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

June 3, 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 #11H
API No. 30-015-42809
GPS: Latitude 32.645343 Longitude -104.071826
UL "I", Sec. 21, T19S, R29E
Eddy County, NM
NMOCD Ref. No. NAPP2105355033
Pima Project No.: 1-73

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/produced water release that occurred at the Diamond PWU 22 #11H (Diamond). The initial C-141 was submitted on February 17th, 2021 (Appendix C). This incident was assigned Incident ID NAPP2105355033, 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 I, Section 21, Township 19S, Range 29E, Latitude 32.645343, Longitude -104.071826, 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 area of the Diamond (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 between 50 and 100 feet BGS. The closest waterway and is a playa located approximately 5.15 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
High Karst	600 mg/kg	100 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 Topographic Map.

Release Information

NAPP2105355033: On February 16th, 2021, ice had built up in the Baird valve causing the well to pressure up, which caused fluid to release out of the stuffing box packing. The release affected the wellpad and pasture to the north and northwest of the wellhead. The released fluids were calculated to be approximately 30 barrels (bbls) of oil and 30 bbls of produced water. Approximately 40 bbls of total fluid was recovered via vacuum truck.

Site Assessment and Soil Sampling Results

On February 22nd, 2021, Pima Environmental conducted a site assessment and obtained soil samples to get a more in-depth picture of the vertical and horizontal extent of the contamination. Laboratory results of this sampling event can be found in the following data table.

2-22-21 Soil Sample Results

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is 51-100')								
Sample Date 2-22-21		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
BG-1	0	ND	ND	ND	ND	ND	ND	ND
BG-2	0	ND	ND	ND	ND	ND	ND	ND
S1	0-6"	**64**	**1.1**	**1500**	**15000**	**5500**	**22065**	**5000**
	1'	ND	ND	ND	**530**	**330**	**860**	**3600**
S2	0-6"	**34**	**0.11**	**910**	**15000**	**6400**	**22344**	**3600**
S3	0-6"	**0.18**	ND	**5.5**	**3100**	**1900**	**5006**	**1400**
	1'	ND	ND	ND	35	ND	35	97
	2'	ND	ND	ND	32	ND	32	82
	3'	ND	ND	ND	39	ND	39	85
S4	0-6"	ND	ND	ND	**1700**	**960**	**2660**	**780**
S5	0-6"	ND	ND	ND	**290**	**190**	**480**	**920**
	1'	ND	ND	ND	62	ND	62	220
S6	0-6"	ND	ND	ND	**370**	**240**	**610**	**670**
S7	0-6"	ND	ND	ND	**230**	**150**	**380**	480
	1'	ND	ND	ND	56	ND	56	110
S8	0-6"	ND	ND	ND	49	ND	49	140

ND- Analyte Not Detected

Remediation Activities

On March 17th, 2021, Pima mobilized personnel and equipment to conduct remedial activities. We tilled and worked the entire affected area on the pad to a depth of 12"-18", then treated with a bio-remediation chemical solution. This process was repeated twice more to make sure all the contaminated soil could be neutralized with this treatment. The pasture that was affected by an overspray was treated topically with a bio-remediation chemical solution. Photographic documentation can be found in Appendix D.

On March 19th, 2021, Pima returned to the site to complete the delineation process. The laboratory results of this sampling event can be found in the following data table.

3-19-21 Soil Sample Results

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is >100')								
Devon Energy - Diamond PWU 22 #11H								
Date 3-19-21		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	ND	ND	0	--
S Wall	1	ND	ND	ND	ND	ND	0	--
E Wall-1	1	ND	ND	ND	ND	ND	0	--
E Wall-2	1	ND	ND	ND	ND	ND	0	--
W Wall-1	1	ND	ND	ND	ND	ND	0	--
W Wall-2	1	ND	ND	ND	ND	ND	0	--

ND- Analyte Not Detected

On May 21st, 2021, after sending a 48-hour notification, Pima returned to the site to collect confirmation samples of the treated areas. The confirmation lab results can be found in the following table. Figure 5 references a confirmation site map.

5-21-21 Confirmation Soil Sample Results

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is 50')								
DEVON ENERGY - Diamond PWU 22 #11H								
Date 5/21/21		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
CS-1	1'	ND	ND	ND	ND	ND	ND	ND
CS-2	6"	ND	ND	ND	ND	ND	ND	ND
CS-3	6"	ND	ND	ND	ND	ND	ND	ND
CS-4	6"	ND	ND	ND	ND	ND	ND	ND
CS-5	6"	ND	ND	ND	ND	ND	ND	19
CS-6	6"	ND	0.00203	ND	ND	ND	ND	7.72
CS-7	6"	ND	ND	ND	ND	ND	ND	5.73
CS-8	0-6"	ND	ND	ND	ND	ND	ND	ND
CS-9	0-6"	ND	ND	ND	ND	ND	ND	6.14
CS-10	0-6"	ND	ND	ND	ND	ND	ND	ND

ND – Analyte Not Detected

Complete Laboratory Reports can be found in Appendix E.

Closure Request

After careful review, Pima requests that this incident, NAPP2105355033, 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

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 Reports

Pima Environmental Services

Figures:

1 - Location Map

2 - Topo Map

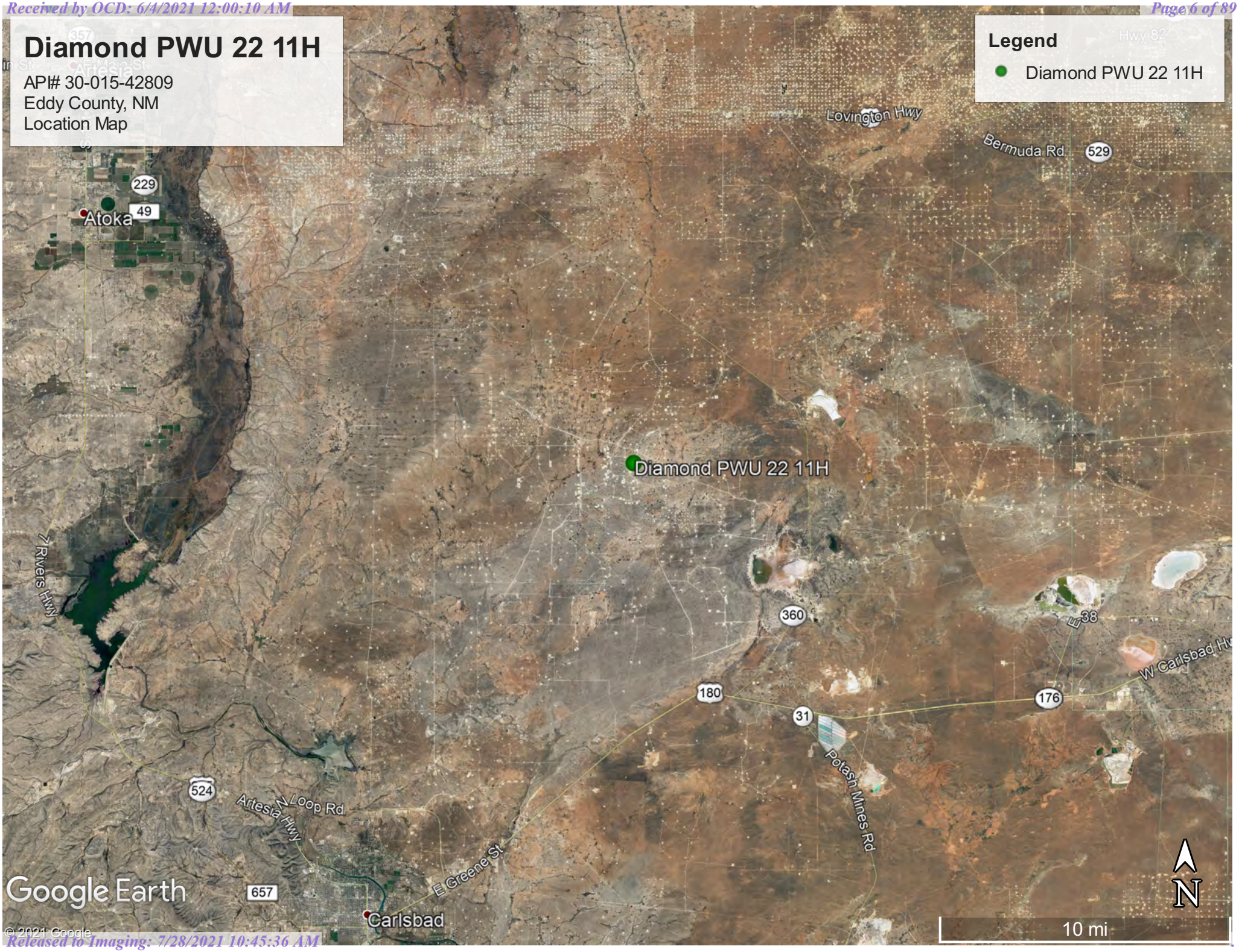
3 - Karst Map

4 - Site Map

5 – Confirmation Site Map

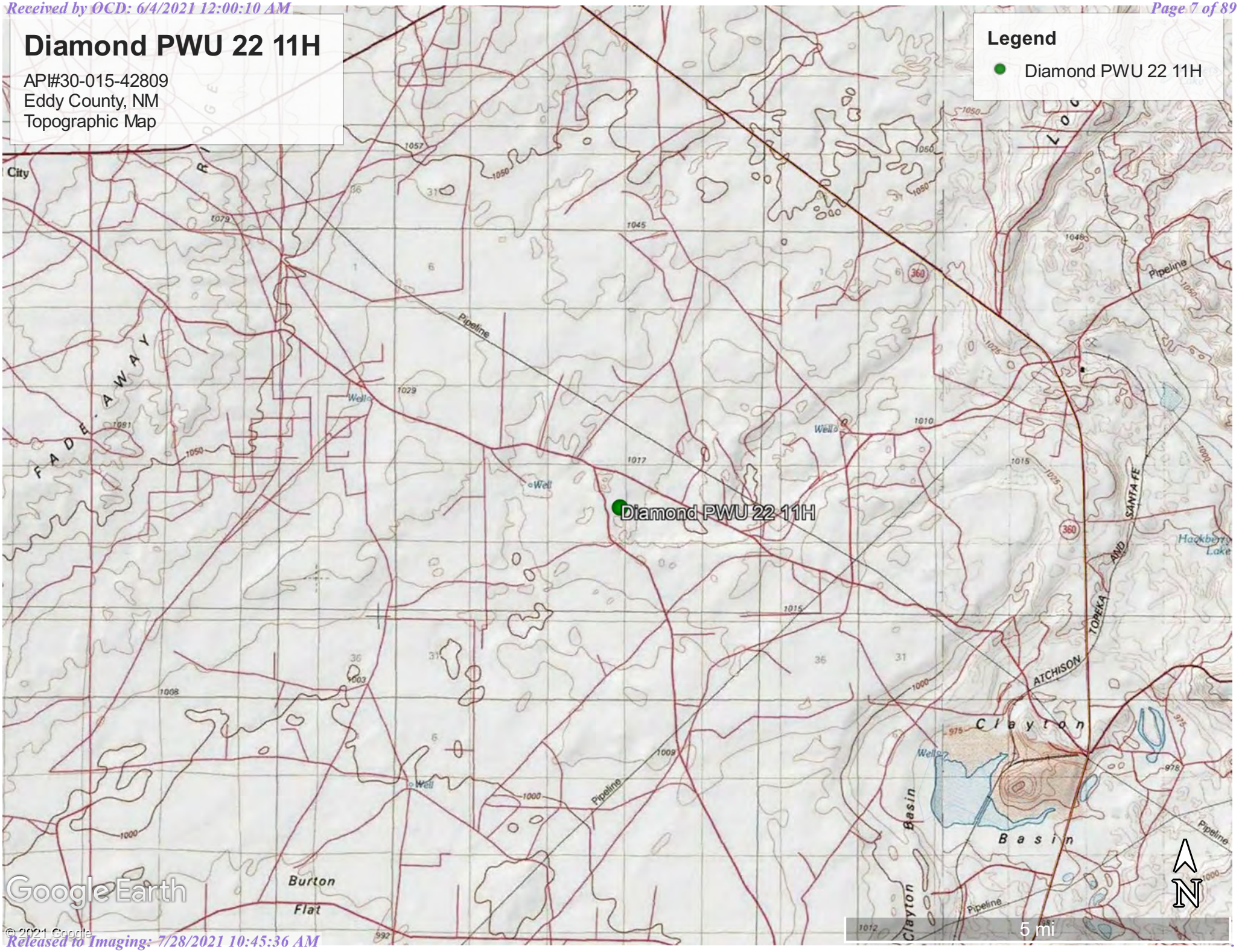
Diamond PWU 22 11H

API# 30-015-42809
Eddy County, NM
Location Map



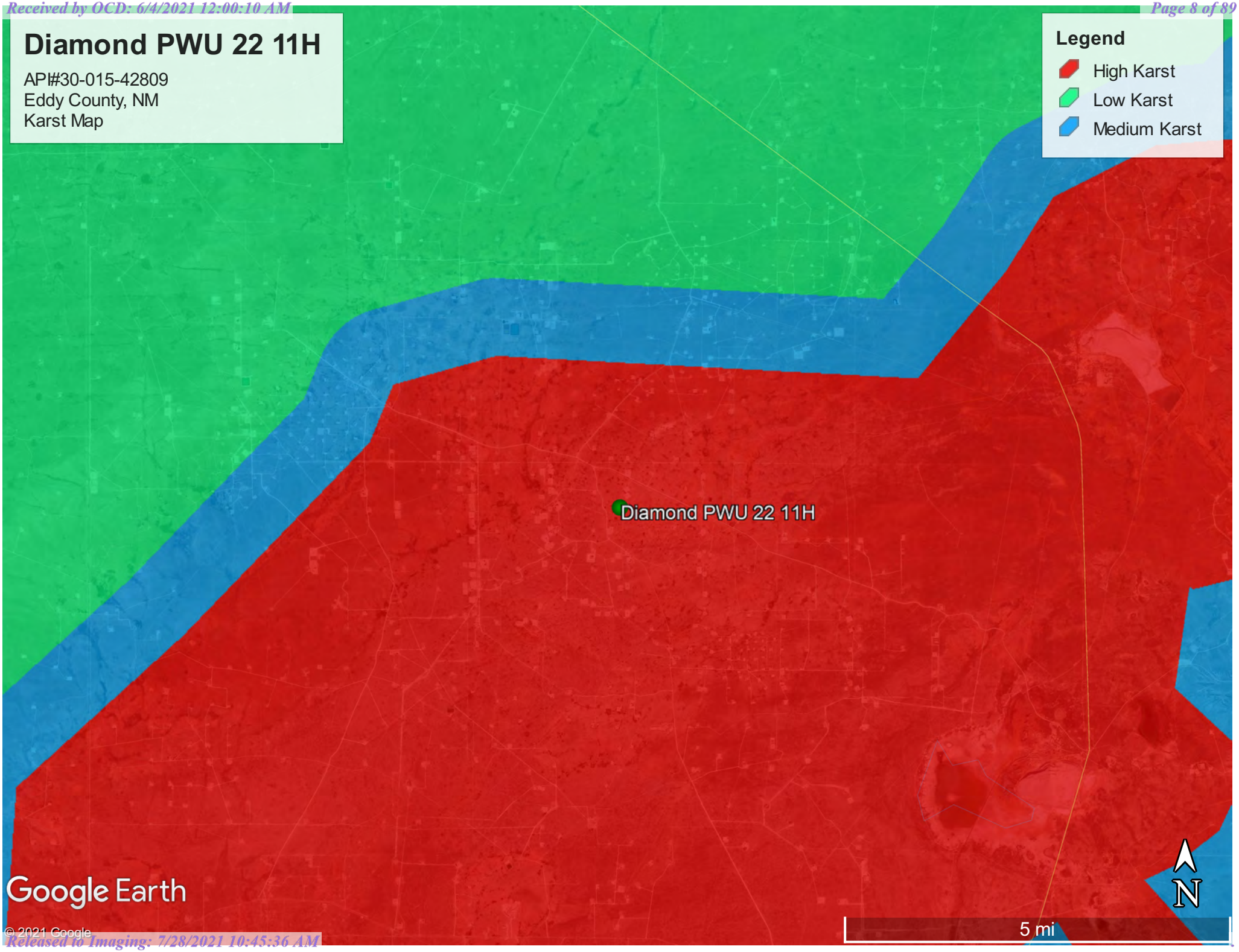
Diamond PWU 22 11H

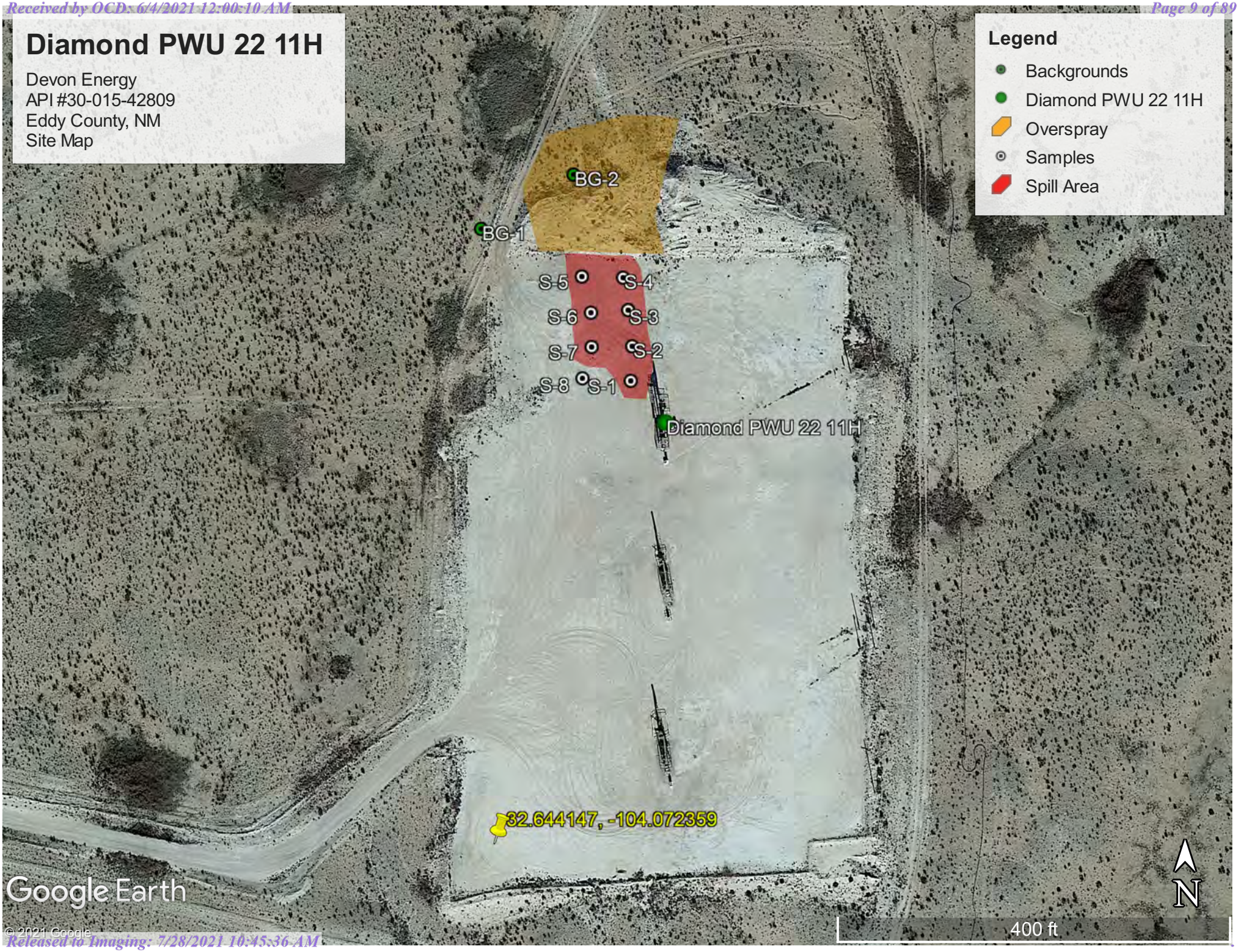
API#30-015-42809
Eddy County, NM
Topographic Map



Diamond PWU 22 11H

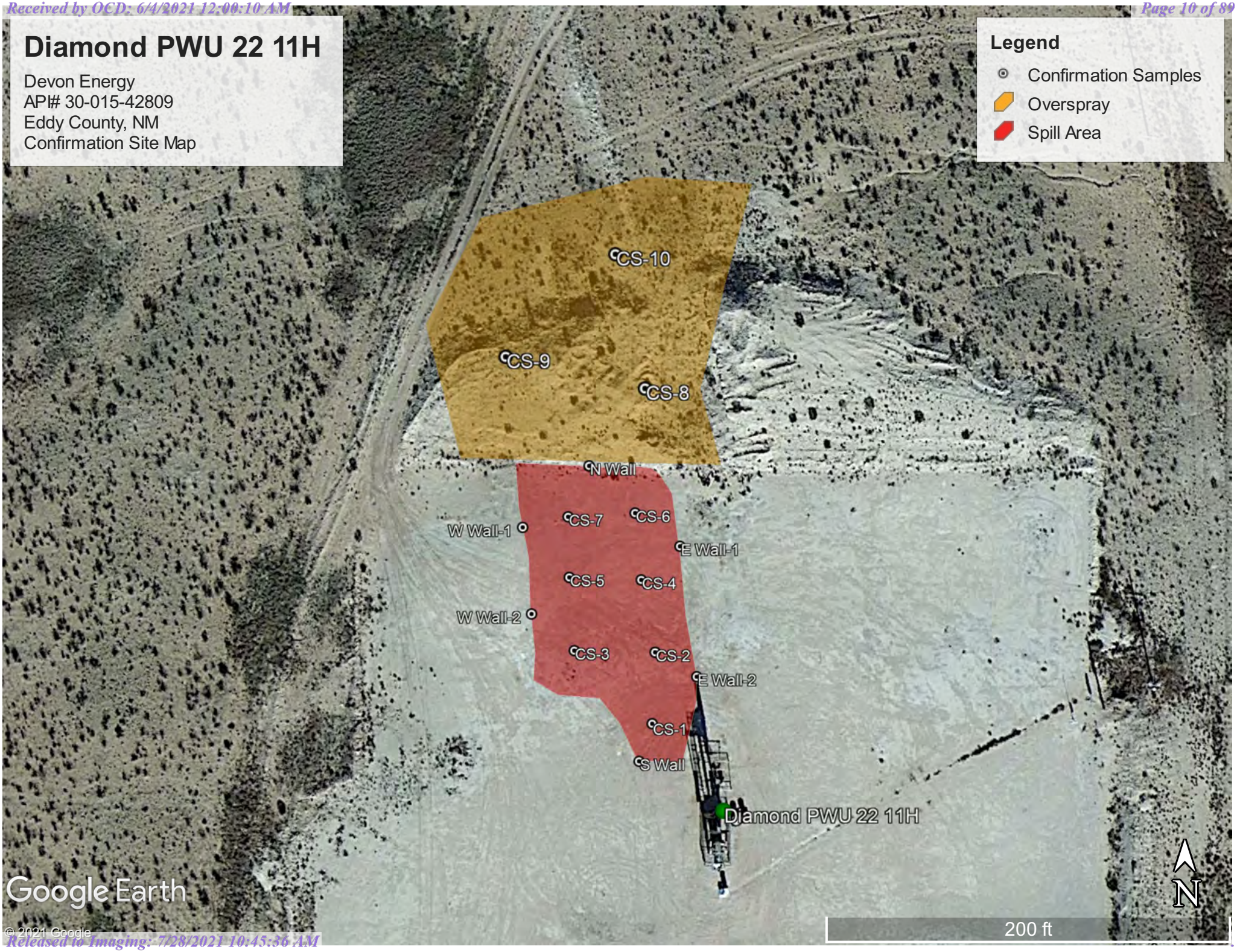
API#30-015-42809
Eddy County, NM
Karst Map




Diamond PWU 22 11H
Devon Energy
API #30-015-42809
Eddy County, NM
Site Map
Legend
Backgrounds
Diamond PWU 22 11H
Overspray
Samples
Spill Area
BG-2
BG-1
S-5
S-4
S-6
S-3
S-7
S-2
S-8
S-1
Diamond PWU 22 11H
32.644147, -104.072359
Google Earth
© 2021 Google
N
400 ft

Diamond PWU 22 11H

Devon Energy
API# 30-015-42809
Eddy County, NM
Confirmation Site Map



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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	Depth Well	Depth Water	Water Column
CP 00741		CP	ED	1	3	2	34	19S	29E	588030	3609533*	1906	230	60	170
CP 00681		CP	ED	1	1	3	34	19S	29E	587230	3609127*	2143			
CP 00698 POD1		CP	ED		3	1	03	20S	29E	587393	3608010	3263			
CP 00830 POD1		CP	LE		2	1	04	20S	29E	586118	3608193*	3277	120		
CP 00739 POD1		CP	ED	3	4	4	35	19S	29E	590068	3608622	3870	200	110	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

National Water Information System: Web Interface

USGS Water Resources

Data Category: Groundwater | Geographic Area: United States | GO

Click to hideNews Bulletins

- Introducing The Next Generation of USGS Water Data for the Nation
- 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

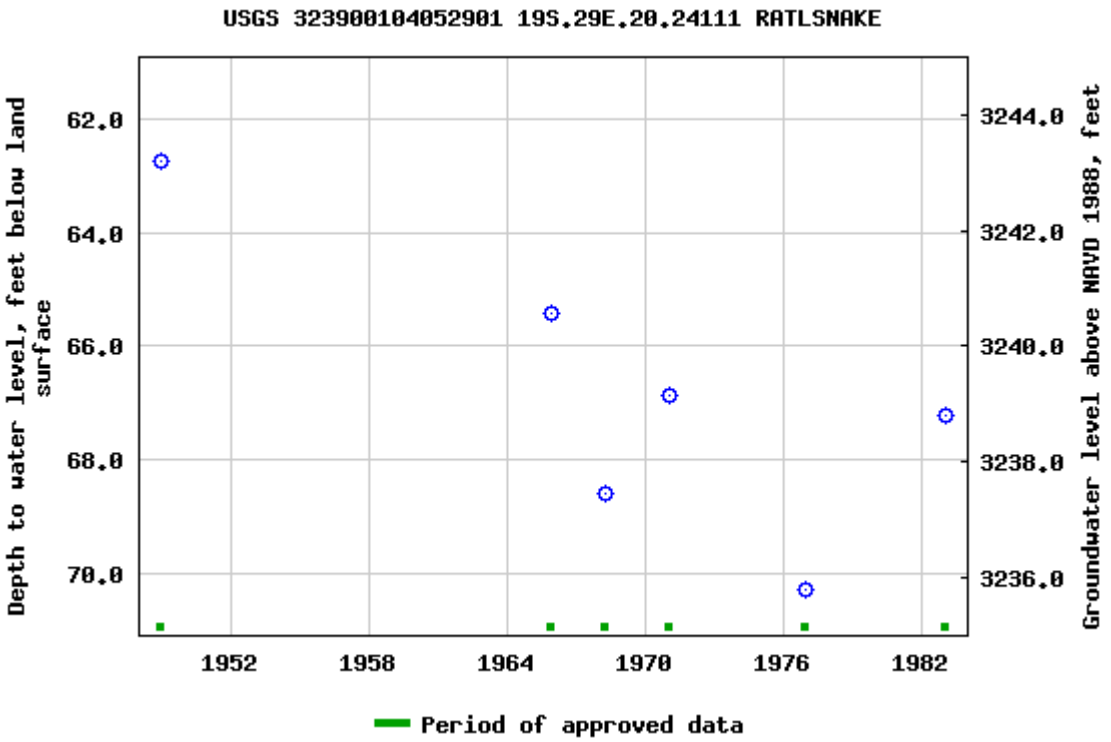
USGS 323900104052901 19S.29E.20.24111 RATLSNAKE

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



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

Questions about sites/data?
Feedback on this web site
Automated retrievals
Help
Data Tips
Explanation of terms
Subscribe for system changes
News

Accessibility FOIA Privacy Policies and Notices

U.S. Department of the Interior | U.S. Geological Survey

Title: Groundwater for USA: Water Levels
URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: USGS Water Data Support Team
Page Last Modified: 2021-02-12 11:06:14 EST
0.66 0.58 nadww02

National Water Information System: Web Interface

USGS Water Resources

Data Category: Groundwater | Geographic Area: United States | GO

Click to hideNews Bulletins

- Introducing The Next Generation of USGS Water Data for the Nation
- 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 =
- 323853104023101

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

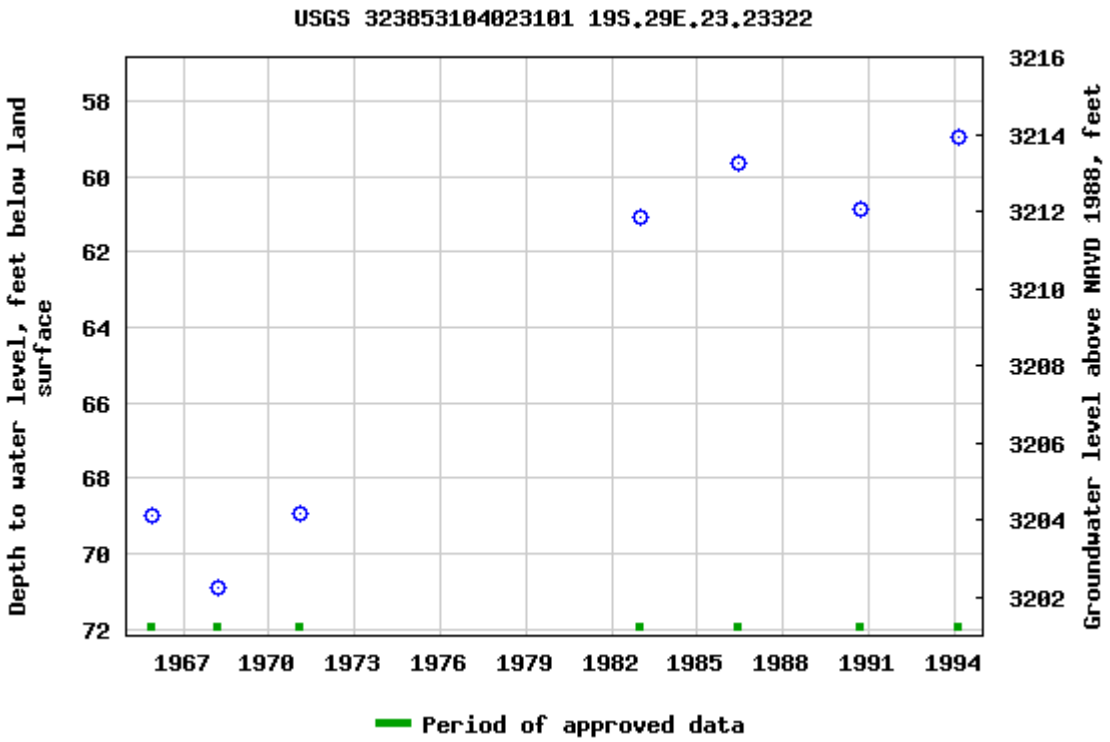
USGS 323853104023101 19S.29E.23.23322

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



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

Accessibility FOIA Privacy Policies and Notices

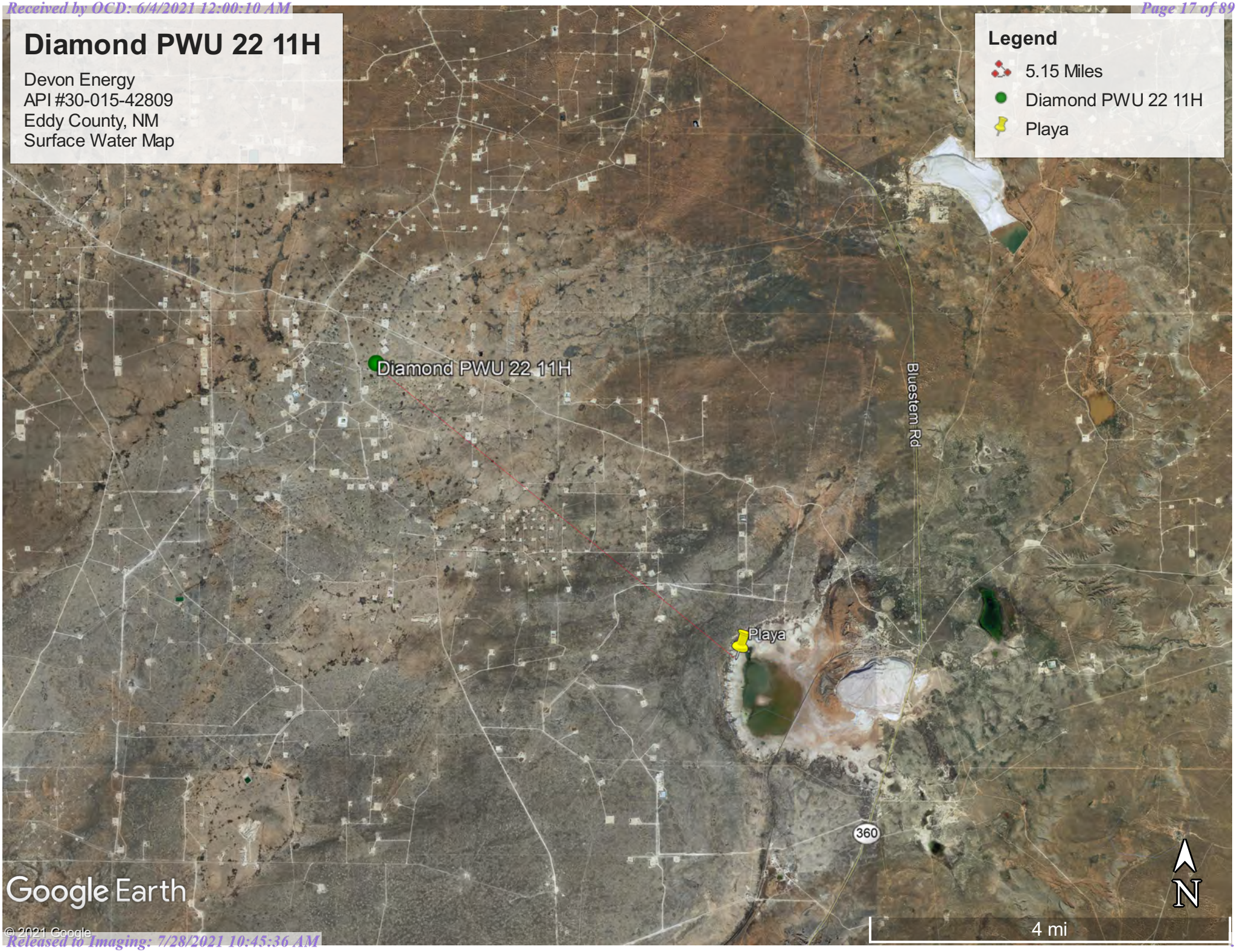
U.S. Department of the Interior | U.S. Geological Survey

Title: Groundwater for USA: Water Levels
URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: USGS Water Data Support Team
Page Last Modified: 2021-02-12 11:07:31 EST
0.64 0.56 nadww02

Diamond PWU 22 11H

Devon Energy
API #30-015-42809
Eddy County, NM
Surface Water Map



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Appendix B

Soil Survey & Geological Data

FEMA Flood Map

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)

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

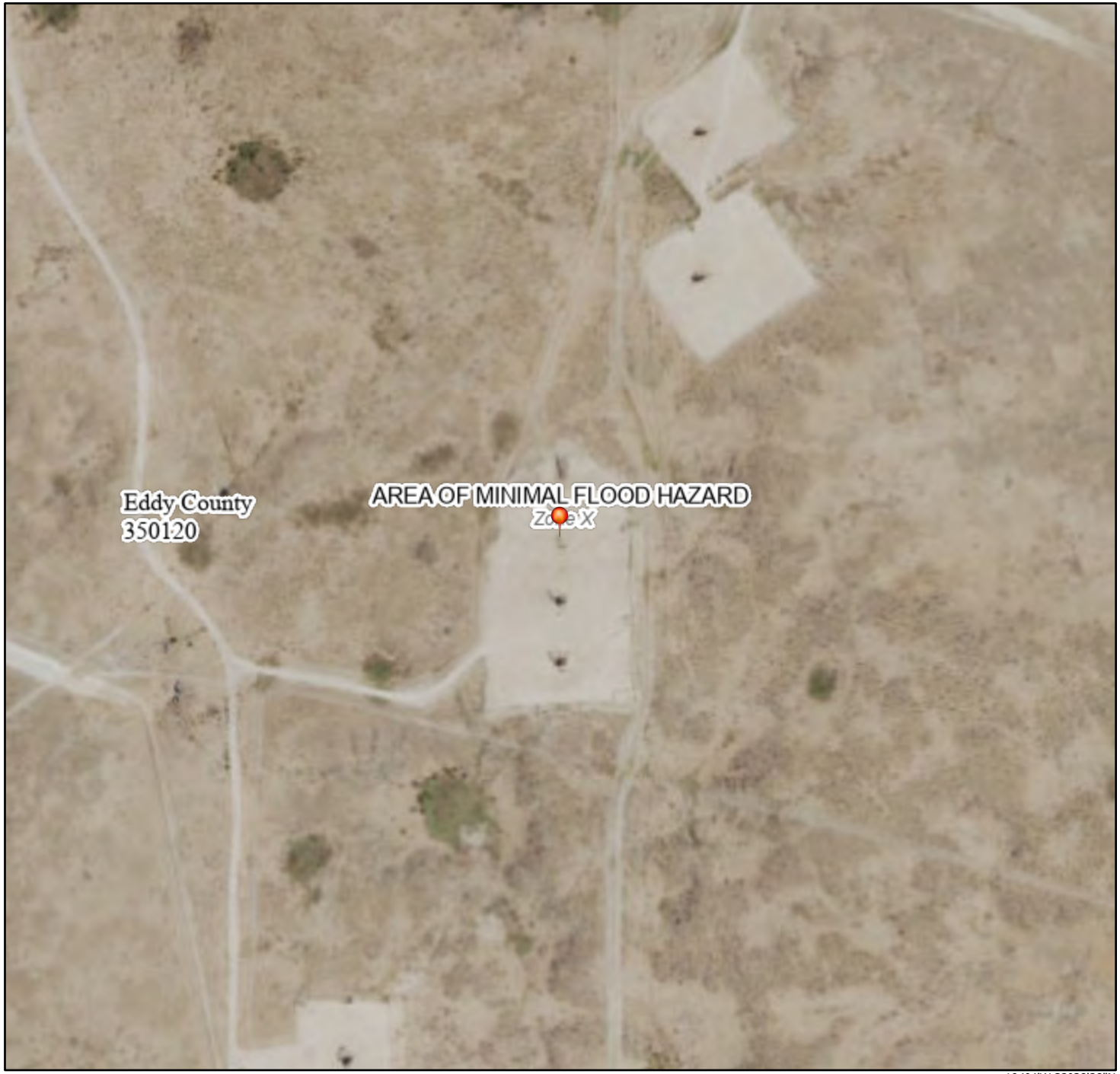
Soil Survey Area: Eddy Area, New Mexico
Survey Area Data: Version 16, Jun 8, 2020

Received by OCD: 6/4/2021 12:00:10 AM

National Flood Hazard Layer FIRMette

FEMA

104°4'37"W 32°38'58"N



104°4'W 32°38'28"N

0 250 500 1,000 1,500 2,000 Feet

1:6,000

Basemap: USGS National Map: Orthoimagery: Data refreshed October, 2020

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
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

MAP PANELS
- Digital Data Available
- No Digital Data Available
- Unmapped

N

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 5:15 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.

Released to Imaging: 7/28/2021 10:45:36 AM

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

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	NAPP2105355033
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	OGRID
Contact Name	Contact Telephone
Contact email	Incident # *(assigned by OCD)*
Contact mailing address	

Location of Release Source

Latitude _____ Longitude _____
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Site Type
Date Release Discovered	API# *(if applicable)*

Unit Letter	Section	Township	Range	County

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)

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☐ Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
Cause of Release		

Form C-141
Page 2

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2105355033
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ☐ 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

- ☐ The source of the release has been stopped.
- ☐ The impacted area has been secured to protect human health and the environment.
- ☐ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
- ☐ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not 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: _____ Title: _____

Signature: Kendra DeHoyos Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2105355033
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?	>100 (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ 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)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ 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?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☒ Yes ☐ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas **not** on an exploration, development, production, or storage site?	☐ Yes ☒ 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.

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2105355033
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: 6/1/2021

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

OCD Only

Received by: _____ Date: _____

Incident ID	NAPP2105355033
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: 6/1/2021

email: wesley.mathews@dvn.com Telephone: 575-613-8608

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: _____

Pima Environmental Services

Appendix D

Photographic Documentation



Pima Environmental Services

Appendix E

Laboratory Reports

Analytical Report
Lab Order **2102B03**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC
Client Sample ID: BG-1
Project: Diamond PWU 22 11H
Collection Date: 2/22/2021 9:00:00 AM
Lab ID: 2102B03-001 **Matrix:** SOIL
Received Date: 2/25/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **mb**
Diesel Range Organics (DRO)	17	9.0		mg/Kg	1	2/27/2021 2:02:09 PM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	2/27/2021 2:02:09 PM
Surr: DNOP	125	70-130		%Rec	1	2/27/2021 2:02:09 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/27/2021 7:32:00 PM
Surr: BFB	89.3	75.3-105		%Rec	1	2/27/2021 7:32:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.024		mg/Kg	1	2/27/2021 7:32:00 PM
Toluene	ND	0.049		mg/Kg	1	2/27/2021 7:32:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	2/27/2021 7:32:00 PM
Xylenes, Total	ND	0.098		mg/Kg	1	2/27/2021 7:32:00 PM
Surr: 4-Bromofluorobenzene	96.1	80-120		%Rec	1	2/27/2021 7:32:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **VP**
Chloride	ND	59		mg/Kg	20	3/2/2021 3:36:02 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit
P	Sample pH Not In Range
PQL	Practical Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix

Analytical Report
Lab Order **2102B03**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC
Client Sample ID: BG-2
Project: Diamond PWU 22 11H
Collection Date: 2/22/2021 9:10:00 AM
Lab ID: 2102B03-002 **Matrix:** SOIL
Received Date: 2/25/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **mb**
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	2/27/2021 2:11:56 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	2/27/2021 2:11:56 PM
Surr: DNOP	114	70-130		%Rec	1	2/27/2021 2:11:56 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/27/2021 7:52:00 PM
Surr: BFB	88.0	75.3-105		%Rec	1	2/27/2021 7:52:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.025		mg/Kg	1	2/27/2021 7:52:00 PM
Toluene	ND	0.050		mg/Kg	1	2/27/2021 7:52:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	2/27/2021 7:52:00 PM
Xylenes, Total	ND	0.10		mg/Kg	1	2/27/2021 7:52:00 PM
Surr: 4-Bromofluorobenzene	95.9	80-120		%Rec	1	2/27/2021 7:52:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **VP**
Chloride	ND	60		mg/Kg	20	3/2/2021 4:38:06 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit
P	Sample pH Not In Range
PQL	Practical Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix

Analytical Report
Lab Order **2102B03**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC
Client Sample ID: S1 0"-6"
Project: Diamond PWU 22 11H
Collection Date: 2/22/2021 9:20:00 AM
Lab ID: 2102B03-003 **Matrix:** SOIL
Received Date: 2/25/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **mb**
Diesel Range Organics (DRO)	15000	470		mg/Kg	50	3/2/2021 3:24:50 AM
Motor Oil Range Organics (MRO)	5500	2300		mg/Kg	50	3/2/2021 3:24:50 AM
Surr: DNOP	0	70-130	S	%Rec	50	3/2/2021 3:24:50 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	1500	25		mg/Kg	5	2/27/2021 8:12:00 PM
Surr: BFB	426	75.3-105	S	%Rec	5	2/27/2021 8:12:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	1.1	0.12		mg/Kg	5	2/27/2021 8:12:00 PM
Toluene	16	0.25		mg/Kg	5	2/27/2021 8:12:00 PM
Ethylbenzene	11	0.25		mg/Kg	5	2/27/2021 8:12:00 PM
Xylenes, Total	64	0.50		mg/Kg	5	2/27/2021 8:12:00 PM
Surr: 4-Bromofluorobenzene	201	80-120	S	%Rec	5	2/27/2021 8:12:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **VP**
Chloride	5000	150		mg/Kg	50	3/2/2021 3:48:02 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit
P	Sample pH Not In Range
PQL	Practical Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix

Analytical Report
Lab Order **2102B03**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC
Client Sample ID: S1 1'
Project: Diamond PWU 22 11H
Collection Date: 2/22/2021 9:30:00 AM
Lab ID: 2102B03-004 **Matrix:** SOIL
Received Date: 2/25/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **mb**
Diesel Range Organics (DRO)	530	9.6		mg/Kg	1	3/2/2021 10:36:58 AM
Motor Oil Range Organics (MRO)	330	48		mg/Kg	1	3/2/2021 10:36:58 AM
Surr: DNOP	218	70-130	S	%Rec	1	3/2/2021 10:36:58 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/1/2021 5:01:00 PM
Surr: BFB	122	75.3-105	S	%Rec	1	3/1/2021 5:01:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.025		mg/Kg	1	3/1/2021 5:01:00 PM
Toluene	ND	0.050		mg/Kg	1	3/1/2021 5:01:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	3/1/2021 5:01:00 PM
Xylenes, Total	ND	0.10		mg/Kg	1	3/1/2021 5:01:00 PM
Surr: 4-Bromofluorobenzene	103	80-120		%Rec	1	3/1/2021 5:01:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **VP**
Chloride	3600	150		mg/Kg	50	3/2/2021 4:25:15 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2102B03**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC
Client Sample ID: S2 0"-6"
Project: Diamond PWU 22 11H
Collection Date: 2/22/2021 9:40:00 AM
Lab ID: 2102B03-005 **Matrix:** SOIL
Received Date: 2/25/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **mb**
Diesel Range Organics (DRO)	15000	450		mg/Kg	50	3/2/2021 3:43:39 AM
Motor Oil Range Organics (MRO)	6400	2200		mg/Kg	50	3/2/2021 3:43:39 AM
Surr: DNOP	0	70-130	S	%Rec	50	3/2/2021 3:43:39 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	910	50		mg/Kg	10	3/1/2021 5:21:00 PM
Surr: BFB	248	75.3-105	S	%Rec	10	3/1/2021 5:21:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	0.11	0.025		mg/Kg	1	2/27/2021 8:52:00 PM
Toluene	3.5	0.050		mg/Kg	1	2/27/2021 8:52:00 PM
Ethylbenzene	4.0	0.050		mg/Kg	1	2/27/2021 8:52:00 PM
Xylenes, Total	34	1.0		mg/Kg	10	3/1/2021 5:21:00 PM
Surr: 4-Bromofluorobenzene	321	80-120	S	%Rec	1	2/27/2021 8:52:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **VP**
Chloride	3600	150		mg/Kg	50	3/2/2021 4:37:39 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit
P	Sample pH Not In Range
PQL	Practical Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix

Analytical Report
Lab Order **2102B03**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC
Client Sample ID: S3 0"-6"
Project: Diamond PWU 22 11H
Collection Date: 2/22/2021 9:50:00 AM
Lab ID: 2102B03-006 **Matrix:** SOIL
Received Date: 2/25/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **mb**
Diesel Range Organics (DRO)	3100	99		mg/Kg	10	3/2/2021 11:48:14 AM
Motor Oil Range Organics (MRO)	1900	500		mg/Kg	10	3/2/2021 11:48:14 AM
Surr: DNOP	0	70-130	S	%Rec	10	3/2/2021 11:48:14 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	5.5	4.9		mg/Kg	1	3/1/2021 5:41:00 PM
Surr: BFB	114	75.3-105	S	%Rec	1	3/1/2021 5:41:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.025		mg/Kg	1	3/1/2021 5:41:00 PM
Toluene	ND	0.049		mg/Kg	1	3/1/2021 5:41:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	3/1/2021 5:41:00 PM
Xylenes, Total	0.18	0.098		mg/Kg	1	3/1/2021 5:41:00 PM
Surr: 4-Bromofluorobenzene	104	80-120		%Rec	1	3/1/2021 5:41:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **VP**
Chloride	1400	60		mg/Kg	20	3/1/2021 5:20:45 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2102B03**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC
Client Sample ID: S3 1'
Project: Diamond PWU 22 11H
Collection Date: 2/22/2021 10:00:00 AM
Lab ID: 2102B03-007 **Matrix:** SOIL
Received Date: 2/25/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **mb**
Diesel Range Organics (DRO)	35	9.8		mg/Kg	1	2/27/2021 7:33:58 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	2/27/2021 7:33:58 PM
Surr: DNOP	106	70-130		%Rec	1	2/27/2021 7:33:58 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/27/2021 11:12:00 PM
Surr: BFB	83.3	75.3-105		%Rec	1	2/27/2021 11:12:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.025		mg/Kg	1	2/27/2021 11:12:00 PM
Toluene	ND	0.050		mg/Kg	1	2/27/2021 11:12:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	2/27/2021 11:12:00 PM
Xylenes, Total	ND	0.099		mg/Kg	1	2/27/2021 11:12:00 PM
Surr: 4-Bromofluorobenzene	92.5	80-120		%Rec	1	2/27/2021 11:12:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **VP**
Chloride	97	60		mg/Kg	20	3/1/2021 5:33:10 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit
P	Sample pH Not In Range
PQL	Practical Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix

Analytical Report
Lab Order **2102B03**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC
Client Sample ID: S3 2'
Project: Diamond PWU 22 11H
Collection Date: 2/22/2021 10:10:00 AM
Lab ID: 2102B03-008 **Matrix:** SOIL
Received Date: 2/25/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **mb**
Diesel Range Organics (DRO)	32	9.5		mg/Kg	1	2/27/2021 8:02:36 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	2/27/2021 8:02:36 PM
Surr: DNOP	89.1	70-130		%Rec	1	2/27/2021 8:02:36 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/28/2021 12:12:00 AM
Surr: BFB	85.6	75.3-105		%Rec	1	2/28/2021 12:12:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.024		mg/Kg	1	2/28/2021 12:12:00 AM
Toluene	ND	0.048		mg/Kg	1	2/28/2021 12:12:00 AM
Ethylbenzene	ND	0.048		mg/Kg	1	2/28/2021 12:12:00 AM
Xylenes, Total	ND	0.096		mg/Kg	1	2/28/2021 12:12:00 AM
Surr: 4-Bromofluorobenzene	92.9	80-120		%Rec	1	2/28/2021 12:12:00 AM
EPA METHOD 300.0: ANIONS						Analyst: **VP**
Chloride	82	60		mg/Kg	20	3/1/2021 5:45:34 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit
P	Sample pH Not In Range
PQL	Practical Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix

Analytical Report
Lab Order **2102B03**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC
Client Sample ID: S3 3'
Project: Diamond PWU 22 11H
Collection Date: 2/22/2021 10:20:00 AM
Lab ID: 2102B03-009 **Matrix:** SOIL
Received Date: 2/25/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **mb**
Diesel Range Organics (DRO)	39	9.6		mg/Kg	1	2/27/2021 8:12:10 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	2/27/2021 8:12:10 PM
Surr: DNOP	95.5	70-130		%Rec	1	2/27/2021 8:12:10 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/28/2021 1:12:00 AM
Surr: BFB	84.7	75.3-105		%Rec	1	2/28/2021 1:12:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.025		mg/Kg	1	2/28/2021 1:12:00 AM
Toluene	ND	0.049		mg/Kg	1	2/28/2021 1:12:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	2/28/2021 1:12:00 AM
Xylenes, Total	ND	0.099		mg/Kg	1	2/28/2021 1:12:00 AM
Surr: 4-Bromofluorobenzene	92.5	80-120		%Rec	1	2/28/2021 1:12:00 AM
EPA METHOD 300.0: ANIONS						Analyst: **VP**
Chloride	85	60		mg/Kg	20	3/1/2021 5:57:59 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2102B03**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC
Client Sample ID: S4 0"-6"
Project: Diamond PWU 22 11H
Collection Date: 2/22/2021 10:30:00 AM
Lab ID: 2102B03-010 **Matrix:** SOIL
Received Date: 2/25/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **mb**
Diesel Range Organics (DRO)	1700	99		mg/Kg	10	3/2/2021 4:02:30 AM
Motor Oil Range Organics (MRO)	960	500		mg/Kg	10	3/2/2021 4:02:30 AM
Surr: DNOP	0	70-130	S	%Rec	10	3/2/2021 4:02:30 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/28/2021 1:32:00 AM
Surr: BFB	92.8	75.3-105		%Rec	1	2/28/2021 1:32:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.024		mg/Kg	1	2/28/2021 1:32:00 AM
Toluene	ND	0.048		mg/Kg	1	2/28/2021 1:32:00 AM
Ethylbenzene	ND	0.048		mg/Kg	1	2/28/2021 1:32:00 AM
Xylenes, Total	ND	0.095		mg/Kg	1	2/28/2021 1:32:00 AM
Surr: 4-Bromofluorobenzene	96.2	80-120		%Rec	1	2/28/2021 1:32:00 AM
EPA METHOD 300.0: ANIONS						Analyst: **VP**
Chloride	780	60		mg/Kg	20	3/1/2021 6:10:24 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit
P	Sample pH Not In Range
PQL	Practical Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix

Analytical Report
Lab Order **2102B03**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC
Client Sample ID: S5 0"-6"
Project: Diamond PWU 22 11H
Collection Date: 2/22/2021 10:40:00 AM
Lab ID: 2102B03-011 **Matrix:** SOIL
Received Date: 2/25/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **mb**
Diesel Range Organics (DRO)	290	9.2		mg/Kg	1	3/2/2021 2:19:10 AM
Motor Oil Range Organics (MRO)	190	46		mg/Kg	1	3/2/2021 2:19:10 AM
Surr: DNOP	108	70-130		%Rec	1	3/2/2021 2:19:10 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/28/2021 1:51:00 AM
Surr: BFB	86.9	75.3-105		%Rec	1	2/28/2021 1:51:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.024		mg/Kg	1	2/28/2021 1:51:00 AM
Toluene	ND	0.049		mg/Kg	1	2/28/2021 1:51:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	2/28/2021 1:51:00 AM
Xylenes, Total	ND	0.098		mg/Kg	1	2/28/2021 1:51:00 AM
Surr: 4-Bromofluorobenzene	94.1	80-120		%Rec	1	2/28/2021 1:51:00 AM
EPA METHOD 300.0: ANIONS						Analyst: **VP**
Chloride	920	60		mg/Kg	20	3/1/2021 6:22:48 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit
P	Sample pH Not In Range
PQL	Practical Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix

Analytical Report
Lab Order **2102B03**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC
Client Sample ID: S5 1'
Project: Diamond PWU 22 11H
Collection Date: 2/22/2021 10:50:00 AM
Lab ID: 2102B03-012 **Matrix:** SOIL
Received Date: 2/25/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **mb**
Diesel Range Organics (DRO)	62	9.2		mg/Kg	1	2/27/2021 8:40:53 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	2/27/2021 8:40:53 PM
Surr: DNOP	98.6	70-130		%Rec	1	2/27/2021 8:40:53 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/28/2021 2:11:00 AM
Surr: BFB	82.8	75.3-105		%Rec	1	2/28/2021 2:11:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.024		mg/Kg	1	2/28/2021 2:11:00 AM
Toluene	ND	0.048		mg/Kg	1	2/28/2021 2:11:00 AM
Ethylbenzene	ND	0.048		mg/Kg	1	2/28/2021 2:11:00 AM
Xylenes, Total	ND	0.096		mg/Kg	1	2/28/2021 2:11:00 AM
Surr: 4-Bromofluorobenzene	92.1	80-120		%Rec	1	2/28/2021 2:11:00 AM
EPA METHOD 300.0: ANIONS						Analyst: **VP**
Chloride	220	60		mg/Kg	20	3/1/2021 6:35:13 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit
P	Sample pH Not In Range
PQL	Practical Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix

Analytical Report
Lab Order **2102B03**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC
Client Sample ID: S6 0"-6"
Project: Diamond PWU 22 11H
Collection Date: 2/22/2021 11:00:00 AM
Lab ID: 2102B03-013 **Matrix:** SOIL
Received Date: 2/25/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **mb**
Diesel Range Organics (DRO)	370	9.5		mg/Kg	1	2/27/2021 8:50:28 PM
Motor Oil Range Organics (MRO)	240	48		mg/Kg	1	2/27/2021 8:50:28 PM
Surr: DNOP	111	70-130		%Rec	1	2/27/2021 8:50:28 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/28/2021 2:31:00 AM
Surr: BFB	88.5	75.3-105		%Rec	1	2/28/2021 2:31:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.025		mg/Kg	1	2/28/2021 2:31:00 AM
Toluene	ND	0.050		mg/Kg	1	2/28/2021 2:31:00 AM
Ethylbenzene	ND	0.050		mg/Kg	1	2/28/2021 2:31:00 AM
Xylenes, Total	ND	0.099		mg/Kg	1	2/28/2021 2:31:00 AM
Surr: 4-Bromofluorobenzene	95.0	80-120		%Rec	1	2/28/2021 2:31:00 AM
EPA METHOD 300.0: ANIONS						Analyst: **VP**
Chloride	670	60		mg/Kg	20	3/1/2021 6:47:37 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2102B03**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC
Client Sample ID: S7 0"-6"
Project: Diamond PWU 22 11H
Collection Date: 2/22/2021 11:10:00 AM
Lab ID: 2102B03-014 **Matrix:** SOIL
Received Date: 2/25/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **mb**
Diesel Range Organics (DRO)	230	9.7		mg/Kg	1	3/2/2021 12:35:41 PM
Motor Oil Range Organics (MRO)	150	48		mg/Kg	1	3/2/2021 12:35:41 PM
Surr: DNOP	107	70-130		%Rec	1	3/2/2021 12:35:41 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/28/2021 2:51:00 AM
Surr: BFB	85.3	75.3-105		%Rec	1	2/28/2021 2:51:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.025		mg/Kg	1	2/28/2021 2:51:00 AM
Toluene	ND	0.050		mg/Kg	1	2/28/2021 2:51:00 AM
Ethylbenzene	ND	0.050		mg/Kg	1	2/28/2021 2:51:00 AM
Xylenes, Total	ND	0.099		mg/Kg	1	2/28/2021 2:51:00 AM
Surr: 4-Bromofluorobenzene	92.7	80-120		%Rec	1	2/28/2021 2:51:00 AM
EPA METHOD 300.0: ANIONS						Analyst: **VP**
Chloride	480	60		mg/Kg	20	3/1/2021 7:00:01 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit
P	Sample pH Not In Range
PQL	Practical Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix

Analytical Report
Lab Order **2102B03**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC
Client Sample ID: S7 1'
Project: Diamond PWU 22 11H
Collection Date: 2/22/2021 11:20:00 AM
Lab ID: 2102B03-015 **Matrix:** SOIL
Received Date: 2/25/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **mb**
Diesel Range Organics (DRO)	56	9.5		mg/Kg	1	2/27/2021 9:09:40 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	2/27/2021 9:09:40 PM
Surr: DNOP	89.0	70-130		%Rec	1	2/27/2021 9:09:40 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/28/2021 3:11:00 AM
Surr: BFB	86.5	75.3-105		%Rec	1	2/28/2021 3:11:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.024		mg/Kg	1	2/28/2021 3:11:00 AM
Toluene	ND	0.049		mg/Kg	1	2/28/2021 3:11:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	2/28/2021 3:11:00 AM
Xylenes, Total	ND	0.097		mg/Kg	1	2/28/2021 3:11:00 AM
Surr: 4-Bromofluorobenzene	92.5	80-120		%Rec	1	2/28/2021 3:11:00 AM
EPA METHOD 300.0: ANIONS						Analyst: **VP**
Chloride	110	60		mg/Kg	20	3/1/2021 7:12:26 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit
P	Sample pH Not In Range
PQL	Practical Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix

Analytical Report
Lab Order **2102B03**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC
Client Sample ID: S8 0"-6"
Project: Diamond PWU 22 11H
Collection Date: 2/22/2021 11:30:00 AM
Lab ID: 2102B03-016 **Matrix:** SOIL
Received Date: 2/25/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **mb**
Diesel Range Organics (DRO)	49	9.4		mg/Kg	1	2/27/2021 9:19:17 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	2/27/2021 9:19:17 PM
Surr: DNOP	102	70-130		%Rec	1	2/27/2021 9:19:17 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	2/28/2021 3:31:00 AM
Surr: BFB	89.7	75.3-105		%Rec	1	2/28/2021 3:31:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.024		mg/Kg	1	2/28/2021 3:31:00 AM
Toluene	ND	0.047		mg/Kg	1	2/28/2021 3:31:00 AM
Ethylbenzene	ND	0.047		mg/Kg	1	2/28/2021 3:31:00 AM
Xylenes, Total	ND	0.095		mg/Kg	1	2/28/2021 3:31:00 AM
Surr: 4-Bromofluorobenzene	96.9	80-120		%Rec	1	2/28/2021 3:31:00 AM
EPA METHOD 300.0: ANIONS						Analyst: **VP**
Chloride	140	60		mg/Kg	20	3/1/2021 7:49:39 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit
P	Sample pH Not In Range
PQL	Practical Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix

CARDINAL Laboratories

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

March 24, 2021

CHRIS JONES

PIMA ENVIROMENTAL

1601 N TURNER STE. 500

HOBBS, NM 88240

RE: DIAMOND PWU 22 11H

Enclosed are the results of analyses for samples received by the laboratory on 03/19/21 14:58.

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 accreditated 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,

Celey D. Keene

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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:	03/19/2021	Sampling Date:	03/19/2021
Reported:	03/24/2021	Sampling Type:	Soil
Project Name:	DIAMOND PWU 22 11H	Sampling Condition:	** (See Notes)
Project Number:	#73	Sample Received By:	Jodi Henson
Project Location:	DEVON ENERGY - EDDY CO NM		

Sample ID: NORTH WALL (H210711-01)

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	03/22/2021	ND	184	92.2	200	5.54	
DRO >C10-C28*	<10.0	10.0	03/22/2021	ND	192	96.1	200	4.99	
EXT DRO >C28-C36	<10.0	10.0	03/22/2021	ND					

Surrogate: 1-Chlorooctane	*72.2 %*	*44.3-144*
Surrogate: 1-Chlorooctadecane	*69.1 %*	*42.2-156*

Sample ID: SOUTH WALL (H210711-02)

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	03/22/2021	ND	184	92.2	200	5.54	
DRO >C10-C28*	<10.0	10.0	03/22/2021	ND	192	96.1	200	4.99	
EXT DRO >C28-C36	<10.0	10.0	03/22/2021	ND					

Surrogate: 1-Chlorooctane	*74.6 %*	*44.3-144*
Surrogate: 1-Chlorooctadecane	*72.7 %*	*42.2-156*

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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:	03/19/2021	Sampling Date:	03/19/2021
Reported:	03/24/2021	Sampling Type:	Soil
Project Name:	DIAMOND PWU 22 11H	Sampling Condition:	** (See Notes)
Project Number:	#73	Sample Received By:	Jodi Henson
Project Location:	DEVON ENERGY - EDDY CO NM		

Sample ID: EAST WALL - 1 (H210711-03)

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	03/22/2021	ND	184	92.2	200	5.54	
DRO >C10-C28*	<10.0	10.0	03/22/2021	ND	192	96.1	200	4.99	
EXT DRO >C28-C36	<10.0	10.0	03/22/2021	ND					

Surrogate: 1-Chlorooctane	*76.3 %*	*44.3-144*
Surrogate: 1-Chlorooctadecane	*72.8 %*	*42.2-156*

Sample ID: EAST WALL - 2 (H210711-04)

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	03/22/2021	ND	184	92.2	200	5.54	
DRO >C10-C28*	<10.0	10.0	03/22/2021	ND	192	96.1	200	4.99	
EXT DRO >C28-C36	<10.0	10.0	03/22/2021	ND					

Surrogate: 1-Chlorooctane	*74.5 %*	*44.3-144*
Surrogate: 1-Chlorooctadecane	*72.4 %*	*42.2-156*

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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:	03/19/2021	Sampling Date:	03/19/2021
Reported:	03/24/2021	Sampling Type:	Soil
Project Name:	DIAMOND PWU 22 11H	Sampling Condition:	** (See Notes)
Project Number:	#73	Sample Received By:	Jodi Henson
Project Location:	DEVON ENERGY - EDDY CO NM		

Sample ID: WEST WALL - 1 (H210711-05)

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	03/22/2021	ND	184	92.2	200	5.54	
DRO >C10-C28*	<10.0	10.0	03/22/2021	ND	192	96.1	200	4.99	
EXT DRO >C28-C36	<10.0	10.0	03/22/2021	ND					

Surrogate: 1-Chlorooctane	*69.2 %*	*44.3-144*
Surrogate: 1-Chlorooctadecane	*68.1 %*	*42.2-156*

Sample ID: WEST WALL - 2 (H210711-06)

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	03/22/2021	ND	184	92.2	200	5.54	
DRO >C10-C28*	<10.0	10.0	03/22/2021	ND	192	96.1	200	4.99	
EXT DRO >C28-C36	<10.0	10.0	03/22/2021	ND					

Surrogate: 1-Chlorooctane	*74.7 %*	*44.3-144*
Surrogate: 1-Chlorooctadecane	*71.3 %*	*42.2-156*

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

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, Lab Director/Quality Manager

CARDINAL Laboratories

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name:	Pima Environmental
Project Manager:	Chris Jones
Address:	1601 N. Turner #500
City:	Hobbs State: NM Zip: 88240
Phone #:	575-631-6977 Fax #:
Project #:	73 Project Owner: Devon
Project Name:	Diamond Pwu 22 ~~Fed~~ 11H
Project Location:	Eddy County
Sampler Name:	Mark Newcomb

BILL TO

P.O. #:	20930265
Company:	Devon
Attn:	Wes Mathews
Address:	
City:	
State:	Zip:
Phone #:	
Fax #:	

ANALYSIS REQUEST

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING: DATE	TIME	TPH
H210711															
1	North Wall	C				X					X		3/19/21	1430	X
2	South Wall													1435	
3	East Wall - 1													1440	
4	East Wall - 2													1445	
5	West Wall - 1													1450	
6	West Wall - 2													1455	

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Relinquished By:	Date: 3/19/21	Received By:	Verbal Result: ☐ Yes ☐ No Add'l Phone #:
	Time: 14:58	Jodi Henson	All Results are emailed. Please provide Email address:
Relinquished By:	Date:	Received By:	REMARKS: Bill to Devon
	Time:		

Delivered By: (Circle One) Sampler - UPS - Bus - Other:

Observed Temp. °C 17.4 Corrected Temp. °C

Sample Condition: Cool ☐ Yes ☑ No Intact ☑ Yes ☐ No

CHECKED BY: (Initials)

Turnaround Time: Standard ☑ Rush ☐

Thermometer ID #113 Correction Factor None

Bacteria (only) Sample Condition: Cool ☐ Yes ☐ Nc Intact ☐ Yes ☐ No Observed Temp. °C Corrected Temp. °C

FORM-006 R 3.1 06/04/20

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

Received by OCD: 6/4/2021 12:00:10 AM

Released to Imaging: 7/28/2021 10:45:36 AM

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins Xenco, Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-714-1
Client Project/Site: Diamond PWU 22 114

For:
EOR/Ridgeway Arizona Oil Corp
575 N Diairy Ashford
Suite 210
Houston, Texas 77079

Attn: Chris Jones

Holly Taylor

Authorized for release by:
5/26/2021 6:20:54 PM

Holly Taylor, Project Manager
(806)794-1296
holly.taylor@eurofinset.com

LINKS

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: EOR/Ridgeway Arizona Oil Corp
Project/Site: Diamond PWU 22 114

Laboratory Job ID: 890-714-1

Table of Contents

Definitions/Glossary

Client: EOR/Ridgeway Arizona Oil Corp
Job ID: 890-714-1
Project/Site: Diamond PWU 22 114

Qualifiers

GC VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: EOR/Ridgeway Arizona Oil Corp
Job ID: 890-714-1
Project/Site: Diamond PWU 22 114

Job ID: 890-714-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative
890-714-1

Receipt
The samples were received on 5/21/2021 1:48 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 24.2°C

Receipt Exceptions
The following samples analyzed for method <FRACTION_METHOD> were received and analyzed from an unpreserved bulk soil jar: CS1 (890-714-1), CS2 (890-714-2), CS3 (890-714-3), CS4 (890-714-4), CS5 (890-714-5), CS6 (890-714-6), CS7 (890-714-7), CS8 (890-714-8), CS9 (890-714-9) and CS10 (890-714-10).
BTEX8021

The following samples were received at the laboratory without a sample collection time documented on the chain of custody: CS1 (890-714-1), CS2 (890-714-2), CS3 (890-714-3), CS4 (890-714-4), CS5 (890-714-5), CS6 (890-714-6), CS7 (890-714-7), CS8 (890-714-8), CS9 (890-714-9) and CS10 (890-714-10). The client was contacted, and the laboratory was instructed to <CHOOSE_ONE> use a sample collection time of 12:00am OR <EXPLANATION_REQUIRED>
Samples logged as 00:00

GC VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: EOR/Ridgeway Arizona Oil Corp
Job ID: 890-714-1
Project/Site: Diamond PWU 22 114

Client Sample ID: CS1
Lab Sample ID: 890-714-1
Date Collected: 05/21/21 00:00
Matrix: Solid
Date Received: 05/21/21 13:48

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		05/24/21 08:38	05/24/21 16:39	1
Toluene	<0.00198	U	0.00198		mg/Kg		05/24/21 08:38	05/24/21 16:39	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		05/24/21 08:38	05/24/21 16:39	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		05/24/21 08:38	05/24/21 16:39	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		05/24/21 08:38	05/24/21 16:39	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		05/24/21 08:38	05/24/21 16:39	1
Total BTEX	<0.00397	U	0.00397		mg/Kg		05/24/21 08:38	05/24/21 16:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*05/24/21 08:38*	*05/24/21 16:39*	*1*
1,4-Difluorobenzene (Surr)	*114*		*70 - 130*	*05/24/21 08:38*	*05/24/21 16:39*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		05/24/21 16:28	05/25/21 04:16	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/24/21 16:28	05/25/21 04:16	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/24/21 16:28	05/25/21 04:16	1
Total TPH	<49.8	U	49.8		mg/Kg		05/24/21 16:28	05/25/21 04:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*107*		*70 - 130*	*05/24/21 16:28*	*05/25/21 04:16*	*1*
o-Terphenyl	*103*		*70 - 130*	*05/24/21 16:28*	*05/25/21 04:16*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			05/24/21 17:15	1

Client Sample ID: CS2
Lab Sample ID: 890-714-2
Date Collected: 05/21/21 00:00
Matrix: Solid
Date Received: 05/21/21 13:48

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/24/21 08:38	05/24/21 17:00	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/24/21 08:38	05/24/21 17:00	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/24/21 08:38	05/24/21 17:00	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/24/21 08:38	05/24/21 17:00	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/24/21 08:38	05/24/21 17:00	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/24/21 08:38	05/24/21 17:00	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		05/24/21 08:38	05/24/21 17:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*05/24/21 08:38*	*05/24/21 17:00*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*05/24/21 08:38*	*05/24/21 17:00*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/24/21 16:28	05/25/21 04:37	1

Client Sample Results

Client: EOR/Ridgeway Arizona Oil Corp
Job ID: 890-714-1
Project/Site: Diamond PWU 22 114

Client Sample ID: CS2
Lab Sample ID: 890-714-2
Date Collected: 05/21/21 00:00
Matrix: Solid
Date Received: 05/21/21 13:48

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/24/21 16:28	05/25/21 04:37	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/24/21 16:28	05/25/21 04:37	1
Total TPH	<49.9	U	49.9		mg/Kg		05/24/21 16:28	05/25/21 04:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*110*		*70 - 130*	*05/24/21 16:28*	*05/25/21 04:37*	*1*
o-Terphenyl	*103*		*70 - 130*	*05/24/21 16:28*	*05/25/21 04:37*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.03	U	5.03		mg/Kg			05/24/21 17:20	1

Client Sample ID: CS3
Lab Sample ID: 890-714-3
Date Collected: 05/21/21 00:00
Matrix: Solid
Date Received: 05/21/21 13:48

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/24/21 08:38	05/24/21 17:20	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/24/21 08:38	05/24/21 17:20	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/24/21 08:38	05/24/21 17:20	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/24/21 08:38	05/24/21 17:20	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/24/21 08:38	05/24/21 17:20	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/24/21 08:38	05/24/21 17:20	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		05/24/21 08:38	05/24/21 17:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*05/24/21 08:38*	*05/24/21 17:20*	*1*
1,4-Difluorobenzene (Surr)	*125*		*70 - 130*	*05/24/21 08:38*	*05/24/21 17:20*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/24/21 16:28	05/25/21 04:58	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/24/21 16:28	05/25/21 04:58	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/24/21 16:28	05/25/21 04:58	1
Total TPH	<49.9	U	49.9		mg/Kg		05/24/21 16:28	05/25/21 04:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*131*	*S1+*	*70 - 130*	*05/24/21 16:28*	*05/25/21 04:58*	*1*
o-Terphenyl	*124*		*70 - 130*	*05/24/21 16:28*	*05/25/21 04:58*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.04	U	5.04		mg/Kg			05/24/21 17:26	1

Client Sample Results

Client: EOR/Ridgeway Arizona Oil Corp
Job ID: 890-714-1
Project/Site: Diamond PWU 22 114

Client Sample ID: CS4
Lab Sample ID: 890-714-4
Date Collected: 05/21/21 00:00
Matrix: Solid
Date Received: 05/21/21 13:48

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		05/24/21 08:38	05/24/21 17:41	1
Toluene	<0.00198	U	0.00198		mg/Kg		05/24/21 08:38	05/24/21 17:41	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		05/24/21 08:38	05/24/21 17:41	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		05/24/21 08:38	05/24/21 17:41	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		05/24/21 08:38	05/24/21 17:41	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		05/24/21 08:38	05/24/21 17:41	1
Total BTEX	<0.00396	U	0.00396		mg/Kg		05/24/21 08:38	05/24/21 17:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*05/24/21 08:38*	*05/24/21 17:41*	*1*
1,4-Difluorobenzene (Surr)	*135*	*S1+*	*70 - 130*	*05/24/21 08:38*	*05/24/21 17:41*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/24/21 16:28	05/25/21 05:19	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/24/21 16:28	05/25/21 05:19	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/24/21 16:28	05/25/21 05:19	1
Total TPH	<49.9	U	49.9		mg/Kg		05/24/21 16:28	05/25/21 05:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*108*		*70 - 130*	*05/24/21 16:28*	*05/25/21 05:19*	*1*
o-Terphenyl	*103*		*70 - 130*	*05/24/21 16:28*	*05/25/21 05:19*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			05/24/21 17:31	1

Client Sample ID: CS5
Lab Sample ID: 890-714-5
Date Collected: 05/21/21 00:00
Matrix: Solid
Date Received: 05/21/21 13:48

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/24/21 08:38	05/24/21 18:02	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/24/21 08:38	05/24/21 18:02	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/24/21 08:38	05/24/21 18:02	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/24/21 08:38	05/24/21 18:02	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/24/21 08:38	05/24/21 18:02	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/24/21 08:38	05/24/21 18:02	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		05/24/21 08:38	05/24/21 18:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*05/24/21 08:38*	*05/24/21 18:02*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*05/24/21 08:38*	*05/24/21 18:02*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/24/21 16:28	05/25/21 05:39	1

Client Sample Results

Client: EOR/Ridgeway Arizona Oil Corp
Job ID: 890-714-1
Project/Site: Diamond PWU 22 114

Client Sample ID: CS5
Lab Sample ID: 890-714-5
Date Collected: 05/21/21 00:00
Matrix: Solid
Date Received: 05/21/21 13:48

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/24/21 16:28	05/25/21 05:39	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/24/21 16:28	05/25/21 05:39	1
Total TPH	<50.0	U	50.0		mg/Kg		05/24/21 16:28	05/25/21 05:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*98*		*70 - 130*	*05/24/21 16:28*	*05/25/21 05:39*	*1*
o-Terphenyl	*90*		*70 - 130*	*05/24/21 16:28*	*05/25/21 05:39*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**19.0**		5.00		mg/Kg			05/26/21 14:10	1

Client Sample ID: CS6
Lab Sample ID: 890-714-6
Date Collected: 05/21/21 00:00
Matrix: Solid
Date Received: 05/21/21 13:48

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.00203**		0.00200		mg/Kg		05/24/21 08:38	05/24/21 18:23	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/24/21 08:38	05/24/21 18:23	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/24/21 08:38	05/24/21 18:23	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		05/24/21 08:38	05/24/21 18:23	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/24/21 08:38	05/24/21 18:23	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/24/21 08:38	05/24/21 18:23	1
Total BTEX	<0.00399	U	0.00399		mg/Kg		05/24/21 08:38	05/24/21 18:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*05/24/21 08:38*	*05/24/21 18:23*	*1*
1,4-Difluorobenzene (Surr)	*117*		*70 - 130*	*05/24/21 08:38*	*05/24/21 18:23*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/24/21 16:28	05/25/21 06:00	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/24/21 16:28	05/25/21 06:00	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/24/21 16:28	05/25/21 06:00	1
Total TPH	<50.0	U	50.0		mg/Kg		05/24/21 16:28	05/25/21 06:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*96*		*70 - 130*	*05/24/21 16:28*	*05/25/21 06:00*	*1*
o-Terphenyl	*90*		*70 - 130*	*05/24/21 16:28*	*05/25/21 06:00*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**7.72**		4.98		mg/Kg			05/26/21 14:25	1

Client Sample Results

Client: EOR/Ridgeway Arizona Oil Corp
Job ID: 890-714-1
Project/Site: Diamond PWU 22 114

Client Sample ID: CS7
Lab Sample ID: 890-714-7
Date Collected: 05/21/21 00:00
Matrix: Solid
Date Received: 05/21/21 13:48

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/24/21 08:38	05/24/21 18:43	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/24/21 08:38	05/24/21 18:43	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/24/21 08:38	05/24/21 18:43	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		05/24/21 08:38	05/24/21 18:43	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/24/21 08:38	05/24/21 18:43	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/24/21 08:38	05/24/21 18:43	1
Total BTEX	<0.00399	U	0.00399		mg/Kg		05/24/21 08:38	05/24/21 18:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*	*05/24/21 08:38*	*05/24/21 18:43*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*05/24/21 08:38*	*05/24/21 18:43*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/24/21 16:28	05/25/21 06:21	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/24/21 16:28	05/25/21 06:21	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/24/21 16:28	05/25/21 06:21	1
Total TPH	<49.9	U	49.9		mg/Kg		05/24/21 16:28	05/25/21 06:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*131*	*S1+*	*70 - 130*	*05/24/21 16:28*	*05/25/21 06:21*	*1*
o-Terphenyl	*125*		*70 - 130*	*05/24/21 16:28*	*05/25/21 06:21*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5.73**		4.96		mg/Kg			05/26/21 14:30	1

Client Sample ID: CS8
Lab Sample ID: 890-714-8
Date Collected: 05/21/21 00:00
Matrix: Solid
Date Received: 05/21/21 13:48

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/24/21 08:38	05/24/21 19:04	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/24/21 08:38	05/24/21 19:04	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/24/21 08:38	05/24/21 19:04	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/24/21 08:38	05/24/21 19:04	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/24/21 08:38	05/24/21 19:04	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/24/21 08:38	05/24/21 19:04	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		05/24/21 08:38	05/24/21 19:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*05/24/21 08:38*	*05/24/21 19:04*	*1*
1,4-Difluorobenzene (Surr)	*123*		*70 - 130*	*05/24/21 08:38*	*05/24/21 19:04*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/24/21 16:28	05/25/21 06:42	1

Client Sample Results

Client: EOR/Ridgeway Arizona Oil Corp
Job ID: 890-714-1
Project/Site: Diamond PWU 22 114

Client Sample ID: CS8
Lab Sample ID: 890-714-8
Date Collected: 05/21/21 00:00
Matrix: Solid
Date Received: 05/21/21 13:48

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/24/21 16:28	05/25/21 06:42	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/24/21 16:28	05/25/21 06:42	1
Total TPH	<50.0	U	50.0		mg/Kg		05/24/21 16:28	05/25/21 06:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*99*		*70 - 130*	*05/24/21 16:28*	*05/25/21 06:42*	*1*
o-Terphenyl	*96*		*70 - 130*	*05/24/21 16:28*	*05/25/21 06:42*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.99	U	4.99		mg/Kg			05/26/21 14:45	1

Client Sample ID: CS9
Lab Sample ID: 890-714-9
Date Collected: 05/21/21 00:00
Matrix: Solid
Date Received: 05/21/21 13:48

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		05/24/21 08:38	05/24/21 19:25	1
Toluene	<0.00202	U	0.00202		mg/Kg		05/24/21 08:38	05/24/21 19:25	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		05/24/21 08:38	05/24/21 19:25	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		05/24/21 08:38	05/24/21 19:25	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/24/21 08:38	05/24/21 19:25	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		05/24/21 08:38	05/24/21 19:25	1
Total BTEX	<0.00404	U	0.00404		mg/Kg		05/24/21 08:38	05/24/21 19:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*05/24/21 08:38*	*05/24/21 19:25*	*1*
1,4-Difluorobenzene (Surr)	*117*		*70 - 130*	*05/24/21 08:38*	*05/24/21 19:25*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/24/21 16:28	05/25/21 07:03	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/24/21 16:28	05/25/21 07:03	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/24/21 16:28	05/25/21 07:03	1
Total TPH	<49.9	U	49.9		mg/Kg		05/24/21 16:28	05/25/21 07:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*87*		*70 - 130*	*05/24/21 16:28*	*05/25/21 07:03*	*1*
o-Terphenyl	*79*		*70 - 130*	*05/24/21 16:28*	*05/25/21 07:03*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6.14**		4.97		mg/Kg			05/26/21 14:50	1

Client Sample Results

Client: EOR/Ridgeway Arizona Oil Corp
Job ID: 890-714-1
Project/Site: Diamond PWU 22 114

Client Sample ID: CS10
Lab Sample ID: 890-714-10
Date Collected: 05/21/21 00:00
Matrix: Solid
Date Received: 05/21/21 13:48

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		05/24/21 08:38	05/24/21 19:45	1
Toluene	<0.00198	U	0.00198		mg/Kg		05/24/21 08:38	05/24/21 19:45	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		05/24/21 08:38	05/24/21 19:45	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		05/24/21 08:38	05/24/21 19:45	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		05/24/21 08:38	05/24/21 19:45	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		05/24/21 08:38	05/24/21 19:45	1
Total BTEX	<0.00396	U	0.00396		mg/Kg		05/24/21 08:38	05/24/21 19:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*05/24/21 08:38*	*05/24/21 19:45*	*1*
1,4-Difluorobenzene (Surr)	*114*		*70 - 130*	*05/24/21 08:38*	*05/24/21 19:45*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/24/21 16:28	05/25/21 07:24	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/24/21 16:28	05/25/21 07:24	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/24/21 16:28	05/25/21 07:24	1
Total TPH	<50.0	U	50.0		mg/Kg		05/24/21 16:28	05/25/21 07:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*91*		*70 - 130*	*05/24/21 16:28*	*05/25/21 07:24*	*1*
o-Terphenyl	*87*		*70 - 130*	*05/24/21 16:28*	*05/25/21 07:24*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			05/26/21 14:55	1

Surrogate Summary

Client: EOR/Ridgeway Arizona Oil Corp
Project/Site: Diamond PWU 22 114

Job ID: 890-714-1

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-2355-A-11-F MS	Matrix Spike	89	113
880-2355-A-11-G MSD	Matrix Spike Duplicate	94	112
890-714-1	CS1	100	114
890-714-2	CS2	100	109
890-714-3	CS3	103	125
890-714-4	CS4	103	135 S1+
890-714-5	CS5	101	95
890-714-6	CS6	107	117
890-714-7	CS7	118	103
890-714-8	CS8	100	123
890-714-9	CS9	100	117
890-714-10	CS10	105	114
LCS 880-3385/1-A	Lab Control Sample	95	120
LCSD 880-3385/2-A	Lab Control Sample Dup	89	113
MB 880-3385/5-A	Method Blank	94	99

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-714-1	CS1	107	103
890-714-2	CS2	110	103
890-714-3	CS3	131 S1+	124
890-714-4	CS4	108	103
890-714-5	CS5	98	90
890-714-6	CS6	96	90
890-714-7	CS7	131 S1+	125
890-714-8	CS8	99	96
890-714-9	CS9	87	79
890-714-10	CS10	91	87
890-717-A-1-C MS	Matrix Spike	96	85
890-717-A-1-D MSD	Matrix Spike Duplicate	97	84
MB 880-3430/1-A	Method Blank	107	103

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID		
LCSD 880-3430/3-A	Lab Control Sample Dup		

Surrogate Summary

Client: EOR/Ridgeway Arizona Oil Corp
Job ID: 890-714-1
Project/Site: Diamond PWU 22 114

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: EOR/Ridgeway Arizona Oil Corp
Project/Site: Diamond PWU 22 114

Job ID: 890-714-1

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-3385/5-A
Matrix: Solid
Analysis Batch: 3387

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 3385

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/24/21 08:38	05/24/21 11:49	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/24/21 08:38	05/24/21 11:49	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/24/21 08:38	05/24/21 11:49	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/24/21 08:38	05/24/21 11:49	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/24/21 08:38	05/24/21 11:49	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/24/21 08:38	05/24/21 11:49	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		05/24/21 08:38	05/24/21 11:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*05/24/21 08:38*	*05/24/21 11:49*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*05/24/21 08:38*	*05/24/21 11:49*	*1*

Lab Sample ID: LCS 880-3385/1-A
Matrix: Solid
Analysis Batch: 3387

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 3385

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			0.100	0.1006		mg/Kg		101	70 - 130		
Toluene			0.100	0.1039		mg/Kg		104	70 - 130		
Ethylbenzene			0.100	0.1029		mg/Kg		103	70 - 130		
m-Xylene & p-Xylene			0.200	0.2025		mg/Kg		101	70 - 130		
o-Xylene			0.100	0.09981		mg/Kg		100	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*
1,4-Difluorobenzene (Surr)	*120*		*70 - 130*

Lab Sample ID: LCSD 880-3385/2-A
Matrix: Solid
Analysis Batch: 3387

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 3385

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.100	0.09114		mg/Kg		91	70 - 130	10	35
Toluene			0.100	0.09703		mg/Kg		97	70 - 130	7	35
Ethylbenzene			0.100	0.09520		mg/Kg		95	70 - 130	8	35
m-Xylene & p-Xylene			0.200	0.1934		mg/Kg		97	70 - 130	5	35
o-Xylene			0.100	0.09293		mg/Kg		93	70 - 130	7	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*
1,4-Difluorobenzene (Surr)	*113*		*70 - 130*

Lab Sample ID: 880-2355-A-11-F MS
Matrix: Solid
Analysis Batch: 3387

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 3385

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene	<0.00200	U	0.101	0.08198		mg/Kg		81	70 - 130		

QC Sample Results

Client: EOR/Ridgeway Arizona Oil Corp
Project/Site: Diamond PWU 22 114

Job ID: 890-714-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-2355-A-11-F MS
Matrix: Solid
Analysis Batch: 3387

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 3385

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Toluene	<0.00200	U	0.101	0.07849		mg/Kg		78	70 - 130
Ethylbenzene	<0.00200	U	0.101	0.07268		mg/Kg		72	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.202	0.1423		mg/Kg		71	70 - 130
o-Xylene	<0.00200	U	0.101	0.07243		mg/Kg		72	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*
1,4-Difluorobenzene (Surr)	*113*		*70 - 130*

Lab Sample ID: 880-2355-A-11-G MSD
Matrix: Solid
Analysis Batch: 3387

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 3385

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.0996	0.07914		mg/Kg		79	70 - 130	4	35
Toluene	<0.00200	U	0.0996	0.07600		mg/Kg		76	70 - 130	3	35
Ethylbenzene	<0.00200	U	0.0996	0.07077		mg/Kg		71	70 - 130	3	35
m-Xylene & p-Xylene	<0.00399	U	0.199	0.1420		mg/Kg		71	70 - 130	0	35
o-Xylene	<0.00200	U	0.0996	0.07096		mg/Kg		71	70 - 130	2	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-3430/1-A
Matrix: Solid
Analysis Batch: 3406

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 3430

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/24/21 16:28	05/25/21 11:37	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/24/21 16:28	05/25/21 11:37	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/24/21 16:28	05/25/21 11:37	1
Total TPH	<50.0	U	50.0		mg/Kg		05/24/21 16:28	05/25/21 11:37	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*107*		*70 - 130*	*05/24/21 16:28*	*05/25/21 11:37*	*1*
o-Terphenyl	*103*		*70 - 130*	*05/24/21 16:28*	*05/25/21 11:37*	*1*

Lab Sample ID: LCSD 880-3430/3-A
Matrix: Solid
Analysis Batch: 3406

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 3430

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	848.6		mg/Kg					

QC Sample Results

Client: EOR/Ridgeway Arizona Oil Corp
Project/Site: Diamond PWU 22 114

Job ID: 890-714-1

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 880-3430/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 3406 — **Prep Batch: 3430**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics (Over C10-C28)			1000	995.0		mg/Kg					

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane			
o-Terphenyl			

Lab Sample ID: 890-717-A-1-C MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 3406 — **Prep Batch: 3430**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	996	833.6		mg/Kg		81	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	996	999.3		mg/Kg		100	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*96*		*70 - 130*
o-Terphenyl	*85*		*70 - 130*

Lab Sample ID: 890-717-A-1-D MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 3406 — **Prep Batch: 3430**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	996	818.4		mg/Kg		80	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<49.9	U	996	1012		mg/Kg		102	70 - 130	1	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*97*		*70 - 130*
o-Terphenyl	*84*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-3410/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 3426

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			05/24/21 14:56	1

Lab Sample ID: LCS 880-3410/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 3426

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride			250	235.3		mg/Kg		94	90 - 110

QC Sample Results

Client: EOR/Ridgeway Arizona Oil Corp
Project/Site: Diamond PWU 22 114

Job ID: 890-714-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCSD 880-3410/3-A
Matrix: Solid
Analysis Batch: 3426

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride			250	231.8		mg/Kg		93	90 - 110	1	20

Lab Sample ID: 890-701-A-1-F MS
Matrix: Solid
Analysis Batch: 3426

Client Sample ID: Matrix Spike
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	36.0		250	278.1		mg/Kg		97	90 - 110		

Lab Sample ID: 890-701-A-1-G MSD
Matrix: Solid
Analysis Batch: 3426

Client Sample ID: Matrix Spike Duplicate
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	36.0		250	278.4		mg/Kg		97	90 - 110	0	20

Lab Sample ID: MB 880-3419/1-A
Matrix: Solid
Analysis Batch: 3480

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			05/26/21 12:47	1

Lab Sample ID: LCS 880-3419/2-A
Matrix: Solid
Analysis Batch: 3480

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			250	250.0		mg/Kg		100	90 - 110		

Lab Sample ID: LCSD 880-3419/3-A
Matrix: Solid
Analysis Batch: 3480

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride			250	250.1		mg/Kg		100	90 - 110	0	20

Lab Sample ID: 890-714-5 MS
Matrix: Solid
Analysis Batch: 3480

Client Sample ID: CS5
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	19.0		250	265.2		mg/Kg		98	90 - 110		

Lab Sample ID: 890-714-5 MSD
Matrix: Solid
Analysis Batch: 3480

Client Sample ID: CS5
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	19.0		250	265.3		mg/Kg		99	90 - 110	0	20

QC Association Summary

Client: EOR/Ridgeway Arizona Oil Corp
Project/Site: Diamond PWU 22 114

Job ID: 890-714-1

GC VOA

Prep Batch: 3385

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-714-1	CS1	Total/NA	Solid	5035	
890-714-2	CS2	Total/NA	Solid	5035	
890-714-3	CS3	Total/NA	Solid	5035	
890-714-4	CS4	Total/NA	Solid	5035	
890-714-5	CS5	Total/NA	Solid	5035	
890-714-6	CS6	Total/NA	Solid	5035	
890-714-7	CS7	Total/NA	Solid	5035	
890-714-8	CS8	Total/NA	Solid	5035	
890-714-9	CS9	Total/NA	Solid	5035	
890-714-10	CS10	Total/NA	Solid	5035	
MB 880-3385/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-3385/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-3385/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-2355-A-11-F MS	Matrix Spike	Total/NA	Solid	5035	
880-2355-A-11-G MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 3387

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-714-1	CS1	Total/NA	Solid	8021B	3385
890-714-2	CS2	Total/NA	Solid	8021B	3385
890-714-3	CS3	Total/NA	Solid	8021B	3385
890-714-4	CS4	Total/NA	Solid	8021B	3385
890-714-5	CS5	Total/NA	Solid	8021B	3385
890-714-6	CS6	Total/NA	Solid	8021B	3385
890-714-7	CS7	Total/NA	Solid	8021B	3385
890-714-8	CS8	Total/NA	Solid	8021B	3385
890-714-9	CS9	Total/NA	Solid	8021B	3385
890-714-10	CS10	Total/NA	Solid	8021B	3385
MB 880-3385/5-A	Method Blank	Total/NA	Solid	8021B	3385
LCS 880-3385/1-A	Lab Control Sample	Total/NA	Solid	8021B	3385
LCSD 880-3385/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	3385
880-2355-A-11-F MS	Matrix Spike	Total/NA	Solid	8021B	3385
880-2355-A-11-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	3385

GC Semi VOA

Analysis Batch: 3406

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-714-1	CS1	Total/NA	Solid	8015B NM	3430
890-714-2	CS2	Total/NA	Solid	8015B NM	3430
890-714-3	CS3	Total/NA	Solid	8015B NM	3430
890-714-4	CS4	Total/NA	Solid	8015B NM	3430
890-714-5	CS5	Total/NA	Solid	8015B NM	3430
890-714-6	CS6	Total/NA	Solid	8015B NM	3430
890-714-7	CS7	Total/NA	Solid	8015B NM	3430
890-714-8	CS8	Total/NA	Solid	8015B NM	3430
890-714-9	CS9	Total/NA	Solid	8015B NM	3430
890-714-10	CS10	Total/NA	Solid	8015B NM	3430
MB 880-3430/1-A	Method Blank	Total/NA	Solid	8015B NM	3430
LCSD 880-3430/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	3430
890-717-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	3430

QC Association Summary

Client: EOR/Ridgeway Arizona Oil Corp
Project/Site: Diamond PWU 22 114

Job ID: 890-714-1

GC Semi VOA (Continued)

Analysis Batch: 3406 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-717-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	3430

Prep Batch: 3430

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-714-1	CS1	Total/NA	Solid	8015NM Prep	
890-714-2	CS2	Total/NA	Solid	8015NM Prep	
890-714-3	CS3	Total/NA	Solid	8015NM Prep	
890-714-4	CS4	Total/NA	Solid	8015NM Prep	
890-714-5	CS5	Total/NA	Solid	8015NM Prep	
890-714-6	CS6	Total/NA	Solid	8015NM Prep	
890-714-7	CS7	Total/NA	Solid	8015NM Prep	
890-714-8	CS8	Total/NA	Solid	8015NM Prep	
890-714-9	CS9	Total/NA	Solid	8015NM Prep	
890-714-10	CS10	Total/NA	Solid	8015NM Prep	
MB 880-3430/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCSD 880-3430/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-717-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-717-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

HPLC/IC

Leach Batch: 3410

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-714-1	CS1	Soluble	Solid	DI Leach	
890-714-2	CS2	Soluble	Solid	DI Leach	
890-714-3	CS3	Soluble	Solid	DI Leach	
890-714-4	CS4	Soluble	Solid	DI Leach	
MB 880-3410/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-3410/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-3410/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-701-A-1-F MS	Matrix Spike	Soluble	Solid	DI Leach	
890-701-A-1-G MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Leach Batch: 3419

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-714-5	CS5	Soluble	Solid	DI Leach	
890-714-6	CS6	Soluble	Solid	DI Leach	
890-714-7	CS7	Soluble	Solid	DI Leach	
890-714-8	CS8	Soluble	Solid	DI Leach	
890-714-9	CS9	Soluble	Solid	DI Leach	
890-714-10	CS10	Soluble	Solid	DI Leach	
MB 880-3419/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-3419/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-3419/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-714-5 MS	CS5	Soluble	Solid	DI Leach	
890-714-5 MSD	CS5	Soluble	Solid	DI Leach	

Analysis Batch: 3426

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-714-1	CS1	Soluble	Solid	300.0	3410
890-714-2	CS2	Soluble	Solid	300.0	3410

QC Association Summary

Client: EOR/Ridgeway Arizona Oil Corp
Project/Site: Diamond PWU 22 114

Job ID: 890-714-1

HPLC/IC (Continued)

Analysis Batch: 3426 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-714-3	CS3	Soluble	Solid	300.0	3410
890-714-4	CS4	Soluble	Solid	300.0	3410
MB 880-3410/1-A	Method Blank	Soluble	Solid	300.0	3410
LCS 880-3410/2-A	Lab Control Sample	Soluble	Solid	300.0	3410
LCSD 880-3410/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	3410
890-701-A-1-F MS	Matrix Spike	Soluble	Solid	300.0	3410
890-701-A-1-G MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	3410

Analysis Batch: 3480

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-714-5	CS5	Soluble	Solid	300.0	3419
890-714-6	CS6	Soluble	Solid	300.0	3419
890-714-7	CS7	Soluble	Solid	300.0	3419
890-714-8	CS8	Soluble	Solid	300.0	3419
890-714-9	CS9	Soluble	Solid	300.0	3419
890-714-10	CS10	Soluble	Solid	300.0	3419
MB 880-3419/1-A	Method Blank	Soluble	Solid	300.0	3419
LCS 880-3419/2-A	Lab Control Sample	Soluble	Solid	300.0	3419
LCSD 880-3419/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	3419
890-714-5 MS	CS5	Soluble	Solid	300.0	3419
890-714-5 MSD	CS5	Soluble	Solid	300.0	3419

Lab Chronicle

Client: EOR/Ridgeway Arizona Oil Corp
Job ID: 890-714-1
Project/Site: Diamond PWU 22 114

Client Sample ID: CS1
Lab Sample ID: 890-714-1
Date Collected: 05/21/21 00:00
Matrix: Solid
Date Received: 05/21/21 13:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	3385	05/24/21 08:38	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3387	05/24/21 16:39	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	3430	05/24/21 16:28	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3406	05/25/21 04:16	AM	XEN MID
Soluble	Leach	DI Leach			5.00 g	50 mL	3410	05/24/21 11:24	SC	XEN MID
Soluble	Analysis	300.0		1			3426	05/24/21 17:15	CH	XEN MID

Client Sample ID: CS2
Lab Sample ID: 890-714-2
Date Collected: 05/21/21 00:00
Matrix: Solid
Date Received: 05/21/21 13:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	3385	05/24/21 08:38	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3387	05/24/21 17:00	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	3430	05/24/21 16:28	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3406	05/25/21 04:37	AM	XEN MID
Soluble	Leach	DI Leach			4.97 g	50 mL	3410	05/24/21 11:24	SC	XEN MID
Soluble	Analysis	300.0		1			3426	05/24/21 17:20	CH	XEN MID

Client Sample ID: CS3
Lab Sample ID: 890-714-3
Date Collected: 05/21/21 00:00
Matrix: Solid
Date Received: 05/21/21 13:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	3385	05/24/21 08:38	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3387	05/24/21 17:20	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	3430	05/24/21 16:28	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3406	05/25/21 04:58	AM	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	3410	05/24/21 11:24	SC	XEN MID
Soluble	Analysis	300.0		1			3426	05/24/21 17:26	CH	XEN MID

Client Sample ID: CS4
Lab Sample ID: 890-714-4
Date Collected: 05/21/21 00:00
Matrix: Solid
Date Received: 05/21/21 13:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	3385	05/24/21 08:38	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3387	05/24/21 17:41	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	3430	05/24/21 16:28	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3406	05/25/21 05:19	AM	XEN MID
Soluble	Leach	DI Leach			5.00 g	50 mL	3410	05/24/21 11:24	SC	XEN MID
Soluble	Analysis	300.0		1			3426	05/24/21 17:31	CH	XEN MID

Lab Chronicle

Client: EOR/Ridgeway Arizona Oil Corp
Job ID: 890-714-1
Project/Site: Diamond PWU 22 114

Client Sample ID: CS5
Lab Sample ID: 890-714-5
Date Collected: 05/21/21 00:00
Matrix: Solid
Date Received: 05/21/21 13:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	3385	05/24/21 08:38	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3387	05/24/21 18:02	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	3430	05/24/21 16:28	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3406	05/25/21 05:39	AM	XEN MID
Soluble	Leach	DI Leach			5.00 g	50 mL	3419	05/24/21 13:30	SC	XEN MID
Soluble	Analysis	300.0		1	0 mL	1.0 mL	3480	05/26/21 14:10	CH	XEN MID

Client Sample ID: CS6
Lab Sample ID: 890-714-6
Date Collected: 05/21/21 00:00
Matrix: Solid
Date Received: 05/21/21 13:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	3385	05/24/21 08:38	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3387	05/24/21 18:23	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	3430	05/24/21 16:28	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3406	05/25/21 06:00	AM	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	3419	05/24/21 13:30	SC	XEN MID
Soluble	Analysis	300.0		1	0 mL	1.0 mL	3480	05/26/21 14:25	CH	XEN MID

Client Sample ID: CS7
Lab Sample ID: 890-714-7
Date Collected: 05/21/21 00:00
Matrix: Solid
Date Received: 05/21/21 13:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	3385	05/24/21 08:38	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3387	05/24/21 18:43	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	3430	05/24/21 16:28	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3406	05/25/21 06:21	AM	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	3419	05/24/21 13:30	SC	XEN MID
Soluble	Analysis	300.0		1	0 mL	1.0 mL	3480	05/26/21 14:30	CH	XEN MID

Client Sample ID: CS8
Lab Sample ID: 890-714-8
Date Collected: 05/21/21 00:00
Matrix: Solid
Date Received: 05/21/21 13:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	3385	05/24/21 08:38	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3387	05/24/21 19:04	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	3430	05/24/21 16:28	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3406	05/25/21 06:42	AM	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	3419	05/24/21 13:30	SC	XEN MID
Soluble	Analysis	300.0		1	0 mL	1.0 mL	3480	05/26/21 14:45	CH	XEN MID

Lab Chronicle

Client: EOR/Ridgeway Arizona Oil Corp
Job ID: 890-714-1
Project/Site: Diamond PWU 22 114

Client Sample ID: CS9
Lab Sample ID: 890-714-9
Date Collected: 05/21/21 00:00
Matrix: Solid
Date Received: 05/21/21 13:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	3385	05/24/21 08:38	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3387	05/24/21 19:25	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	3430	05/24/21 16:28	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3406	05/25/21 07:03	AM	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	3419	05/24/21 13:30	SC	XEN MID
Soluble	Analysis	300.0		1	0 mL	1.0 mL	3480	05/26/21 14:50	CH	XEN MID

Client Sample ID: CS10
Lab Sample ID: 890-714-10
Date Collected: 05/21/21 00:00
Matrix: Solid
Date Received: 05/21/21 13:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	3385	05/24/21 08:38	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3387	05/24/21 19:45	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	3430	05/24/21 16:28	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3406	05/25/21 07:24	AM	XEN MID
Soluble	Leach	DI Leach			5.00 g	50 mL	3419	05/24/21 13:30	SC	XEN MID
Soluble	Analysis	300.0		1	0 mL	1.0 mL	3480	05/26/21 14:55	CH	XEN MID

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: EOR/Ridgeway Arizona Oil Corp
Job ID: 890-714-1
Project/Site: Diamond PWU 22 114

Laboratory: Eurofins Xenco, Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-20-21	06-30-21

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015B NM	8015NM Prep	Solid	Total TPH
8021B	5035	Solid	Total BTEX

Method Summary

Client: EOR/Ridgeway Arizona Oil Corp
Job ID: 890-714-1
Project/Site: Diamond PWU 22 114

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: EOR/Ridgeway Arizona Oil Corp
Project/Site: Diamond PWU 22 114

Job ID: 890-714-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
890-714-1	CS1	Solid	05/21/21 00:00	05/21/21 13:48	
890-714-2	CS2	Solid	05/21/21 00:00	05/21/21 13:48	
890-714-3	CS3	Solid	05/21/21 00:00	05/21/21 13:48	
890-714-4	CS4	Solid	05/21/21 00:00	05/21/21 13:48	
890-714-5	CS5	Solid	05/21/21 00:00	05/21/21 13:48	
890-714-6	CS6	Solid	05/21/21 00:00	05/21/21 13:48	
890-714-7	CS7	Solid	05/21/21 00:00	05/21/21 13:48	
890-714-8	CS8	Solid	05/21/21 00:00	05/21/21 13:48	
890-714-9	CS9	Solid	05/21/21 00:00	05/21/21 13:48	
890-714-10	CS10	Solid	05/21/21 00:00	05/21/21 13:48	

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5/26/2021

eurofins | Environment Testing Xenco

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

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Project Manager:	Tom Bynum	Bill to: (if different)	Devon Energy
Company Name:	PIMA	Company Name:	
Address:	1601 N. Turner St.	Address:	
City, State ZIP:	Hobbs, NM 88240	City, State ZIP:	
Phone:		Email:	

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Diamond PAW 22 11H	Turn Around	☑ Routine ☐ Rush
Project Number:		Due Date:	
Project Location:		TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	S.C		
PO #:			

SAMPLE RECEIPT				
Temp Blank:	Yes (No)	Wet Ice:	Yes (No)	
Samples Received Intact:	(Yes) No	Thermometer ID:	INM-007	
Cooler Custody Seals:	Yes (No) N/A	Correction Factor:	+0.2	
Sample Custody Seals:	Yes (No) N/A	Temperature Reading:	24.4	
Total Containers:		Corrected Temperature:	24.2	

ANALYSIS REQUEST

Parameters: BTEX, TPH, Cl

890-714 Chain of Custody

Preservative Codes

None: NO | DI Water: H_2O
Cool: Cool | MeOH: Me
HCL: HC | HNO_3: HN
H_2SO_4: H_2 | NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Sample Comments
CS1	Soil	5/21/21			C	1	
CS2							
CS3							
CS4							
CS5							
CS6							
CS7							
CS8							
CS9							
CS10							

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010**: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		5.21.21 1345			
3			4		
5			6		

Revised Date: 08/25/2020 Rev: 2020.2

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Received by OCD: 6/4/2021 12:00:10 AM

Released to Imaging: 7/28/2021 10:45:36 AM

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Eurofins Xenco, Carlsbad
1089 N Canal St.
Carlsbad NM 88220
Phone 575-988-3199 Fax: 575-988-3199

Chain of Custody Record

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Client Information (Sub Contract Lab)	Sampler	Lab PM: Taylor Holly	Carrier Tracking No(s):	COC No: 890-232 1
Client Contact: Shipping/Receiving	Phone:	E-Mail: holly taylor@eurofinset.com	State of Origin: New Mexico	Page: Page 1 of 2
Company: Eurofins Xenco		Accreditations Required (See note): NELAP - Texas		Job #: 890-714-1
Address: 1211 W Florida Ave,	Due Date Requested: 5/27/2021			
City: Midland	TAT Requested (days):			
State, Zip: TX, 79701				
Phone: 432-704-5440(Tel)	PO #:			
Email	WO #:			
Project Name: Diamond PWU 22 114	Project #: 89000051			
Site:	SSOW#:			

Analysis Requested

Preservation Codes

A HCL, B - NaOH, C Zn Acetate, D - Nitric Acid, E NaHSO4, F MeOH, G - Amchlor, H - Ascorbic Acid, I Ice, J DI Water, K EDTA, L EDA, M Hexane, N None, O - AsNaO2, P - Na2O4S, Q Na2SO3, R Na2S2O3, S H2SO4, T - TSP Dodecahydrate, U Acetone, V MCAA, W pH 4-5, Z other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8021B/5035FP_Calc BTEX	300_ORGFM_28D/DI_LEACH Chloride	8015MOD_NM/8015NM_S_Prep Full TPH	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
CS1 (890-714-1)	5/21/21	Mountain		Solid			X	X	X	1	
CS2 (890-714-2)	5/21/21	Mountain		Solid			X	X	X	1	
CS3 (890-714-3)	5/21/21	Mountain		Solid			X	X	X	1	
CS4 (890-714-4)	5/21/21	Mountain		Solid			X	X	X	1	
CS5 (890-714-5)	5/21/21	Mountain		Solid			X	X	X	1	
CS6 (890-714-6)	5/21/21	Mountain		Solid			X	X	X	1	
CS7 (890-714-7)	5/21/21	Mountain		Solid			X	X	X	1	
CS8 (890-714-8)	5/21/21	Mountain		Solid			X	X	X	1	
CS9 (890-714-9)	5/21/21	Mountain		Solid			X	X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Xenco LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Xenco LLC

Possible Hazard Identification: Unconfirmed	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested I II III IV Other (specify) Primary Deliverable Rank. 2	Special Instructions/QC Requirements.

Empty Kit Relinquished by	Date	Time	Method of Shipment.

Relinquished by: Clue Cuffy	Date/Time: 5.21.21	Company	Received by:	Date/Time: 5-24-21 10:00 a.m	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact. Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks

Ver: 11/01/2020

Received by OCD: 6/4/2021 12:00:10 AM

Released to Imaging: 7/28/2021 10:45:36 AM

5/26/2021

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Login Sample Receipt Checklist

Client: EOR/Ridgeway Arizona Oil Corp Job Number: 890-714-1

Login Number: 714 **List Source: Eurofins Xenco, Carlsbad**
List Number: 1
Creator: Clifton, Cloe

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: EOR/Ridgeway Arizona Oil Corp Job Number: 890-714-1

Login Number: 714 **List Source: Eurofins Xenco, Midland**
List Number: 2 **List Creation: 05/24/21 10:11 AM**
Creator: Copeland, Tatiana

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2105355033
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: 6/1/2021

email: wesley.mathews@dvn.com Telephone: 575-613-8608

OCD Only

Received by: Robert Hamlet Date: 7/28/2021

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: Robert Hamlet Date: 7/28/2021

Printed Name: Robert Hamlet Title: Environmental Specialist - Advanced

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 30517

CONDITIONS

Operator: Pima Environmental Services, LLC 1601 N. Turner Hobbs, NM 88240	OGRID: 329999
	Action Number: 30517
	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 #NAPP2105355033 DIAMOND PWU 22 11H, thank you. This closure is approved.	7/28/2021