



Pima Environmental Services, LLC
1601 N. Turner Ste 500
Hobbs, NM 88240
575-964-7740

March 16th, 2021

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

Bureau of Land Management
Mr. Jim Amos
620 East Green Street
Carlsbad, NM 88220

**Re: Site Remediation and Closure Report
Diamond PWU 22 #6H
API No. 30-015-41008
GPS: Latitude 32.647459 Longitude -104.070351
UL "E", Sec. 22, T19S, R29E
Eddy County, NM
NMOCD Ref. No. NRM2029540644**

Dear Mr. Bratcher and Mr. Amos,

Pima Environmental Services, LLC (Pima) has been contracted by Devon Energy Production Company (Devon) to perform a spill assessment and remediation activities for an oil release that occurred at the Diamond PWU 22 #6H (Diamond). The initial C-141 was submitted on October 19th, 2020 (Appendix C). This incident was assigned Incident ID NRM2029540644, by the New Mexico Oil Conservation Division (NMOCD).

Site Characterization

The Diamond is located approximately eighteen (18) miles northeast of Carlsbad, NM. This spill site is in Unit E, Section 22, Township 19S, Range 29E, Latitude 32.647459, Longitude -104.070351, Eddy County, NM. Figure 1 references a location map.

Per the New Mexico Bureau of Geology and Mineral Resources, the geology is in the Quaternary Formation Eolian and piedmont deposits (Holocene to middle Pleistocene), interlaced eolian sands and piedmont-slope deposits (QEP). According to the United States Department of Agriculture Natural Resources Conservation Service soil survey, the soil in this area comprises Simona-Bippus complex, 0 to 5 percent slopes (Appendix B). The drainage courses in this area are well-drained. There is a high potential for karst geology in the Diamond area (Figure 3).

According to the New Mexico Office of the State Engineer, depth to the nearest groundwater in this area is 60 feet below grade surface (BGS). According to the United States Geological Survey (USGS), the nearest groundwater is greater than 67 feet BGS. The closest waterway and is a playa located approximately 5.22 miles to the southeast of this location. See Appendix A for referenced water surveys.

Table 1 NMAC and Closure Criteria 19.15.29					
Depth to Groundwater (Appendix A)	Constituent & Limits				
	Chlorides	Total TPH	GRO+DRO	BTEX	Benzene
60'	10,000 mg/kg	2,500 mg/kg	1,000 mg/kg	50 mg/kg	10 mg/kg
If the release occurred within any of the following areas, the responsible party would treat the release as if the groundwater was less than 50 feet per Rule 19.15.29					
Water Issues				Yes	No
Within 300 feet of any continuously flowing watercourse or any other significant watercourse					x
Within 200 feet of any lakebed, sinkhole, or playa lake (measures from the ordinary high-water mark)					x
Within 300 feet from an occupied permanent residence, school, hospital, institution, or church					x
Within 500 feet of a spring or a private, domestic freshwater well used by less than five households for domestic or stock water purposes					x
Within 1000 feet of any freshwater well or spring					x
Within incorporated municipal boundaries or within a defined municipal freshwater well field					x
Within 300 feet of a wetlands					x
Within the area overlying a subsurface mine					x
Within an unstable area (Karst)				x	
Within a 100-year floodplain					x

Reference Figure 2 for a TOPO Map.

Release Information

NRM2029540644: On October 5th, 2020, a pressure gauge failed causing fluid to release to the ground around the wellhead. The well was shut in for repair. Approximately 6.06 barrels of crude oil was released with approximately 1 barrel recovered.

Site Assessment and Soil Sampling Results

On October 6th, 2020, Pima Environmental conducted a site assessment and obtained soil samples to get a more in-depth picture of the horizontal extent of the contamination. Laboratory results of this sampling event can be found in the following data table.

10-6-20 Soil Sample Results

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is 51-100')								
Sample Date 10-6-20		NM Approved Laboratory Results						
Sample ID	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg
S1-A	0-6"	12.4	ND	346	7100	1250	8696	17600
S1	0-6"	135	0.8	4220	78800	13200	96220	29600
S2	0-6"	5.26	ND	102	8880	2160	11142	20200
S3	0-6"	2.81	0.057	33.2	1760	426	2219.2	26400
S4	0-6"	219	ND	3110	34300	6130	43540	13600
BG1	0	ND	ND	ND	ND	ND	ND	672
BG2	0	ND	ND	ND	ND	ND	ND	176
BG3	0	ND	ND	ND	ND	ND	ND	240
BG4	0	ND	ND	ND	ND	ND	ND	6080
BG5	0	ND	ND	ND	ND	ND	ND	2000

ND- Analyte Not Detected

Remediation Activities

On February 17th, 2021, Pima mobilized personnel and equipment to conduct remedial activities based on our most recent assessment. An initial area of approximately 1,800 square feet was marked off running east and south of the wellhead and excavated to a depth of 2' BGS. Bottom and sidewall composite samples were obtained to ensure that the vertical and horizontal extents of the contamination had been removed. Each composite sample was representative of no more than 200 square feet. A map of sample locations can be found in Figure 5. The laboratory results of this sampling event can be found in the following data table.

Excavation Confirmation Soil Sample Results 2-26-21

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is 51-100')								
Sample Date 2-22-21 & 2/26/21		NM Approved Laboratory Results						
Sample ID	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg
N-Wall	1'	ND	ND	ND	79.7	54.1	133.8	256
E-Wall	1'	ND	ND	ND	ND	ND	ND	496
S-Wall	1'	ND	ND	ND	135	36.2	171.2	784
W-Wall	1'	ND	ND	ND	32.9	12.8	45.7	ND
B-Comp	2'	ND	ND	ND	ND	ND	ND	336
S2-Bottom	2'	ND	ND	ND	ND	ND	ND	80
S3-Bottom	2'	ND	ND	ND	ND	ND	ND	96
S4-Bottom	2'	ND	ND	ND	ND	ND	ND	96
S5-Bottom	2'	ND	ND	ND	ND	ND	ND	80
S6-Bottom	2'	ND	ND	ND	ND	ND	ND	96
S7-Bottom	2'	ND	ND	ND	ND	ND	ND	64
S8-Bottom	2'	ND	ND	ND	ND	ND	ND	144
S9-Bottom	2'	ND	ND	ND	ND	ND	ND	80

ND- Analyte Not Detected

On March 5th, 2021, Pima mobilized personnel and equipment to conduct additional remedial activities of the north and south sidewalls based on our most recent assessment. Each sidewall area was extended by approximately 200 square feet in order to completely remediate the affected area. The laboratory results of this sampling event can be found in the following data table.

Confirmation Sidewall Sample Results 3-5-21

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is 51-100')								
DEVON ENERGY - DIAMOND PWU 22 6H								
3/5/2021		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
SW	2'	ND	ND	ND	ND	ND	ND	ND
NW	2'	ND	ND	ND	ND	ND	ND	ND

ND- Analyte Not Detected

Complete Laboratory Reports are attached in Appendix E.

Based on the sample results, the bottom and sidewalls were below NMOCD Closure Criteria 19.15.29 NMAC.

The contaminated material was transported to Lea Land, an NMOCD approved disposal site. The excavation was then backfilled with clean like material, machine compacted and contoured to match the surrounding terrain. See Appendix D for photographic documentation.

Closure Request

After careful review, Pima requests that this incident, NRM2029540644, 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 Tom Bynum at 575-964-7740 or tom@pimaoil.com.

Respectfully,



Tom Bynum
Environmental Project Manager
Pima Environmental Services, LLC

Attachments

Figures:

- 1- Location Map
- 2- TOPO Map
- 3- Karst Map
- 4- Site Map
- 5- Confirmation Site Map

Appendices:

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



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Figures:

1-Location Map

2-TOPO Map

3-Karst Map

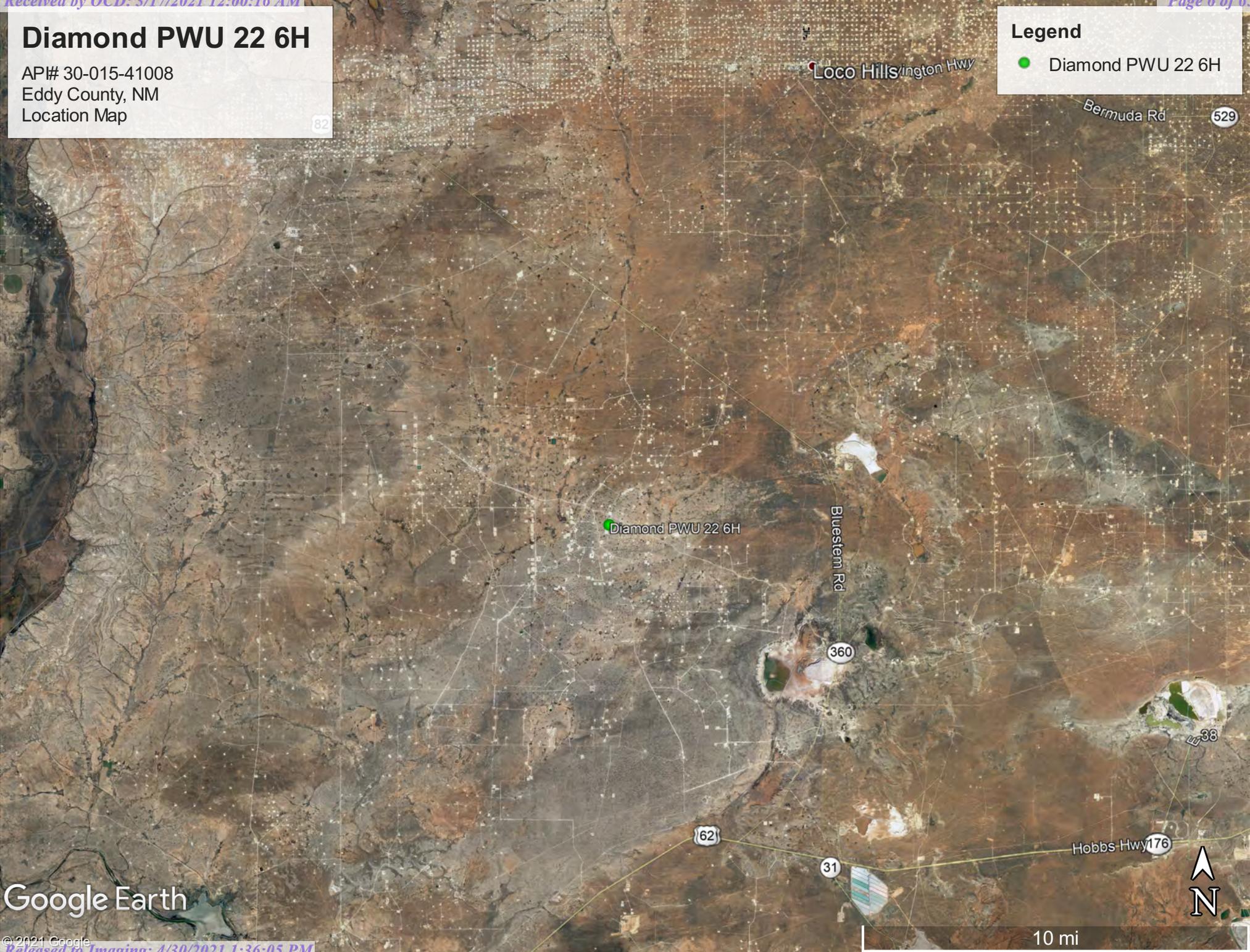
4-Site Map

5-Confirmation Site Map

Diamond PWU 22 6H
 API# 30-015-41008
 Eddy County, NM
 Location Map

Legend

- Diamond PWU 22 6H



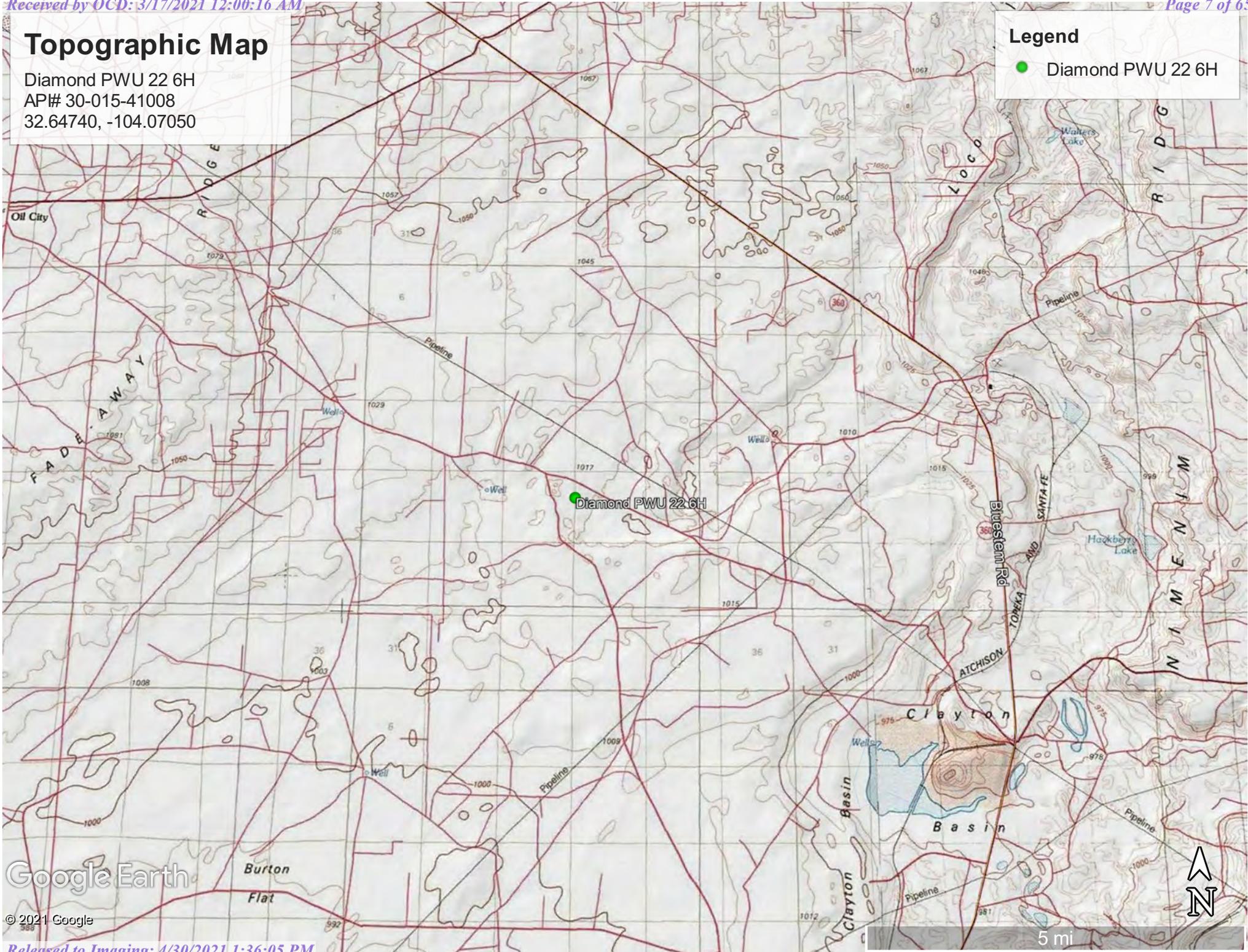
Google Earth

Topographic Map

Diamond PWU 22 6H
AP# 30-015-41008
32.64740, -104.07050

Legend

- Diamond PWU 22 6H



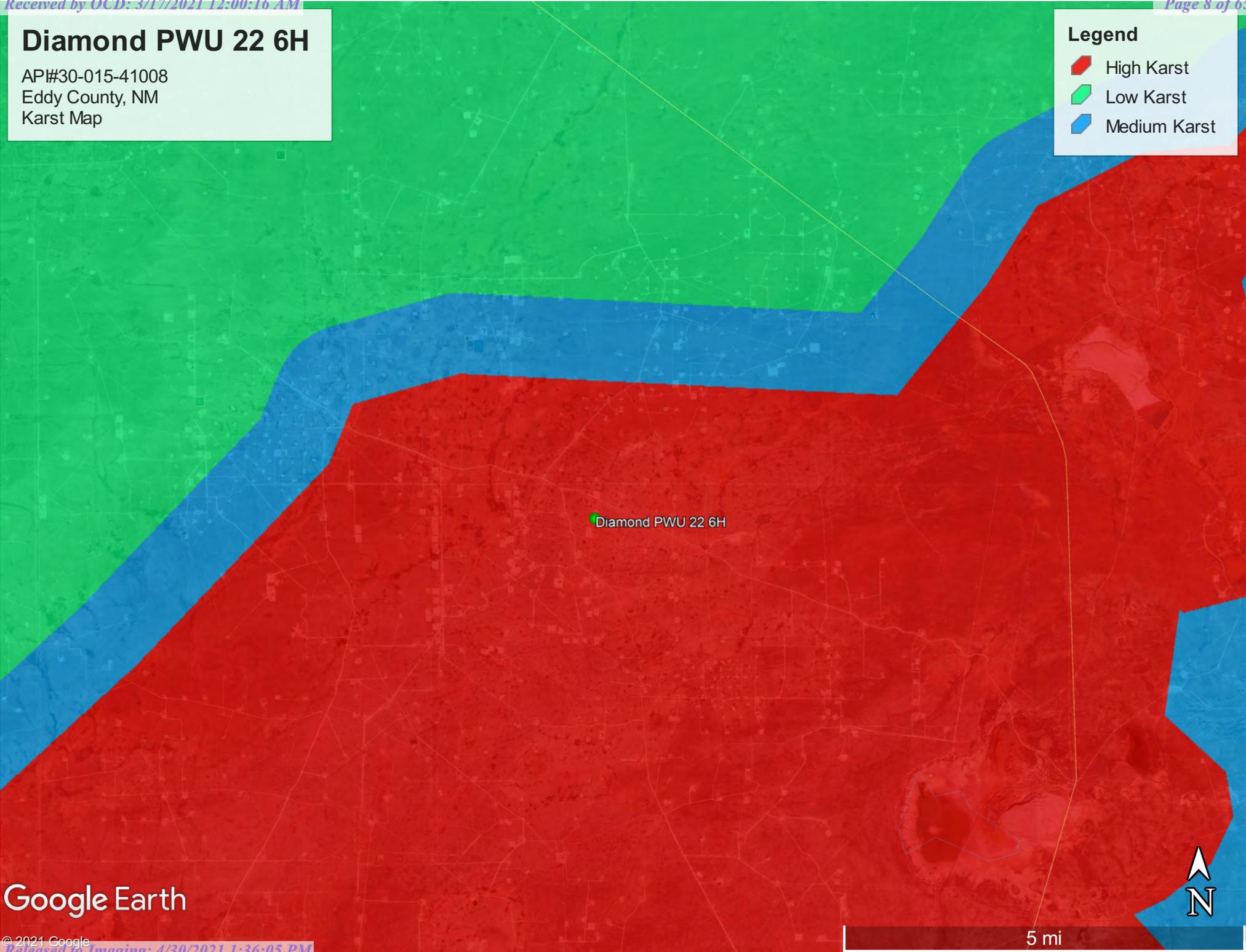
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Diamond PWU 22 6H
API#30-015-41008
Eddy County, NM
Karst Map

Legend

-  High Karst
-  Low Karst
-  Medium Karst



Google Earth



Devon Energy

Diamond PWU 22 6H
AP# 30-015-41008
Eddy County, NM
Site Map

Legend

- Background Samples
- Diamond PWU 22 6H
- Remediation Area
- ⊙ Samples



Diamond PWU 22 6H

Devon Energy
API# 30-015-41008
Eddy County, NM
Confirmation Site Map

Legend

-  Bottom Confirmation
-  Diamond PWU 22 6H
-  Remediation Area
-  Side-Wall Confirmation



Google Earth

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100 ft





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Appendix A

Water Surveys:

OSE

USGS

Surface Water Map

Active Water Wells 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	POD Code	Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Well Depth	Average Depth to Water	Water Column
CP 00741	CP	ED	ED	1	3	2	34	19S	29E	588030	3609533*	1906	230	85 feet	170
CP 00681	CP	ED	ED	1	1	3	34	19S	29E	587230	3609127*	2143		60 feet	
CP 00698 POD1	CP	ED	ED		3	1	03	20S	29E	587393	3608010	3263			
CP 00830 POD1	CP	LE	LE		2	1	04	20S	29E	586118	3608193*	3277	120		
CP 00739 POD1	CP	ED	ED	3	4	4	35	19S	29E	590068	3608622	3870	200	110 feet	90

Average Depth to Water: **85 feet**
 Minimum Depth: **60 feet**
 Maximum Depth: **110 feet**

Record Count: 5

UTMNAD83 Radius Search (in meters):

Easting (X): 587245.47

Northing (Y): 3611270.81

Radius: 4000

*UTM location was derived from PLSS - see Help

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

2/12/21 9:04 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER



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National Water Information System: Web Interface

USGS Water Resources

Data Category:

Groundwater

Geographic Area:

United States

GO

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- [Full News](#) 
- **NOTICE: Feb 10, 2021 17:30ET - 18:23ET Data Transmissions were impacted by an unplanned system maintenance outage. Data are now processing.**

Groundwater levels for the Nation

* IMPORTANT: [Next Generation Station 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

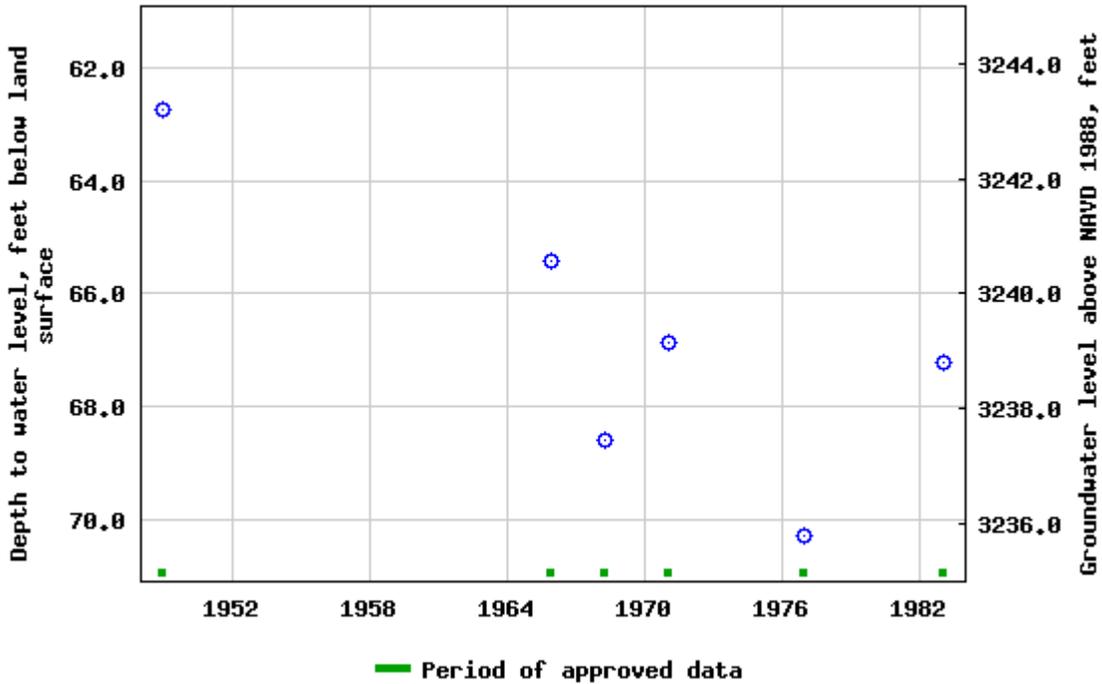
This well is completed in the Other aquifers (N9999OTHER) national aquifer.

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

Output formats

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

USGS 323900104052901 19S.29E.20.24111 RATLSNAKE



Breaks in the plot represent a gap of at least one year between field measurements.
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Title: Groundwater for USA: Water Levels

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



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

Page Last Modified: 2021-02-12 11:06:14 EST

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National Water Information System: Web Interface

USGS Water Resources

Data Category:

Groundwater

Geographic Area:

United States

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Groundwater levels for the Nation

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

Search Results -- 1 sites found

site_no list =

- 323853104023101

Minimum number of levels = 1

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

USGS 323853104023101 19S.29E.23.23322

Available data for this site

Groundwater: Field measurements

GO

Eddy County, New Mexico

Hydrologic Unit Code 13060011

Latitude 32°38'53", Longitude 104°02'31" NAD27

Land-surface elevation 3,273 feet above NAVD88

The depth of the well is 85 feet below land surface.

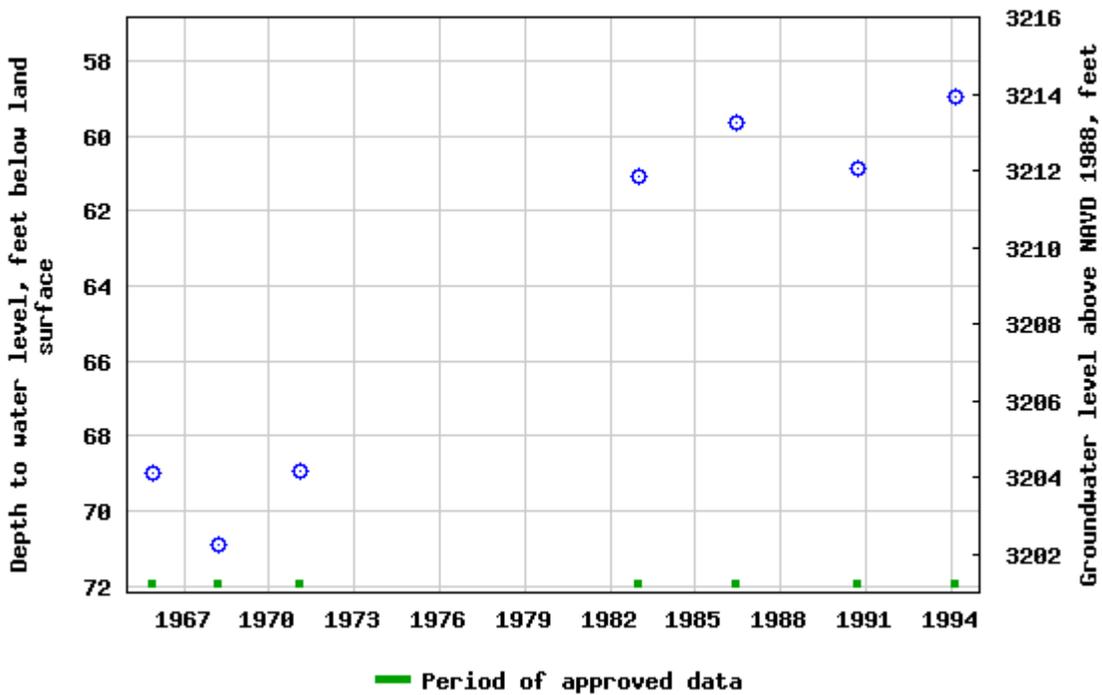
This well is completed in the Other aquifers (N9999OTHER) national aquifer.

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

Output formats

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

USGS 323853104023101 19S.29E.23.23322



Breaks in the plot represent a gap of at least one year between field measurements.
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Title: Groundwater for USA: Water Levels

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



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

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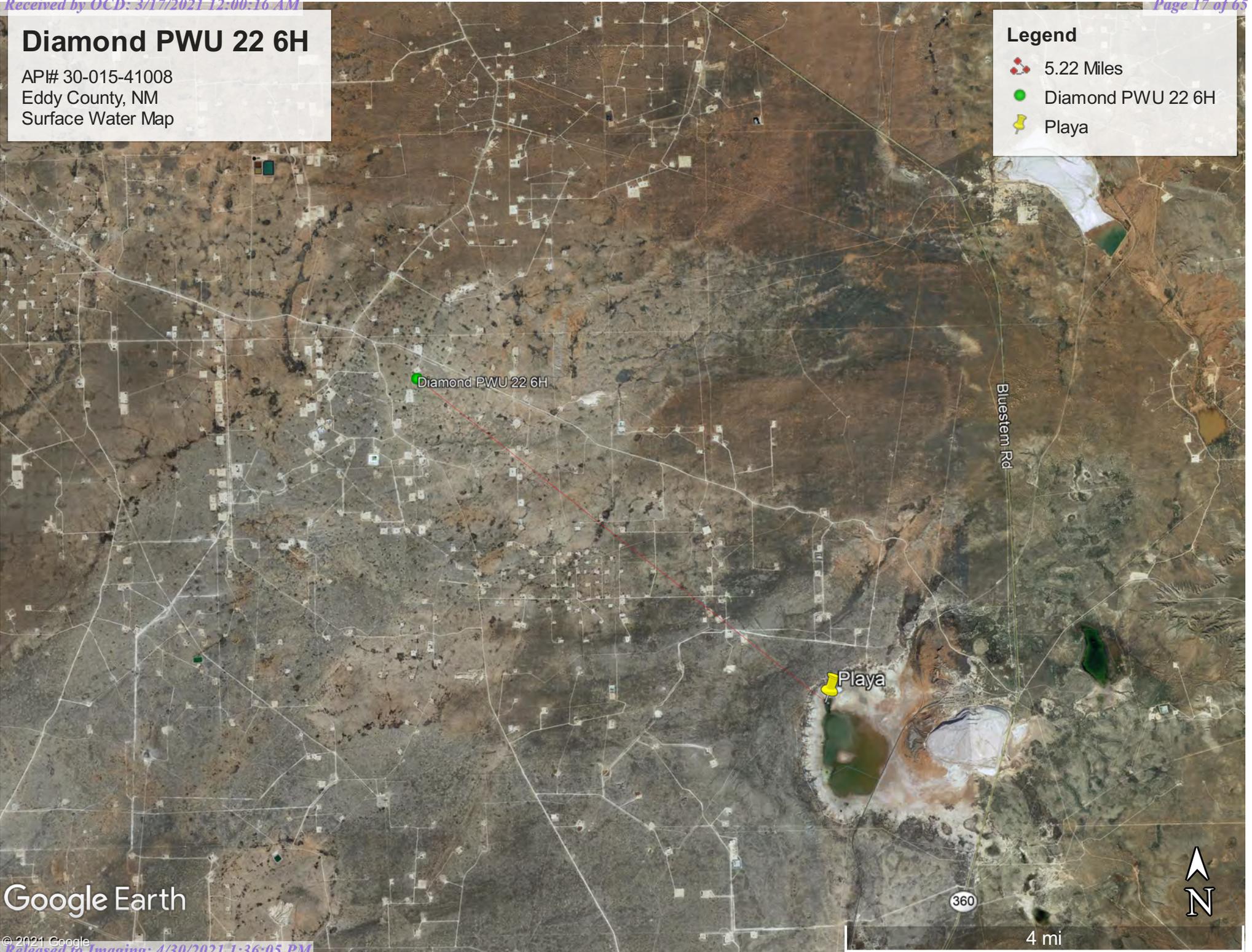
0.64 0.56 nadww02

Diamond PWU 22 6H

API# 30-015-41008
Eddy County, NM
Surface Water Map

Legend

-  5.22 Miles
-  Diamond PWU 22 6H
-  Playa



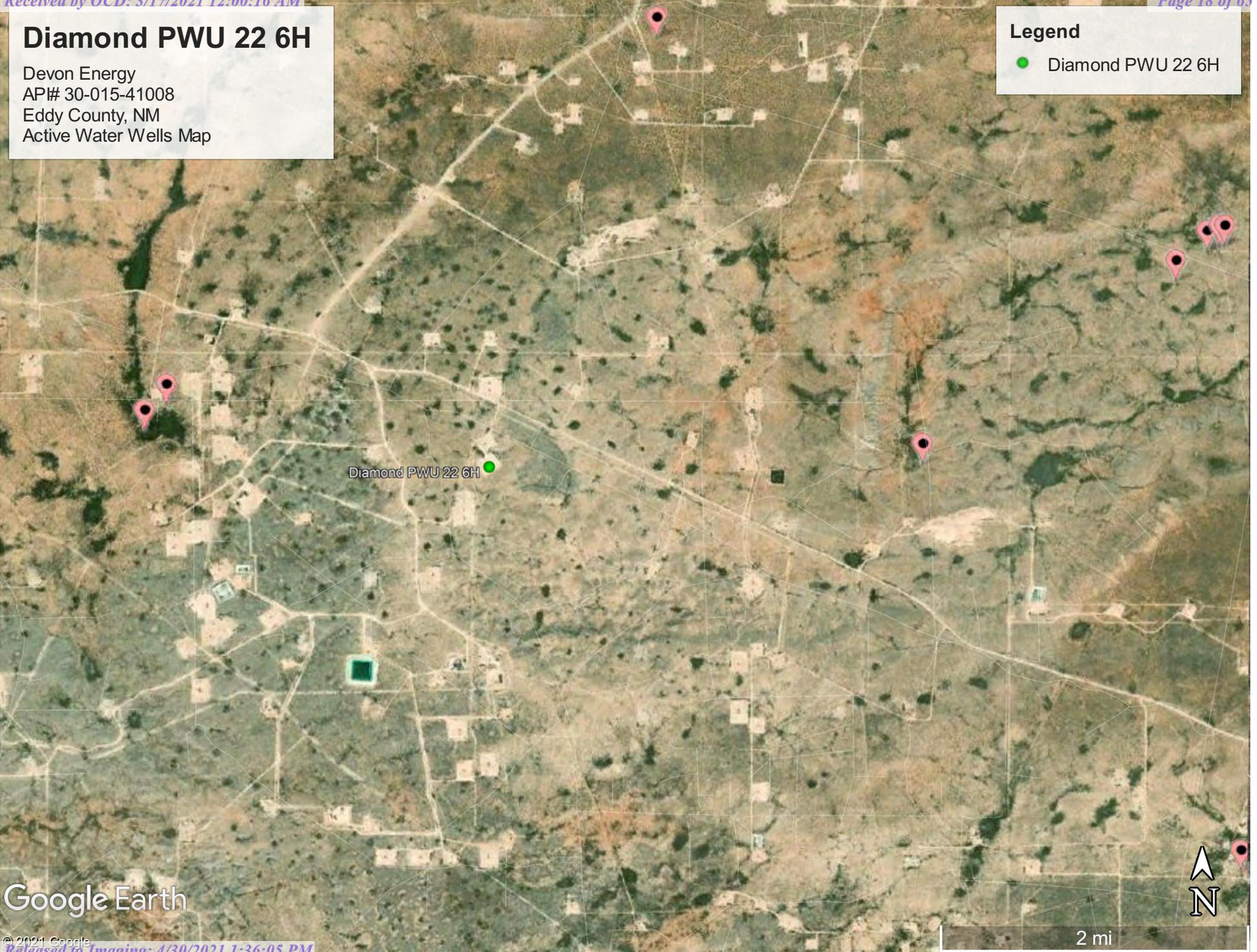
Google Earth

Diamond PWU 22 6H

Devon Energy
API# 30-015-41008
Eddy County, NM
Active Water Wells Map

Legend

- Diamond PWU 22 6H



Google Earth



Pima Environmental Services

Appendix B

Soil Survey & Geological Data

FEMA Flood 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: Hills, plains, ridges
Landform position (two-dimensional): Backslope, footslope, shoulder, toeslope
Landform position (three-dimensional): Crest, nose slope, side slope, head slope
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 capacity: 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: R042XC007NM - Loamy
Hydric soil rating: No

Description of Gypsum Land

Setting

Landform: Hills, plains, ridges
Landform position (two-dimensional): Backslope, footslope, shoulder, toeslope
Landform position (three-dimensional): Crest, nose slope, side slope, head slope
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

Cottonwood

Percent of map unit: 5 percent
Ecological site: R042XC033NM - Salty Bottomland
Hydric soil rating: No

Reagan

Percent of map unit: 5 percent
Ecological site: R042XC007NM - Loamy
Hydric soil rating: No

Largo

Percent of map unit: 5 percent
Ecological site: R042XC007NM - Loamy
Hydric soil rating: No

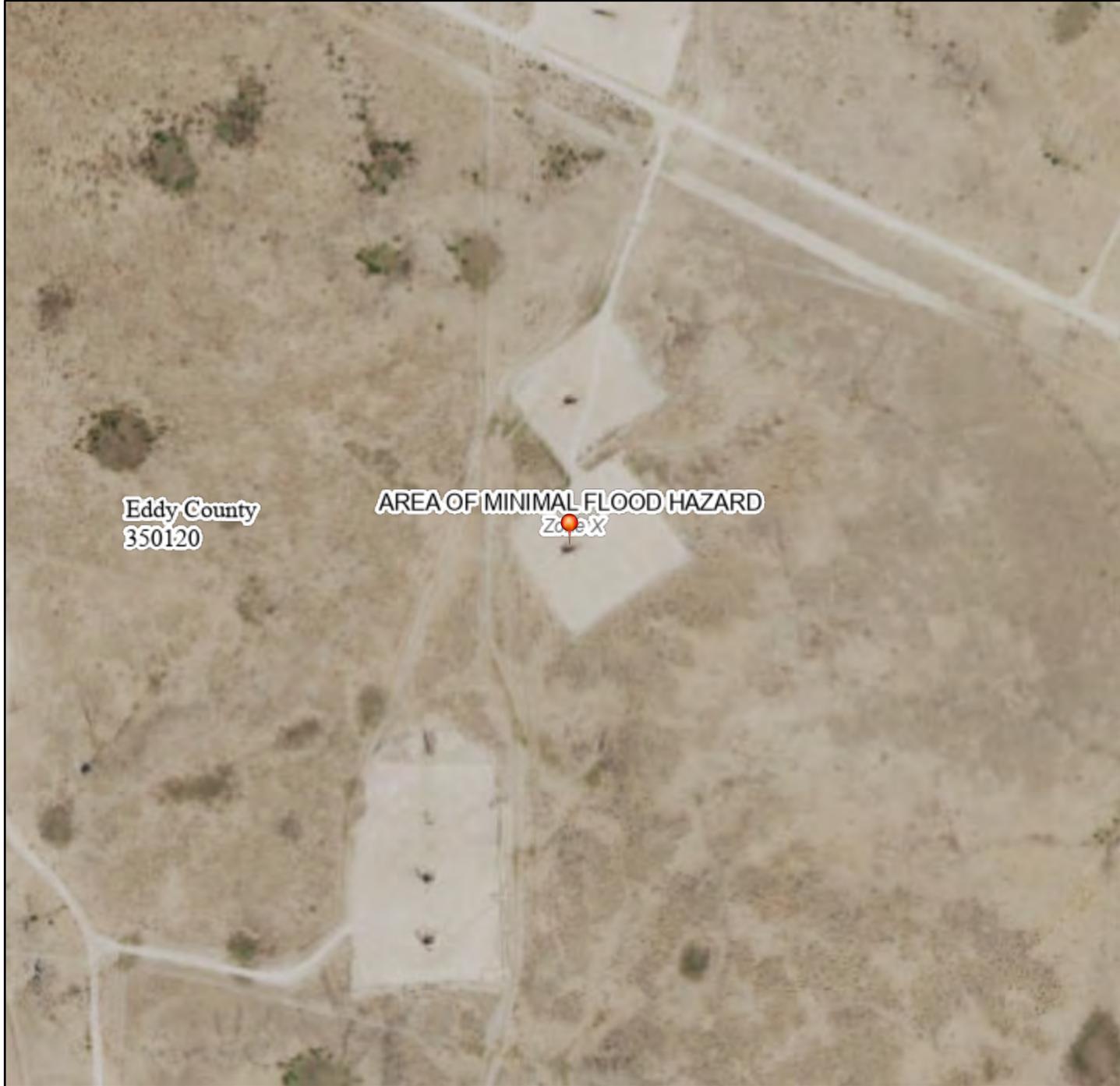
Data Source Information

Soil Survey Area: Eddy Area, New Mexico
Survey Area Data: Version 16, Jun 8, 2020

National Flood Hazard Layer FIRMette



104°4'32"W 32°39'6"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
		17.5 Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
OTHER FEATURES		Coastal Transect Baseline
		Profile Baseline
		Hydrographic Feature

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 2/25/2021 at 5:16 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.



Pima Environmental Services

Appendix C

C-141's:

Initial

Final

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

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

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

Incident ID	NRM2029540644
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party Devon Energy Production Company	OGRID 6137
Contact Name Wesley Mathews	Contact Telephone 575-578-6195
Contact email Wesley.Mathews@dvn.com	Incident # (assigned by OCD)
Contact mailing address 6488 Seven Rivers Hwy	

Location of Release Source

Latitude 32.647459 Longitude -104.070351
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Diamond PWU 22 6H	Site Type Oil
Date Release Discovered 10/5/2020	API# (if applicable) 30-015-41008

Unit Letter	Section	Township	Range	County
E	22	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) 6.06 BBLS	Volume Recovered (bbls) 1 BBL
<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 Pressure gauge failed causing fluid release. All fluid remained on pad.

State of New Mexico
Oil Conservation Division

Incident ID	NRM2029540644
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 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: Spill was not in containment.
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.
Printed Name: <u>Kendra DeHoyos</u> Title: <u>EHS Associate</u> Signature: <u>Kendra DeHoyos</u> Date: <u>10/19/2020</u> email: <u>Kendra.DeHoyos@hotmail.com</u> Telephone: <u>575/748-0167</u>
<u>OCD Only</u> Received by: <u>Ramona Marcus</u> Date: <u>10/21/2020</u>

Incident ID	NRM2029540644
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>51'-100'</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input 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

Page 4

Incident ID	NRM2029540644
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: Wes Mathews Title: EHS Professional

Signature: *Wesley Mathews* Date: 3/16/2021

email: wesley.mathews@dvn.com Telephone: 575-513-8608

OCD Only

Chad Hensley

04/30/2021

Received by: _____ Date: _____

Incident ID	NRM2029540644
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: Wes Mathews Title: EHS Professional
 Signature: *Wesley Mathews* Date: 3/16/2021
 email: wesley.mathews@dvn.com Telephone: 575-513-8608

OCD Only

Received by: Chad Hensley Date: 04/30/2021

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: *Chad Hensley* Date: 04/30/2021
 Printed Name: Chad Hensley Title: Environmental Specialist Advanced



Pima Environmental Services

Appendix D

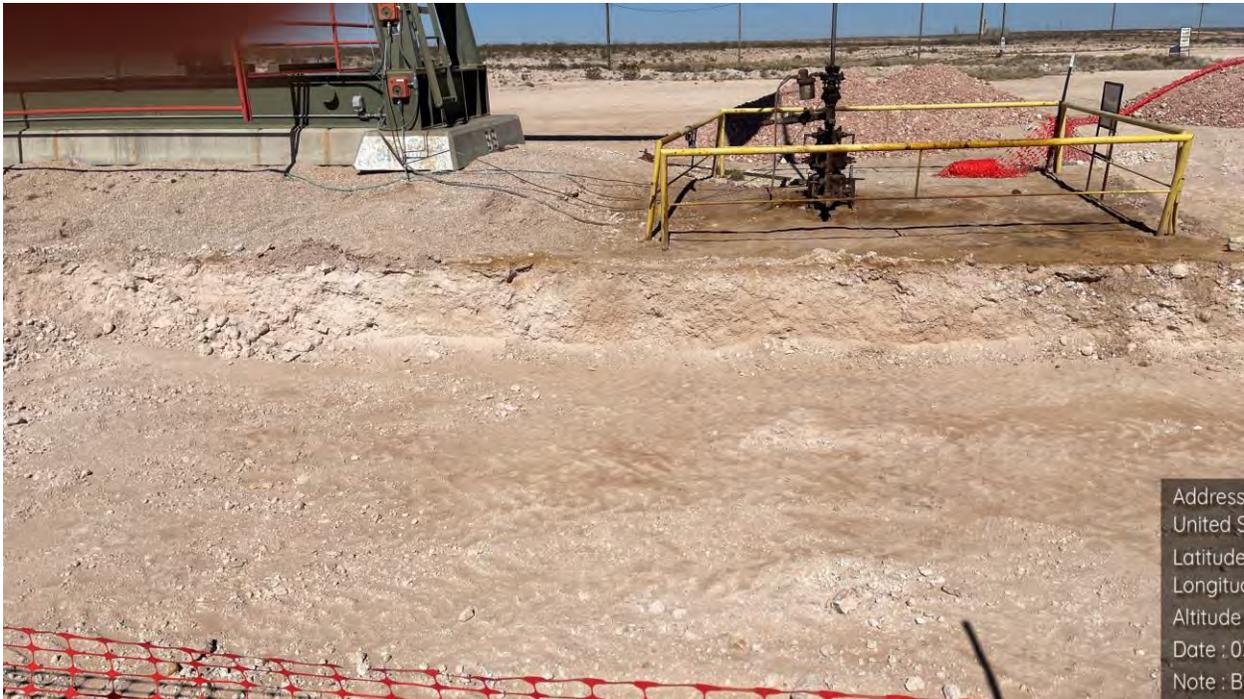
Photographic Documentation















Pima Environmental Services

Appendix E

Laboratory Reports



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

February 24, 2021

CHRIS JONES

PIMA ENVIROMENTAL

1601 N TURNER STE. 500

HOBBS, NM 88240

RE: DIAMOND 22 PMU 6H

Enclosed are the results of analyses for samples received by the laboratory on 02/22/21 15:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

PIMA ENVIROMENTAL
 CHRIS JONES
 1601 N TURNER STE. 500
 HOBBS NM, 88240
 Fax To:

Received:	02/22/2021	Sampling Date:	02/22/2021
Reported:	02/24/2021	Sampling Type:	Soil
Project Name:	DIAMOND 22 PMU 6H	Sampling Condition:	** (See Notes)
Project Number:	#54	Sample Received By:	Tamara Oldaker
Project Location:	DEVON ENERGY - EDDY CO NM		

Sample ID: N - WALL COMP (H210417-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/22/2021	ND	2.06	103	2.00	2.82	
Toluene*	<0.050	0.050	02/22/2021	ND	2.06	103	2.00	2.36	
Ethylbenzene*	<0.050	0.050	02/22/2021	ND	1.99	99.5	2.00	2.95	
Total Xylenes*	<0.150	0.150	02/22/2021	ND	5.78	96.3	6.00	2.49	
Total BTEX	<0.300	0.300	02/22/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	02/23/2021	ND	432	108	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/22/2021	ND	206	103	200	4.95	
DRO >C10-C28*	79.7	10.0	02/22/2021	ND	214	107	200	4.23	
EXT DRO >C28-C36	54.1	10.0	02/22/2021	ND					

Surrogate: 1-Chlorooctane 87.2 % 44.3-144

Surrogate: 1-Chlorooctadecane 96.8 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

PIMA ENVIROMENTAL
 CHRIS JONES
 1601 N TURNER STE. 500
 HOBBS NM, 88240
 Fax To:

Received:	02/22/2021	Sampling Date:	02/22/2021
Reported:	02/24/2021	Sampling Type:	Soil
Project Name:	DIAMOND 22 PMU 6H	Sampling Condition:	** (See Notes)
Project Number:	#54	Sample Received By:	Tamara Oldaker
Project Location:	DEVON ENERGY - EDDY CO NM		

Sample ID: E - WALL COMP (H210417-02)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/22/2021	ND	2.06	103	2.00	2.82	
Toluene*	<0.050	0.050	02/22/2021	ND	2.06	103	2.00	2.36	
Ethylbenzene*	<0.050	0.050	02/22/2021	ND	1.99	99.5	2.00	2.95	
Total Xylenes*	<0.150	0.150	02/22/2021	ND	5.78	96.3	6.00	2.49	
Total BTEX	<0.300	0.300	02/22/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	02/23/2021	ND	432	108	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/22/2021	ND	206	103	200	4.95	
DRO >C10-C28*	<10.0	10.0	02/22/2021	ND	214	107	200	4.23	
EXT DRO >C28-C36	<10.0	10.0	02/22/2021	ND					

Surrogate: 1-Chlorooctane 102 % 44.3-144

Surrogate: 1-Chlorooctadecane 110 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

PIMA ENVIROMENTAL
 CHRIS JONES
 1601 N TURNER STE. 500
 HOBBS NM, 88240
 Fax To:

Received:	02/22/2021	Sampling Date:	02/22/2021
Reported:	02/24/2021	Sampling Type:	Soil
Project Name:	DIAMOND 22 PMU 6H	Sampling Condition:	** (See Notes)
Project Number:	#54	Sample Received By:	Tamara Oldaker
Project Location:	DEVON ENERGY - EDDY CO NM		

Sample ID: S - WALL COMP (H210417-03)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/22/2021	ND	2.06	103	2.00	2.82	
Toluene*	<0.050	0.050	02/22/2021	ND	2.06	103	2.00	2.36	
Ethylbenzene*	<0.050	0.050	02/22/2021	ND	1.99	99.5	2.00	2.95	
Total Xylenes*	<0.150	0.150	02/22/2021	ND	5.78	96.3	6.00	2.49	
Total BTEX	<0.300	0.300	02/22/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	784	16.0	02/23/2021	ND	432	108	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/22/2021	ND	206	103	200	4.95	
DRO >C10-C28*	135	10.0	02/22/2021	ND	214	107	200	4.23	
EXT DRO >C28-C36	36.2	10.0	02/22/2021	ND					

Surrogate: 1-Chlorooctane 101 % 44.3-144

Surrogate: 1-Chlorooctadecane 112 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

PIMA ENVIROMENTAL
 CHRIS JONES
 1601 N TURNER STE. 500
 HOBBS NM, 88240
 Fax To:

Received:	02/22/2021	Sampling Date:	02/22/2021
Reported:	02/24/2021	Sampling Type:	Soil
Project Name:	DIAMOND 22 PMU 6H	Sampling Condition:	** (See Notes)
Project Number:	#54	Sample Received By:	Tamara Oldaker
Project Location:	DEVON ENERGY - EDDY CO NM		

Sample ID: W - WALL COMP (H210417-04)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/22/2021	ND	2.06	103	2.00	2.82	
Toluene*	<0.050	0.050	02/22/2021	ND	2.06	103	2.00	2.36	
Ethylbenzene*	<0.050	0.050	02/22/2021	ND	1.99	99.5	2.00	2.95	
Total Xylenes*	<0.150	0.150	02/22/2021	ND	5.78	96.3	6.00	2.49	
Total BTEX	<0.300	0.300	02/22/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/23/2021	ND	432	108	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/23/2021	ND	206	103	200	4.95	
DRO >C10-C28*	32.9	10.0	02/23/2021	ND	214	107	200	4.23	
EXT DRO >C28-C36	12.8	10.0	02/23/2021	ND					

Surrogate: 1-Chlorooctane 103 % 44.3-144

Surrogate: 1-Chlorooctadecane 111 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

PIMA ENVIROMENTAL
 CHRIS JONES
 1601 N TURNER STE. 500
 HOBBS NM, 88240
 Fax To:

Received:	02/22/2021	Sampling Date:	02/19/2021
Reported:	02/24/2021	Sampling Type:	Soil
Project Name:	DIAMOND 22 PMU 6H	Sampling Condition:	** (See Notes)
Project Number:	#54	Sample Received By:	Tamara Oldaker
Project Location:	DEVON ENERGY - EDDY CO NM		

Sample ID: BOTTOM COMP (H210417-05)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/23/2021	ND	2.04	102	2.00	0.735	
Toluene*	<0.050	0.050	02/23/2021	ND	1.98	99.1	2.00	1.95	
Ethylbenzene*	<0.050	0.050	02/23/2021	ND	1.92	96.0	2.00	0.851	
Total Xylenes*	<0.150	0.150	02/23/2021	ND	5.62	93.6	6.00	0.465	
Total BTEX	<0.300	0.300	02/23/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	02/23/2021	ND	432	108	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/23/2021	ND	212	106	200	2.24	
DRO >C10-C28*	<10.0	10.0	02/23/2021	ND	221	110	200	2.52	
EXT DRO >C28-C36	<10.0	10.0	02/23/2021	ND					

Surrogate: 1-Chlorooctane 99.8 % 44.3-144

Surrogate: 1-Chlorooctadecane 107 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCS/D recovery and/or RPD values.
ND Analyte NOT DETECTED at or above the reporting limit
RPD Relative Percent Difference
** Samples not received at proper temperature of 6°C or below.
*** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

Company Name: Pine Environmental
Project Manager: Tom Byron
Address: 1601 N Turner ste 500
City: Hobbs State: NM Zip: 88240
Phone #: 575-964-7740 Fax #:
Project #: 54 Project Owner:
Project Name: Diamond PWU 22
Project Location: Eddy NM
Sampler Name: Tristan Jones

Table with columns: Lab I.D., Sample I.D., MATRIX (GROUNDWATER, WASTEWATER, SOIL, OIL, SLUDGE, OTHER), PRESERV., SAMPLING (DATE, TIME), and analysis results (TPH, EXT, BTEX, Chlorides).

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses.

Relinquished By: Date: 2-22-21 Time: 1535 Received By: [Signature] Verbal Result: [] Yes [] No Add'l Phone #: All Results are emailed. Please provide Email address: REMARKS: Turnaround Time: Standard [] Rush [x] Bacteria (only) Sample Condition Cool Intact Observed Temp. °C

FORM-008 R 3.1 06/04/20

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

March 04, 2021

CHRIS JONES

PIMA ENVIROMENTAL

1601 N TURNER STE. 500

HOBBS, NM 88240

RE: DIAMOND PWU 22 6H

Enclosed are the results of analyses for samples received by the laboratory on 03/02/21 16:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Total Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

PIMA ENVIROMENTAL 1601 N TURNER STE. 500 HOBBS NM, 88240	Project: DIAMOND PWU 22 6H Project Number: NOT GIVEN Project Manager: CHRIS JONES Fax To:	Reported: 04-Mar-21 15:25
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Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S / 2 - BOTTOM	H210504-01	Soil	26-Feb-21 14:00	02-Mar-21 16:15
S / 3 - BOTTOM	H210504-02	Soil	26-Feb-21 14:10	02-Mar-21 16:15
S / 4 - BOTTOM	H210504-03	Soil	26-Feb-21 14:20	02-Mar-21 16:15
S / 5 - BOTTOM	H210504-04	Soil	26-Feb-21 14:30	02-Mar-21 16:15
S / 6 - BOTTOM	H210504-05	Soil	26-Feb-21 14:40	02-Mar-21 16:15
S / 7 - BOTTOM	H210504-06	Soil	26-Feb-21 14:50	02-Mar-21 16:15
S / 8 - BOTTOM	H210504-07	Soil	26-Feb-21 15:00	02-Mar-21 16:15
S / 9 - BOTTOM	H210504-08	Soil	26-Feb-21 15:10	02-Mar-21 16:15

03/04/21 - Client changed the project name. This is the revised report and will replace the one sent earlier 03/04/21.

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

PIMA ENVIROMENTAL 1601 N TURNER STE. 500 HOBBS NM, 88240	Project: DIAMOND PWU 22 6H Project Number: NOT GIVEN Project Manager: CHRIS JONES Fax To:	Reported: 04-Mar-21 15:25
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**S / 2 - BOTTOM
 H210504-01 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	80.0		16.0	mg/kg	4	1030311	GM	03-Mar-21	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1030306	ms	03-Mar-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1030306	ms	03-Mar-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1030306	ms	03-Mar-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1030306	ms	03-Mar-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1030306	ms	03-Mar-21	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			111 %		73.3-129	1030306	ms	03-Mar-21	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1030302	MS	03-Mar-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1030302	MS	03-Mar-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1030302	MS	03-Mar-21	8015B	

<i>Surrogate: 1-Chlorooctane</i>			81.1 %		44.3-144	1030302	MS	03-Mar-21	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			81.5 %		42.2-156	1030302	MS	03-Mar-21	8015B	
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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

PIMA ENVIROMENTAL 1601 N TURNER STE. 500 HOBBS NM, 88240	Project: DIAMOND PWU 22 6H Project Number: NOT GIVEN Project Manager: CHRIS JONES Fax To:	Reported: 04-Mar-21 15:25
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S / 3 - BOTTOM

H210504-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	96.0		16.0	mg/kg	4	1030311	GM	03-Mar-21	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1030306	ms	03-Mar-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1030306	ms	03-Mar-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1030306	ms	03-Mar-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1030306	ms	03-Mar-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1030306	ms	03-Mar-21	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			108 %	73.3-129		1030306	ms	03-Mar-21	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1030302	MS	03-Mar-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1030302	MS	03-Mar-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1030302	MS	03-Mar-21	8015B	

<i>Surrogate: 1-Chlorooctane</i>			80.2 %	44.3-144		1030302	MS	03-Mar-21	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			81.0 %	42.2-156		1030302	MS	03-Mar-21	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

PIMA ENVIROMENTAL 1601 N TURNER STE. 500 HOBBS NM, 88240	Project: DIAMOND PWU 22 6H Project Number: NOT GIVEN Project Manager: CHRIS JONES Fax To:	Reported: 04-Mar-21 15:25
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S / 4 - BOTTOM

H210504-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	96.0		16.0	mg/kg	4	1030311	GM	03-Mar-21	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1030306	ms	03-Mar-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1030306	ms	03-Mar-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1030306	ms	03-Mar-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1030306	ms	03-Mar-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1030306	ms	03-Mar-21	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			108 %	73.3-129		1030306	ms	03-Mar-21	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1030302	MS	03-Mar-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1030302	MS	03-Mar-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1030302	MS	03-Mar-21	8015B	

<i>Surrogate: 1-Chlorooctane</i>			84.3 %	44.3-144		1030302	MS	03-Mar-21	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			84.2 %	42.2-156		1030302	MS	03-Mar-21	8015B	
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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

PIMA ENVIROMENTAL 1601 N TURNER STE. 500 HOBBS NM, 88240	Project: DIAMOND PWU 22 6H Project Number: NOT GIVEN Project Manager: CHRIS JONES Fax To:	Reported: 04-Mar-21 15:25
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S / 5 - BOTTOM

H210504-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	80.0		16.0	mg/kg	4	1030311	GM	03-Mar-21	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1030306	ms	03-Mar-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1030306	ms	03-Mar-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1030306	ms	03-Mar-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1030306	ms	03-Mar-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1030306	ms	03-Mar-21	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			108 %		73.3-129	1030306	ms	03-Mar-21	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1030302	MS	03-Mar-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1030302	MS	03-Mar-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1030302	MS	03-Mar-21	8015B	

<i>Surrogate: 1-Chlorooctane</i>			79.2 %		44.3-144	1030302	MS	03-Mar-21	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			79.7 %		42.2-156	1030302	MS	03-Mar-21	8015B	
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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

PIMA ENVIROMENTAL 1601 N TURNER STE. 500 HOBBS NM, 88240	Project: DIAMOND PWU 22 6H Project Number: NOT GIVEN Project Manager: CHRIS JONES Fax To:	Reported: 04-Mar-21 15:25
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S / 6 - BOTTOM

H210504-05 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	96.0		16.0	mg/kg	4	1030311	GM	03-Mar-21	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1030306	ms	03-Mar-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1030306	ms	03-Mar-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1030306	ms	03-Mar-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1030306	ms	03-Mar-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1030306	ms	03-Mar-21	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			109 %	73.3-129		1030306	ms	03-Mar-21	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1030302	MS	03-Mar-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1030302	MS	03-Mar-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1030302	MS	03-Mar-21	8015B	

<i>Surrogate: 1-Chlorooctane</i>			82.1 %	44.3-144		1030302	MS	03-Mar-21	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			81.9 %	42.2-156		1030302	MS	03-Mar-21	8015B	
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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

PIMA ENVIROMENTAL 1601 N TURNER STE. 500 HOBBS NM, 88240	Project: DIAMOND PWU 22 6H Project Number: NOT GIVEN Project Manager: CHRIS JONES Fax To:	Reported: 04-Mar-21 15:25
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S / 7 - BOTTOM

H210504-06 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	64.0		16.0	mg/kg	4	1030311	GM	03-Mar-21	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1030306	ms	03-Mar-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1030306	ms	03-Mar-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1030306	ms	03-Mar-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1030306	ms	03-Mar-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1030306	ms	03-Mar-21	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			107 %		73.3-129	1030306	ms	03-Mar-21	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1030302	MS	03-Mar-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1030302	MS	03-Mar-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1030302	MS	03-Mar-21	8015B	

<i>Surrogate: 1-Chlorooctane</i>			85.8 %		44.3-144	1030302	MS	03-Mar-21	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			86.1 %		42.2-156	1030302	MS	03-Mar-21	8015B	
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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

PIMA ENVIROMENTAL 1601 N TURNER STE. 500 HOBBS NM, 88240	Project: DIAMOND PWU 22 6H Project Number: NOT GIVEN Project Manager: CHRIS JONES Fax To:	Reported: 04-Mar-21 15:25
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S / 8 - BOTTOM

H210504-07 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	144		16.0	mg/kg	4	1030311	GM	03-Mar-21	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1030306	ms	03-Mar-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1030306	ms	03-Mar-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1030306	ms	03-Mar-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1030306	ms	03-Mar-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1030306	ms	03-Mar-21	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			108 %		73.3-129	1030306	ms	03-Mar-21	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1030302	MS	03-Mar-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1030302	MS	03-Mar-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1030302	MS	03-Mar-21	8015B	

<i>Surrogate: 1-Chlorooctane</i>			82.2 %		44.3-144	1030302	MS	03-Mar-21	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			82.4 %		42.2-156	1030302	MS	03-Mar-21	8015B	
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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

PIMA ENVIROMENTAL 1601 N TURNER STE. 500 HOBBS NM, 88240	Project: DIAMOND PWU 22 6H Project Number: NOT GIVEN Project Manager: CHRIS JONES Fax To:	Reported: 04-Mar-21 15:25
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S / 9 - BOTTOM

H210504-08 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	80.0		16.0	mg/kg	4	1030311	GM	03-Mar-21	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1030306	ms	03-Mar-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1030306	ms	03-Mar-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1030306	ms	03-Mar-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1030306	ms	03-Mar-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1030306	ms	03-Mar-21	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			108 %	73.3-129		1030306	ms	03-Mar-21	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1030302	MS	03-Mar-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1030302	MS	03-Mar-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1030302	MS	03-Mar-21	8015B	

<i>Surrogate: 1-Chlorooctane</i>			82.0 %	44.3-144		1030302	MS	03-Mar-21	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			83.2 %	42.2-156		1030302	MS	03-Mar-21	8015B	
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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

PIMA ENVIROMENTAL 1601 N TURNER STE. 500 HOBBS NM, 88240	Project: DIAMOND PWU 22 6H Project Number: NOT GIVEN Project Manager: CHRIS JONES Fax To:	Reported: 04-Mar-21 15:25
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Inorganic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1030311 - 1:4 DI Water										
Blank (1030311-BLK1)										
Prepared & Analyzed: 03-Mar-21										
Chloride	ND	16.0	mg/kg							
LCS (1030311-BS1)										
Prepared & Analyzed: 03-Mar-21										
Chloride	416	16.0	mg/kg	400		104	80-120			
LCS Dup (1030311-BSD1)										
Prepared & Analyzed: 03-Mar-21										
Chloride	400	16.0	mg/kg	400		100	80-120	3.92	20	

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PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

PIMA ENVIROMENTAL 1601 N TURNER STE. 500 HOBBS NM, 88240	Project: DIAMOND PWU 22 6H Project Number: NOT GIVEN Project Manager: CHRIS JONES Fax To:	Reported: 04-Mar-21 15:25
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Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1030306 - Volatiles

Blank (1030306-BLK1)

Prepared & Analyzed: 03-Mar-21

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0541		mg/kg	0.0500		108	73.3-129			

LCS (1030306-BS1)

Prepared & Analyzed: 03-Mar-21

Benzene	1.98	0.050	mg/kg	2.00		98.8	72.2-131			
Toluene	2.07	0.050	mg/kg	2.00		104	71.7-126			
Ethylbenzene	2.08	0.050	mg/kg	2.00		104	68.9-126			
Total Xylenes	6.42	0.150	mg/kg	6.00		107	71.4-125			
Surrogate: 4-Bromofluorobenzene (PID)	0.0519		mg/kg	0.0500		104	73.3-129			

LCS Dup (1030306-BSD1)

Prepared & Analyzed: 03-Mar-21

Benzene	1.99	0.050	mg/kg	2.00		99.6	72.2-131	0.807	14.6	
Toluene	2.07	0.050	mg/kg	2.00		103	71.7-126	0.106	17.4	
Ethylbenzene	2.06	0.050	mg/kg	2.00		103	68.9-126	0.727	18.9	
Total Xylenes	6.36	0.150	mg/kg	6.00		106	71.4-125	0.968	18.5	
Surrogate: 4-Bromofluorobenzene (PID)	0.0520		mg/kg	0.0500		104	73.3-129			

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

PIMA ENVIROMENTAL 1601 N TURNER STE. 500 HOBBS NM, 88240	Project: DIAMOND PWU 22 6H Project Number: NOT GIVEN Project Manager: CHRIS JONES Fax To:	Reported: 04-Mar-21 15:25
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Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1030302 - General Prep - Organics

Blank (1030302-BLK1)			Prepared & Analyzed: 03-Mar-21							
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	44.8		mg/kg	50.0		89.5	44.3-144			
Surrogate: 1-Chlorooctadecane	46.6		mg/kg	50.0		93.2	42.2-156			

LCS (1030302-BS1)			Prepared & Analyzed: 03-Mar-21							
GRO C6-C10	202	10.0	mg/kg	200		101	83.7-135			
DRO >C10-C28	213	10.0	mg/kg	200		107	80.4-133			
Total TPH C6-C28	415	10.0	mg/kg	400		104	83.1-133			
Surrogate: 1-Chlorooctane	49.5		mg/kg	50.0		99.0	44.3-144			
Surrogate: 1-Chlorooctadecane	49.0		mg/kg	50.0		98.1	42.2-156			

LCS Dup (1030302-BSD1)			Prepared & Analyzed: 03-Mar-21							
GRO C6-C10	214	10.0	mg/kg	200		107	83.7-135	6.12	13.8	
DRO >C10-C28	222	10.0	mg/kg	200		111	80.4-133	3.91	22.1	
Total TPH C6-C28	436	10.0	mg/kg	400		109	83.1-133	4.99	17.7	
Surrogate: 1-Chlorooctane	48.1		mg/kg	50.0		96.3	44.3-144			
Surrogate: 1-Chlorooctadecane	47.5		mg/kg	50.0		95.0	42.2-156			

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

Form containing company name (Pima Environmental), project manager (Tom Byrum), address (1601 N. Turner St SW, Hobbs, NM 88240), project name (Diamond Feet #3 - PWU 226H), and a table for lab use with columns for Lab I.D., Sample I.D., Matrix, Preserv., and Sampling. Includes handwritten entries for sample IDs 1-8 and sampling times.

Form containing release information: Relinquished By (signature), Date (3/2/21), Received By (signature), Verbal Result (Yes/No), and Remarks (* Project name revised as per Tom. 3/1/21 de). Includes checkboxes for sample condition and bacteria.

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsonm.com



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

March 10, 2021

TOM BYNUM

PIMA ENVIROMENTAL

1601 N TURNER STE. 500

HOBBS, NM 88240

RE: DIAMOND PWU 22 6H

Enclosed are the results of analyses for samples received by the laboratory on 03/08/21 11:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

PIMA ENVIROMENTAL
 TOM BYNUM
 1601 N TURNER STE. 500
 HOBBS NM, 88240
 Fax To:

Received:	03/08/2021	Sampling Date:	03/05/2021
Reported:	03/10/2021	Sampling Type:	Soil
Project Name:	DIAMOND PWU 22 6H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	DEVON ENERGY - EDDY CO NM		

Sample ID: SW (H210552-01)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/09/2021	ND	1.94	96.9	2.00	3.83	
Toluene*	<0.050	0.050	03/09/2021	ND	2.05	102	2.00	1.60	
Ethylbenzene*	<0.050	0.050	03/09/2021	ND	2.05	102	2.00	2.20	
Total Xylenes*	<0.150	0.150	03/09/2021	ND	6.44	107	6.00	2.14	
Total BTEX	<0.300	0.300	03/09/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 73.3-129

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/09/2021	ND	188	93.8	200	0.797	
DRO >C10-C28*	<10.0	10.0	03/09/2021	ND	223	112	200	3.11	
EXT DRO >C28-C36	<10.0	10.0	03/09/2021	ND					

Surrogate: 1-Chlorooctane 94.4 % 44.3-144

Surrogate: 1-Chlorooctadecane 91.2 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

PIMA ENVIROMENTAL
 TOM BYNUM
 1601 N TURNER STE. 500
 HOBBS NM, 88240
 Fax To:

Received:	03/08/2021	Sampling Date:	03/05/2021
Reported:	03/10/2021	Sampling Type:	Soil
Project Name:	DIAMOND PWU 22 6H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	DEVON ENERGY - EDDY CO NM		

Sample ID: NW (H210552-02)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/09/2021	ND	1.94	96.9	2.00	3.83	
Toluene*	<0.050	0.050	03/09/2021	ND	2.05	102	2.00	1.60	
Ethylbenzene*	<0.050	0.050	03/09/2021	ND	2.05	102	2.00	2.20	
Total Xylenes*	<0.150	0.150	03/09/2021	ND	6.44	107	6.00	2.14	
Total BTEX	<0.300	0.300	03/09/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 73.3-129

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/09/2021	ND	188	93.8	200	0.797	
DRO >C10-C28*	<10.0	10.0	03/09/2021	ND	223	112	200	3.11	
EXT DRO >C28-C36	<10.0	10.0	03/09/2021	ND					

Surrogate: 1-Chlorooctane 93.4 % 44.3-144

Surrogate: 1-Chlorooctadecane 91.7 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCS/D recovery and/or RPD values.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

Company Name: Pima Environmental
Project Manager: Tom Bynum
Address: 1601 N. Turner Ste 500
City: Hobbs State: NM Zip: 88240
Phone #: 580-748-1613 Fax #:
Project #: Project Owner: Devon
Project Name: Diamond PWW 226H
Project Location: Eddy
Sampler Name: Gio
BILL TO: P.O. #: 20930265
Company: Devon
Attn: Wes Mathew
ANALYSIS REQUEST: BTEX, TPH EXT

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses.

Relinquished By: [Signature] Date: 3/18/21
Received By: [Signature] Date: 3/18/21
Observed Temp. °C: 4.4
Sample Condition: Cool Intact [X] Yes [] No
CHECKED BY: [Signature]
Turnaround Time: Standard [X] Rush []
Bacteria (only) Cool Intact [X] Yes [] No

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

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 20990

CONDITIONS OF APPROVAL

Operator: PIMA ENVIRONMENTAL SERVICES, L Suite 500 Hobbs, NM88240	1601 N. Turner	OGRID: 329999	Action Number: 20990	Action Type: C-141
OCD Reviewer chensley		Condition None		