

Incident ID	nAPP2303756344
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: 5/18/2023
email: dale.woodall@dvn.com Telephone: 575-748-1839

OCD Only

Received by: Jocelyn Harimon Date: 05/19/2023

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: Robert Hamlet Date: 10/12/2023
Printed Name: Robert Hamlet Title: Environmental Specialist - Advanced

Incident ID	nAPP2303756344
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Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u><50</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input checked="" type="checkbox"/> Yes <input 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.

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Signature: *Dale Woodall* Date: 5/18/2023
email: dale.woodall@dvn.com Telephone: 575-748-1839

OCD Only

Received by: Jocelyn Harimon Date: 05/19/2023

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Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____



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

May 8, 2023

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

Re: Site Assessment, Remediation and Closure Report
Onyx 29 CTB 1
API No. N/A
GPS: Latitude 32.634866, Longitude -104.102087
UL "E," Sec.29, T19S, R29E
Eddy County, NM
NMOCD Ref. No. NAPP2303756344

Devon Energy Production Company (Devon) has contracted Pima Environmental Services LLC, (Pima) to perform a spill assessment and has prepared this Closure Report for a crude oil release that occurred at the Onyx 29 CTB 1 (Onyx). The initial C-141 was submitted on February 21, 2023 (Appendix C). This incident was assigned Incident ID NAPP2303756344, by the New Mexico Oil Conservation Division (NMOCD).

Site Characterization

The Onyx is located approximately fourteen (14) miles northeast of Carlsbad, NM. This spill site is in Unit E, Section 29, Township 19S, Range 29E, Latitude 32.634866, Longitude -104.102087, Eddy County, NM. Figure 1 references a Location Map.

Per the New Mexico Bureau of Geology and Mineral Resources, the geology is in the Piedmont alluvial deposits Includes deposits of higher gradient tributaries bordering major stream valleys, alluvial veneers of the piedmont slope, and alluvial fans. May locally include uppermost Pliocene deposits. The soils in this area are made up of Reeves-Gypsum land complex, 0 to 3 percent slopes according to the United States Department of Agriculture Natural Resources Conservation Service soil survey (Appendix B). The drainage courses in this area are well-drained. There is a high potential for karst geology to be present around the Coral (Figure 3).

According to the New Mexico Office of the State Engineer, the depth to the nearest groundwater in this area is 75 feet below grade surface (BGS). According to the United States Geological Survey (USGS), the nearest groundwater is 66 feet BGS. The closest waterway is a Salt Playa located approximately 8.21 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 B)	Constituent & Limits				
	Chlorides	Total TPH	GRO+DRO	BTEX	Benzene
<50' High Karst	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

NAPP2303756344 On February 5, 2023, a sight glass on a 3-phase separator broke causing fluid to be released. The released fluids were calculated to be approximately 13.6 barrels (bbls) of crude oil, Vacuum truck was able to recover approximately 12 bbls of crude oil.

Site Assessment and Soil Sampling Results

On March 3, 2023, Pima mobilized personnel to the site to begin collecting soil samples from spill area. The laboratory results of this sampling event can be found in the following data table. A Site Map can be found in Figure 4.

3/3/23 Soil Sample Results

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is <50)								
DEVON ENERGY - ONYX PWU 29 CTB 1								
Sample Date: 3/3/2023		NM Approved Laboratory Results						
Sample ID	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg
S-1	1'	8.61	ND	144	18000	4490	22642.61	359
	3'	ND	ND	ND	98	57	155	ND
	4'	0.129	ND	ND	ND	ND	0.129	ND
S-2	1'	9.71	ND	167	18300	5670	24146.71	ND
	3'	ND	ND	ND	536	215	751	ND
	4'	ND	ND	ND	ND	ND	0	ND
S-3	1'	10.2	ND	178	16700	4980	21868.2	ND
	3'	ND	ND	ND	158	100	258	ND
	4'	ND	ND	ND	ND	ND	0	ND
S-4	1'	0.222	ND	ND	2350	785	3135.222	ND
	3'	ND	ND	ND	542	259	801	ND
	4'	ND	ND	ND	ND	ND	0	ND
SW-1	6"	ND	ND	ND	ND	ND	0	ND
SW-2	6"	ND	ND	ND	ND	ND	0	ND
SW-3	6"	ND	ND	ND	ND	ND	0	ND
SW-4	6"	ND	ND	ND	ND	ND	0	ND
BG 1	6"	ND	ND	ND	ND	ND	0	ND

ND- Analyte Not Detected

Remediation Activities

On April 12, 2023, the Devon Construction Department mobilized personnel and equipment to conduct remedial activities. They excavated the areas from S-1 through S 4 to a depth of 4' BGS. Pima personnel collected samples to verify all contaminated soil had been removed. Approximately 52 cubic yards of soil was hauled to an approved, lined disposal facility and clean backfill material was brought in.

On April 16, 2023, after sending a 48-hour notification (Appendix C), Pima began collecting confirmation samples of the affected areas. The laboratory results of this sampling event can be found in the following data table. A Confirmation Sample Map can be found in Figure 5.

4/16/2023 Confirmation Samples Results

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is <50)								
DEVON ENERGY - ONYX PWU 29 CTB 1								
Sample Date: 4/16/2023		NM Approved Laboratory Results						
Sample ID	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg
CS 1	4'	ND	ND	ND	ND	ND	0	ND
CS 2	4'	ND	ND	ND	ND	ND	0	ND
CS 3	4'	ND	ND	ND	ND	ND	0	ND
CSW 1	4'	ND	ND	ND	ND	ND	0	ND
CSW 2	4'	ND	ND	ND	ND	ND	0	ND
CSW 3	4'	ND	ND	ND	ND	ND	0	ND
CSW 4	4'	ND	ND	ND	ND	ND	0	ND
CSW 5	4'	ND	ND	ND	ND	ND	0	ND
CSW 6	4'	ND	ND	ND	ND	ND	0	ND
CSW 7	4'	ND	ND	ND	ND	ND	0	ND
CSW 8	4'	ND	ND	ND	ND	ND	0	ND
CSW 9	4'	ND	ND	ND	ND	ND	0	ND

ND-Analyte Not Detected

Complete laboratory results can be found in Appendix E.

Based on the sample results, the bottoms and sidewalls were below NMOCD Closure Criteria 19.15.29 NMAC. The contaminated material was sufficiently removed then transported to an NMOCD approved disposal site. The excavation was then backfilled with clean like material, machine compacted and returned to its previous state. See Appendix D for Photographic Documentation.

Closure Request

After careful review, Pima requests that this incident NAPP2303756344 be closed. Devon has complied with the applicable closure requirements set forth in rule 19.15.19.12 NMAC.

Should you have any questions or need additional information, please feel free to contact Gio Gomez at 575-964-7740 or gio@pimaoil.com.

Respectfully,

Gio Gomez



Project Manager

Pima Environmental Services, LLC

Attachments

Figures:

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

Appendices:

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



Pima Environmental Services

Figures:

1-Location Map

2-Topographic Map

3-Karst Map



4-Site Map

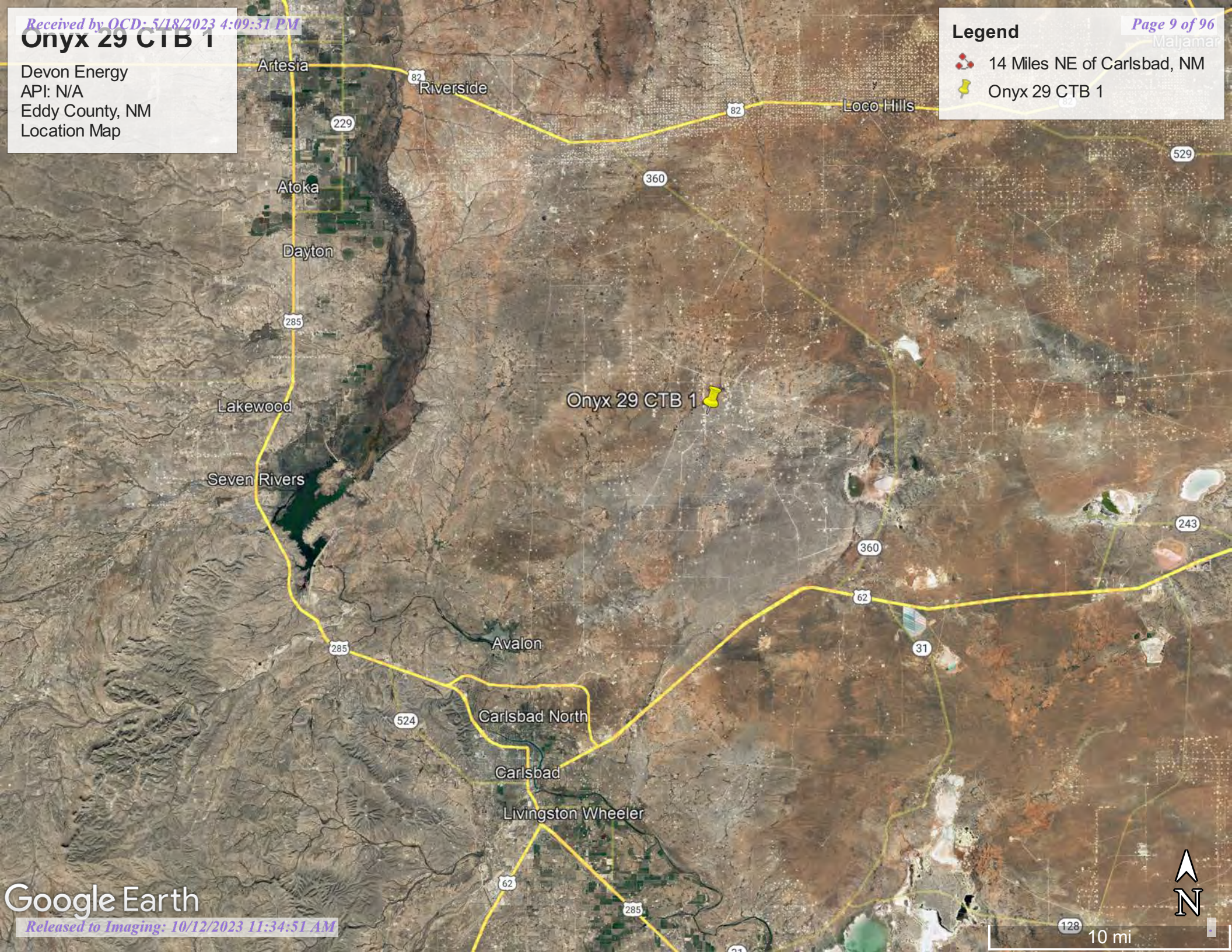
5-Confirmation Sample Map

Onyx 29 CTB 1

Devon Energy
API: N/A
Eddy County, NM
Location Map

Legend

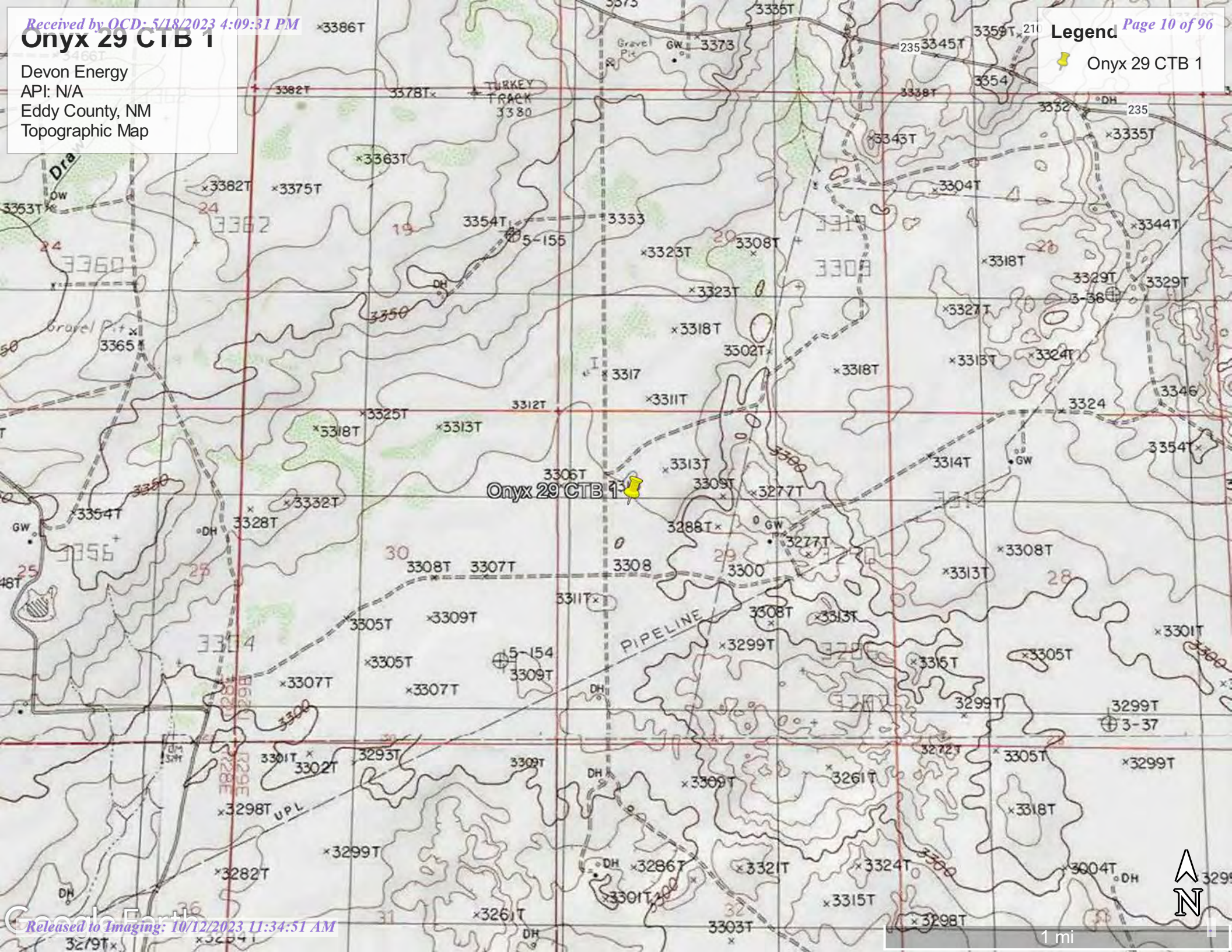
-  14 Miles NE of Carlsbad, NM
-  Onyx 29 CTB 1



Onyx 29 CTB 1

Devon Energy
API: N/A
Eddy County, NM
Topographic Map

Onyx 29 CTB 1

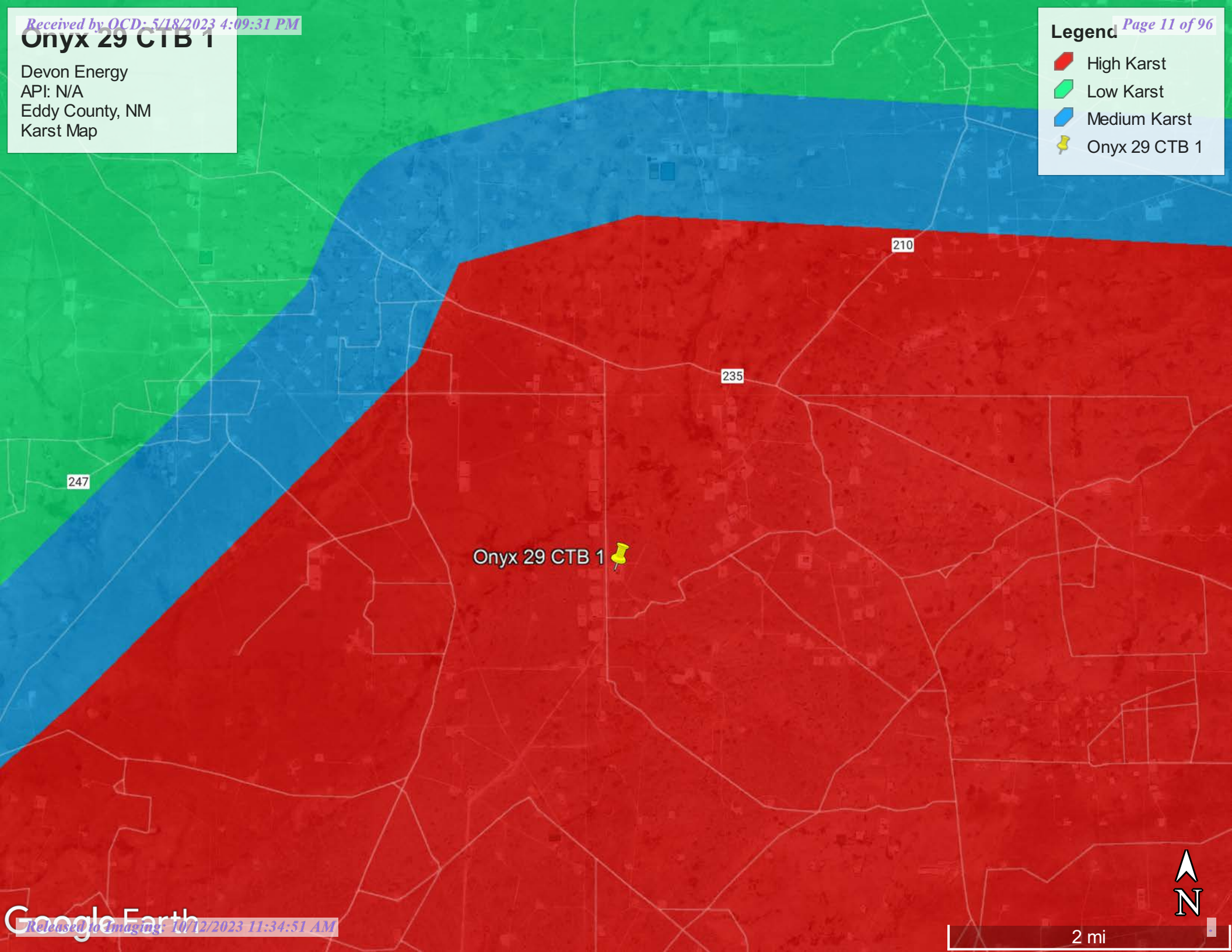


Onyx 29 CTB 1

Devon Energy
API: N/A
Eddy County, NM
Karst Map

Legend

-  High Karst
-  Low Karst
-  Medium Karst
-  Onyx 29 CTB 1



Onyx 29 CTB 1

Devon Energy
API# N/A
Eddy County, NM
Site Map

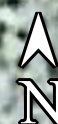
Legend

- Background/Sidewalls
- Onyx PWU 29 CTB 1
- Samples
- Spill Area Sqft 348

Onyx PWU 29 CTB 1

SW3
S3
S4
S2
S1
SW2
SW4
SW1

BG!



1000 ft

Google Earth

Onyx PWU 29 CTB 1

Devon Energy
API: N/A
Eddy, County, NM
Confirmation Sample Map

Legend

- Confirmation Samples
- Onyx PWU 29 CTB 1

Onyx PWU 29 CTB 1

CSW2 CSW3
CS3 CSW4
CSW9 CSW5
CSW8 CSW6



90 ft



Pima Environmental Services

Appendix A

Water Surveys:

OSE

USGS

Surface Water Map



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

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

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
CP 01231 POD1		CP	ED	4	4	2	36	19S	28E	582311	3609372	2622	300	75	225
CP 01090 POD1		CP	LE		1	2	31	20S	33E	586045	3608526	3205			
CP 00830 POD1		CP	LE		2	1	04	20S	29E	586118	3608193*	3523	120		
CP 00681		CP	ED	1	1	3	34	19S	29E	587230	3609127*	3630			
CP 00743 POD1		CP	ED		2	4	05	20S	29E	585319	3607382*	3937	160		
CP 00741		CP	ED	1	3	2	34	19S	29E	588030	3609533*	4139	230	60	170
CP 00698 POD1		CP	ED		3	1	03	20S	29E	587393	3608010	4470			
CP 00926 POD1		CP	LE	2	1	4	01	20S	28E	581793	3607405	4477	300		
CP 00646		CP	ED	1	1	4	07	19S	29E	583155	3615551	4515	199	150	49

Average Depth to Water: **95 feet**

Minimum Depth: **60 feet**

Maximum Depth: **150 feet**

Record Count: 9

UTMNAD83 Radius Search (in meters):

Easting (X): 584225.41

Northing (Y): 3611164.67

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.

3/14/23 4:27 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER



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

National Water Information System: Web Interface

USGS Water Resources

Data Category:


Groundwater

Geographic Area:

United States

GO

Click to hide News Bulletins

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

Groundwater levels for the Nation



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

Search Results -- 1 sites found

site_no list =

- 323900104052901

Minimum number of levels = 1

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

USGS 323900104052901 19S.29E.20.24111 RATLSNAKE

Available data for this site

Groundwater: Field measurements

GO

Eddy County, New Mexico

Hydrologic Unit Code 13060011

Latitude 32°39'00", Longitude 104°05'29" NAD27

Land-surface elevation 3,306 feet above NAVD88

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

This well is completed in the Rustler Formation (312RSLR) local aquifer.

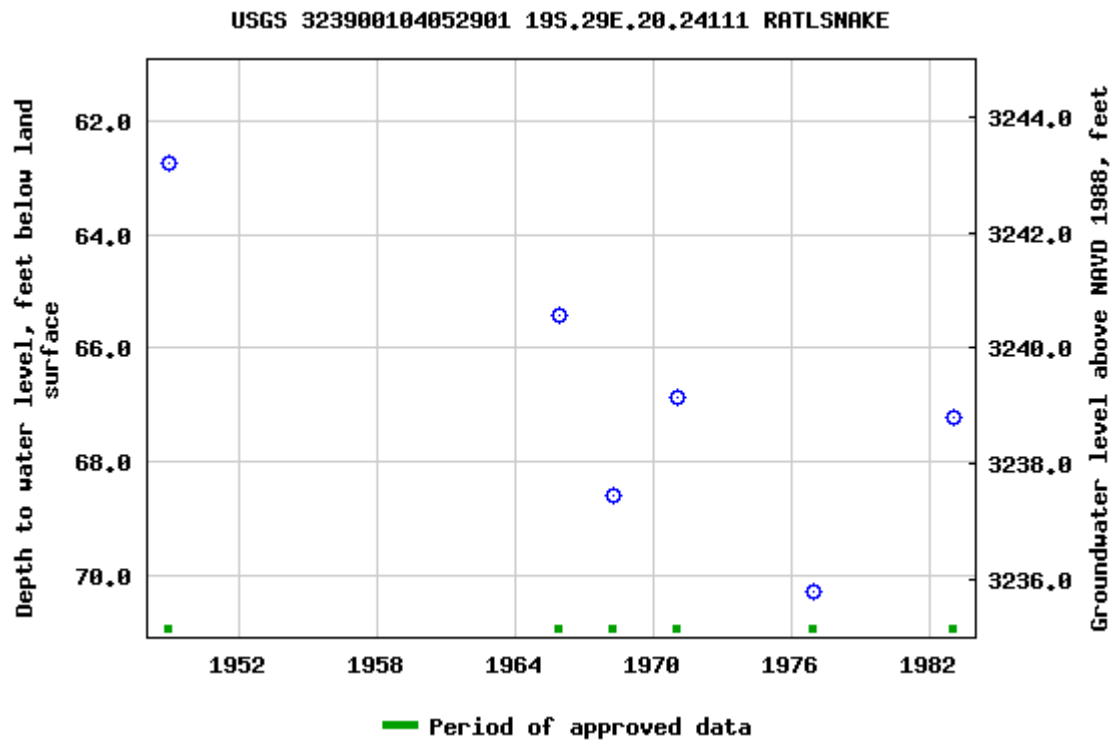
Output formats

[Table of data](#)

[Tab-separated data](#)

[Graph of data](#)

[Reselect period](#)



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

[Download a presentation-quality graph](#)

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

Title: Groundwater for USA: Water Levels

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

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

Page Last Modified: 2023-03-14 18:25:09 EDT


0.64 0.54 nadww02




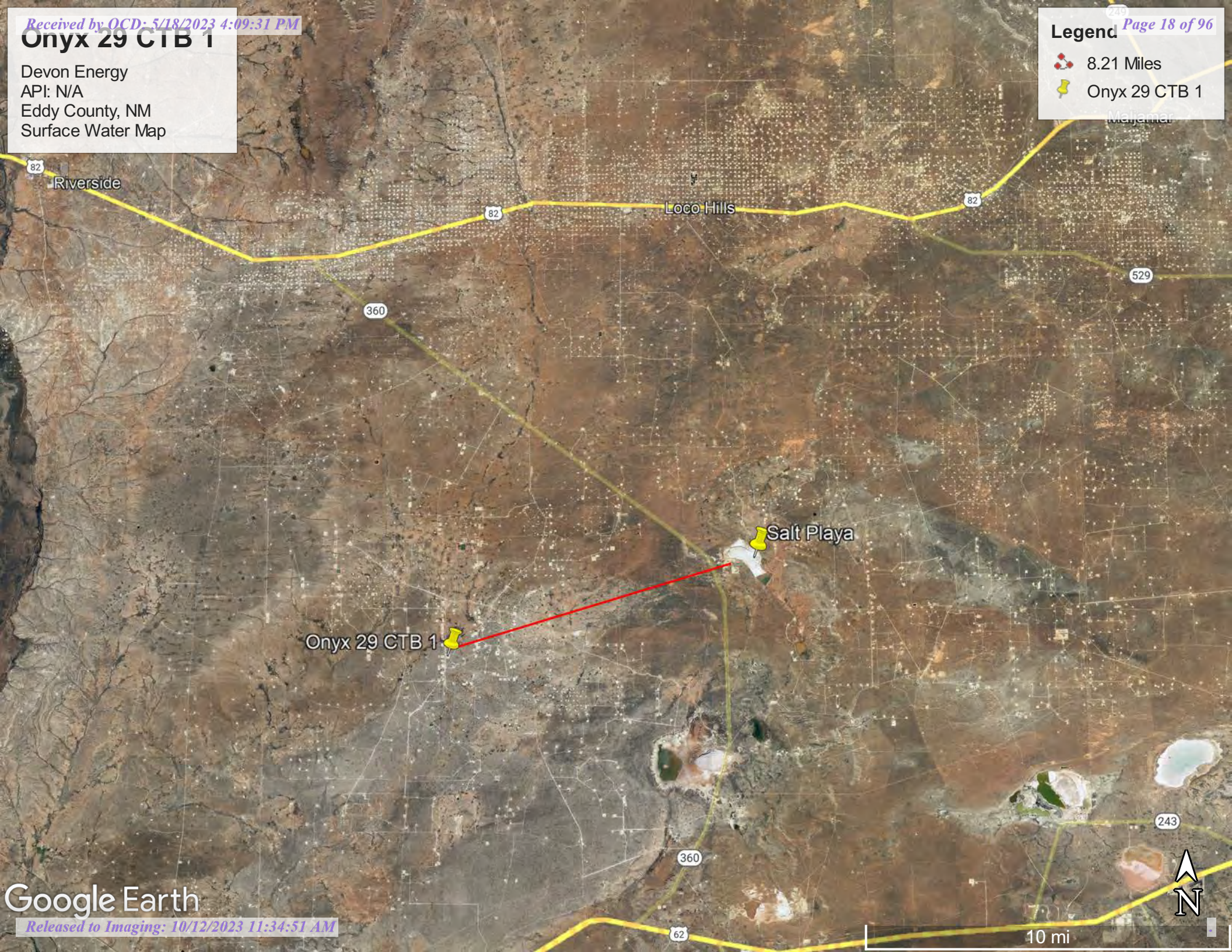
Onyx 29 CTB 1

Devon Energy
API: N/A
Eddy County, NM
Surface Water Map

Legend

 8.21 Miles

 Onyx 29 CTB 1





Pima Environmental Services

Appendix B

Soil Survey & Geological Data

FEMA Flood Map

Wetlands Map

Map Unit Description: Reeves-Gypsum land complex, 0 to 3 percent slopes---Eddy Area, New Mexico

Eddy Area, New Mexico

RG—Reeves-Gypsum land complex, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 1w5f

Elevation: 1,250 to 5,000 feet

Mean annual precipitation: 10 to 25 inches

Mean annual air temperature: 57 to 70 degrees F

Frost-free period: 190 to 235 days

Farmland classification: Not prime farmland

Map Unit Composition

Reeves and similar soils: 55 percent

Gypsum land: 30 percent

Minor components: 15 percent

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

Description of Reeves

Setting

Landform: Ridges, plains, hills

Landform position (two-dimensional): Shoulder, backslope, footslope, toeslope

Landform position (three-dimensional): Side slope, head slope, nose slope, crest

Down-slope shape: Convex

Across-slope shape: Linear

Parent material: Residuum weathered from gypsum

Typical profile

H1 - 0 to 8 inches: loam

H2 - 8 to 32 inches: clay loam

H3 - 32 to 60 inches: gypsiferous material

Properties and qualities

Slope: 0 to 1 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained

Runoff class: High

Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum content: 25 percent

Gypsum, maximum content: 80 percent

Maximum salinity: Very slightly saline to moderately saline (2.0 to 8.0 mmhos/cm)

Sodium adsorption ratio, maximum: 4.0

Available water supply, 0 to 60 inches: Low (about 4.3 inches)

Map Unit Description: Reeves-Gypsum land complex, 0 to 3 percent slopes---Eddy Area, New Mexico

Interpretive groups

Land capability classification (irrigated): 3s

Land capability classification (nonirrigated): 7s

Hydrologic Soil Group: B

Ecological site: R070BC007NM - Loamy

Hydric soil rating: No

Description of Gypsum Land**Setting**

Landform: Ridges, plains, hills

Landform position (two-dimensional): Shoulder, backslope, footslope, toeslope

Landform position (three-dimensional): Side slope, head slope, nose slope, crest

Down-slope shape: Convex

Across-slope shape: Linear

Parent material: Residuum weathered from gypsum

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 8s

Hydric soil rating: No

Minor Components**Largo**

Percent of map unit: 5 percent

Ecological site: R070BC007NM - Loamy

Hydric soil rating: No

Reagan

Percent of map unit: 5 percent

Ecological site: R070BC007NM - Loamy

Hydric soil rating: No

Cottonwood

Percent of map unit: 5 percent

Ecological site: R070BC033NM - Salty Bottomland

Hydric soil rating: No

Data Source Information

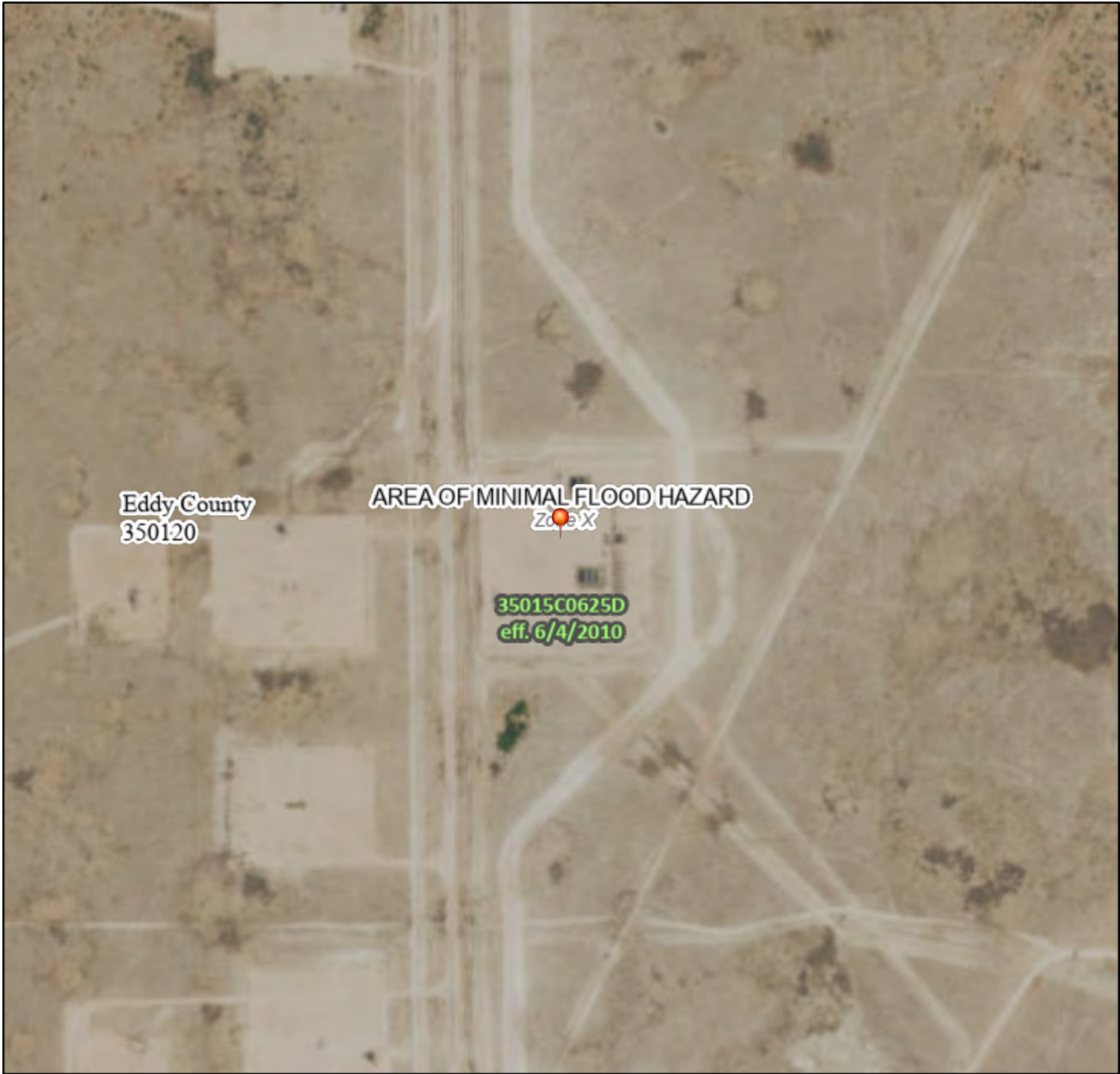
Soil Survey Area: Eddy Area, New Mexico

Survey Area Data: Version 18, Sep 8, 2022

National Flood Hazard Layer FIRMette



104°6'26"W 32°38'21"N



Legend

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

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

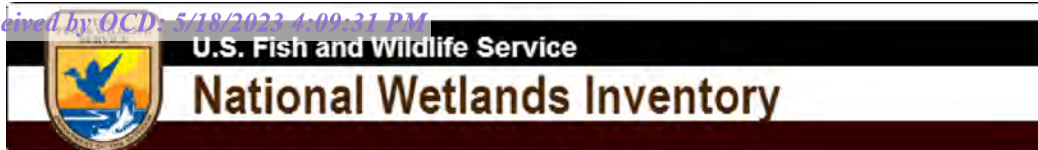


The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

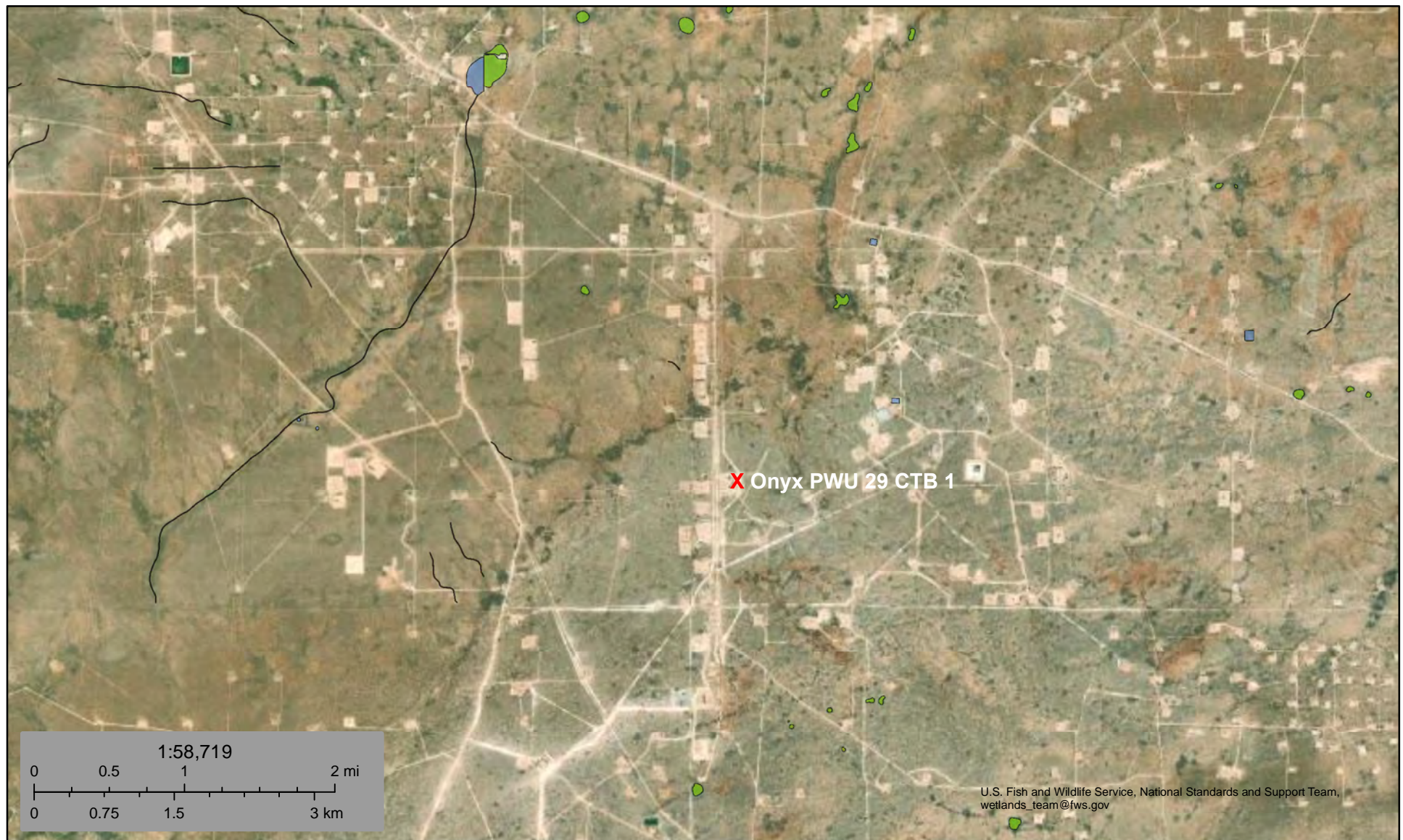
This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 3/14/2023 at 6:28 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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



Wetlands Map



March 14, 2023

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

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

- Lake
- Other
- Riverine

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



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	nAPP2303756344
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party Devon Energy Production Company	OGRID 6137
Contact Name Wesley Mathews	Contact Telephone
Contact email Wesley.Mathews@dvn.com	Incident # (assigned by OCD)
Contact mailing address 6488 Seven Rivers Hwy Artesia, NM 88210	

Location of Release Source

Latitude 32.634866 Longitude -104.102087
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Onyx 29 CTB 1	Site Type Oil
Date Release Discovered 2/5/2023	API# (if applicable)

Unit Letter	Section	Township	Range	County
E	29	19S	29E	Eddy

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) 13.6 BBLS	Volume Recovered (bbls) 12 BBLS
<input type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	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 Sight glass on 3 phase separator broke.

Incident ID	nAPP2303756344
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? 	

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 Ruiz</u>	Title: <u>EHS Associate</u>
Signature: <u>Kendra Ruiz</u>	Date: <u>2/21/2023</u>
email: <u>Kendra.Ruiz@dvn.com</u>	Telephone: <u>575-748-0167</u>
<u>OCD Only</u>	
Received by: <u>Jocelyn Harimon</u>	Date: <u>02/21/2023</u>

NAPP2303756344

Spill Volume(Bbls) Calculator	
<i>Inputs in blue, Outputs in red</i>	
Contaminated Soil measurement	
Area (square feet)	Depth(inches)
<u>443</u>	<u>0.500</u>
Cubic Feet of Soil Impacted	<u>18.458</u>
Barrels of Soil Impacted	<u>3.29</u>
Soil Type	Clay/Sand
Barrels of Oil Assuming 100% Saturation	<u>0.49</u>
Saturation	Fluid present with shovel/backhoe
Estimated Barrels of Oil Released	<u>0.49</u>
Free Standing Fluid Only	
Area (square feet)	Depth(inches)
<u>443</u>	<u>2.000</u>
Standing fluid	<u>13.161</u>
Total fluids spilled	<u>13.655</u>

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 188901

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 188901
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jharimon	None	2/22/2023

Incident ID	nAPP2303756344
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u><50</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input checked="" type="checkbox"/> Yes <input 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

Incident ID	nAPP2303756344
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: 5/18/2023

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

OCD Only

Received by: _____ Date: _____

Incident ID	nAPP2303756344
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: 5/18/2023

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: _____ Date: _____

Printed Name: _____ Title: _____



Gio PimaOil <gio@pimaoil.com>

Confirmation of Samples Onyx 29 CTB 1 NAPP2303756344

1 message

Gio PimaOil <gio@pimaoil.com>

Fri, Apr 14, 2023 at 10:01 AM

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

Good Morning,

Pima Environmental would like to notify you that we will begin collecting confirmation samples at the Onyx 29 CTB 1 for incident NAPP2303756344. Pima personnel are scheduled to be on site for this sampling event at approximately 10:00 a.m. on Sunday, April 16, 2023. If you have any questions or concerns, please let me know. Thank you.

--

Gio Gomez

Project Manager

cell-806-782-1151

Office- 575-964-7740

Pima Environmental Services, LLC.



Pima Environmental Services

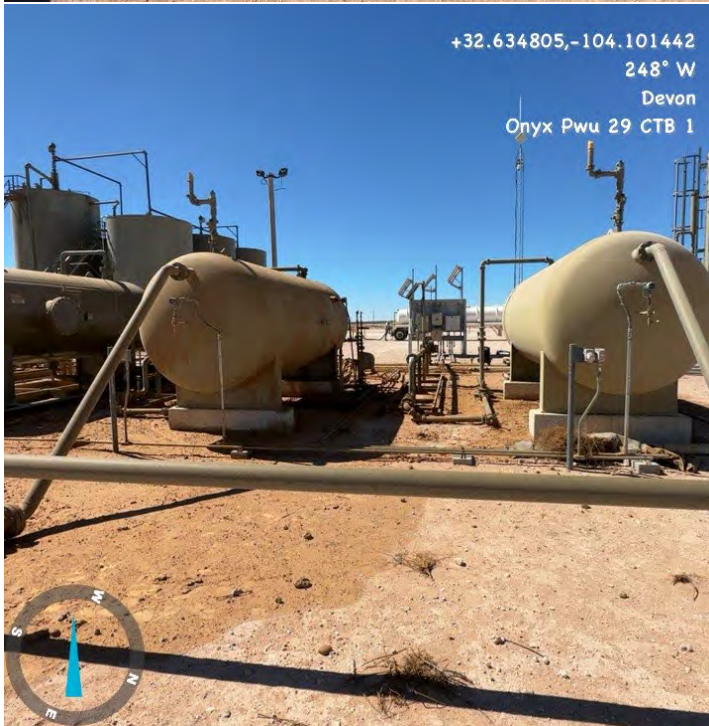
Appendix D

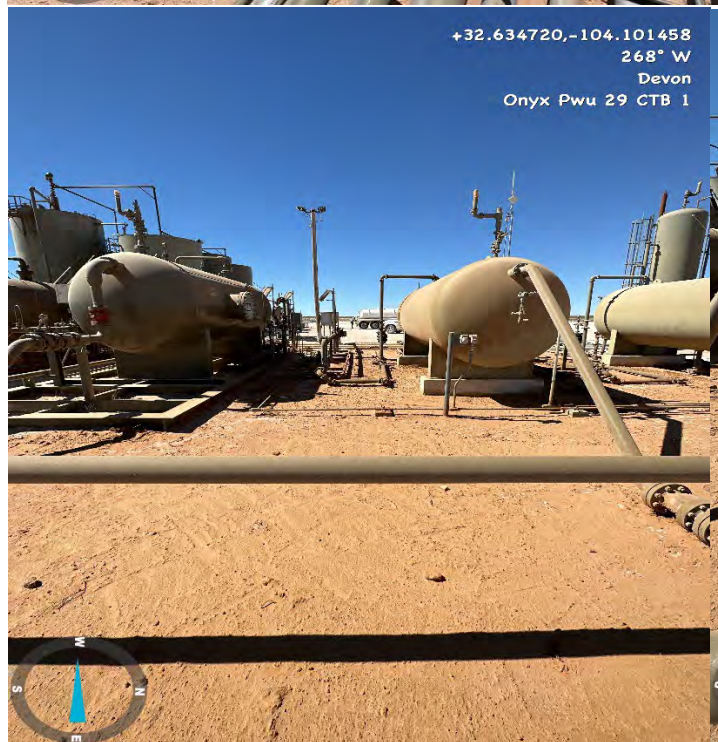
Photographic Documentation



**SITE PHOTOGRAPHS
DEVON ENERGY
ONYX PWU 29 CTB 1**

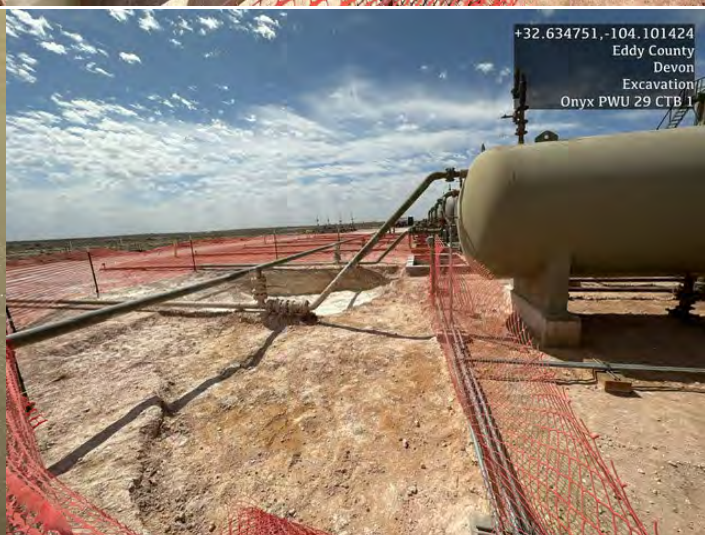
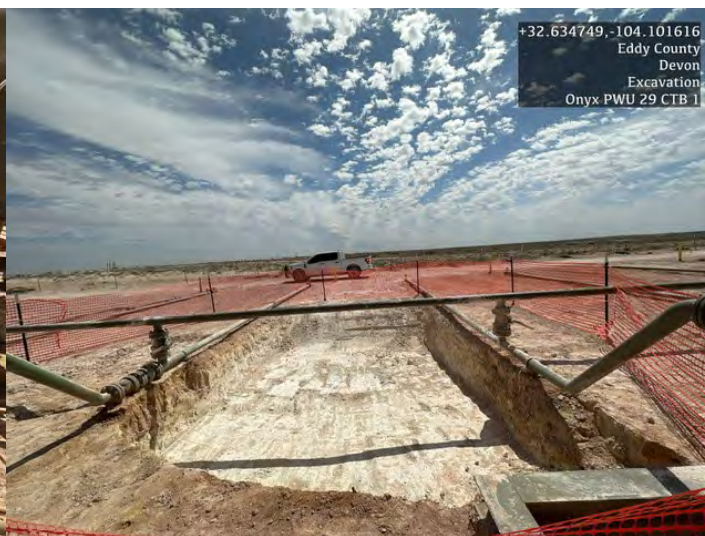
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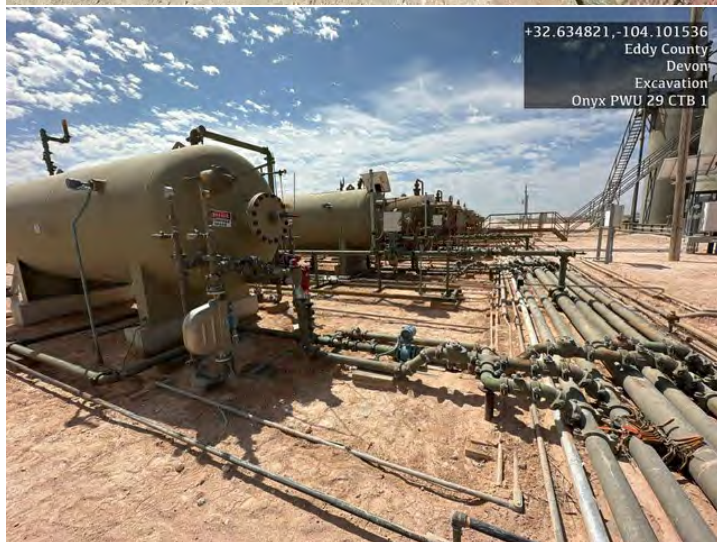
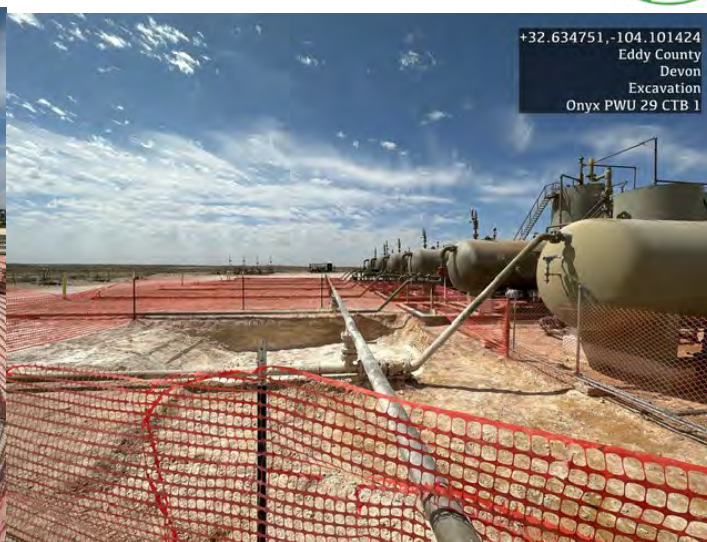
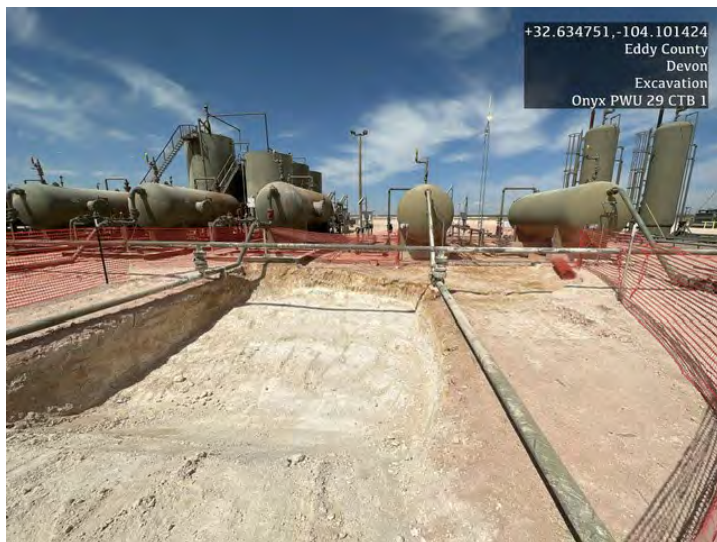






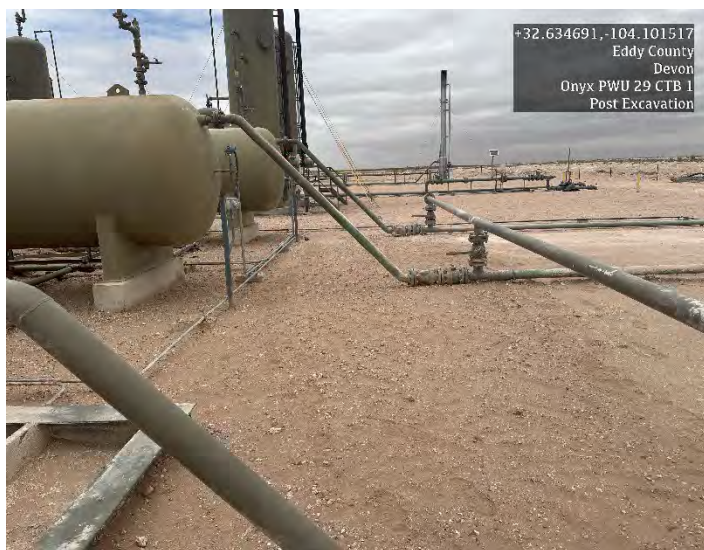
Excavation







Post Excavation



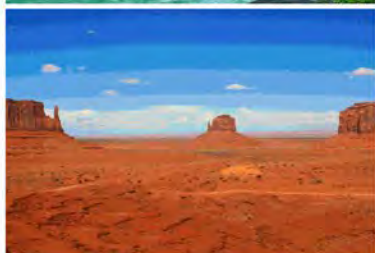


Pima Environmental Services

Appendix E

Laboratory Reports

Report to:
Tom Bynum



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Pima Environmental Services-Carlsbad

Project Name: Onyx PWU 29 CTB1

Work Order: E303029

Job Number: 01058-0007

Received: 3/9/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
3/14/23

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: 3/14/23

Tom Bynum
PO Box 247
Plains, TX 79355-0247



Project Name: Onyx PWU 29 CTB1
Workorder: E303029
Date Received: 3/9/2023 8:15:00AM

Tom Bynum,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 3/9/2023 8:15:00AM, under the Project Name: Onyx PWU 29 CTB1.

The analytical test results summarized in this report with the Project Name: Onyx PWU 29 CTB1 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

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

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

Field Offices:

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

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

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Pima Environmental Services-Carlsbad	Project Name:	Onyx PWU 29 CTB1	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	03/14/23 14:16

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
S1 - 1'	E303029-01A	Soil	03/03/23	03/09/23	Glass Jar, 2 oz.
S1 - 4'	E303029-02A	Soil	03/03/23	03/09/23	Glass Jar, 2 oz.
S1 - 3'	E303029-03A	Soil	03/03/23	03/09/23	Glass Jar, 2 oz.
S2 - 1'	E303029-04A	Soil	03/03/23	03/09/23	Glass Jar, 2 oz.
S2 - 4'	E303029-05A	Soil	03/03/23	03/09/23	Glass Jar, 2 oz.
S2 - 3'	E303029-06A	Soil	03/03/23	03/09/23	Glass Jar, 2 oz.
S3 - 1'	E303029-07A	Soil	03/03/23	03/09/23	Glass Jar, 2 oz.
S3 - 4'	E303029-08A	Soil	03/03/23	03/09/23	Glass Jar, 2 oz.
S3 - 3'	E303029-09A	Soil	03/03/23	03/09/23	Glass Jar, 2 oz.
S4 - 1'	E303029-10A	Soil	03/03/23	03/09/23	Glass Jar, 2 oz.
S4 - 4'	E303029-11A	Soil	03/03/23	03/09/23	Glass Jar, 2 oz.
S4 - 3'	E303029-12A	Soil	03/03/23	03/09/23	Glass Jar, 2 oz.
SW1	E303029-13A	Soil	03/03/23	03/09/23	Glass Jar, 2 oz.
SW2	E303029-14A	Soil	03/03/23	03/09/23	Glass Jar, 2 oz.
SW3	E303029-15A	Soil	03/03/23	03/09/23	Glass Jar, 2 oz.
SW4	E303029-16A	Soil	03/03/23	03/09/23	Glass Jar, 2 oz.
BG1	E303029-17A	Soil	03/03/23	03/09/23	Glass Jar, 2 oz.



Sample Data

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

Project Name: Onyx PWU 29 CTB1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
3/14/2023 2:16:59PM

S1 - 1'

E303029-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2310036	
Benzene	ND	0.0250	1	03/09/23	03/09/23	
Ethylbenzene	1.13	0.0250	1	03/09/23	03/09/23	
Toluene	0.253	0.0250	1	03/09/23	03/09/23	
o-Xylene	2.74	0.0250	1	03/09/23	03/09/23	
p,m-Xylene	5.87	0.0500	1	03/09/23	03/09/23	
Total Xylenes	8.61	0.0250	1	03/09/23	03/09/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	109 %	70-130		03/09/23	03/09/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2310036	
Gasoline Range Organics (C6-C10)	144	20.0	1	03/09/23	03/09/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	109 %	70-130		03/09/23	03/09/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2310042	
Diesel Range Organics (C10-C28)	18000	1250	50	03/09/23	03/13/23	
Oil Range Organics (C28-C36)	4490	2500	50	03/09/23	03/13/23	
<i>Surrogate: n-Nonane</i>						
	93.1 %	50-200		03/09/23	03/13/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2310045	
Chloride	359	200	10	03/09/23	03/10/23	



Sample Data

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

Project Name: Onyx PWU 29 CTB1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
3/14/2023 2:16:59PM

S1 - 4'

E303029-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2310036	
Benzene	ND	0.0250	1	03/09/23	03/09/23	
Ethylbenzene	0.115	0.0250	1	03/09/23	03/09/23	
Toluene	0.0411	0.0250	1	03/09/23	03/09/23	
o-Xylene	0.0546	0.0250	1	03/09/23	03/09/23	
p,m-Xylene	0.0742	0.0500	1	03/09/23	03/09/23	
Total Xylenes	0.129	0.0250	1	03/09/23	03/09/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	91.4 %	70-130		03/09/23	03/09/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2310036	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/09/23	03/09/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.0 %	70-130		03/09/23	03/09/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2310042	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/09/23	03/13/23	
Oil Range Organics (C28-C36)	ND	50.0	1	03/09/23	03/13/23	
<i>Surrogate: n-Nonane</i>						
	99.6 %	50-200		03/09/23	03/13/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2310045	
Chloride	ND	20.0	1	03/09/23	03/10/23	



Sample Data

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

Project Name: Onyx PWU 29 CTB1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
3/14/2023 2:16:59PM

S1 - 3'

E303029-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2310036
Benzene	ND	0.0250	1	03/09/23	03/10/23	
Ethylbenzene	ND	0.0250	1	03/09/23	03/10/23	
Toluene	ND	0.0250	1	03/09/23	03/10/23	
o-Xylene	ND	0.0250	1	03/09/23	03/10/23	
p,m-Xylene	ND	0.0500	1	03/09/23	03/10/23	
Total Xylenes	ND	0.0250	1	03/09/23	03/10/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.1 %	70-130		03/09/23	03/10/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2310036
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/09/23	03/10/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.0 %	70-130		03/09/23	03/10/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2310042
Diesel Range Organics (C10-C28)	98.0	25.0	1	03/09/23	03/10/23	
Oil Range Organics (C28-C36)	57.0	50.0	1	03/09/23	03/10/23	
<i>Surrogate: n-Nonane</i>						
	91.6 %	50-200		03/09/23	03/10/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2310045
Chloride	ND	200	10	03/09/23	03/10/23	



Sample Data

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

Project Name: Onyx PWU 29 CTB1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
3/14/2023 2:16:59PM

S2 - 1'

E303029-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2310036
Benzene	ND	0.0250	1	03/09/23	03/09/23	
Ethylbenzene	1.30	0.0250	1	03/09/23	03/09/23	
Toluene	0.476	0.0250	1	03/09/23	03/09/23	
o-Xylene	3.00	0.0250	1	03/09/23	03/09/23	
p,m-Xylene	6.72	0.0500	1	03/09/23	03/09/23	
Total Xylenes	9.71	0.0250	1	03/09/23	03/09/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		114 %	70-130	03/09/23	03/09/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2310036
Gasoline Range Organics (C6-C10)	167	20.0	1	03/09/23	03/09/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		110 %	70-130	03/09/23	03/09/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2310042
Diesel Range Organics (C10-C28)	18300	1250	50	03/09/23	03/13/23	
Oil Range Organics (C28-C36)	5670	2500	50	03/09/23	03/13/23	
<i>Surrogate: n-Nonane</i>						
		112 %	50-200	03/09/23	03/13/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2310045
Chloride	ND	200	10	03/09/23	03/10/23	



Sample Data

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

Project Name: Onyx PWU 29 CTB1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
3/14/2023 2:16:59PM

S2 - 4'

E303029-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2310036
Benzene	ND	0.0250	1	03/09/23	03/10/23	
Ethylbenzene	ND	0.0250	1	03/09/23	03/10/23	
Toluene	ND	0.0250	1	03/09/23	03/10/23	
o-Xylene	ND	0.0250	1	03/09/23	03/10/23	
p,m-Xylene	ND	0.0500	1	03/09/23	03/10/23	
Total Xylenes	ND	0.0250	1	03/09/23	03/10/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.6 %	70-130		03/09/23	03/10/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2310036
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/09/23	03/10/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.9 %	70-130		03/09/23	03/10/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2310042
Diesel Range Organics (C10-C28)	ND	25.0	1	03/09/23	03/13/23	
Oil Range Organics (C28-C36)	ND	50.0	1	03/09/23	03/13/23	
<i>Surrogate: n-Nonane</i>						
	94.2 %	50-200		03/09/23	03/13/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2310045
Chloride	ND	20.0	1	03/09/23	03/10/23	



Sample Data

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

Project Name: Onyx PWU 29 CTB1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
3/14/2023 2:16:59PM

S2 - 3'

E303029-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2310036
Benzene	ND	0.0250	1	03/09/23	03/10/23	
Ethylbenzene	ND	0.0250	1	03/09/23	03/10/23	
Toluene	ND	0.0250	1	03/09/23	03/10/23	
o-Xylene	ND	0.0250	1	03/09/23	03/10/23	
p,m-Xylene	ND	0.0500	1	03/09/23	03/10/23	
Total Xylenes	ND	0.0250	1	03/09/23	03/10/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.5 %	70-130		03/09/23	03/10/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2310036
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/09/23	03/10/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.0 %	70-130		03/09/23	03/10/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2310042
Diesel Range Organics (C10-C28)	536	25.0	1	03/09/23	03/10/23	
Oil Range Organics (C28-C36)	215	50.0	1	03/09/23	03/10/23	
<i>Surrogate: n-Nonane</i>						
	89.1 %	50-200		03/09/23	03/10/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2310045
Chloride	ND	200	10	03/09/23	03/10/23	



Sample Data

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

Project Name: Onyx PWU 29 CTB1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
3/14/2023 2:16:59PM

S3 - 1'

E303029-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2310036
Benzene	ND	0.0250	1	03/09/23	03/10/23	
Ethylbenzene	1.37	0.0250	1	03/09/23	03/10/23	
Toluene	0.416	0.0250	1	03/09/23	03/10/23	
o-Xylene	3.11	0.0250	1	03/09/23	03/10/23	
p,m-Xylene	7.05	0.0500	1	03/09/23	03/10/23	
Total Xylenes	10.2	0.0250	1	03/09/23	03/10/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		110 %	70-130	03/09/23	03/10/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2310036
Gasoline Range Organics (C6-C10)	178	20.0	1	03/09/23	03/10/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		115 %	70-130	03/09/23	03/10/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2310042
Diesel Range Organics (C10-C28)	16700	1250	50	03/09/23	03/13/23	
Oil Range Organics (C28-C36)	4980	2500	50	03/09/23	03/13/23	
<i>Surrogate: n-Nonane</i>						
		88.9 %	50-200	03/09/23	03/13/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2310045
Chloride	ND	200	10	03/09/23	03/10/23	



Sample Data

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

Project Name: Onyx PWU 29 CTB1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
3/14/2023 2:16:59PM

S3 - 4'

E303029-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2310036
Benzene	ND	0.0250	1	03/09/23	03/10/23	
Ethylbenzene	ND	0.0250	1	03/09/23	03/10/23	
Toluene	ND	0.0250	1	03/09/23	03/10/23	
o-Xylene	ND	0.0250	1	03/09/23	03/10/23	
p,m-Xylene	ND	0.0500	1	03/09/23	03/10/23	
Total Xylenes	ND	0.0250	1	03/09/23	03/10/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		105 %	70-130	03/09/23	03/10/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2310036
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/09/23	03/10/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		86.0 %	70-130	03/09/23	03/10/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2310042
Diesel Range Organics (C10-C28)	ND	25.0	1	03/09/23	03/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1	03/09/23	03/10/23	
<i>Surrogate: n-Nonane</i>						
		98.4 %	50-200	03/09/23	03/10/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2310045
Chloride	ND	20.0	1	03/09/23	03/10/23	



Sample Data

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

Project Name: Onyx PWU 29 CTB1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
3/14/2023 2:16:59PM

S3 - 3'

E303029-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2310036
Benzene	ND	0.0250	1	03/09/23	03/10/23	
Ethylbenzene	ND	0.0250	1	03/09/23	03/10/23	
Toluene	ND	0.0250	1	03/09/23	03/10/23	
o-Xylene	ND	0.0250	1	03/09/23	03/10/23	
p,m-Xylene	ND	0.0500	1	03/09/23	03/10/23	
Total Xylenes	ND	0.0250	1	03/09/23	03/10/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	89.0 %	70-130		03/09/23	03/10/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2310036
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/09/23	03/10/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.7 %	70-130		03/09/23	03/10/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2310042
Diesel Range Organics (C10-C28)	158	25.0	1	03/09/23	03/11/23	
Oil Range Organics (C28-C36)	100	50.0	1	03/09/23	03/11/23	
<i>Surrogate: n-Nonane</i>						
	95.0 %	50-200		03/09/23	03/11/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2310045
Chloride	ND	200	10	03/09/23	03/10/23	



Sample Data

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

Project Name: Onyx PWU 29 CTB1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
3/14/2023 2:16:59PM

S4 - 1'

E303029-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2310036
Benzene	ND	0.0250	1	03/09/23	03/10/23	
Ethylbenzene	ND	0.0250	1	03/09/23	03/10/23	
Toluene	ND	0.0250	1	03/09/23	03/10/23	
o-Xylene	0.0725	0.0250	1	03/09/23	03/10/23	
p,m-Xylene	0.149	0.0500	1	03/09/23	03/10/23	
Total Xylenes	0.222	0.0250	1	03/09/23	03/10/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.6 %	70-130		03/09/23	03/10/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2310036
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/09/23	03/10/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.3 %	70-130		03/09/23	03/10/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2310042
Diesel Range Organics (C10-C28)	2350	25.0	1	03/09/23	03/11/23	
Oil Range Organics (C28-C36)	785	50.0	1	03/09/23	03/11/23	
<i>Surrogate: n-Nonane</i>						
	99.4 %	50-200		03/09/23	03/11/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2310045
Chloride	ND	200	10	03/09/23	03/10/23	



Sample Data

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

Project Name: Onyx PWU 29 CTB1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
3/14/2023 2:16:59PM

S4 - 4'

E303029-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2310036
Benzene	ND	0.0250	1	03/09/23	03/10/23	
Ethylbenzene	ND	0.0250	1	03/09/23	03/10/23	
Toluene	ND	0.0250	1	03/09/23	03/10/23	
o-Xylene	ND	0.0250	1	03/09/23	03/10/23	
p,m-Xylene	ND	0.0500	1	03/09/23	03/10/23	
Total Xylenes	ND	0.0250	1	03/09/23	03/10/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.3 %	70-130		03/09/23	03/10/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2310036
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/09/23	03/10/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.6 %	70-130		03/09/23	03/10/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2310042
Diesel Range Organics (C10-C28)	ND	25.0	1	03/09/23	03/11/23	
Oil Range Organics (C28-C36)	ND	50.0	1	03/09/23	03/11/23	
<i>Surrogate: n-Nonane</i>						
	99.3 %	50-200		03/09/23	03/11/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2310045
Chloride	ND	40.0	2	03/09/23	03/10/23	



Sample Data

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

Project Name: Onyx PWU 29 CTB1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
3/14/2023 2:16:59PM

S4 - 3'

E303029-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2310036
Benzene	ND	0.0250	1	03/09/23	03/10/23	
Ethylbenzene	ND	0.0250	1	03/09/23	03/10/23	
Toluene	ND	0.0250	1	03/09/23	03/10/23	
o-Xylene	ND	0.0250	1	03/09/23	03/10/23	
p,m-Xylene	ND	0.0500	1	03/09/23	03/10/23	
Total Xylenes	ND	0.0250	1	03/09/23	03/10/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.6 %	70-130		03/09/23	03/10/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2310036
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/09/23	03/10/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.0 %	70-130		03/09/23	03/10/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2310042
Diesel Range Organics (C10-C28)	542	25.0	1	03/09/23	03/11/23	
Oil Range Organics (C28-C36)	259	50.0	1	03/09/23	03/11/23	
<i>Surrogate: n-Nonane</i>						
	98.8 %	50-200		03/09/23	03/11/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2310045
Chloride	ND	200	10	03/09/23	03/10/23	



Sample Data

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

Project Name: Onyx PWU 29 CTB1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
3/14/2023 2:16:59PM

SW1

E303029-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2310036
Benzene	ND	0.0250	1	03/09/23	03/10/23	
Ethylbenzene	ND	0.0250	1	03/09/23	03/10/23	
Toluene	ND	0.0250	1	03/09/23	03/10/23	
o-Xylene	ND	0.0250	1	03/09/23	03/10/23	
p,m-Xylene	ND	0.0500	1	03/09/23	03/10/23	
Total Xylenes	ND	0.0250	1	03/09/23	03/10/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.1 %	70-130		03/09/23	03/10/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2310036
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/09/23	03/10/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	89.7 %	70-130		03/09/23	03/10/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2310042
Diesel Range Organics (C10-C28)	ND	25.0	1	03/09/23	03/11/23	
Oil Range Organics (C28-C36)	ND	50.0	1	03/09/23	03/11/23	
<i>Surrogate: n-Nonane</i>						
	87.6 %	50-200		03/09/23	03/11/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2310045
Chloride	ND	20.0	1	03/09/23	03/10/23	



Sample Data

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

Project Name: Onyx PWU 29 CTB1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
3/14/2023 2:16:59PM

SW2

E303029-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2310036
Benzene	ND	0.0250	1	03/09/23	03/10/23	
Ethylbenzene	ND	0.0250	1	03/09/23	03/10/23	
Toluene	ND	0.0250	1	03/09/23	03/10/23	
o-Xylene	ND	0.0250	1	03/09/23	03/10/23	
p,m-Xylene	ND	0.0500	1	03/09/23	03/10/23	
Total Xylenes	ND	0.0250	1	03/09/23	03/10/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.2 %	70-130		03/09/23	03/10/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2310036
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/09/23	03/10/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.0 %	70-130		03/09/23	03/10/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2310042
Diesel Range Organics (C10-C28)	ND	25.0	1	03/09/23	03/11/23	
Oil Range Organics (C28-C36)	ND	50.0	1	03/09/23	03/11/23	
<i>Surrogate: n-Nonane</i>						
	91.8 %	50-200		03/09/23	03/11/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2310045
Chloride	ND	20.0	1	03/09/23	03/10/23	



Sample Data

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

Project Name: Onyx PWU 29 CTB1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
3/14/2023 2:16:59PM

SW3

E303029-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2310036
Benzene	ND	0.0250	1	03/09/23	03/10/23	
Ethylbenzene	ND	0.0250	1	03/09/23	03/10/23	
Toluene	ND	0.0250	1	03/09/23	03/10/23	
o-Xylene	ND	0.0250	1	03/09/23	03/10/23	
p,m-Xylene	ND	0.0500	1	03/09/23	03/10/23	
Total Xylenes	ND	0.0250	1	03/09/23	03/10/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.2 %	70-130		03/09/23	03/10/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2310036
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/09/23	03/10/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.2 %	70-130		03/09/23	03/10/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2310042
Diesel Range Organics (C10-C28)	ND	25.0	1	03/09/23	03/11/23	
Oil Range Organics (C28-C36)	ND	50.0	1	03/09/23	03/11/23	
<i>Surrogate: n-Nonane</i>						
	91.2 %	50-200		03/09/23	03/11/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2310045
Chloride	ND	20.0	1	03/09/23	03/10/23	



Sample Data

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

Project Name: Onyx PWU 29 CTB1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
3/14/2023 2:16:59PM

SW4

E303029-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2310036
Benzene	ND	0.0250	1	03/09/23	03/10/23	
Ethylbenzene	ND	0.0250	1	03/09/23	03/10/23	
Toluene	ND	0.0250	1	03/09/23	03/10/23	
o-Xylene	ND	0.0250	1	03/09/23	03/10/23	
p,m-Xylene	ND	0.0500	1	03/09/23	03/10/23	
Total Xylenes	ND	0.0250	1	03/09/23	03/10/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.1 %	70-130		03/09/23	03/10/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2310036
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/09/23	03/10/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.9 %	70-130		03/09/23	03/10/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2310042
Diesel Range Organics (C10-C28)	ND	25.0	1	03/09/23	03/11/23	
Oil Range Organics (C28-C36)	ND	50.0	1	03/09/23	03/11/23	
<i>Surrogate: n-Nonane</i>						
	90.6 %	50-200		03/09/23	03/11/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2310045
Chloride	ND	20.0	1	03/09/23	03/10/23	



Sample Data

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

Project Name: Onyx PWU 29 CTB1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
3/14/2023 2:16:59PM

BG1

E303029-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2310036
Benzene	ND	0.0250	1	03/09/23	03/10/23	
Ethylbenzene	ND	0.0250	1	03/09/23	03/10/23	
Toluene	ND	0.0250	1	03/09/23	03/10/23	
o-Xylene	ND	0.0250	1	03/09/23	03/10/23	
p,m-Xylene	ND	0.0500	1	03/09/23	03/10/23	
Total Xylenes	ND	0.0250	1	03/09/23	03/10/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.5 %	70-130		03/09/23	03/10/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2310036
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/09/23	03/10/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.2 %	70-130		03/09/23	03/10/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2310042
Diesel Range Organics (C10-C28)	ND	25.0	1	03/09/23	03/11/23	
Oil Range Organics (C28-C36)	ND	50.0	1	03/09/23	03/11/23	
<i>Surrogate: n-Nonane</i>						
	90.5 %	50-200		03/09/23	03/11/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2310045
Chloride	ND	20.0	1	03/09/23	03/10/23	



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Onyx PWU 29 CTB1	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	3/14/2023 2:16:59PM

Volatile Organics by EPA 8021B

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2310036-BLK1)

Prepared: 03/09/23 Analyzed: 03/09/23

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	8.06		8.00		101	70-130			

LCS (2310036-BS1)

Prepared: 03/09/23 Analyzed: 03/09/23

Benzene	4.68	0.0250	5.00		93.6	70-130			
Ethylbenzene	4.74	0.0250	5.00		94.8	70-130			
Toluene	4.86	0.0250	5.00		97.3	70-130			
o-Xylene	4.87	0.0250	5.00		97.5	70-130			
p,m-Xylene	9.63	0.0500	10.0		96.3	70-130			
Total Xylenes	14.5	0.0250	15.0		96.7	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.99		8.00		99.8	70-130			

Matrix Spike (2310036-MS1)

Source: E303029-04

Prepared: 03/09/23 Analyzed: 03/09/23

Benzene	4.43	0.0250	5.00	ND	88.6	54-133			
Ethylbenzene	5.88	0.0250	5.00	1.30	91.7	61-133			
Toluene	5.66	0.0250	5.00	0.476	104	61-130			
o-Xylene	7.92	0.0250	5.00	3.00	98.5	63-131			
p,m-Xylene	16.1	0.0500	10.0	6.72	94.2	63-131			
Total Xylenes	24.1	0.0250	15.0	9.71	95.7	63-131			
Surrogate: 4-Bromochlorobenzene-PID	9.18		8.00		115	70-130			

Matrix Spike Dup (2310036-MSD1)

Source: E303029-04

Prepared: 03/09/23 Analyzed: 03/09/23

Benzene	4.15	0.0250	5.00	ND	83.0	54-133	6.52	20	
Ethylbenzene	5.64	0.0250	5.00	1.30	86.9	61-133	4.23	20	
Toluene	5.38	0.0250	5.00	0.476	98.1	61-130	5.04	20	
o-Xylene	7.58	0.0250	5.00	3.00	91.7	63-131	4.42	20	
p,m-Xylene	15.4	0.0500	10.0	6.72	86.9	63-131	4.68	20	
Total Xylenes	23.0	0.0250	15.0	9.71	88.5	63-131	4.59	20	
Surrogate: 4-Bromochlorobenzene-PID	8.81		8.00		110	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Onyx PWU 29 CTB1	Reported: 3/14/2023 2:16:59PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2310036-BLK1) Prepared: 03/09/23 Analyzed: 03/09/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.15		8.00		89.4	70-130			

LCS (2310036-BS2) Prepared: 03/09/23 Analyzed: 03/09/23

Gasoline Range Organics (C6-C10)	44.8	20.0	50.0		89.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.24		8.00		90.5	70-130			

Matrix Spike (2310036-MS2) Source: E303029-04 Prepared: 03/09/23 Analyzed: 03/09/23

Gasoline Range Organics (C6-C10)	240	20.0	50.0	167	147	70-130			M1
Surrogate: 1-Chloro-4-fluorobenzene-FID	9.01		8.00		113	70-130			

Matrix Spike Dup (2310036-MSD2) Source: E303029-04 Prepared: 03/09/23 Analyzed: 03/09/23

Gasoline Range Organics (C6-C10)	239	20.0	50.0	167	145	70-130	0.493	20	M1
Surrogate: 1-Chloro-4-fluorobenzene-FID	9.36		8.00		117	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Onyx PWU 29 CTB1	Reported: 3/14/2023 2:16:59PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2310042-BLK1)					Prepared: 03/09/23 Analyzed: 03/10/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	49.2		50.0		98.4	50-200			

LCS (2310042-BS1)					Prepared: 03/09/23 Analyzed: 03/10/23				
Diesel Range Organics (C10-C28)	219	25.0	250		87.6	38-132			
Surrogate: n-Nonane	44.7		50.0		89.4	50-200			

Matrix Spike (2310042-MS1)					Source: E303029-05		Prepared: 03/09/23 Analyzed: 03/10/23		
Diesel Range Organics (C10-C28)	208	25.0	250	ND	83.3	38-132			
Surrogate: n-Nonane	46.0		50.0		92.0	50-200			

Matrix Spike Dup (2310042-MSD1)					Source: E303029-05		Prepared: 03/09/23 Analyzed: 03/10/23		
Diesel Range Organics (C10-C28)	202	25.0	250	ND	81.0	38-132	2.77	20	
Surrogate: n-Nonane	45.6		50.0		91.3	50-200			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Onyx PWU 29 CTB1	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	3/14/2023 2:16:59PM

Anions by EPA 300.0/9056A

Analyst: BA

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

Blank (2310045-BLK1)					Prepared: 03/09/23 Analyzed: 03/10/23				
Chloride	ND	20.0							
LCS (2310045-BS1)					Prepared: 03/09/23 Analyzed: 03/10/23				
Chloride	249	20.0	250		99.4	90-110			
Matrix Spike (2310045-MS1)					Source: E303029-01		Prepared: 03/09/23 Analyzed: 03/10/23		
Chloride	614	200	250	359	102	80-120			
Matrix Spike Dup (2310045-MSD1)					Source: E303029-01		Prepared: 03/09/23 Analyzed: 03/10/23		
Chloride	627	200	250	359	107	80-120	2.16	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:	Onyx PWU 29 CTB1	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	03/14/23 14:16

- M1 Matrix spike recovery was above acceptance limits. The associated LCS spike recovery was acceptable.
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite

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

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



Project Information

Chain of Custody

Page 1 of 2

Client: Pima Environmental Services
 Project: Onyx PWU 29 CTR
 Project Manager: Tom Bynum
 Address: 5614 N. Lovington Hwy.
 City, State, Zip: Hobbs, NM, 88240
 Phone: 580-748-1613
 Email: tom@pimaoil.com
 Report due by:

Bill To
 Attention: Devon
 Address:
 City, State, Zip
 Phone:
 Email:
 Pima Project # 1-210

Lab Use Only		TAT				EPA Program	
Lab WO#	Job Number	1D	2D	3D	Standard	CWA	SDWA
<u>E303029</u>	<u>01058-0007</u>				<u>X</u>		
Analysis and Method							
DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX
						<u>X</u>	
State							
NM	CO	UT	AZ	TX			
<u>X</u>							
Remarks							

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number
9:25	3/3/23	S	1	S1-1'	1
9:30				S1-2'	2
9:35				S1-3'	3
9:40				S2-1'	4
9:45				S2-2'	5
9:50				S2-3'	6
9:55				S3-1'	7
10:00				S3-2'	8
10:05				S3-3'	9
10:10				S4-1'	10

Additional Instructions:

Billing #: 2124985

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:

Audhara Benavides

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>MB</u>	Date 3-7-23	Time 7:00	Received by: (Signature) <u>Michelle Gump</u>	Date 3-7-23	Time 1400
Relinquished by: (Signature) <u>Michelle Gump</u>	Date 3-7-23	Time 1745	Received by: (Signature) <u>Lawrence Lin</u>	Date 3-8-23	Time 1800
Relinquished by: (Signature) <u>Lawrence Lin</u>	Date 3-8-23	Time 2345	Received by: (Signature) <u>Carla Vate</u>	Date 3/9/23	Time 8:15

Lab Use Only

Received on ice: Y/N

T1 T2 T3

AVG Temp °C 4

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

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

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

envirotech

Project Information

Chain of Custody

Page 2 of 2

Client: Pima Environmental Services		Bill To		Lab Use Only		TAT		EPA Program					
Project: <u>Onyx PWU 29 CTB1</u>		Attention: <u>Devon</u>		Lab WO# <u>F303029</u>		Job Number <u>01058-0051</u>		1D	2D	3D	Standard	CWA	SDWA
Project Manager: Tom Bynum		Address:		Analysis and Method									
Address: <u>5614 N. Lovington Hwy.</u>		City, State, Zip		DRO/ORO by 8015		GRO/DRO by 8015		BTEX by 8021		VOC by 8260		Metals 6010	
City, State, Zip: <u>Hobbs, NM, 88240</u>		Phone:		Chloride 300.0									
Phone: <u>580-748-1613</u>		Email:											
Email: <u>tom@pimaoil.com</u>		Pima Project #											
Report due by:													

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	Remarks
10:15	3/3/23	S	1	S4-2'	11							X		
10:20				S4-3'	12									
10:25				SW1	13									
10:30				SW2	14									
10:35				SW3	15									
10:40				SW4	16									
10:45				BG1	17									

Additional Instructions:

Billing Number: 21124985

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 Berandiz

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>3-7-23</u>	Time <u>2:00</u>	Received by: (Signature) <u>Michelle Gumpels</u>	Date <u>3-7-23</u>	Time <u>1400</u>	Lab Use Only Received on ice: <u>Y/N</u> T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
Relinquished by: (Signature) <u>Michelle Gumpels</u>	Date <u>3-7-23</u>	Time <u>1745</u>	Received by: (Signature) <u>Lucy Lee</u>	Date <u>3-8-23</u>	Time <u>1800</u>	
Relinquished by: (Signature) <u>Lucy Lee</u>	Date <u>3-8-23</u>	Time <u>2345</u>	Received by: (Signature) <u>Cathy Lee</u>	Date <u>3/9/23</u>	Time <u>8:15</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

Envirotech Analytical Laboratory

Printed: 3/9/2023 10:33:57AM

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:	03/09/23 08:15	Work Order ID:	E303029
Phone:	(575) 631-6977	Date Logged In:	03/09/23 09:03	Logged In By:	Caitlin Christian
Email:	tom@pimaoil.com	Due Date:	03/14/23 07:00 (3 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Project Information

Chain of Custody

Page 1 of 2

Client: Pima Environmental Services

Project: ONUX PW4 29 CTB1

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: Bill To
Devon

Address:

City, State, Zip

Phone:

Email:

Pima Project # 1-210

Lab Use Only

Lab WO#

E303029

Job Number

01058-0007

TAT

1D

2D

3D

Standard

EPA Program

CWA

SDWA

RCRA

Analysis and Method

DRO/ORO by 8015

GRO/DRO by 8015

BTEX by 8021

VOC by 8260

Metals 6010

Chloride 300.0

BGDOC NM

BGDOC TX

State

NM

CO

UT

AZ

TX

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
9:25	3/3/23	S	1	S1-1'	1							X		
9:30				S1-2' S1-4'	2									3/9/23
9:35				S1-3'	3									
9:40				S2-1'	4									
9:45				S2-2' S2-4'	5									3/9/23
9:50				S2-3'	6									
9:55				S3-1'	7									
10:00				S3-2' S3-4'	8									3/9/23
10:05				S3-3'	9									
10:10				S4-1'	10									

Additional Instructions:

Billing #: 2124985

Sample name changes per T. Bynum 3/9/23

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:

Audhara Benavides

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

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only
<u>AB</u>	3-7-23	1:00	<u>Michelle Guevara</u>	3-7-23	1:40	Received on ice: <u>Y</u> / N
<u>Michelle Guevara</u>	3-7-23	1745	<u>Lorenzo Lin</u>	3-8-23	1800	T1: T2: T3:
<u>Lorenzo Lin</u>	3-8-23	2345	<u>Cadell Vate</u>	3/9/23	8:15	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



Report to:
Tom Bynum



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Pima Environmental Services-Carlsbad

Project Name: Onyx PWU 29 CTB1

Work Order: E304089

Job Number: 01058-0007

Received: 4/19/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
4/20/23

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: 4/20/23

Tom Bynum
PO Box 247
Plains, TX 79355-0247



Project Name: Onyx PWU 29 CTB1
Workorder: E304089
Date Received: 4/19/2023 7:00:00AM

Tom Bynum,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 4/19/2023 7:00:00AM, under the Project Name: Onyx PWU 29 CTB1.

The analytical test results summarized in this report with the Project Name: Onyx PWU 29 CTB1 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

Raina Schwanz
Laboratory Administrator
Office: 505-632-1881
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Rayny Hagan
Technical Representative
Office: 505-421-LABS(5227)

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Pima Environmental Services-Carlsbad	Project Name:	Onyx PWU 29 CTB1	Reported: 04/20/23 14:34
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
CS1	E304089-01A	Soil	04/16/23	04/19/23	Glass Jar, 2 oz.
CS2	E304089-02A	Soil	04/16/23	04/19/23	Glass Jar, 2 oz.
CS3	E304089-03A	Soil	04/16/23	04/19/23	Glass Jar, 2 oz.
CSW1	E304089-04A	Soil	04/16/23	04/19/23	Glass Jar, 2 oz.
CSW2	E304089-05A	Soil	04/16/23	04/19/23	Glass Jar, 2 oz.
CSW3	E304089-06A	Soil	04/16/23	04/19/23	Glass Jar, 2 oz.
CSW4	E304089-07A	Soil	04/16/23	04/19/23	Glass Jar, 2 oz.
CSW5	E304089-08A	Soil	04/16/23	04/19/23	Glass Jar, 2 oz.
CSW6	E304089-09A	Soil	04/16/23	04/19/23	Glass Jar, 2 oz.
CSW7	E304089-10A	Soil	04/16/23	04/19/23	Glass Jar, 2 oz.
CSW8	E304089-11A	Soil	04/16/23	04/19/23	Glass Jar, 2 oz.
CSW9	E304089-12A	Soil	04/16/23	04/19/23	Glass Jar, 2 oz.



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Onyx PWU 29 CTB1 Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 4/20/2023 2:34:04PM
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CS1

E304089-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2316030
Benzene	ND	0.0250	1	04/19/23	04/19/23	
Ethylbenzene	ND	0.0250	1	04/19/23	04/19/23	
Toluene	ND	0.0250	1	04/19/23	04/19/23	
o-Xylene	ND	0.0250	1	04/19/23	04/19/23	
p,m-Xylene	ND	0.0500	1	04/19/23	04/19/23	
Total Xylenes	ND	0.0250	1	04/19/23	04/19/23	
<i>Surrogate: Bromofluorobenzene</i>	98.3 %	70-130		04/19/23	04/19/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	105 %	70-130		04/19/23	04/19/23	
<i>Surrogate: Toluene-d8</i>	103 %	70-130		04/19/23	04/19/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2316030
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/19/23	04/19/23	
<i>Surrogate: Bromofluorobenzene</i>	98.3 %	70-130		04/19/23	04/19/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	105 %	70-130		04/19/23	04/19/23	
<i>Surrogate: Toluene-d8</i>	103 %	70-130		04/19/23	04/19/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2316026
Diesel Range Organics (C10-C28)	ND	25.0	1	04/19/23	04/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/19/23	04/19/23	
<i>Surrogate: n-Nonane</i>	84.3 %	50-200		04/19/23	04/19/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2316027
Chloride	ND	20.0	1	04/19/23	04/19/23	



Sample Data

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

Project Name: Onyx PWU 29 CTB1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
4/20/2023 2:34:04PM

CS2

E304089-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2316030
Benzene	ND	0.0250	1	04/19/23	04/19/23	
Ethylbenzene	ND	0.0250	1	04/19/23	04/19/23	
Toluene	ND	0.0250	1	04/19/23	04/19/23	
o-Xylene	ND	0.0250	1	04/19/23	04/19/23	
p,m-Xylene	ND	0.0500	1	04/19/23	04/19/23	
Total Xylenes	ND	0.0250	1	04/19/23	04/19/23	
Surrogate: Bromofluorobenzene	97.6 %	70-130		04/19/23	04/19/23	
Surrogate: 1,2-Dichloroethane-d4	111 %	70-130		04/19/23	04/19/23	
Surrogate: Toluene-d8	104 %	70-130		04/19/23	04/19/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2316030
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/19/23	04/19/23	
Surrogate: Bromofluorobenzene	97.6 %	70-130		04/19/23	04/19/23	
Surrogate: 1,2-Dichloroethane-d4	111 %	70-130		04/19/23	04/19/23	
Surrogate: Toluene-d8	104 %	70-130		04/19/23	04/19/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2316026
Diesel Range Organics (C10-C28)	ND	25.0	1	04/19/23	04/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/19/23	04/19/23	
Surrogate: n-Nonane	85.2 %	50-200		04/19/23	04/19/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2316027
Chloride	ND	20.0	1	04/19/23	04/19/23	



Sample Data

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

Project Name: Onyx PWU 29 CTB1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
4/20/2023 2:34:04PM

CS3

E304089-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2316030
Benzene	ND	0.0250	1	04/19/23	04/19/23	
Ethylbenzene	ND	0.0250	1	04/19/23	04/19/23	
Toluene	ND	0.0250	1	04/19/23	04/19/23	
o-Xylene	ND	0.0250	1	04/19/23	04/19/23	
p,m-Xylene	ND	0.0500	1	04/19/23	04/19/23	
Total Xylenes	ND	0.0250	1	04/19/23	04/19/23	
Surrogate: Bromofluorobenzene		101 %	70-130	04/19/23	04/19/23	
Surrogate: 1,2-Dichloroethane-d4		113 %	70-130	04/19/23	04/19/23	
Surrogate: Toluene-d8		104 %	70-130	04/19/23	04/19/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2316030
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/19/23	04/19/23	
Surrogate: Bromofluorobenzene		101 %	70-130	04/19/23	04/19/23	
Surrogate: 1,2-Dichloroethane-d4		113 %	70-130	04/19/23	04/19/23	
Surrogate: Toluene-d8		104 %	70-130	04/19/23	04/19/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2316026
Diesel Range Organics (C10-C28)	ND	25.0	1	04/19/23	04/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/19/23	04/19/23	
Surrogate: n-Nonane		73.1 %	50-200	04/19/23	04/19/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2316027
Chloride	ND	20.0	1	04/19/23	04/19/23	



Sample Data

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

Project Name: Onyx PWU 29 CTB1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
4/20/2023 2:34:04PM

CSW1

E304089-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2316030
Benzene	ND	0.0250	1	04/19/23	04/19/23	
Ethylbenzene	ND	0.0250	1	04/19/23	04/19/23	
Toluene	ND	0.0250	1	04/19/23	04/19/23	
o-Xylene	ND	0.0250	1	04/19/23	04/19/23	
p,m-Xylene	ND	0.0500	1	04/19/23	04/19/23	
Total Xylenes	ND	0.0250	1	04/19/23	04/19/23	
Surrogate: Bromofluorobenzene	98.5 %	70-130		04/19/23	04/19/23	
Surrogate: 1,2-Dichloroethane-d4	116 %	70-130		04/19/23	04/19/23	
Surrogate: Toluene-d8	103 %	70-130		04/19/23	04/19/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2316030
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/19/23	04/19/23	
Surrogate: Bromofluorobenzene	98.5 %	70-130		04/19/23	04/19/23	
Surrogate: 1,2-Dichloroethane-d4	116 %	70-130		04/19/23	04/19/23	
Surrogate: Toluene-d8	103 %	70-130		04/19/23	04/19/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2316026
Diesel Range Organics (C10-C28)	ND	25.0	1	04/19/23	04/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/19/23	04/19/23	
Surrogate: n-Nonane	89.4 %	50-200		04/19/23	04/19/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2316027
Chloride	ND	20.0	1	04/19/23	04/19/23	



Sample Data

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

Project Name: Onyx PWU 29 CTB1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
4/20/2023 2:34:04PM

CSW2

E304089-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2316030
Benzene	ND	0.0250	1	04/19/23	04/19/23	
Ethylbenzene	ND	0.0250	1	04/19/23	04/19/23	
Toluene	ND	0.0250	1	04/19/23	04/19/23	
o-Xylene	ND	0.0250	1	04/19/23	04/19/23	
p,m-Xylene	ND	0.0500	1	04/19/23	04/19/23	
Total Xylenes	ND	0.0250	1	04/19/23	04/19/23	
Surrogate: Bromofluorobenzene		101 %	70-130	04/19/23	04/19/23	
Surrogate: 1,2-Dichloroethane-d4		110 %	70-130	04/19/23	04/19/23	
Surrogate: Toluene-d8		103 %	70-130	04/19/23	04/19/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2316030
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/19/23	04/19/23	
Surrogate: Bromofluorobenzene		101 %	70-130	04/19/23	04/19/23	
Surrogate: 1,2-Dichloroethane-d4		110 %	70-130	04/19/23	04/19/23	
Surrogate: Toluene-d8		103 %	70-130	04/19/23	04/19/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2316026
Diesel Range Organics (C10-C28)	ND	25.0	1	04/19/23	04/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/19/23	04/19/23	
Surrogate: n-Nonane		84.5 %	50-200	04/19/23	04/19/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2316027
Chloride	ND	20.0	1	04/19/23	04/19/23	



Sample Data

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

Project Name: Onyx PWU 29 CTB1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
4/20/2023 2:34:04PM

CSW3

E304089-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2316030
Benzene	ND	0.0250	1	04/19/23	04/19/23	
Ethylbenzene	ND	0.0250	1	04/19/23	04/19/23	
Toluene	ND	0.0250	1	04/19/23	04/19/23	
o-Xylene	ND	0.0250	1	04/19/23	04/19/23	
p,m-Xylene	ND	0.0500	1	04/19/23	04/19/23	
Total Xylenes	ND	0.0250	1	04/19/23	04/19/23	
Surrogate: Bromofluorobenzene	98.7 %	70-130		04/19/23	04/19/23	
Surrogate: 1,2-Dichloroethane-d4	111 %	70-130		04/19/23	04/19/23	
Surrogate: Toluene-d8	103 %	70-130		04/19/23	04/19/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2316030
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/19/23	04/19/23	
Surrogate: Bromofluorobenzene	98.7 %	70-130		04/19/23	04/19/23	
Surrogate: 1,2-Dichloroethane-d4	111 %	70-130		04/19/23	04/19/23	
Surrogate: Toluene-d8	103 %	70-130		04/19/23	04/19/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2316026
Diesel Range Organics (C10-C28)	ND	25.0	1	04/19/23	04/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/19/23	04/19/23	
Surrogate: n-Nonane	79.5 %	50-200		04/19/23	04/19/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2316027
Chloride	ND	20.0	1	04/19/23	04/19/23	



Sample Data

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

Project Name: Onyx PWU 29 CTB1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
4/20/2023 2:34:04PM

CSW4

E304089-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2316030
Benzene	ND	0.0250	1	04/19/23	04/19/23	
Ethylbenzene	ND	0.0250	1	04/19/23	04/19/23	
Toluene	ND	0.0250	1	04/19/23	04/19/23	
o-Xylene	ND	0.0250	1	04/19/23	04/19/23	
p,m-Xylene	ND	0.0500	1	04/19/23	04/19/23	
Total Xylenes	ND	0.0250	1	04/19/23	04/19/23	
Surrogate: Bromofluorobenzene		102 %	70-130	04/19/23	04/19/23	
Surrogate: 1,2-Dichloroethane-d4		119 %	70-130	04/19/23	04/19/23	
Surrogate: Toluene-d8		104 %	70-130	04/19/23	04/19/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2316030
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/19/23	04/19/23	
Surrogate: Bromofluorobenzene		102 %	70-130	04/19/23	04/19/23	
Surrogate: 1,2-Dichloroethane-d4		119 %	70-130	04/19/23	04/19/23	
Surrogate: Toluene-d8		104 %	70-130	04/19/23	04/19/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2316026
Diesel Range Organics (C10-C28)	ND	25.0	1	04/19/23	04/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/19/23	04/19/23	
Surrogate: n-Nonane		82.6 %	50-200	04/19/23	04/19/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2316027
Chloride	ND	20.0	1	04/19/23	04/19/23	



Sample Data

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

Project Name: Onyx PWU 29 CTB1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
4/20/2023 2:34:04PM

CSW5

E304089-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2316030
Benzene	ND	0.0250	1	04/19/23	04/19/23	
Ethylbenzene	ND	0.0250	1	04/19/23	04/19/23	
Toluene	ND	0.0250	1	04/19/23	04/19/23	
o-Xylene	ND	0.0250	1	04/19/23	04/19/23	
p,m-Xylene	ND	0.0500	1	04/19/23	04/19/23	
Total Xylenes	ND	0.0250	1	04/19/23	04/19/23	
Surrogate: Bromofluorobenzene	96.8 %	70-130		04/19/23	04/19/23	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		04/19/23	04/19/23	
Surrogate: Toluene-d8	98.4 %	70-130		04/19/23	04/19/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2316030
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/19/23	04/19/23	
Surrogate: Bromofluorobenzene	96.8 %	70-130		04/19/23	04/19/23	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		04/19/23	04/19/23	
Surrogate: Toluene-d8	98.4 %	70-130		04/19/23	04/19/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2316026
Diesel Range Organics (C10-C28)	ND	25.0	1	04/19/23	04/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/19/23	04/19/23	
Surrogate: n-Nonane	89.3 %	50-200		04/19/23	04/19/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2316027
Chloride	ND	20.0	1	04/19/23	04/19/23	



Sample Data

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

Project Name: Onyx PWU 29 CTB1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
4/20/2023 2:34:04PM

CSW6

E304089-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2316030
Benzene	ND	0.0250	1	04/19/23	04/19/23	
Ethylbenzene	ND	0.0250	1	04/19/23	04/19/23	
Toluene	ND	0.0250	1	04/19/23	04/19/23	
o-Xylene	ND	0.0250	1	04/19/23	04/19/23	
p,m-Xylene	ND	0.0500	1	04/19/23	04/19/23	
Total Xylenes	ND	0.0250	1	04/19/23	04/19/23	
Surrogate: Bromofluorobenzene		101 %	70-130	04/19/23	04/19/23	
Surrogate: 1,2-Dichloroethane-d4		97.8 %	70-130	04/19/23	04/19/23	
Surrogate: Toluene-d8		99.3 %	70-130	04/19/23	04/19/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2316030
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/19/23	04/19/23	
Surrogate: Bromofluorobenzene		101 %	70-130	04/19/23	04/19/23	
Surrogate: 1,2-Dichloroethane-d4		97.8 %	70-130	04/19/23	04/19/23	
Surrogate: Toluene-d8		99.3 %	70-130	04/19/23	04/19/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2316026
Diesel Range Organics (C10-C28)	ND	25.0	1	04/19/23	04/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/19/23	04/19/23	
Surrogate: n-Nonane		79.6 %	50-200	04/19/23	04/19/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2316027
Chloride	ND	20.0	1	04/19/23	04/19/23	



Sample Data

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

Project Name: Onyx PWU 29 CTB1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
4/20/2023 2:34:04PM

CSW7

E304089-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2316030
Benzene	ND	0.0250	1	04/19/23	04/19/23	
Ethylbenzene	ND	0.0250	1	04/19/23	04/19/23	
Toluene	ND	0.0250	1	04/19/23	04/19/23	
o-Xylene	ND	0.0250	1	04/19/23	04/19/23	
p,m-Xylene	ND	0.0500	1	04/19/23	04/19/23	
Total Xylenes	ND	0.0250	1	04/19/23	04/19/23	
Surrogate: Bromofluorobenzene	96.7 %	70-130		04/19/23	04/19/23	
Surrogate: 1,2-Dichloroethane-d4	103 %	70-130		04/19/23	04/19/23	
Surrogate: Toluene-d8	99.2 %	70-130		04/19/23	04/19/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2316030
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/19/23	04/19/23	
Surrogate: Bromofluorobenzene	96.7 %	70-130		04/19/23	04/19/23	
Surrogate: 1,2-Dichloroethane-d4	103 %	70-130		04/19/23	04/19/23	
Surrogate: Toluene-d8	99.2 %	70-130		04/19/23	04/19/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2316026
Diesel Range Organics (C10-C28)	ND	25.0	1	04/19/23	04/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/19/23	04/19/23	
Surrogate: n-Nonane	81.2 %	50-200		04/19/23	04/19/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2316027
Chloride	ND	20.0	1	04/19/23	04/19/23	



Sample Data

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

Project Name: Onyx PWU 29 CTB1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
4/20/2023 2:34:04PM

CSW8

E304089-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2316030
Benzene	ND	0.0250	1	04/19/23	04/19/23	
Ethylbenzene	ND	0.0250	1	04/19/23	04/19/23	
Toluene	ND	0.0250	1	04/19/23	04/19/23	
o-Xylene	ND	0.0250	1	04/19/23	04/19/23	
p,m-Xylene	ND	0.0500	1	04/19/23	04/19/23	
Total Xylenes	ND	0.0250	1	04/19/23	04/19/23	
Surrogate: Bromofluorobenzene	97.0 %	70-130		04/19/23	04/19/23	
Surrogate: 1,2-Dichloroethane-d4	104 %	70-130		04/19/23	04/19/23	
Surrogate: Toluene-d8	99.8 %	70-130		04/19/23	04/19/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2316030
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/19/23	04/19/23	
Surrogate: Bromofluorobenzene	97.0 %	70-130		04/19/23	04/19/23	
Surrogate: 1,2-Dichloroethane-d4	104 %	70-130		04/19/23	04/19/23	
Surrogate: Toluene-d8	99.8 %	70-130		04/19/23	04/19/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2316026
Diesel Range Organics (C10-C28)	ND	25.0	1	04/19/23	04/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/19/23	04/19/23	
Surrogate: n-Nonane	83.4 %	50-200		04/19/23	04/19/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2316027
Chloride	ND	20.0	1	04/19/23	04/19/23	



Sample Data

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

Project Name: Onyx PWU 29 CTB1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
4/20/2023 2:34:04PM

CSW9

E304089-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2316030
Benzene	ND	0.0250	1	04/19/23	04/19/23	
Ethylbenzene	ND	0.0250	1	04/19/23	04/19/23	
Toluene	ND	0.0250	1	04/19/23	04/19/23	
o-Xylene	ND	0.0250	1	04/19/23	04/19/23	
p,m-Xylene	ND	0.0500	1	04/19/23	04/19/23	
Total Xylenes	ND	0.0250	1	04/19/23	04/19/23	
Surrogate: Bromofluorobenzene		100 %	70-130	04/19/23	04/19/23	
Surrogate: 1,2-Dichloroethane-d4		104 %	70-130	04/19/23	04/19/23	
Surrogate: Toluene-d8		100 %	70-130	04/19/23	04/19/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2316030
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/19/23	04/19/23	
Surrogate: Bromofluorobenzene		100 %	70-130	04/19/23	04/19/23	
Surrogate: 1,2-Dichloroethane-d4		104 %	70-130	04/19/23	04/19/23	
Surrogate: Toluene-d8		100 %	70-130	04/19/23	04/19/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2316026
Diesel Range Organics (C10-C28)	ND	25.0	1	04/19/23	04/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/19/23	04/19/23	
Surrogate: n-Nonane		88.2 %	50-200	04/19/23	04/19/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2316027
Chloride	ND	20.0	1	04/19/23	04/19/23	



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Onyx PWU 29 CTB1	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	4/20/2023 2:34:04PM

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 (2316030-BLK1)

Prepared: 04/19/23 Analyzed: 04/19/23

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.481		0.500		96.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.558		0.500		112	70-130			
Surrogate: Toluene-d8	0.503		0.500		101	70-130			

LCS (2316030-BS1)

Prepared: 04/19/23 Analyzed: 04/19/23

Benzene	2.43	0.0250	2.50		97.1	70-130			
Ethylbenzene	2.37	0.0250	2.50		95.0	70-130			
Toluene	2.41	0.0250	2.50		96.5	70-130			
o-Xylene	2.37	0.0250	2.50		94.8	70-130			
p,m-Xylene	4.76	0.0500	5.00		95.2	70-130			
Total Xylenes	7.13	0.0250	7.50		95.0	70-130			
Surrogate: Bromofluorobenzene	0.541		0.500		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.568		0.500		114	70-130			
Surrogate: Toluene-d8	0.512		0.500		102	70-130			

Matrix Spike (2316030-MS1)

Source: E304089-02

Prepared: 04/19/23 Analyzed: 04/19/23

Benzene	2.48	0.0250	2.50	ND	99.3	48-131			
Ethylbenzene	2.44	0.0250	2.50	ND	97.6	45-135			
Toluene	2.44	0.0250	2.50	ND	97.7	48-130			
o-Xylene	2.44	0.0250	2.50	ND	97.5	43-135			
p,m-Xylene	4.83	0.0500	5.00	ND	96.6	43-135			
Total Xylenes	7.27	0.0250	7.50	ND	96.9	43-135			
Surrogate: Bromofluorobenzene	0.549		0.500		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.565		0.500		113	70-130			
Surrogate: Toluene-d8	0.497		0.500		99.4	70-130			

Matrix Spike Dup (2316030-MSD1)

Source: E304089-02

Prepared: 04/19/23 Analyzed: 04/19/23

Benzene	2.49	0.0250	2.50	ND	99.7	48-131	0.442	23	
Ethylbenzene	2.43	0.0250	2.50	ND	97.1	45-135	0.493	27	
Toluene	2.47	0.0250	2.50	ND	98.7	48-130	1.04	24	
o-Xylene	2.43	0.0250	2.50	ND	97.2	43-135	0.370	27	
p,m-Xylene	4.82	0.0500	5.00	ND	96.5	43-135	0.114	27	
Total Xylenes	7.25	0.0250	7.50	ND	96.7	43-135	0.200	27	
Surrogate: Bromofluorobenzene	0.531		0.500		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.587		0.500		117	70-130			
Surrogate: Toluene-d8	0.499		0.500		99.8	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Onyx PWU 29 CTB1	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	4/20/2023 2:34:04PM

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 (2316030-BLK1)

Prepared: 04/19/23 Analyzed: 04/19/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.481		0.500		96.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.558		0.500		112	70-130			
Surrogate: Toluene-d8	0.503		0.500		101	70-130			

LCS (2316030-BS2)

Prepared: 04/19/23 Analyzed: 04/19/23

Gasoline Range Organics (C6-C10)	50.9	20.0	50.0		102	70-130			
Surrogate: Bromofluorobenzene	0.514		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.545		0.500		109	70-130			
Surrogate: Toluene-d8	0.513		0.500		103	70-130			

Matrix Spike (2316030-MS2)

Source: E304089-02

Prepared: 04/19/23 Analyzed: 04/19/23

Gasoline Range Organics (C6-C10)	51.2	20.0	50.0	ND	102	70-130			
Surrogate: Bromofluorobenzene	0.500		0.500		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.550		0.500		110	70-130			
Surrogate: Toluene-d8	0.525		0.500		105	70-130			

Matrix Spike Dup (2316030-MSD2)

Source: E304089-02

Prepared: 04/19/23 Analyzed: 04/19/23

Gasoline Range Organics (C6-C10)	48.0	20.0	50.0	ND	96.1	70-130	6.39	20	
Surrogate: Bromofluorobenzene	0.505		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.551		0.500		110	70-130			
Surrogate: Toluene-d8	0.522		0.500		104	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Onyx PWU 29 CTB1	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	4/20/2023 2:34:04PM

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 (2316026-BLK1)

Prepared: 04/19/23 Analyzed: 04/19/23

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	47.5		50.0		95.0	50-200			

LCS (2316026-BS1)

Prepared: 04/19/23 Analyzed: 04/19/23

Diesel Range Organics (C10-C28)	257	25.0	250		103	38-132			
Surrogate: n-Nonane	47.2		50.0		94.4	50-200			

Matrix Spike (2316026-MS1)

Source: E304089-03

Prepared: 04/19/23 Analyzed: 04/19/23

Diesel Range Organics (C10-C28)	256	25.0	250	ND	102	38-132			
Surrogate: n-Nonane	33.6		50.0		67.2	50-200			

Matrix Spike Dup (2316026-MSD1)

Source: E304089-03

Prepared: 04/19/23 Analyzed: 04/19/23

Diesel Range Organics (C10-C28)	266	25.0	250	ND	106	38-132	3.96	20	
Surrogate: n-Nonane	35.5		50.0		71.0	50-200			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Onyx PWU 29 CTB1	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	4/20/2023 2:34:04PM

Anions by EPA 300.0/9056A

Analyst: RAS

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

Blank (2316027-BLK1)					Prepared: 04/19/23 Analyzed: 04/19/23				
Chloride	ND	20.0							
LCS (2316027-BS1)					Prepared: 04/19/23 Analyzed: 04/19/23				
Chloride	247	20.0	250		99.0	90-110			
Matrix Spike (2316027-MS1)					Source: E304089-01		Prepared: 04/19/23 Analyzed: 04/19/23		
Chloride	249	20.0	250	ND	99.4	80-120			
Matrix Spike Dup (2316027-MSD1)					Source: E304089-01		Prepared: 04/19/23 Analyzed: 04/19/23		
Chloride	249	20.0	250	ND	99.6	80-120	0.190	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:	Onyx PWU 29 CTB1	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	04/20/23 14:34

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

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

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



Project Information

Chain of Custody

Page 1 of 2

Client: Pima Environmental Services		Bill To		Lab Use Only		TAT		EPA Program					
Project: <u>Onyx PWV 29 C1B1</u>		Attention: <u>Devon</u>		Lab WO# <u>304089</u>		Job Number <u>01058-0007</u>		1D	2D	3D	Standard	CWA	SDWA
Project Manager: Tom Bynum		Address:		Analysis and Method									
Address: <u>5614 N. Lovington Hwy.</u>		City, State, Zip		DRO/ORO by 8015		GRO/DRO by 8015		BTEX by 8021		VOC by 8260		Metals 6010	
City, State, Zip <u>Hobbs, NM. 88240</u>		Phone:										Chloride 300.0	
Phone: <u>580-748-1613</u>		Email:										BGDOC NM	
Email: <u>tom@pimaoil.com</u>		Pima Project # <u>1-210-2</u>										BGDOC TX	
Report due by:												State	
												NM CO UT AZ TX	
												Remarks	

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	Remarks
8:00	4/14/23	S	1	CS1	1							X		
8:05				CS2	2									
8:10				CS3	3									
8:15				CSW1	4									
8:20				CSW2	5									
8:25				CSW3	6									
8:30				CSW4	7									
8:35				CSW5	8									
8:40				CSW6	9									
8:45				CSW7	10									

Additional Instructions:

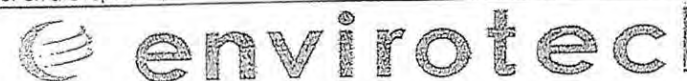
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.

Billing #: 21124985Sampled by: Andrew Franco

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 5 °C on subsequent days.

Relinquished by: (Signature) <u>AF</u>	Date <u>4-18-23</u>	Time <u>2:00</u>	Received by: (Signature) <u>Michelle George</u>	Date <u>4-18-23</u>	Time <u>1400</u>	Lab Use Only
Relinquished by: (Signature) <u>Michelle George</u>	Date <u>4-18-23</u>	Time <u>1700</u>	Received by: (Signature) <u>Andrew Musso</u>	Date <u>4-18-23</u>	Time <u>1700</u>	Received on ice: <u>Y</u> / N
Relinquished by: (Signature) <u>Andrew Musso</u>	Date <u>4-18-23</u>	Time <u>2300</u>	Received by: (Signature) <u>Andrew Musso</u>	Date <u>4-19-23</u>	Time <u>0700</u>	T1 _____ T2 _____ T3 _____
Sample Matrix: <u>S</u> - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other						AVG Temp °C <u>4</u>

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



[illegible]

Envirotech Analytical Laboratory

Printed: 4/19/2023 8:22:07AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Pima Environmental Services-Carlsbad	Date Received:	04/19/23 07:00	Work Order ID:	E304089
Phone:	(575) 631-6977	Date Logged In:	04/18/23 15:45	Logged In By:	Caitlin Christian
Email:	tom@pimaoil.com	Due Date:	04/19/23 17:00 (0 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

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

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

CONDITIONS

Action 218313

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 218313
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your closure report and final C-141 for Incident #NAPP2303756344 ONYX 29 CTB 1, thank you. This closure is approved.	10/12/2023