Received by: (Signature) <u>[Signature]</u>	Date <u>3-30-23</u> Time <u>1730</u>	T1: T2: T3:
Relinquished by: (Signature) <u>[Signature]</u>	Date <u>3-30-23</u> Time <u>2318</u>	Received by: (Signature) <u>[Signature]</u>	Date <u>3-31-23</u> Time <u>5:45</u>	AVG Temp °C <u>4</u>

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other
 Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.



Client: Pima Environmental Services Project: <u>Katla Snake Ho SWD</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>Dexon</u> Address: City, State, Zip: Phone: Email: Pima Project # <u>1-267</u>		Lab Use Only Lab WO# <u>E303154</u> Job Number <u>01058-0007</u> Analysis and Method		TAT 1D 2D 3D Standard <u>X</u>		EPA Program CWA SDWA RCRA	
						State NM CO UT AZ TX <u>X</u>		Remarks	

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	Remarks
4:50	3/29/23	S	1	NSW3	21							X		
4:55				NSW4	22									
5:00				NSW5	23									
5:05				NSW6	24									
5:10				NSW7	25									
5:15				NSW8	26									
5:20				NSW9	27									
5:25				NSW10	28									

Additional Instructions: Billing #: 211 303 38

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: Audriana 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) <u>AB</u>	Date <u>3-30-23</u>	Time <u>2:00</u>	Received by: (Signature) <u>Michelle Gonzalez</u>	Date <u>3-30-23</u>	Time <u>1400</u>	Received on ice: <u>Y</u> N
Relinquished by: (Signature) <u>Michelle Gonzalez</u>	Date <u>3-30-23</u>	Time <u>1730</u>	Received by: (Signature) <u>Lucas</u>	Date <u>3-30-23</u>	Time <u>1730</u>	T1 T2 T3
Relinquished by: (Signature) <u>[Signature]</u>	Date	Time	Received by: (Signature) <u>[Signature]</u>	Date <u>3-31-23</u>	Time <u>5:45</u>	AVG Temp °C <u>4</u>

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

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



Envirotech Analytical Laboratory

Printed: 3/31/2023 9:59:16AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client: Pima Environmental Services-Carlsbad Date Received: 03/31/23 05:45 Work Order ID: E303154
Phone: (575) 631-6977 Date Logged In: 03/30/23 15:24 Logged In By: Caitlin Christian
Email: tom@pimaoil.com Due Date: 04/06/23 17:00 (4 day TAT)

Chain of Custody (COC)

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

Carrier: Courier

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

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

Empty box for client instruction.

Comments/Resolution

Large empty box for comments/resolution.

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

CONDITIONS

Action 208698

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 208698
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Closure Report Approved.	5/19/2023