

Incident ID	NAB1511038592
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?	22 (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

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

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Field data
- Data table of soil contaminant concentration data
- Depth to water determination
- Determination of water sources and significant watercourses within 1/2-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

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

State of New Mexico
Oil Conservation Division

Page 4

Incident ID	NAB1511038592
District RP	
Facility ID	
Application ID	

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

Printed Name: Dale Woodall Title: EHS Professional
 Signature: *Dale Woodall* Date: 1/3/2023
 email: dale.woodall@dvn.com Telephone: 575-748-1838

OCD Only

Received by: Jocelyn Harimon Date: 01/03/2023

Incident ID	NAB1511038592
District RP	
Facility ID	
Application ID	

Closure

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

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

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

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

Printed Name: Dale Woodall Title: EHS Professional
 Signature: *Dale Woodall* Date: 1/3/2023
 email: dale.woodall@dvn.com Telephone: 575-748-1838

OCD Only

Received by: Jocelyn Harimon Date: 01/03/2023

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

Closure Approved by: *Ashley Maxwell* Date: 1/04/2023
 Printed Name: Ashley Maxwell Title: Environmental Specialist



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

January 3, 2023

Bureau of Land Management
 620 East Green St
 Carlsbad, NM, 88220

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

RE: Site Assessment, Liner Inspection, and Closure Report
Rigel 20 Federal Com #003H
API No. 30-015-39725
GPS: Latitude 32.6435781 Longitude -103.8989164
ULSTR – “L”, 20, 19S, 31E
NMOCD Reference No. NAB1511038592

Devon Energy Production Company (Devon) has contracted Pima Environmental Services, LLC (Pima) to perform a site assessment, liner inspection, and prepare this closure report for a crude oil/produced water mixed release that happened at the Rigel 20 Federal Com #003H (Rigel). An initial C-141 was submitted on April 20, 2015, and can be found in Appendix C. This incident was assigned Incident ID NAB1511038592, by the New Mexico Oil Conservation Division (NMOCD).

Site Information and Site Characterization

The Rigel is located approximately thirteen (13) miles South of Loco Hills, NM. This spill site is in Unit L, Section 20, Township 19S, Range 31E, Latitude 32.6435781 Longitude -103.8989164, Eddy County, NM. A Location Map can be found in Figure 1.

Per the New Mexico Bureau of Geology and Mineral Resources, the geology is made up of Eolian and piedmont deposits. Interlayered eolian sands and piedmont-slope deposits along the eastern flank of the Pecos River valley, primarily between Roswell and Carlsbad. Typically capped by thin eolian deposits. The soil in this area is made up of Kermit-Berino fine sands, 0 to 3 percent slopes according to the United States Department of Agriculture Natural Resources Conservation Service soil survey (Appendix B). The drainage courses in this area are excessively drained. There is a medium potential for karst geology to be present around the Rigel (Figure 3).

Based upon New Mexico Office of the State Engineer well water data, depth to the nearest groundwater in this area is 180 feet below-grade surface (BGS). According to the United States Geological Survey well water data, depth to the nearest groundwater in this area is 22 feet BGS. The closest waterway is Hackberry Lake approximately 1.91 miles to the west of this location. See Appendix A for referenced water surveys.

Table 1 NMAC and Closure Criteria 19.15.29					
Depth to Groundwater (Appendix A)	Constituent & Limits				
	Chlorides	Total TPH	GRO+DRO	BTEX	Benzene
<50' (Lack of GW data)	600 mg/kg	100 mg/kg		50 mg/kg	10 mg/kg
51-100'	10,000 mg/kg	2,500 mg/kg	1,000 mg/kg	50 mg/kg	10 mg/kg
>100'	20,000 mg/kg	2,500 mg/kg	1,000 mg/kg	50 mg/kg	10 mg/kg

A Topographic Map can be found in Figure 2.

Release Information

NAB1511038592: On April 14, 2015, the Lease Operator arrived at the Rigel 20 Fed 3H and discovered the vent tank was overflowing. The DCP line psi had been high overnight, and this caused the 2-Phase Production Separator back psi valve to hang open and equalize the 2-Phase Separator and Heater Treater this would not allow the 2-Phase to dump into the Heater Treater and caused a release of 75 bbls of oil and produced water mixture into the lined containment and a ½-bbl oil and produced water mist into the pasture. The 75 bbls was in a lined containment and all 75 bbls were recovered by vac truck. The pasture area was a 20x150 area to the Southwest of the location with ½-bbl mist from the back psi valve on the 2-phase separator this will be raked up and pressure washed with Dawn soap. The liner was checked for holes and no holes were found.

Site Assessment and Liner Inspection

On July 27, 2020, Pima Environmental conducted a site assessment and obtained composite soil samples to verify that the liner had not been breached, and the integrity was still intact. Location and background samples were also obtained in the pasture to ensure that the fluids expelled into the pasture had not contaminated the soil. The laboratory results of this sampling event can be found in the following data table.

7-27-20 Soil Sample Results

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is <50')								
DEVON ENERGY - RIGEL 20 FED COM #3H								
Date: 7/27/20		NM Approved Laboratory Results						
Sample ID	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg
S-1 N. Composite	0-6"	ND	ND	ND	ND	ND	0	1150
S-2 S. Composite	0-6"	ND	ND	ND	ND	ND	0	1700
S-3 E. Composite	0-6"	ND	ND	ND	ND	ND	0	96
S-4 W. Composite	0-6"	ND	ND	ND	646	164	810	9030
S-5	0-6"	ND	ND	ND	ND	ND	0	4480
	1'	ND	ND	ND	ND	ND	0	1480
	2'	ND	ND	ND	ND	ND	0	976
	3'	ND	ND	ND	ND	ND	0	864
S-6	0-6"	ND	ND	ND	ND	ND	0	224
	1'	ND	ND	ND	ND	ND	0	96
	2'	ND	ND	ND	ND	ND	0	128
	3'	ND	ND	ND	ND	ND	0	128
S-7	0-6"	ND	ND	ND	ND	ND	0	48
	1'	ND	ND	ND	ND	ND	0	32
	2'	ND	ND	ND	ND	ND	0	32
	3'	ND	ND	ND	ND	ND	0	16
BG-1	0-6"	ND	ND	ND	ND	ND	0	320
BG-2	0-6"	ND	ND	ND	ND	ND	0	ND
BG-3	0-6"	ND	ND	ND	ND	ND	0	ND
BG-4	0-6"	ND	ND	ND	ND	ND	0	ND
BG-5	0-6"	ND	ND	ND	ND	ND	0	ND
BG-6	0-6"	ND	ND	ND	ND	ND	0	32
BG-7	0-6"	ND	ND	ND	ND	ND	0	ND
BG-8	0-6"	ND	ND	ND	ND	ND	0	64

ND – Analyte Not Detected

Remediation Activities

On July 2, 2022, after sending the 48-hour notification email, Pima Environmental conducted a liner inspection at this location. We concluded that this liner and containment maintained its integrity and was able to retain the fluids. The liner inspection form and photographic documentation can be found in Appendix C.

On December 6, 2022, following the NMOCD's rejection of the previous closure report, Pima personnel returned to the site to collect new sample data from the overspray area. The laboratory results from this sampling event can be seen in the following data table.

12-6-2022 Soil Sampling Results

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is <50')								
DEVON ENERGY - RIGEL 20 FED COM #3H								
Date: 12/6/22		NM Approved Laboratory Results						
Sample ID	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg
BG-1	6"	ND	ND	ND	ND	ND	0	ND
SW-1	1'	ND	ND	ND	ND	ND	0	ND
SW-2	1'	ND	ND	ND	ND	ND	0	ND
SW-3	1'	ND	ND	ND	ND	ND	0	ND
S-1 1'	1'	ND	ND	ND	ND	ND	0	ND
S-1 2'	2'	ND	ND	ND	ND	ND	0	ND
S-2 1'	1'	ND	ND	ND	ND	ND	0	ND
S-2 2'	2'	ND	ND	ND	ND	ND	0	ND

ND – Analyte Not Detected

On December 13, 2022, Pima returned to the site to collect new sample data from around the secondary containment. The results of this sampling event can be found in the following data table.

12-13-2022

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is <50')								
DEVON ENERGY - RIGEL 20 FED COM #3H								
Date: 12/13/2022		NM Approved Laboratory Results						
Sample ID	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg
S1-N Comp	1'	ND	ND	ND	ND	ND	0	ND
S1-N Comp	2'	ND	ND	ND	ND	ND	0	ND
S2-S Comp	1'	ND	ND	ND	ND	ND	0	ND
S2-S Comp	2'	ND	ND	ND	ND	ND	0	ND
S3-E Comp	1'	ND	ND	ND	ND	ND	0	ND
S3-E Comp	2'	ND	ND	ND	ND	ND	0	ND
S4-W Comp	1'	ND	ND	ND	ND	ND	0	ND
S4-W Comp	2'	ND	ND	ND	ND	ND	0	ND
S5	6"	ND	ND	ND	ND	ND	0	ND
S5	2'	ND	ND	ND	ND	ND	0	ND
S5	4'	ND	ND	ND	ND	ND	0	ND

ND – Analyte Not Detected

Complete Laboratory Reports can be found in Appendix E.

Based on the new sample data collected, it is confirmed that contamination from this incident has been neutralized due to the combination of natural attenuation, several non-reportable spill clean-up efforts, and basic on-going site maintenance over the last 7 years.

Closure Request

After careful review, Pima requests that this incident, NAB1511038592 be closed. Devon has complied with the applicable closure requirements.

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

Attachments

Figures:

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

Appendices:

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



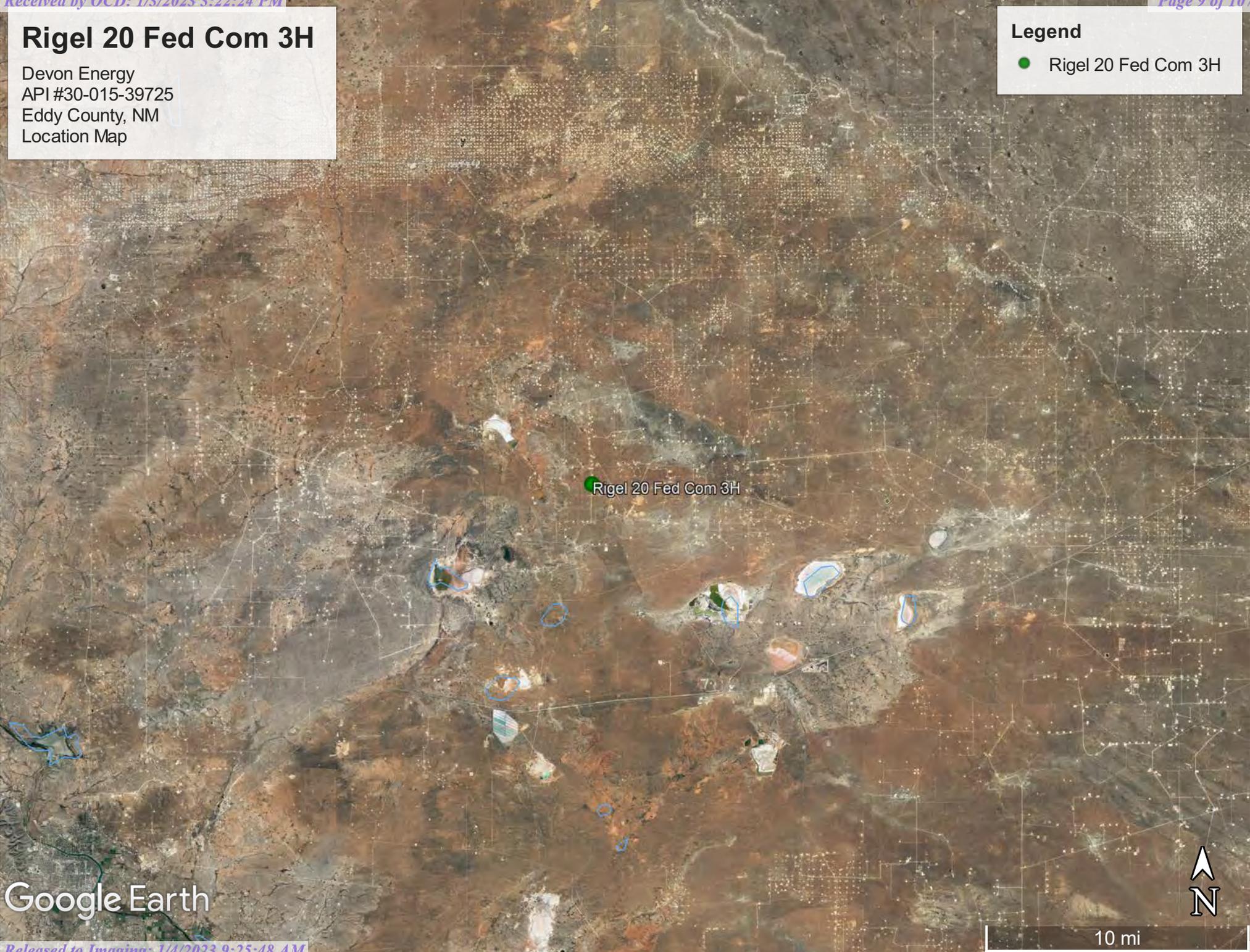
Pima Environmental Services

Figures:

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

Rigel 20 Fed Com 3H
Devon Energy
API #30-015-39725
Eddy County, NM
Location Map

Legend
● Rigel 20 Fed Com 3H



Google Earth

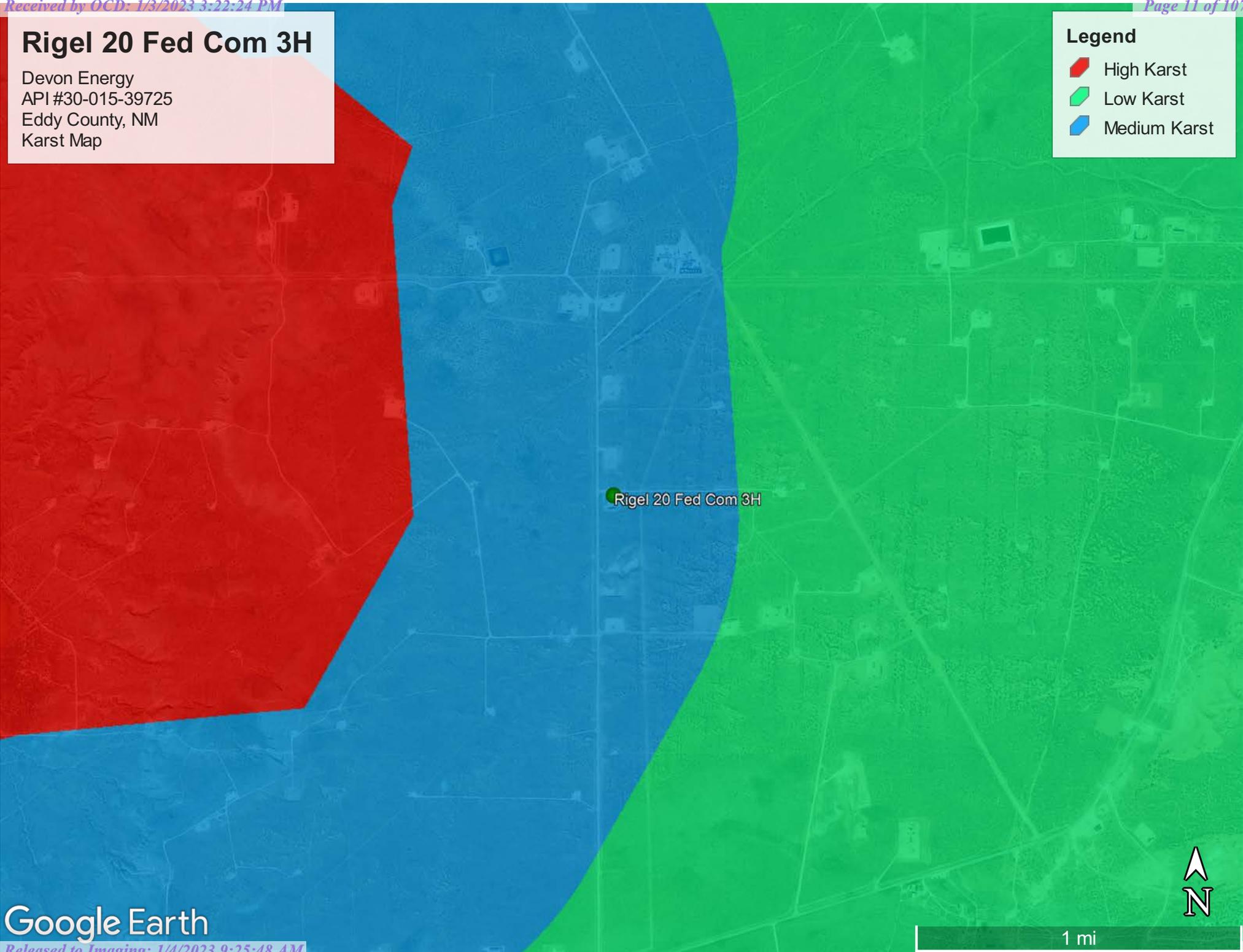


10 mi

Rigel 20 Fed Com 3H
Devon Energy
API #30-015-39725
Eddy County, NM
Karst Map

Legend

-  High Karst
-  Low Karst
-  Medium Karst



Devon Energy

Rigel 20 Fed Com #3H
API 30-015-39725
Eddy County, NM
Site Map-Original

Legend

○ Samples



Google Earth

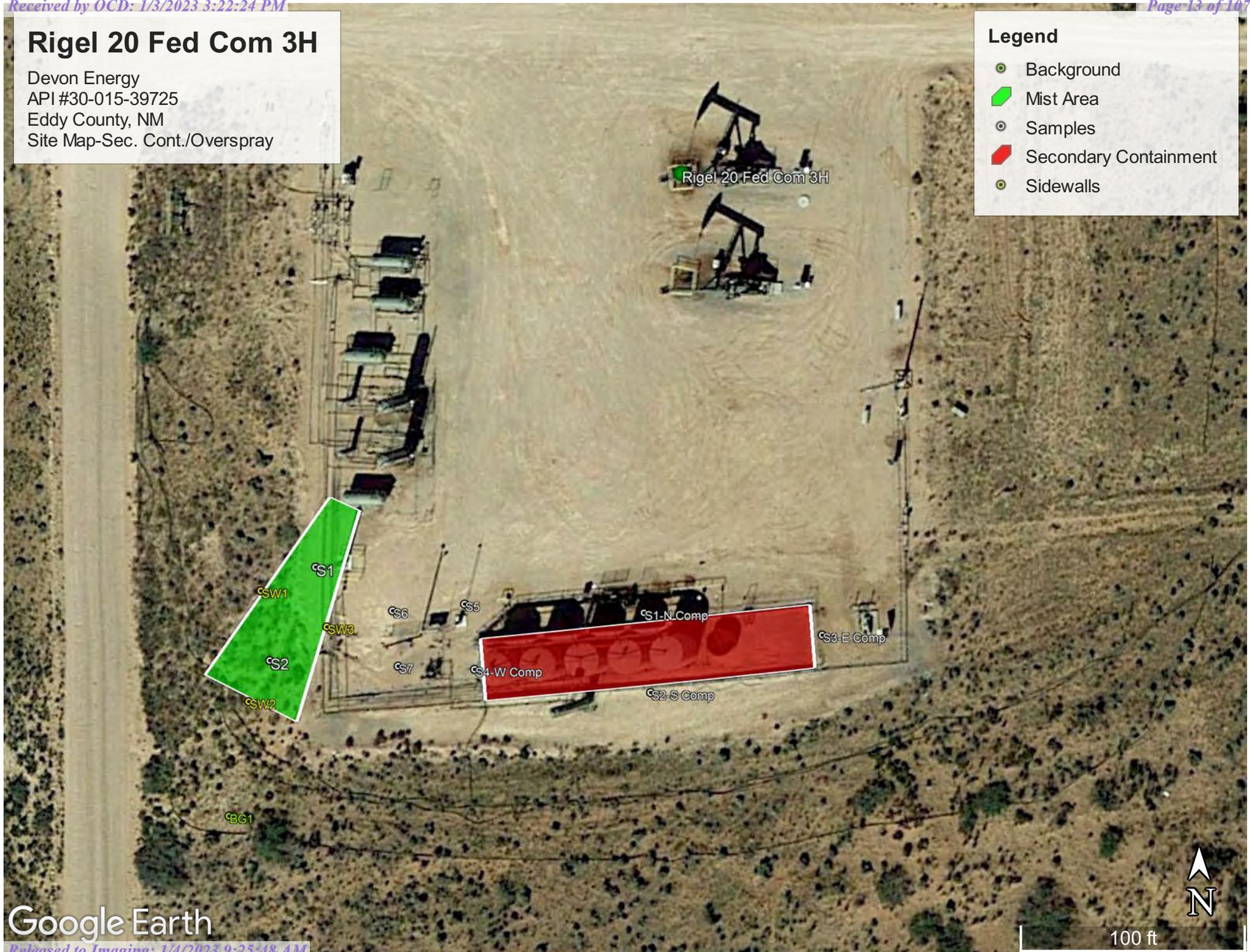
200 ft

Rigel 20 Fed Com 3H

Devon Energy
API #30-015-39725
Eddy County, NM
Site Map-Sec. Cont./Overspray

Legend

-  Background
-  Mist Area
-  Samples
-  Secondary Containment
-  Sidewalls





Pima Environmental Services

Appendix A

Water Surveys:

OSE

USGS

Surface Water Map



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

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

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

(In feet)

POD Number	POD Code	Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Well Depth	Water Column
CP 00873 POD1		CP	LE	1	1	19	19S	31E		601772	3613147*	1719	340	180 160
CP 00725 POD1		CP	ED	1	3	3	28	19S	31E	604906	3610473*	2457	231	
CP 00357 POD1		CP	ED	4	4	1	24	19S	30E	600667	3612631*	2626	630	
CP 00722 POD1		CP	LE	4	3	3	28	19S	31E	605106	3610273*	2739	200	
CP 00722 POD1	R	CP	LE	4	3	3	28	19S	31E	605106	3610273*	2739	200	
CP 00723 POD1		CP	ED	2	1	1	33	19S	31E	605111	3610071*	2896	139	
CP 00357 POD2		CP	ED	4	3	1	24	19S	30E	600265	3612627*	3025	630	
CP 00722 POD2		CP	ED	2	1	1	25	19S	30E	600276	3611620*	3076	350	65 285
CP 00829 POD1		CP	LE		2	4	16	19S	31E	606165	3614009*	3353	120	
CP 00722 POD3		CP	LE	2	4	1	33	19S	31E	605519	3609673*	3463	220	140 80

Average Depth to Water: **128 feet**
 Minimum Depth: **65 feet**
 Maximum Depth: **180 feet**

Record Count: 10

UTMNAD83 Radius Search (in meters):

Easting (X): 603273.76

Northing (Y): 3612309.82

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.

6/30/22 3:23 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER



USGS Home
Contact USGS
Search USGS

National Water Information System: Web Interface

USGS Water Resources

Data Category:

Groundwater

Geographic Area:

United States

GO

Click to hide News Bulletins

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

Groundwater levels for the Nation

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

Search Results -- 1 sites found

site_no list =

- 323810103554201

Minimum number of levels = 1

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

USGS 323810103554201 19S.30E.25.12133

Available data for this site

Groundwater: Field measurements

GO

Eddy County, New Mexico

Hydrologic Unit Code 13060011

Latitude 32°38'10", Longitude 103°55'42" NAD27

Land-surface elevation 3,248 feet above NAVD88

The depth of the well is 42 feet below land surface.

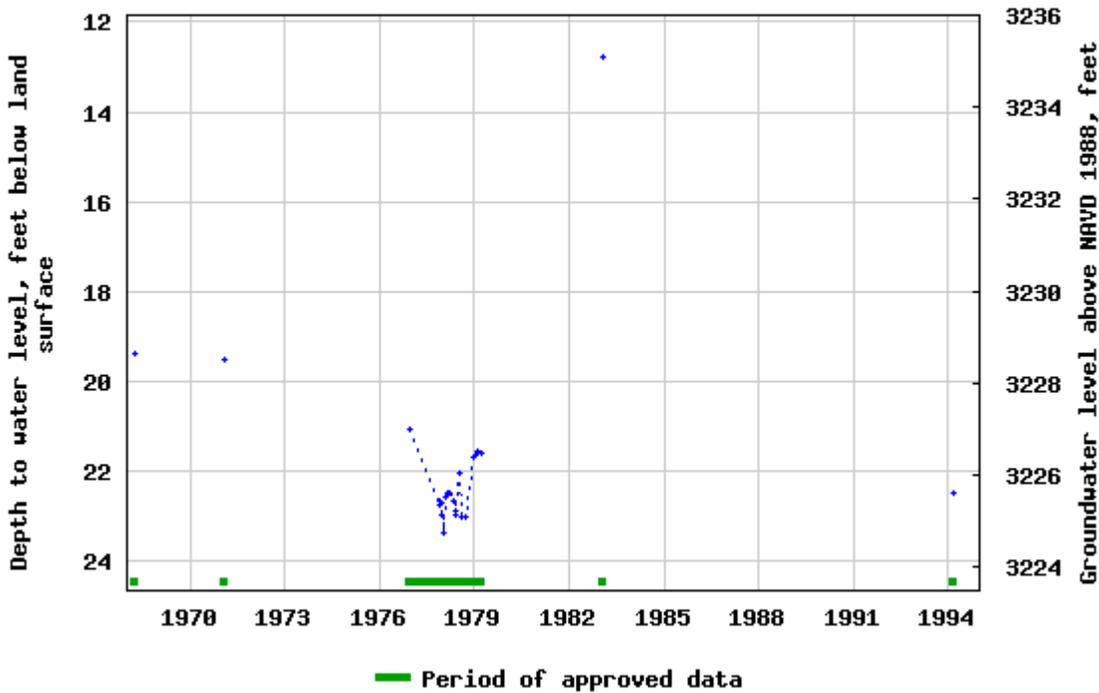
This well is completed in the Other aquifers (N9999OTHER) national aquifer.

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

Output formats

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

USGS 323810103554201 19S.30E.25.12133



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: 2022-06-30 16:47:11 EDT

0.7 0.63 nadww01

Rigel 20 Fed Com 3H

Devon Energy
API #30-015-39725
Eddy County, NM
Surface Water Map

Legend

-  1.91 Miles
-  Hackberry Lake





Pima Environmental Services

Appendix B

Soil Survey & Geological Data

FEMA Flood Map

Wetlands Map

Map Unit Description: Kermit-Berino fine sands, 0 to 3 percent slopes---Eddy Area, New Mexico

Eddy Area, New Mexico

KM—Kermit-Berino fine sands, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 1w4q
Elevation: 3,100 to 4,200 feet
Mean annual precipitation: 10 to 14 inches
Mean annual air temperature: 60 to 64 degrees F
Frost-free period: 190 to 230 days
Farmland classification: Not prime farmland

Map Unit Composition

Kermit and similar soils: 50 percent
Berino and similar soils: 35 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Kermit

Setting

Landform: Plains, alluvial fans
Landform position (three-dimensional): Talf, rise
Down-slope shape: Convex, linear
Across-slope shape: Linear
Parent material: Mixed alluvium and/or eolian sands

Typical profile

H1 - 0 to 7 inches: fine sand
H2 - 7 to 60 inches: fine sand

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Excessively drained
Runoff class: Negligible
Capacity of the most limiting layer to transmit water (Ksat): Very high (20.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Maximum salinity: Nonsaline (0.0 to 1.0 mmhos/cm)
Sodium adsorption ratio, maximum: 1.0
Available water supply, 0 to 60 inches: Low (about 3.1 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7e
Hydrologic Soil Group: A
Ecological site: R070BD005NM - Deep Sand
Hydric soil rating: No

Map Unit Description: Kermit-Berino fine sands, 0 to 3 percent slopes---Eddy Area, New Mexico

Description of Berino

Setting

Landform: Plains, fan piedmonts
Landform position (three-dimensional): Riser
Down-slope shape: Convex
Across-slope shape: Linear
Parent material: Mixed alluvium and/or eolian sands

Typical profile

H1 - 0 to 17 inches: fine sand
H2 - 17 to 50 inches: fine sandy loam
H3 - 50 to 58 inches: loamy sand

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Low
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 2.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 40 percent
Maximum salinity: Very slightly saline to slightly saline (2.0 to 4.0 mmhos/cm)
Sodium adsorption ratio, maximum: 1.0
Available water supply, 0 to 60 inches: Moderate (about 7.2 inches)

Interpretive groups

Land capability classification (irrigated): 4e
Land capability classification (nonirrigated): 7e
Hydrologic Soil Group: B
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Minor Components

Active dune land

Percent of map unit: 15 percent
Hydric soil rating: No

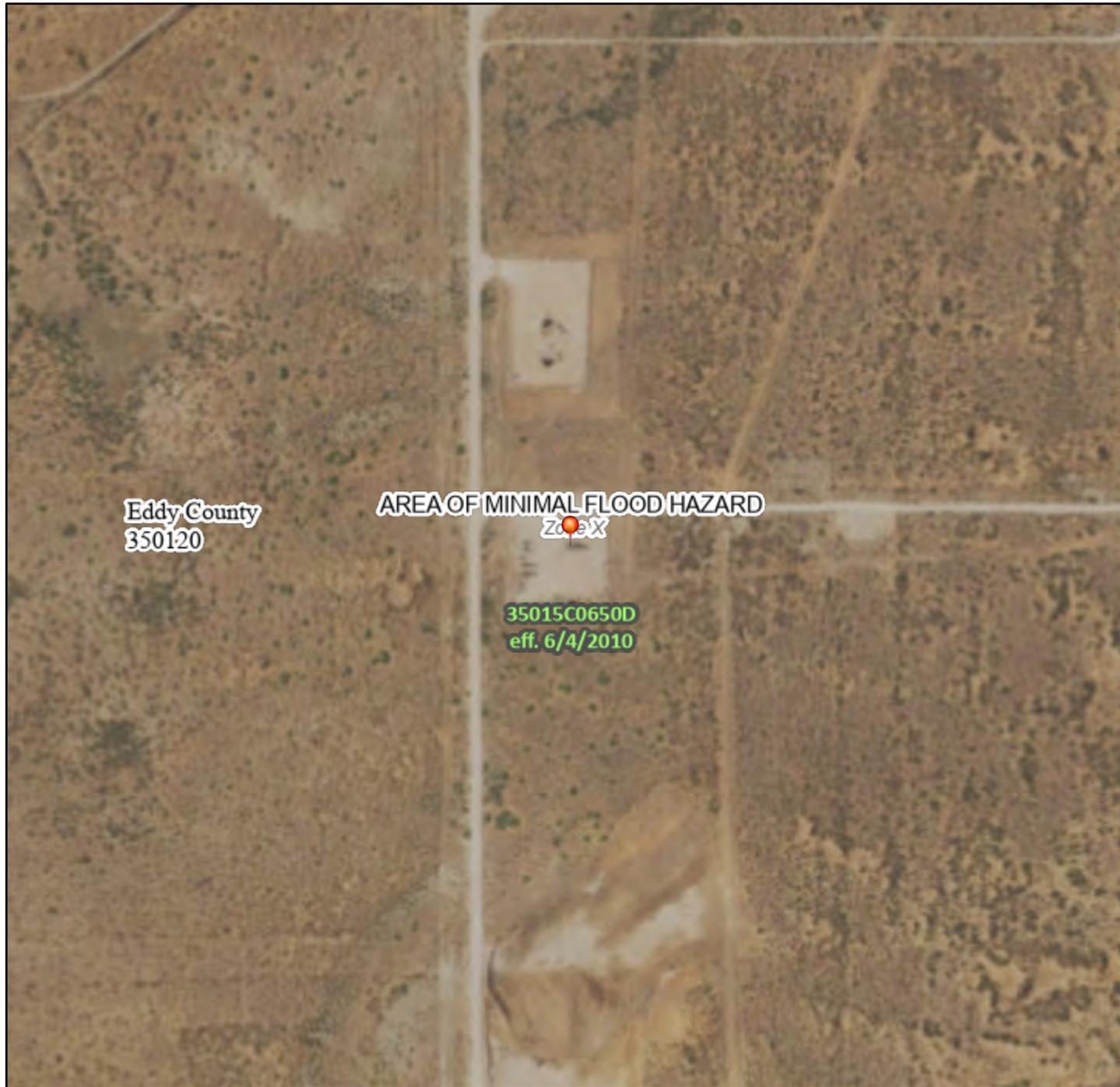
Data Source Information

Soil Survey Area: Eddy Area, New Mexico
Survey Area Data: Version 18, Sep 8, 2022

National Flood Hazard Layer FIRMMette



103°54'15"W 32°38'52"N



Legend

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

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) <i>Zone A, V, A99</i>
		With BFE or Depth <i>Zone AE, AO, AH, VE, AR</i>
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile <i>Zone X</i>
		Future Conditions 1% Annual Chance Flood Hazard <i>Zone X</i>
		Area with Reduced Flood Risk due to Levee. See Notes. <i>Zone X</i>
		Area with Flood Risk due to Levee <i>Zone D</i>
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard <i>Zone X</i>
		Effective LOMRs
GENERAL STRUCTURES		Area of Undetermined Flood Hazard <i>Zone D</i>
		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5 Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
		Profile Baseline
		Hydrographic Feature
MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped
		The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.



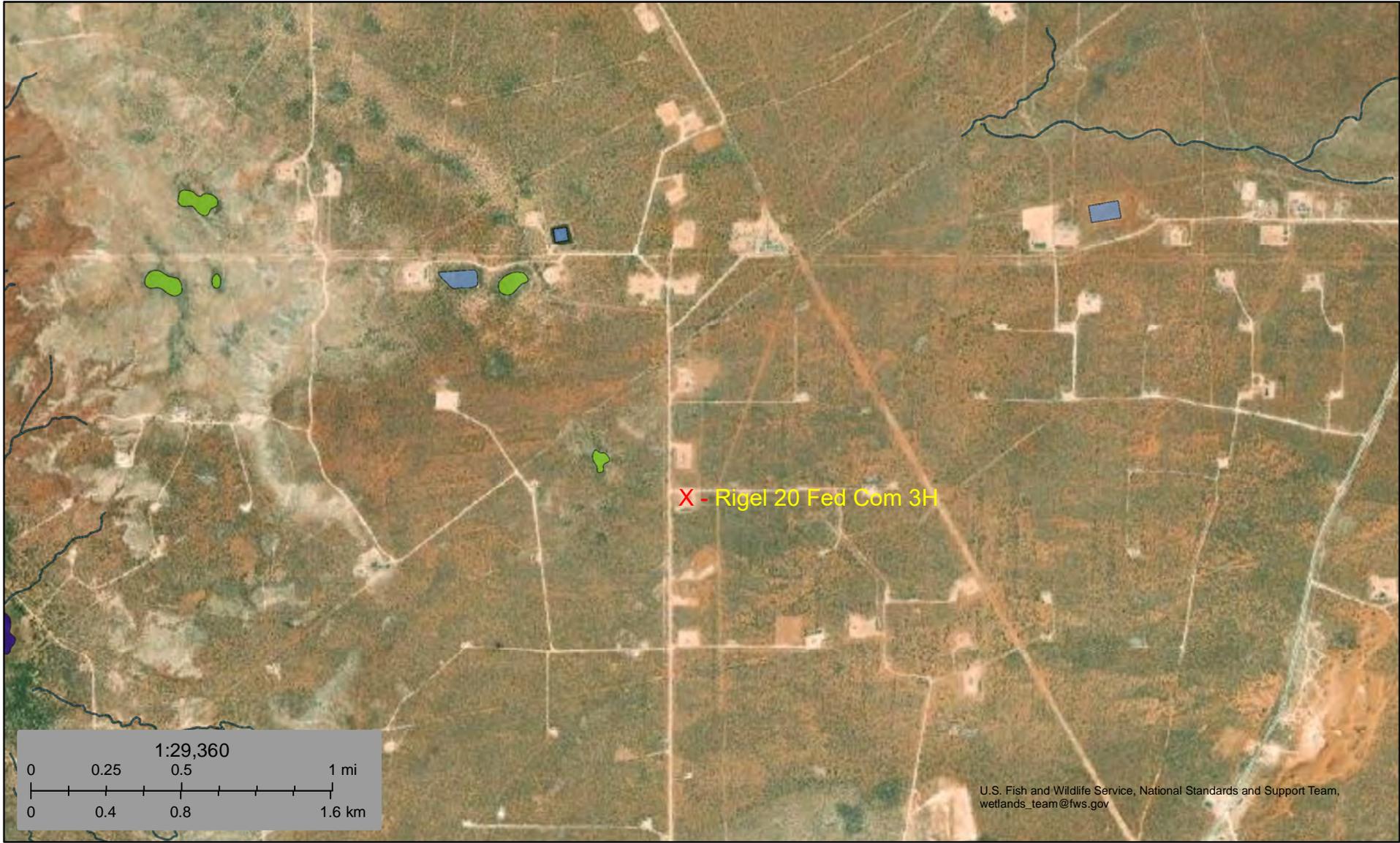
This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 12/13/2022 at 12:43 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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



Wetlands Map



December 13, 2022

Wetlands

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

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



Pima Environmental Services

Appendix C

C-141 Form

48-Hour Notification

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

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

ARTESIA DISTRICT

APR 17 2015

Form C-141
Revised August 8, 2011

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

RECEIVED

Release Notification and Corrective Action

NAB1511038592

OPERATOR

Initial Report Final Report

Name of Company Devon Energy Production <i>U137</i>	Contact Rudy Zuniga, Production Foreman
Address 6488 Seven Rivers Hwy Artesia, NM 88220	Telephone No. 575-390-5435
Facility Name Rigel 20 Fed 3H	Facility Type Oil

Surface Owner Federal	Mineral Owner Federal	API No. 30-015-39725
------------------------------	------------------------------	-----------------------------

LOCATION OF RELEASE

Unit Letter L	Section 20	Township 19S	Range 31E	Feet from the 1800	North/South Line FSL	Feet from the 330	East/West Line FWL	County Eddy
------------------	---------------	-----------------	--------------	-----------------------	-------------------------	----------------------	-----------------------	----------------

Latitude: 32.6435781'N

Longitude: 103.8989164'W

NATURE OF RELEASE

Type of Release Spill of Oil/Produced Water	Volume of Release 75.5bbls	Volume Recovered 75bbls
Source of Release 2-Phase Separator	Date and Hour of Occurrence April 14, 2015 9:00AM	Date and Hour of Discovery April 14, 2015 9:00 AM
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Jeff Robertson, BLM Mike Bratcher, OCD	
By Whom? Ray Carter, Asst. Production Foreman	Date and Hour Jeff Robertson, BLM April 14, 2015 10:30 AM Mike Bratcher, OCD April 14, 2015 11:00 AM	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse N/A	

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

Describe Cause of Problem and Remedial Action Taken.*

On April 14, 2105 9:00 AM the Lease Operator arrived at the Rigel 20 Fed 3H and discovered the vent tank was over flowing. The DCP line psi had been high overnight and this caused the 2-Phase Production Separator back psi valve to hang open and equalize the 2-Phase Separator and Heater Treator this would not allow the 2-Phase to dump into the Heater Treator and caused a release of 75bbls of oil and produced water mixture into the lined containment and a 1/2bbl oil and produced water mist into the pasture.

Describe Area Affected and Cleanup Action Taken.*

The 75bbls was in a lined containment and all 75bbls were recovered by vac truck. The pasture area was a 20x150 area to the Southwest of the location with 1/2bbl mist from the back psi valve on the 2-phase separator this will be raked up and pressure washed with Dawn soap. The liner was checked for holes and no holes were found.

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

Signature: <i>Sheila Fisher</i>	OIL CONSERVATION DIVISION	
Printed Name: Sheila Fisher	Signed By <i>Mike Bratcher</i>	
Title: Field Admin Support	Approved by Environmental Specialist:	Approval Date: <i>4/20/15</i> Expiration Date: <i>N/A</i>
E-mail Address: Sheila.Fisher@dvn.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 4/17/15 Phone: 575.748.1829	Remediation per O.C.D. Rules & Guidelines	
SUBMIT REMEDIATION PROPOSAL NO		
LATER THAN: <i>5/20/15</i>		

* Attach Additional Sheets If Necessary

2RP-2960

Incident ID	NAB1511038592
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?	22 (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

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

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

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

State of New Mexico
Oil Conservation Division

Page 4

Incident ID	NAB1511038592
District RP	
Facility ID	
Application ID	

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

Printed Name: Dale Woodall Title: EHS Professional
 Signature: *Dale Woodall* Date: 1/3/2023
 email: dale.woodall@dvn.com Telephone: 575-748-1838

OCD Only

Received by: _____ Date: _____

Incident ID	NAB1511038592
District RP	
Facility ID	
Application ID	

Closure

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

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

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

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

Printed Name: Dale Woodall Title: EHS Professional
 Signature: *Dale Woodall* Date: 1/3/2023
 email: dale.woodall@dvn.com Telephone: 575-748-1838

OCD Only

Received by: _____ Date: _____

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

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____



Gio PimaOil <gio@pimaoil.com>

Rigel 20 federal #3 Liner Inspection

1 message

Gio PimaOil <gio@pimaoil.com>

Thu, Jun 30, 2022 at 9:36 AM

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

Good Morning,

Pima Environmental would like to notify you that we will be conducting a liner Inspection at the Rigel 20 federal #3 for incident NAB1511038592. Pima personnel are scheduled to be on site for this Inspection event at approximately 9:00 a.m. On Saturday, July 2, 2022. If you have any questions or concerns, please let me know. Thank you.

--

Gio Gomez

Project Manager

cell-806-782-1151

Office- 575-964-7740

Pima Environmental Services, LLC.



Pima Environmental Services

Appendix D

Liner Inspection Form

Photographic Documentation



Pima Environmental Services, LLC

Liner Inspection Form

Company Name: Devon Energy

Site: Rigel 20 Fed 3H

Lat/Long: 32.6435781, -103.8989164

NMOCD Incident ID & Incident Date: NAB1511038592 4/14/2015

2-Day Notification Sent: via Email by Gio Gomez 6/30/2022

Inspection Date: 7/2/2022

Liner Type: Earthen w/liner Earthen no liner Polystar
 Steel w/poly liner Steel w/spray epoxy No Liner

Other: _____

Visualization	Yes	No	Comments
Is there a tear in the liner?		X	
Are there holes in the liner?		X	
Is the liner retaining any fluids?	X		Rain Water
Does the liner have integrity to contain a leak?	X		

Comments: _____

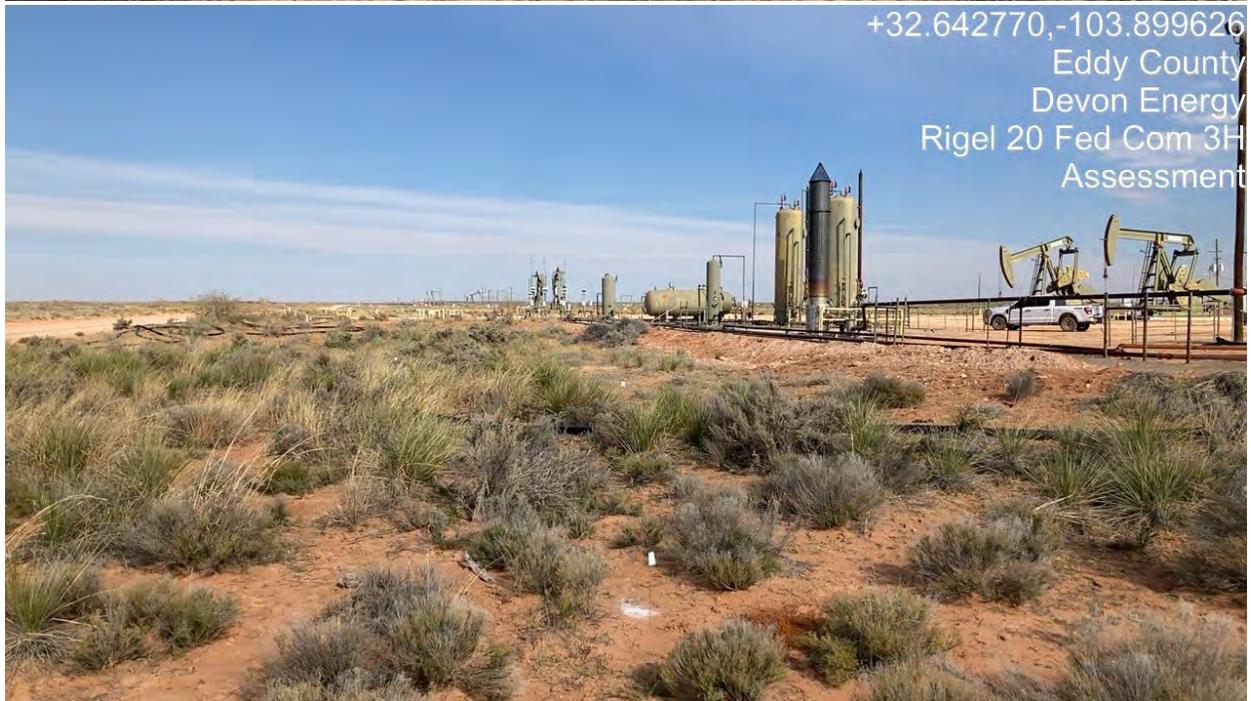
Inspector Name: Ned Rogers Inspector Signature: Ned Rogers



SITE PHOTOGRAPHS LINER INSPECTION









+32.643008,-103.899427
Eddy County
Devon Energy
Rigel 20 Fed Com 3H
Assessment



+32.643038,-103.899536
Eddy County
Devon Energy
Rigel 20 Fed Com 3H
Assessment



Pima Environmental Services

Appendix E

Laboratory Reports



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

July 30, 2020

CHRIS JONES

PIMA ENVIROMENTAL

1601 N TURNER STE. 500

HOBBS, NM 88240

RE: RIGEL 20 FED COM 3H

Enclosed are the results of analyses for samples received by the laboratory on 07/28/20 12:30.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/28/2020	Sampling Date:	07/27/2020
Reported:	07/30/2020	Sampling Type:	Soil
Project Name:	RIGEL 20 FED COM 3H	Sampling Condition:	Cool & Intact
Project Number:	31	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY		

Sample ID: N - COMP (H001951-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/28/2020	ND	1.83	91.5	2.00	4.16	
Toluene*	<0.050	0.050	07/28/2020	ND	1.85	92.5	2.00	3.95	
Ethylbenzene*	<0.050	0.050	07/28/2020	ND	1.86	93.0	2.00	3.90	
Total Xylenes*	<0.150	0.150	07/28/2020	ND	5.33	88.9	6.00	3.97	
Total BTEX	<0.300	0.300	07/28/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.2 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1150	16.0	07/29/2020	ND	432	108	400	3.77	

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	07/29/2020	ND	208	104	200	0.0970	
DRO >C10-C28*	<10.0	10.0	07/29/2020	ND	218	109	200	12.3	
EXT DRO >C28-C36	<10.0	10.0	07/29/2020	ND					

Surrogate: 1-Chlorooctane 90.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 102 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/28/2020	Sampling Date:	07/27/2020
Reported:	07/30/2020	Sampling Type:	Soil
Project Name:	RIGEL 20 FED COM 3H	Sampling Condition:	Cool & Intact
Project Number:	31	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY		

Sample ID: S - COMP (H001951-02)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/28/2020	ND	1.83	91.5	2.00	4.16	
Toluene*	<0.050	0.050	07/28/2020	ND	1.85	92.5	2.00	3.95	
Ethylbenzene*	<0.050	0.050	07/28/2020	ND	1.86	93.0	2.00	3.90	
Total Xylenes*	<0.150	0.150	07/28/2020	ND	5.33	88.9	6.00	3.97	
Total BTEX	<0.300	0.300	07/28/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.2 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1700	16.0	07/29/2020	ND	432	108	400	3.77	

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	07/29/2020	ND	208	104	200	0.0970	
DRO >C10-C28*	<10.0	10.0	07/29/2020	ND	218	109	200	12.3	
EXT DRO >C28-C36	<10.0	10.0	07/29/2020	ND					

Surrogate: 1-Chlorooctane 99.0 % 44.3-144

Surrogate: 1-Chlorooctadecane 111 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/28/2020	Sampling Date:	07/27/2020
Reported:	07/30/2020	Sampling Type:	Soil
Project Name:	RIGEL 20 FED COM 3H	Sampling Condition:	Cool & Intact
Project Number:	31	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY		

Sample ID: E - COMP (H001951-03)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/28/2020	ND	1.83	91.5	2.00	4.16	
Toluene*	<0.050	0.050	07/28/2020	ND	1.85	92.5	2.00	3.95	
Ethylbenzene*	<0.050	0.050	07/28/2020	ND	1.86	93.0	2.00	3.90	
Total Xylenes*	<0.150	0.150	07/28/2020	ND	5.33	88.9	6.00	3.97	
Total BTEX	<0.300	0.300	07/28/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.3 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	07/29/2020	ND	432	108	400	3.77	

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	07/29/2020	ND	208	104	200	0.0970	
DRO >C10-C28*	<10.0	10.0	07/29/2020	ND	218	109	200	12.3	
EXT DRO >C28-C36	<10.0	10.0	07/29/2020	ND					

Surrogate: 1-Chlorooctane 104 % 44.3-144

Surrogate: 1-Chlorooctadecane 116 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/28/2020	Sampling Date:	07/27/2020
Reported:	07/30/2020	Sampling Type:	Soil
Project Name:	RIGEL 20 FED COM 3H	Sampling Condition:	Cool & Intact
Project Number:	31	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY		

Sample ID: W - COMP (H001951-04)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/28/2020	ND	1.83	91.5	2.00	4.16	
Toluene*	<0.050	0.050	07/28/2020	ND	1.85	92.5	2.00	3.95	
Ethylbenzene*	<0.050	0.050	07/28/2020	ND	1.86	93.0	2.00	3.90	
Total Xylenes*	<0.150	0.150	07/28/2020	ND	5.33	88.9	6.00	3.97	
Total BTEX	<0.300	0.300	07/28/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.6 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8930	16.0	07/29/2020	ND	432	108	400	3.77	

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	07/29/2020	ND	208	104	200	0.0970	
DRO >C10-C28*	646	10.0	07/29/2020	ND	218	109	200	12.3	
EXT DRO >C28-C36	164	10.0	07/29/2020	ND					

Surrogate: 1-Chlorooctane 103 % 44.3-144

Surrogate: 1-Chlorooctadecane 144 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/28/2020	Sampling Date:	07/27/2020
Reported:	07/30/2020	Sampling Type:	Soil
Project Name:	RIGEL 20 FED COM 3H	Sampling Condition:	Cool & Intact
Project Number:	31	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY		

Sample ID: BG 1 (H001951-05)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/28/2020	ND	1.83	91.5	2.00	4.16	
Toluene*	<0.050	0.050	07/28/2020	ND	1.85	92.5	2.00	3.95	
Ethylbenzene*	<0.050	0.050	07/28/2020	ND	1.86	93.0	2.00	3.90	
Total Xylenes*	<0.150	0.150	07/28/2020	ND	5.33	88.9	6.00	3.97	
Total BTEX	<0.300	0.300	07/28/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.5 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	07/29/2020	ND	432	108	400	3.77	

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	07/29/2020	ND	208	104	200	0.0970	
DRO >C10-C28*	<10.0	10.0	07/29/2020	ND	218	109	200	12.3	
EXT DRO >C28-C36	<10.0	10.0	07/29/2020	ND					

Surrogate: 1-Chlorooctane 99.3 % 44.3-144

Surrogate: 1-Chlorooctadecane 110 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/28/2020	Sampling Date:	07/27/2020
Reported:	07/30/2020	Sampling Type:	Soil
Project Name:	RIGEL 20 FED COM 3H	Sampling Condition:	Cool & Intact
Project Number:	31	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY		

Sample ID: BG 3 (H001951-06)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/28/2020	ND	1.83	91.5	2.00	4.16	
Toluene*	<0.050	0.050	07/28/2020	ND	1.85	92.5	2.00	3.95	
Ethylbenzene*	<0.050	0.050	07/28/2020	ND	1.86	93.0	2.00	3.90	
Total Xylenes*	<0.150	0.150	07/28/2020	ND	5.33	88.9	6.00	3.97	
Total BTEX	<0.300	0.300	07/28/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.8 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/29/2020	ND	400	100	400	3.92	

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	07/29/2020	ND	208	104	200	0.0970	
DRO >C10-C28*	<10.0	10.0	07/29/2020	ND	218	109	200	12.3	
EXT DRO >C28-C36	<10.0	10.0	07/29/2020	ND					

Surrogate: 1-Chlorooctane 101 % 44.3-144

Surrogate: 1-Chlorooctadecane 113 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/28/2020	Sampling Date:	07/27/2020
Reported:	07/30/2020	Sampling Type:	Soil
Project Name:	RIGEL 20 FED COM 3H	Sampling Condition:	Cool & Intact
Project Number:	31	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY		

Sample ID: BG 4 (H001951-07)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/28/2020	ND	1.83	91.5	2.00	4.16	
Toluene*	<0.050	0.050	07/28/2020	ND	1.85	92.5	2.00	3.95	
Ethylbenzene*	<0.050	0.050	07/28/2020	ND	1.86	93.0	2.00	3.90	
Total Xylenes*	<0.150	0.150	07/28/2020	ND	5.33	88.9	6.00	3.97	
Total BTEX	<0.300	0.300	07/28/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.3 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/29/2020	ND	400	100	400	3.92	

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	07/29/2020	ND	208	104	200	0.0970	
DRO >C10-C28*	<10.0	10.0	07/29/2020	ND	218	109	200	12.3	
EXT DRO >C28-C36	<10.0	10.0	07/29/2020	ND					

Surrogate: 1-Chlorooctane 106 % 44.3-144

Surrogate: 1-Chlorooctadecane 117 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/28/2020	Sampling Date:	07/27/2020
Reported:	07/30/2020	Sampling Type:	Soil
Project Name:	RIGEL 20 FED COM 3H	Sampling Condition:	Cool & Intact
Project Number:	31	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY		

Sample ID: BG 5 (H001951-08)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/28/2020	ND	1.83	91.5	2.00	4.16	
Toluene*	<0.050	0.050	07/28/2020	ND	1.85	92.5	2.00	3.95	
Ethylbenzene*	<0.050	0.050	07/28/2020	ND	1.86	93.0	2.00	3.90	
Total Xylenes*	<0.150	0.150	07/28/2020	ND	5.33	88.9	6.00	3.97	
Total BTEX	<0.300	0.300	07/28/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.6 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/29/2020	ND	400	100	400	3.92	

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	07/29/2020	ND	208	104	200	0.0970	
DRO >C10-C28*	<10.0	10.0	07/29/2020	ND	218	109	200	12.3	
EXT DRO >C28-C36	<10.0	10.0	07/29/2020	ND					

Surrogate: 1-Chlorooctane 102 % 44.3-144

Surrogate: 1-Chlorooctadecane 112 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/28/2020	Sampling Date:	07/27/2020
Reported:	07/30/2020	Sampling Type:	Soil
Project Name:	RIGEL 20 FED COM 3H	Sampling Condition:	Cool & Intact
Project Number:	31	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY		

Sample ID: BG 6 (H001951-09)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/28/2020	ND	1.83	91.5	2.00	4.16	
Toluene*	<0.050	0.050	07/28/2020	ND	1.85	92.5	2.00	3.95	
Ethylbenzene*	<0.050	0.050	07/28/2020	ND	1.86	93.0	2.00	3.90	
Total Xylenes*	<0.150	0.150	07/28/2020	ND	5.33	88.9	6.00	3.97	
Total BTEX	<0.300	0.300	07/28/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.5 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/29/2020	ND	400	100	400	3.92	

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	07/29/2020	ND	208	104	200	0.0970	
DRO >C10-C28*	<10.0	10.0	07/29/2020	ND	218	109	200	12.3	
EXT DRO >C28-C36	<10.0	10.0	07/29/2020	ND					

Surrogate: 1-Chlorooctane 106 % 44.3-144

Surrogate: 1-Chlorooctadecane 120 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/28/2020	Sampling Date:	07/27/2020
Reported:	07/30/2020	Sampling Type:	Soil
Project Name:	RIGEL 20 FED COM 3H	Sampling Condition:	Cool & Intact
Project Number:	31	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY		

Sample ID: BG 7 (H001951-10)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/28/2020	ND	1.83	91.5	2.00	4.16	
Toluene*	<0.050	0.050	07/28/2020	ND	1.85	92.5	2.00	3.95	
Ethylbenzene*	<0.050	0.050	07/28/2020	ND	1.86	93.0	2.00	3.90	
Total Xylenes*	<0.150	0.150	07/28/2020	ND	5.33	88.9	6.00	3.97	
Total BTEX	<0.300	0.300	07/28/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.5 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/29/2020	ND	400	100	400	3.92	

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	07/29/2020	ND	208	104	200	0.0970	
DRO >C10-C28*	<10.0	10.0	07/29/2020	ND	218	109	200	12.3	
EXT DRO >C28-C36	<10.0	10.0	07/29/2020	ND					

Surrogate: 1-Chlorooctane 102 % 44.3-144

Surrogate: 1-Chlorooctadecane 114 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/28/2020	Sampling Date:	07/27/2020
Reported:	07/30/2020	Sampling Type:	Soil
Project Name:	RIGEL 20 FED COM 3H	Sampling Condition:	Cool & Intact
Project Number:	31	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY		

Sample ID: BG 8 (H001951-11)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/28/2020	ND	1.83	91.5	2.00	4.16	
Toluene*	<0.050	0.050	07/28/2020	ND	1.85	92.5	2.00	3.95	
Ethylbenzene*	<0.050	0.050	07/28/2020	ND	1.86	93.0	2.00	3.90	
Total Xylenes*	<0.150	0.150	07/28/2020	ND	5.33	88.9	6.00	3.97	
Total BTEX	<0.300	0.300	07/28/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.8 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	07/29/2020	ND	400	100	400	3.92	

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	07/29/2020	ND	208	104	200	0.0970	
DRO >C10-C28*	<10.0	10.0	07/29/2020	ND	218	109	200	12.3	
EXT DRO >C28-C36	<10.0	10.0	07/29/2020	ND					

Surrogate: 1-Chlorooctane 97.1 % 44.3-144

Surrogate: 1-Chlorooctadecane 107 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/28/2020	Sampling Date:	07/27/2020
Reported:	07/30/2020	Sampling Type:	Soil
Project Name:	RIGEL 20 FED COM 3H	Sampling Condition:	Cool & Intact
Project Number:	31	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY		

Sample ID: S5 - 0-6" (H001951-12)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/28/2020	ND	1.93	96.3	2.00	2.91		
Toluene*	<0.050	0.050	07/28/2020	ND	1.95	97.4	2.00	3.15		
Ethylbenzene*	<0.050	0.050	07/28/2020	ND	1.96	98.0	2.00	2.97		
Total Xylenes*	<0.150	0.150	07/28/2020	ND	5.65	94.1	6.00	2.88		
Total BTEX	<0.300	0.300	07/28/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.2 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4480	16.0	07/29/2020	ND	400	100	400	3.92		

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	07/29/2020	ND	208	104	200	0.0970		
DRO >C10-C28*	<10.0	10.0	07/29/2020	ND	218	109	200	12.3		
EXT DRO >C28-C36	<10.0	10.0	07/29/2020	ND						

Surrogate: 1-Chlorooctane 99.3 % 44.3-144

Surrogate: 1-Chlorooctadecane 111 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/28/2020	Sampling Date:	07/27/2020
Reported:	07/30/2020	Sampling Type:	Soil
Project Name:	RIGEL 20 FED COM 3H	Sampling Condition:	Cool & Intact
Project Number:	31	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY		

Sample ID: S5 - 1' (H001951-13)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/28/2020	ND	1.93	96.3	2.00	2.91		
Toluene*	<0.050	0.050	07/28/2020	ND	1.95	97.4	2.00	3.15		
Ethylbenzene*	<0.050	0.050	07/28/2020	ND	1.96	98.0	2.00	2.97		
Total Xylenes*	<0.150	0.150	07/28/2020	ND	5.65	94.1	6.00	2.88		
Total BTEX	<0.300	0.300	07/28/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.8 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1480	16.0	07/29/2020	ND	400	100	400	3.92		

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	07/29/2020	ND	208	104	200	0.0970		
DRO >C10-C28*	<10.0	10.0	07/29/2020	ND	218	109	200	12.3		
EXT DRO >C28-C36	<10.0	10.0	07/29/2020	ND						

Surrogate: 1-Chlorooctane 104 % 44.3-144

Surrogate: 1-Chlorooctadecane 116 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/28/2020	Sampling Date:	07/27/2020
Reported:	07/30/2020	Sampling Type:	Soil
Project Name:	RIGEL 20 FED COM 3H	Sampling Condition:	Cool & Intact
Project Number:	31	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY		

Sample ID: S5 - 2' (H001951-14)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/28/2020	ND	1.93	96.3	2.00	2.91		
Toluene*	<0.050	0.050	07/28/2020	ND	1.95	97.4	2.00	3.15		
Ethylbenzene*	<0.050	0.050	07/28/2020	ND	1.96	98.0	2.00	2.97		
Total Xylenes*	<0.150	0.150	07/28/2020	ND	5.65	94.1	6.00	2.88		
Total BTEX	<0.300	0.300	07/28/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.9 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	976	16.0	07/29/2020	ND	400	100	400	3.92		

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	07/29/2020	ND	208	104	200	0.0970		
DRO >C10-C28*	<10.0	10.0	07/29/2020	ND	218	109	200	12.3		
EXT DRO >C28-C36	<10.0	10.0	07/29/2020	ND						

Surrogate: 1-Chlorooctane 104 % 44.3-144

Surrogate: 1-Chlorooctadecane 115 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/28/2020	Sampling Date:	07/27/2020
Reported:	07/30/2020	Sampling Type:	Soil
Project Name:	RIGEL 20 FED COM 3H	Sampling Condition:	Cool & Intact
Project Number:	31	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY		

Sample ID: S5 - 3' (H001951-15)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/28/2020	ND	1.93	96.3	2.00	2.91	
Toluene*	<0.050	0.050	07/28/2020	ND	1.95	97.4	2.00	3.15	
Ethylbenzene*	<0.050	0.050	07/28/2020	ND	1.96	98.0	2.00	2.97	
Total Xylenes*	<0.150	0.150	07/28/2020	ND	5.65	94.1	6.00	2.88	
Total BTEX	<0.300	0.300	07/28/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.7 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	864	16.0	07/29/2020	ND	400	100	400	3.92	

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	07/28/2020	ND	200	99.9	200	5.97	
DRO >C10-C28*	<10.0	10.0	07/28/2020	ND	213	107	200	4.65	
EXT DRO >C28-C36	<10.0	10.0	07/28/2020	ND					

Surrogate: 1-Chlorooctane 114 % 44.3-144

Surrogate: 1-Chlorooctadecane 126 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/28/2020	Sampling Date:	07/27/2020
Reported:	07/30/2020	Sampling Type:	Soil
Project Name:	RIGEL 20 FED COM 3H	Sampling Condition:	Cool & Intact
Project Number:	31	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY		

Sample ID: S6 - 0-6" (H001951-16)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/28/2020	ND	1.93	96.3	2.00	2.91		
Toluene*	<0.050	0.050	07/28/2020	ND	1.95	97.4	2.00	3.15		
Ethylbenzene*	<0.050	0.050	07/28/2020	ND	1.96	98.0	2.00	2.97		
Total Xylenes*	<0.150	0.150	07/28/2020	ND	5.65	94.1	6.00	2.88		
Total BTEX	<0.300	0.300	07/28/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.2 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	07/29/2020	ND	400	100	400	3.92		

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	07/28/2020	ND	200	99.9	200	5.97		
DRO >C10-C28*	<10.0	10.0	07/28/2020	ND	213	107	200	4.65		
EXT DRO >C28-C36	<10.0	10.0	07/28/2020	ND						

Surrogate: 1-Chlorooctane 113 % 44.3-144

Surrogate: 1-Chlorooctadecane 125 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/28/2020	Sampling Date:	07/27/2020
Reported:	07/30/2020	Sampling Type:	Soil
Project Name:	RIGEL 20 FED COM 3H	Sampling Condition:	Cool & Intact
Project Number:	31	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY		

Sample ID: S6 - 1' (H001951-17)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/28/2020	ND	1.93	96.3	2.00	2.91		
Toluene*	<0.050	0.050	07/28/2020	ND	1.95	97.4	2.00	3.15		
Ethylbenzene*	<0.050	0.050	07/28/2020	ND	1.96	98.0	2.00	2.97		
Total Xylenes*	<0.150	0.150	07/28/2020	ND	5.65	94.1	6.00	2.88		
Total BTEX	<0.300	0.300	07/28/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.0 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	07/29/2020	ND	400	100	400	3.92		

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	07/28/2020	ND	200	99.9	200	5.97		
DRO >C10-C28*	<10.0	10.0	07/28/2020	ND	213	107	200	4.65		
EXT DRO >C28-C36	<10.0	10.0	07/28/2020	ND						

Surrogate: 1-Chlorooctane 110 % 44.3-144

Surrogate: 1-Chlorooctadecane 123 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/28/2020	Sampling Date:	07/27/2020
Reported:	07/30/2020	Sampling Type:	Soil
Project Name:	RIGEL 20 FED COM 3H	Sampling Condition:	Cool & Intact
Project Number:	31	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY		

Sample ID: S6 - 2' (H001951-18)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/28/2020	ND	1.93	96.3	2.00	2.91	
Toluene*	<0.050	0.050	07/28/2020	ND	1.95	97.4	2.00	3.15	
Ethylbenzene*	<0.050	0.050	07/28/2020	ND	1.96	98.0	2.00	2.97	
Total Xylenes*	<0.150	0.150	07/28/2020	ND	5.65	94.1	6.00	2.88	
Total BTEX	<0.300	0.300	07/28/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.6 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	07/29/2020	ND	400	100	400	3.92	

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	07/28/2020	ND	200	99.9	200	5.97	
DRO >C10-C28*	<10.0	10.0	07/28/2020	ND	213	107	200	4.65	
EXT DRO >C28-C36	<10.0	10.0	07/28/2020	ND					

Surrogate: 1-Chlorooctane 115 % 44.3-144

Surrogate: 1-Chlorooctadecane 129 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/28/2020	Sampling Date:	07/27/2020
Reported:	07/30/2020	Sampling Type:	Soil
Project Name:	RIGEL 20 FED COM 3H	Sampling Condition:	Cool & Intact
Project Number:	31	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY		

Sample ID: S6 - 3' (H001951-19)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/29/2020	ND	1.93	96.3	2.00	2.91		
Toluene*	<0.050	0.050	07/29/2020	ND	1.95	97.4	2.00	3.15		
Ethylbenzene*	<0.050	0.050	07/29/2020	ND	1.96	98.0	2.00	2.97		
Total Xylenes*	<0.150	0.150	07/29/2020	ND	5.65	94.1	6.00	2.88		
Total BTEX	<0.300	0.300	07/29/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.3 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	07/29/2020	ND	400	100	400	3.92		

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	07/28/2020	ND	200	99.9	200	5.97		
DRO >C10-C28*	<10.0	10.0	07/28/2020	ND	213	107	200	4.65		
EXT DRO >C28-C36	<10.0	10.0	07/28/2020	ND						

Surrogate: 1-Chlorooctane 112 % 44.3-144

Surrogate: 1-Chlorooctadecane 124 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/28/2020	Sampling Date:	07/27/2020
Reported:	07/30/2020	Sampling Type:	Soil
Project Name:	RIGEL 20 FED COM 3H	Sampling Condition:	Cool & Intact
Project Number:	31	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY		

Sample ID: S7 - 0-6" (H001951-20)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/29/2020	ND	1.93	96.3	2.00	2.91	
Toluene*	<0.050	0.050	07/29/2020	ND	1.95	97.4	2.00	3.15	
Ethylbenzene*	<0.050	0.050	07/29/2020	ND	1.96	98.0	2.00	2.97	
Total Xylenes*	<0.150	0.150	07/29/2020	ND	5.65	94.1	6.00	2.88	
Total BTEX	<0.300	0.300	07/29/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.7 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	07/29/2020	ND	400	100	400	3.92	

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	07/28/2020	ND	200	99.9	200	5.97	
DRO >C10-C28*	<10.0	10.0	07/28/2020	ND	213	107	200	4.65	
EXT DRO >C28-C36	<10.0	10.0	07/28/2020	ND					

Surrogate: 1-Chlorooctane 110 % 44.3-144

Surrogate: 1-Chlorooctadecane 120 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/28/2020	Sampling Date:	07/27/2020
Reported:	07/30/2020	Sampling Type:	Soil
Project Name:	RIGEL 20 FED COM 3H	Sampling Condition:	Cool & Intact
Project Number:	31	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY		

Sample ID: S7 - 1' (H001951-21)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/29/2020	ND	1.93	96.3	2.00	2.91	
Toluene*	<0.050	0.050	07/29/2020	ND	1.95	97.4	2.00	3.15	
Ethylbenzene*	<0.050	0.050	07/29/2020	ND	1.96	98.0	2.00	2.97	
Total Xylenes*	<0.150	0.150	07/29/2020	ND	5.65	94.1	6.00	2.88	
Total BTEX	<0.300	0.300	07/29/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.8 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/29/2020	ND	400	100	400	3.92	

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	07/28/2020	ND	200	99.9	200	5.97	
DRO >C10-C28*	<10.0	10.0	07/28/2020	ND	213	107	200	4.65	
EXT DRO >C28-C36	<10.0	10.0	07/28/2020	ND					

Surrogate: 1-Chlorooctane 112 % 44.3-144

Surrogate: 1-Chlorooctadecane 122 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/28/2020	Sampling Date:	07/27/2020
Reported:	07/30/2020	Sampling Type:	Soil
Project Name:	RIGEL 20 FED COM 3H	Sampling Condition:	Cool & Intact
Project Number:	31	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY		

Sample ID: S7 - 2' (H001951-22)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/29/2020	ND	1.93	96.3	2.00	2.91		
Toluene*	<0.050	0.050	07/29/2020	ND	1.95	97.4	2.00	3.15		
Ethylbenzene*	<0.050	0.050	07/29/2020	ND	1.96	98.0	2.00	2.97		
Total Xylenes*	<0.150	0.150	07/29/2020	ND	5.65	94.1	6.00	2.88		
Total BTEX	<0.300	0.300	07/29/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.7 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	07/29/2020	ND	400	100	400	3.92		

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	07/28/2020	ND	200	99.9	200	5.97		
DRO >C10-C28*	<10.0	10.0	07/28/2020	ND	213	107	200	4.65		
EXT DRO >C28-C36	<10.0	10.0	07/28/2020	ND						

Surrogate: 1-Chlorooctane 111 % 44.3-144

Surrogate: 1-Chlorooctadecane 121 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/28/2020	Sampling Date:	07/27/2020
Reported:	07/30/2020	Sampling Type:	Soil
Project Name:	RIGEL 20 FED COM 3H	Sampling Condition:	Cool & Intact
Project Number:	31	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY		

Sample ID: S7 - 3' (H001951-23)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/29/2020	ND	1.93	96.3	2.00	2.91		
Toluene*	<0.050	0.050	07/29/2020	ND	1.95	97.4	2.00	3.15		
Ethylbenzene*	<0.050	0.050	07/29/2020	ND	1.96	98.0	2.00	2.97		
Total Xylenes*	<0.150	0.150	07/29/2020	ND	5.65	94.1	6.00	2.88		
Total BTEX	<0.300	0.300	07/29/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.7 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	07/29/2020	ND	400	100	400	3.92		

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	07/28/2020	ND	200	99.9	200	5.97		
DRO >C10-C28*	<10.0	10.0	07/28/2020	ND	213	107	200	4.65		
EXT DRO >C28-C36	<10.0	10.0	07/28/2020	ND						

Surrogate: 1-Chlorooctane 110 % 44.3-144

Surrogate: 1-Chlorooctadecane 123 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND Analyte NOT DETECTED at or above the reporting limit
RPD Relative Percent Difference
** Samples not received at proper temperature of 6°C or below.
*** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Piny Environmental
Project Manager: Chris Jones
Address: 1601 N. Turner Ste 500
City: Hobbs State: NM Zip: 88240
Phone #: 575-631-6977 Fax #:
Project #: 31 Project Owner:
Project Name: Rigel 20 Fed Com 3H
Project Location: EDDY COUNTY
Sampler Name: Mark Newcomb

BILL TO ANALYSIS REQUEST
P.O. #: 20754990
Company: DEVON
Attn: Tom Bynum
Address:
City:
State: Zip:
Phone #:
Fax #:

Table with columns: 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). Includes handwritten entries for samples 1-10 and chemical analysis results (BTEX, TPH, Chloride).

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

Relinquished By: Date: 1-28-20 Time: 12:30 Received By: [Signature]
Delivered By: (Circle One) Observed Temp. °C 5.9 Sample Condition Cool Intact CHECKED BY: TO
Turnaround Time: Standard [X] Rush [] Bacteria (only) Cool Intact Observed Temp. °C

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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Form with sections: Company Name, Project Manager, Address, City, Phone #, Project #, Project Name, Project Location, Sampler Name, BILL TO, ANALYSIS REQUEST, MATRIX, PRESERV, SAMPLING, Lab I.D., Sample I.D.

Form with sections: Relinquished By, Received By, Verbal Result, All Results are emailed, REMARKS, Delivered By, Observed Temp, Sample Condition, CHECKED BY, Turnaround Time, Standard, Bacteria (only), Sample Condition

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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Pima Environmental
Project Manager: Chris Jones
Address: 1601 N. Turner Ste 500
City: Hobbs State: NM Zip: 88240
Phone #: 575-631-6977 Fax #:
Project #: 31 Project Owner: Devon
Project Name: Rigel 20 Fed Com 3H
Project Location: EDDY COUNTY
Sampler Name: MARK Newcomb

Table with columns: Lab I.D., Sample I.D., (G)RAB OR (C)OMP., # CONTAINERS, MATRIX (GROUNDWATER, WASTEWATER, SOIL, OIL, SLUDGE), PRESERV (ACID/BASE, ICE/COOL, OTHER), SAMPLING (DATE, TIME), and analysis results (BTEX, TPH EXT, Chloride).

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

Relinquished By: Date: 7-28-20 Time: 1230 Received By: [Signature] Verbal Result: [] Yes [] No Add'l Phone #: All Results are emailed. Please provide Email address:
REMARKS: Bill to Devon
Delivered By: (Circle One) Observed Temp. °C 5.9 Sample Condition Cool Intact [] Yes [] No CHECKED BY: (Initials) TO Turnaround Time: Standard [] Rush [X] Bacteria (only) Cool Intact [] Yes [] No Sample Condition Observed Temp. °C Corrected Temp. °C Thermometer ID #113 Correction Factor None

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

Report to:
Tom Bynum



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Pima Environmental Services-Carlsbad

Project Name: Rigel 20 Fed 3H

Work Order: E212049

Job Number: 01058-0007

Received: 12/8/2022

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
12/12/22

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 12/12/22



Tom Bynum
PO Box 247
Plains, TX 79355-0247

Project Name: Rigel 20 Fed 3H
Workorder: E212049
Date Received: 12/8/2022 11:15:00AM

Tom Bynum,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 12/8/2022 11:15:00AM, under the Project Name: Rigel 20 Fed 3H.

The analytical test results summarized in this report with the Project Name: Rigel 20 Fed 3H apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

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

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

Field Offices:

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

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

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
BG-1	5
SW-1	6
SW-2	7
SW-3	8
S-1 1'	9
S-1 2'	10
S-2 1'	11
S-2 2'	12
QC Summary Data	13
QC - Volatile Organics by EPA 8021B	13
QC - Nonhalogenated Organics by EPA 8015D - GRO	14
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	15
QC - Anions by EPA 300.0/9056A	16
Definitions and Notes	17
Chain of Custody etc.	18

Sample Summary

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Rigel 20 Fed 3H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 12/12/22 16:50
---	---	------------------------------------

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BG-1	E212049-01A	Soil	12/06/22	12/08/22	Glass Jar, 4 oz.
SW-1	E212049-02A	Soil	12/06/22	12/08/22	Glass Jar, 4 oz.
SW-2	E212049-03A	Soil	12/06/22	12/08/22	Glass Jar, 4 oz.
SW-3	E212049-04A	Soil	12/06/22	12/08/22	Glass Jar, 4 oz.
S-1 1'	E212049-05A	Soil	12/06/22	12/08/22	Glass Jar, 4 oz.
S-1 2'	E212049-06A	Soil	12/06/22	12/08/22	Glass Jar, 4 oz.
S-2 1'	E212049-07A	Soil	12/06/22	12/08/22	Glass Jar, 4 oz.
S-2 2'	E212049-08A	Soil	12/06/22	12/08/22	Glass Jar, 4 oz.

Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Rigel 20 Fed 3H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 12/12/2022 4:50:38PM
---	---	--

BG-1
E212049-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2250067
Benzene	ND	0.0250	1	12/08/22	12/09/22	
Ethylbenzene	ND	0.0250	1	12/08/22	12/09/22	
Toluene	ND	0.0250	1	12/08/22	12/09/22	
o-Xylene	ND	0.0250	1	12/08/22	12/09/22	
p,m-Xylene	ND	0.0500	1	12/08/22	12/09/22	
Total Xylenes	ND	0.0250	1	12/08/22	12/09/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		97.4 %	70-130	12/08/22	12/09/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2250067
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/08/22	12/09/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		95.4 %	70-130	12/08/22	12/09/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2250070
Diesel Range Organics (C10-C28)	ND	25.0	1	12/08/22	12/08/22	
Oil Range Organics (C28-C36)	ND	50.0	1	12/08/22	12/08/22	
<i>Surrogate: n-Nonane</i>		100 %	50-200	12/08/22	12/08/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2250075
Chloride	ND	20.0	1	12/08/22	12/08/22	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Rigel 20 Fed 3H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 12/12/2022 4:50:38PM
---	---	--

SW-1

E212049-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2250067
Benzene	ND	0.0250	1	12/08/22	12/09/22	
Ethylbenzene	ND	0.0250	1	12/08/22	12/09/22	
Toluene	ND	0.0250	1	12/08/22	12/09/22	
o-Xylene	ND	0.0250	1	12/08/22	12/09/22	
p,m-Xylene	ND	0.0500	1	12/08/22	12/09/22	
Total Xylenes	ND	0.0250	1	12/08/22	12/09/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		97.7 %	70-130	12/08/22	12/09/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2250067
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/08/22	12/09/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		96.2 %	70-130	12/08/22	12/09/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: JL		Batch: 2250070
Diesel Range Organics (C10-C28)	ND	25.0	1	12/08/22	12/08/22	
Oil Range Organics (C28-C36)	ND	50.0	1	12/08/22	12/08/22	
<i>Surrogate: n-Nonane</i>		100 %	50-200	12/08/22	12/08/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: KL		Batch: 2250075
Chloride	ND	20.0	1	12/08/22	12/08/22	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Rigel 20 Fed 3H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 12/12/2022 4:50:38PM
---	---	--

SW-2

E212049-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2250067
Benzene	ND	0.0250	1	12/08/22	12/09/22	
Ethylbenzene	ND	0.0250	1	12/08/22	12/09/22	
Toluene	ND	0.0250	1	12/08/22	12/09/22	
o-Xylene	ND	0.0250	1	12/08/22	12/09/22	
p,m-Xylene	ND	0.0500	1	12/08/22	12/09/22	
Total Xylenes	ND	0.0250	1	12/08/22	12/09/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		98.3 %	70-130	12/08/22	12/09/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2250067
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/08/22	12/09/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		97.2 %	70-130	12/08/22	12/09/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: JL		Batch: 2250070
Diesel Range Organics (C10-C28)	ND	25.0	1	12/08/22	12/08/22	
Oil Range Organics (C28-C36)	ND	50.0	1	12/08/22	12/08/22	
<i>Surrogate: n-Nonane</i>		102 %	50-200	12/08/22	12/08/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: KL		Batch: 2250075
Chloride	ND	20.0	1	12/08/22	12/08/22	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Rigel 20 Fed 3H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 12/12/2022 4:50:38PM
---	---	--

SW-3

E212049-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2250067
Benzene	ND	0.0250	1	12/08/22	12/10/22	
Ethylbenzene	ND	0.0250	1	12/08/22	12/10/22	
Toluene	ND	0.0250	1	12/08/22	12/10/22	
o-Xylene	ND	0.0250	1	12/08/22	12/10/22	
p,m-Xylene	ND	0.0500	1	12/08/22	12/10/22	
Total Xylenes	ND	0.0250	1	12/08/22	12/10/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		96.7 %	70-130	12/08/22	12/10/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2250067
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/08/22	12/10/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		95.5 %	70-130	12/08/22	12/10/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: JL		Batch: 2250070
Diesel Range Organics (C10-C28)	ND	25.0	1	12/08/22	12/08/22	
Oil Range Organics (C28-C36)	ND	50.0	1	12/08/22	12/08/22	
<i>Surrogate: n-Nonane</i>		104 %	50-200	12/08/22	12/08/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: KL		Batch: 2250075
Chloride	ND	20.0	1	12/08/22	12/08/22	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Rigel 20 Fed 3H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 12/12/2022 4:50:38PM
---	---	--

S-1 1'

E212049-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2250067
Benzene	ND	0.0250	1	12/08/22	12/10/22	
Ethylbenzene	ND	0.0250	1	12/08/22	12/10/22	
Toluene	ND	0.0250	1	12/08/22	12/10/22	
o-Xylene	ND	0.0250	1	12/08/22	12/10/22	
p,m-Xylene	ND	0.0500	1	12/08/22	12/10/22	
Total Xylenes	ND	0.0250	1	12/08/22	12/10/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		96.2 %	70-130	12/08/22	12/10/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2250067
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/08/22	12/10/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		96.5 %	70-130	12/08/22	12/10/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: JL		Batch: 2250070
Diesel Range Organics (C10-C28)	ND	25.0	1	12/08/22	12/08/22	
Oil Range Organics (C28-C36)	ND	50.0	1	12/08/22	12/08/22	
<i>Surrogate: n-Nonane</i>		104 %	50-200	12/08/22	12/08/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: KL		Batch: 2250075
Chloride	ND	20.0	1	12/08/22	12/08/22	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Rigel 20 Fed 3H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 12/12/2022 4:50:38PM
---	---	--

S-1 2'

E212049-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2250067
Benzene	ND	0.0250	1	12/08/22	12/10/22	
Ethylbenzene	ND	0.0250	1	12/08/22	12/10/22	
Toluene	ND	0.0250	1	12/08/22	12/10/22	
o-Xylene	ND	0.0250	1	12/08/22	12/10/22	
p,m-Xylene	ND	0.0500	1	12/08/22	12/10/22	
Total Xylenes	ND	0.0250	1	12/08/22	12/10/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		97.4 %	70-130	12/08/22	12/10/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2250067
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/08/22	12/10/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		97.2 %	70-130	12/08/22	12/10/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: JL		Batch: 2250070
Diesel Range Organics (C10-C28)	ND	25.0	1	12/08/22	12/08/22	
Oil Range Organics (C28-C36)	ND	50.0	1	12/08/22	12/08/22	
<i>Surrogate: n-Nonane</i>		101 %	50-200	12/08/22	12/08/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: KL		Batch: 2250075
Chloride	ND	20.0	1	12/08/22	12/08/22	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Rigel 20 Fed 3H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 12/12/2022 4:50:38PM
---	---	--

S-2 1'

E212049-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2250067
Benzene	ND	0.0250	1	12/08/22	12/10/22	
Ethylbenzene	ND	0.0250	1	12/08/22	12/10/22	
Toluene	ND	0.0250	1	12/08/22	12/10/22	
o-Xylene	ND	0.0250	1	12/08/22	12/10/22	
p,m-Xylene	ND	0.0500	1	12/08/22	12/10/22	
Total Xylenes	ND	0.0250	1	12/08/22	12/10/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		96.0 %	70-130	12/08/22	12/10/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2250067
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/08/22	12/10/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		97.8 %	70-130	12/08/22	12/10/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: JL		Batch: 2250070
Diesel Range Organics (C10-C28)	ND	25.0	1	12/08/22	12/08/22	
Oil Range Organics (C28-C36)	ND	50.0	1	12/08/22	12/08/22	
<i>Surrogate: n-Nonane</i>		99.4 %	50-200	12/08/22	12/08/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: KL		Batch: 2250075
Chloride	ND	20.0	1	12/08/22	12/08/22	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Rigel 20 Fed 3H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 12/12/2022 4:50:38PM
---	---	--

S-2 2'

E212049-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2250067
Benzene	ND	0.0250	1	12/08/22	12/10/22	
Ethylbenzene	ND	0.0250	1	12/08/22	12/10/22	
Toluene	ND	0.0250	1	12/08/22	12/10/22	
o-Xylene	ND	0.0250	1	12/08/22	12/10/22	
p,m-Xylene	ND	0.0500	1	12/08/22	12/10/22	
Total Xylenes	ND	0.0250	1	12/08/22	12/10/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		96.2 %	70-130	12/08/22	12/10/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2250067
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/08/22	12/10/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		94.8 %	70-130	12/08/22	12/10/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: JL		Batch: 2250070
Diesel Range Organics (C10-C28)	ND	25.0	1	12/08/22	12/08/22	
Oil Range Organics (C28-C36)	ND	50.0	1	12/08/22	12/08/22	
<i>Surrogate: n-Nonane</i>		102 %	50-200	12/08/22	12/08/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: KL		Batch: 2250075
Chloride	ND	20.0	1	12/08/22	12/08/22	



QC Summary Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Rigel 20 Fed 3H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 12/12/2022 4:50:38PM
---	---	--

Volatile Organics by EPA 8021B

Analyst: SL

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

Blank (2250067-BLK1)

Prepared: 12/08/22 Analyzed: 12/09/22

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.89		8.00		98.7	70-130			

LCS (2250067-BS1)

Prepared: 12/08/22 Analyzed: 12/09/22

Benzene	4.26	0.0250	5.00		85.3	70-130			
Ethylbenzene	4.35	0.0250	5.00		87.0	70-130			
Toluene	4.46	0.0250	5.00		89.2	70-130			
o-Xylene	4.50	0.0250	5.00		90.0	70-130			
p,m-Xylene	8.80	0.0500	10.0		88.0	70-130			
Total Xylenes	13.3	0.0250	15.0		88.7	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.83		8.00		97.9	70-130			

Matrix Spike (2250067-MS1)

Source: E212049-02

Prepared: 12/08/22 Analyzed: 12/09/22

Benzene	4.37	0.0250	5.00	ND	87.4	54-133			
Ethylbenzene	4.46	0.0250	5.00	ND	89.3	61-133			
Toluene	4.58	0.0250	5.00	ND	91.5	61-130			
o-Xylene	4.61	0.0250	5.00	ND	92.3	63-131			
p,m-Xylene	9.03	0.0500	10.0	ND	90.3	63-131			
Total Xylenes	13.6	0.0250	15.0	ND	90.9	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.77		8.00		97.1	70-130			

Matrix Spike Dup (2250067-MSD1)

Source: E212049-02

Prepared: 12/08/22 Analyzed: 12/09/22

Benzene	4.74	0.0250	5.00	ND	94.8	54-133	8.11	20	
Ethylbenzene	4.83	0.0250	5.00	ND	96.5	61-133	7.85	20	
Toluene	4.95	0.0250	5.00	ND	99.1	61-130	7.90	20	
o-Xylene	5.00	0.0250	5.00	ND	100	63-131	7.99	20	
p,m-Xylene	9.73	0.0500	10.0	ND	97.3	63-131	7.48	20	
Total Xylenes	14.7	0.0250	15.0	ND	98.2	63-131	7.65	20	
Surrogate: 4-Bromochlorobenzene-PID	7.70		8.00		96.3	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Rigel 20 Fed 3H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 12/12/2022 4:50:38PM
---	---	--

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

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

Blank (2250067-BLK1)

Prepared: 12/08/22 Analyzed: 12/09/22

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.67		8.00		95.8	70-130			

LCS (2250067-BS2)

Prepared: 12/08/22 Analyzed: 12/09/22

Gasoline Range Organics (C6-C10)	46.2	20.0	50.0		92.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.59		8.00		94.8	70-130			

Matrix Spike (2250067-MS2)

Source: E212049-02

Prepared: 12/08/22 Analyzed: 12/09/22

Gasoline Range Organics (C6-C10)	44.9	20.0	50.0	ND	89.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.83		8.00		97.8	70-130			

Matrix Spike Dup (2250067-MSD2)

Source: E212049-02

Prepared: 12/08/22 Analyzed: 12/09/22

Gasoline Range Organics (C6-C10)	46.4	20.0	50.0	ND	92.8	70-130	3.20	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.45		8.00		93.2	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Rigel 20 Fed 3H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 12/12/2022 4:50:38PM
---	---	--

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

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

Blank (2250070-BLK1)

Prepared: 12/08/22 Analyzed: 12/08/22

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	53.8		50.0		108	50-200			

LCS (2250070-BS1)

Prepared: 12/08/22 Analyzed: 12/08/22

Diesel Range Organics (C10-C28)	239	25.0	250		95.5	38-132			
Surrogate: n-Nonane	50.0		50.0		100	50-200			

Matrix Spike (2250070-MS1)

Source: E212049-08

Prepared: 12/08/22 Analyzed: 12/08/22

Diesel Range Organics (C10-C28)	229	25.0	250	ND	91.7	38-132			
Surrogate: n-Nonane	49.6		50.0		99.2	50-200			

Matrix Spike Dup (2250070-MSD1)

Source: E212049-08

Prepared: 12/08/22 Analyzed: 12/08/22

Diesel Range Organics (C10-C28)	236	25.0	250	ND	94.2	38-132	2.66	20	
Surrogate: n-Nonane	51.0		50.0		102	50-200			



QC Summary Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Rigel 20 Fed 3H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 12/12/2022 4:50:38PM
---	---	--

Anions by EPA 300.0/9056A

Analyst: KL

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

Blank (2250075-BLK1)

Prepared: 12/08/22 Analyzed: 12/08/22

Chloride ND 20.0

LCS (2250075-BS1)

Prepared: 12/08/22 Analyzed: 12/08/22

Chloride 261 20.0 250 104 90-110

Matrix Spike (2250075-MS1)

Source: E212049-01

Prepared: 12/08/22 Analyzed: 12/08/22

Chloride 265 20.0 250 ND 106 80-120

Matrix Spike Dup (2250075-MSD1)

Source: E212049-01

Prepared: 12/08/22 Analyzed: 12/08/22

Chloride 266 20.0 250 ND 106 80-120 0.306 20

QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Definitions and Notes

Pima Environmental Services-Carlsbad	Project Name:	Rigel 20 Fed 3H	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	12/12/22 16:50

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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



Project Information

Chain of Custody

Client: Pima Environmental Services Project: <u>Rigel 20 Fed 3H</u> Project Manager: Tom Bynum Address: 5614 N. Lovington Hwy. City, State, Zip <u>Hobbs, NM, 88240</u> Phone: 580-748-1613 Email: tom@pimaoil.com Report due by:		Bill To Attention: <u>Devon Energy</u> Address: City, State, Zip Phone: Email: Pima Project # <u>1-166</u>		Lab Use Only Lab WO# <u>E212049</u> Job Number <u>01057-0007</u>		TAT 1D <input type="checkbox"/> 2D <input type="checkbox"/> 3D <input type="checkbox"/> Standard <input checked="" type="checkbox"/>		EPA Program CWA <input type="checkbox"/> SDWA <input type="checkbox"/> RCRA <input type="checkbox"/>	
				Analysis and Method DRO/ORO by 8015 <input type="checkbox"/> GRO/DRO by 8015 <input type="checkbox"/> BTEX by 8021 <input type="checkbox"/> VOC by 8260 <input type="checkbox"/> Metals 6010 <input type="checkbox"/> Chloride 300.0 <input type="checkbox"/> BGDOC NM <input checked="" type="checkbox"/> BGDOC TX <input type="checkbox"/>		State NM <input checked="" type="checkbox"/> CO <input type="checkbox"/> UT <input type="checkbox"/> AZ <input type="checkbox"/> TX <input type="checkbox"/>		Remarks	

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	Remarks
8:00	12/6/22	S	1	BG-1	1							X		
8:05				SW-1	2									
8:10				SW-2	3									
8:15				SW-3	4									
8:20				S-1 1'	5									
8:25				S-1 2'	6									
8:30				S-2 1'	7									
8:35				S-2 2'	8									

Additional Instructions: Bill To Devon Energy: # 20868758

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

Relinquished by: (Signature) <u>Ned Rogers</u>	Date <u>12-7-22</u>	Time <u>2:00 P</u>	Received by: (Signature) <u>Michelle Cupala</u>	Date <u>12-7-22</u>	Time <u>1400</u>	Lab Use Only Received on ice: <input checked="" type="checkbox"/> Y / <input type="checkbox"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
Relinquished by: (Signature) <u>Michelle Cupala</u>	Date <u>12-7-22</u>	Time <u>1545</u>	Received by: (Signature) <u>Arthur Clark</u>	Date <u>12/8/22</u>	Time <u>11:15</u>	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	

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



Envirotech Analytical Laboratory

Printed: 12/8/2022 12:40:05PM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client: Pima Environmental Services-Carlsbad Date Received: 12/08/22 11:15 Work Order ID: E212049
Phone: (575) 631-6977 Date Logged In: 12/08/22 08:40 Logged In By: Caitlin Christian
Email: tom@pimaoil.com Due Date: 12/14/22 17:00 (4 day TAT)

Chain of Custody (COC)

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

Carrier: UPS

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

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

Empty box for client instructions.

Comments/Resolution

Large empty box for comments/resolution.

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

Date



envirotech Inc.

Report to:
Tom Bynum



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Pima Environmental Services-Carlsbad

Project Name: Rigel 20 Fed Com 3H

Work Order: E212077

Job Number: 01058-0007

Received: 12/14/2022

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
12/20/22

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 12/20/22



Tom Bynum
PO Box 247
Plains, TX 79355-0247

Project Name: Rigel 20 Fed Com 3H
Workorder: E212077
Date Received: 12/14/2022 10:45:00AM

Tom Bynum,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 12/14/2022 10:45:00AM, under the Project Name: Rigel 20 Fed Com 3H.

The analytical test results summarized in this report with the Project Name: Rigel 20 Fed Com 3H apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

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

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

Field Offices:

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

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

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
S1 - N Comp 1'	5
S1 - N Comp 2'	6
S2 - S Comp 1'	7
S2 - S Comp 2'	8
S3 - E Comp 1'	9
S3 - E Comp 2'	10
S4 - W Comp 1'	11
S4 - W Somp 2'	12
S5 6"	13
S5 2'	14
S5 4'	15
QC Summary Data	16
QC - Volatile Organics by EPA 8021B	16
QC - Nonhalogenated Organics by EPA 8015D - GRO	17
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	18
QC - Anions by EPA 300.0/9056A	19
Definitions and Notes	20
Chain of Custody etc.	21

Sample Summary

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Rigel 20 Fed Com 3H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 12/20/22 08:57
---	---	------------------------------------

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
S1 - N Comp 1'	E212077-01A	Soil	12/13/22	12/14/22	Glass Jar, 2 oz.
S1 - N Comp 2'	E212077-02A	Soil	12/13/22	12/14/22	Glass Jar, 2 oz.
S2 - S Comp 1'	E212077-03A	Soil	12/13/22	12/14/22	Glass Jar, 2 oz.
S2 - S Comp 2'	E212077-04A	Soil	12/13/22	12/14/22	Glass Jar, 2 oz.
S3 - E Comp 1'	E212077-05A	Soil	12/13/22	12/14/22	Glass Jar, 2 oz.
S3 - E Comp 2'	E212077-06A	Soil	12/13/22	12/14/22	Glass Jar, 2 oz.
S4 - W Comp 1'	E212077-07A	Soil	12/13/22	12/14/22	Glass Jar, 2 oz.
S4 - W Somp 2'	E212077-08A	Soil	12/13/22	12/14/22	Glass Jar, 2 oz.
S5 6"	E212077-09A	Soil	12/13/22	12/14/22	Glass Jar, 2 oz.
S5 2'	E212077-10A	Soil	12/13/22	12/14/22	Glass Jar, 2 oz.
S5 4'	E212077-11A	Soil	12/13/22	12/14/22	Glass Jar, 2 oz.



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Rigel 20 Fed Com 3H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 12/20/2022 8:57:47AM
---	---	--

S1 - N Comp 1'

E212077-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2251051
Benzene	ND	0.0250	1	12/14/22	12/16/22	
Ethylbenzene	ND	0.0250	1	12/14/22	12/16/22	
Toluene	ND	0.0250	1	12/14/22	12/16/22	
o-Xylene	ND	0.0250	1	12/14/22	12/16/22	
p,m-Xylene	ND	0.0500	1	12/14/22	12/16/22	
Total Xylenes	ND	0.0250	1	12/14/22	12/16/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		100 %	70-130	12/14/22	12/16/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2251051
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/14/22	12/16/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		97.1 %	70-130	12/14/22	12/16/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2251066
Diesel Range Organics (C10-C28)	ND	25.0	1	12/15/22	12/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	12/15/22	12/15/22	
<i>Surrogate: n-Nonane</i>						
		103 %	50-200	12/15/22	12/15/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2251050
Chloride	ND	20.0	1	12/14/22	12/15/22	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Rigel 20 Fed Com 3H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 12/20/2022 8:57:47AM
---	---	--

S1 - N Comp 2'

E212077-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: IY		Batch: 2251051
Benzene	ND	0.0250	1	12/14/22	12/16/22	
Ethylbenzene	ND	0.0250	1	12/14/22	12/16/22	
Toluene	ND	0.0250	1	12/14/22	12/16/22	
o-Xylene	ND	0.0250	1	12/14/22	12/16/22	
p,m-Xylene	ND	0.0500	1	12/14/22	12/16/22	
Total Xylenes	ND	0.0250	1	12/14/22	12/16/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		100 %	70-130	12/14/22	12/16/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2251051
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/14/22	12/16/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		98.8 %	70-130	12/14/22	12/16/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: JL		Batch: 2251066
Diesel Range Organics (C10-C28)	ND	25.0	1	12/15/22	12/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	12/15/22	12/15/22	
<i>Surrogate: n-Nonane</i>		104 %	50-200	12/15/22	12/15/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: KL		Batch: 2251050
Chloride	ND	20.0	1	12/14/22	12/15/22	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Rigel 20 Fed Com 3H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 12/20/2022 8:57:47AM
---	---	--

S2 - S Comp 1'

E212077-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: IY		Batch: 2251051
Benzene	ND	0.0250	1	12/14/22	12/16/22	
Ethylbenzene	ND	0.0250	1	12/14/22	12/16/22	
Toluene	ND	0.0250	1	12/14/22	12/16/22	
o-Xylene	ND	0.0250	1	12/14/22	12/16/22	
p,m-Xylene	ND	0.0500	1	12/14/22	12/16/22	
Total Xylenes	ND	0.0250	1	12/14/22	12/16/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		101 %	70-130	12/14/22	12/16/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2251051
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/14/22	12/16/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		98.3 %	70-130	12/14/22	12/16/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: JL		Batch: 2251066
Diesel Range Organics (C10-C28)	ND	25.0	1	12/15/22	12/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	12/15/22	12/15/22	
<i>Surrogate: n-Nonane</i>		105 %	50-200	12/15/22	12/15/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: KL		Batch: 2251050
Chloride	ND	20.0	1	12/14/22	12/15/22	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Rigel 20 Fed Com 3H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 12/20/2022 8:57:47AM
---	---	--

S2 - S Comp 2'

E212077-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: IY		Batch: 2251051
Benzene	ND	0.0250	1	12/14/22	12/16/22	
Ethylbenzene	ND	0.0250	1	12/14/22	12/16/22	
Toluene	ND	0.0250	1	12/14/22	12/16/22	
o-Xylene	ND	0.0250	1	12/14/22	12/16/22	
p,m-Xylene	ND	0.0500	1	12/14/22	12/16/22	
Total Xylenes	ND	0.0250	1	12/14/22	12/16/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		101 %	70-130	12/14/22	12/16/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2251051
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/14/22	12/16/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		98.3 %	70-130	12/14/22	12/16/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: JL		Batch: 2251066
Diesel Range Organics (C10-C28)	ND	25.0	1	12/15/22	12/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	12/15/22	12/15/22	
<i>Surrogate: n-Nonane</i>		103 %	50-200	12/15/22	12/15/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: KL		Batch: 2251050
Chloride	ND	20.0	1	12/14/22	12/15/22	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Rigel 20 Fed Com 3H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 12/20/2022 8:57:47AM
---	---	--

S3 - E Comp 1'

E212077-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: IY		Batch: 2251051
Benzene	ND	0.0250	1	12/14/22	12/16/22	
Ethylbenzene	ND	0.0250	1	12/14/22	12/16/22	
Toluene	ND	0.0250	1	12/14/22	12/16/22	
o-Xylene	ND	0.0250	1	12/14/22	12/16/22	
p,m-Xylene	ND	0.0500	1	12/14/22	12/16/22	
Total Xylenes	ND	0.0250	1	12/14/22	12/16/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		100 %	70-130	12/14/22	12/16/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2251051
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/14/22	12/16/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		98.8 %	70-130	12/14/22	12/16/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: JL		Batch: 2251066
Diesel Range Organics (C10-C28)	ND	25.0	1	12/15/22	12/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	12/15/22	12/15/22	
<i>Surrogate: n-Nonane</i>		107 %	50-200	12/15/22	12/15/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: KL		Batch: 2251050
Chloride	ND	20.0	1	12/14/22	12/15/22	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Rigel 20 Fed Com 3H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 12/20/2022 8:57:47AM
---	---	--

S3 - E Comp 2'

E212077-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: IY		Batch: 2251051
Benzene	ND	0.0250	1	12/14/22	12/16/22	
Ethylbenzene	ND	0.0250	1	12/14/22	12/16/22	
Toluene	ND	0.0250	1	12/14/22	12/16/22	
o-Xylene	ND	0.0250	1	12/14/22	12/16/22	
p,m-Xylene	ND	0.0500	1	12/14/22	12/16/22	
Total Xylenes	ND	0.0250	1	12/14/22	12/16/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		101 %	70-130	12/14/22	12/16/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2251051
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/14/22	12/16/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		98.4 %	70-130	12/14/22	12/16/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: JL		Batch: 2251066
Diesel Range Organics (C10-C28)	ND	25.0	1	12/15/22	12/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	12/15/22	12/15/22	
<i>Surrogate: n-Nonane</i>		107 %	50-200	12/15/22	12/15/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: KL		Batch: 2251050
Chloride	ND	20.0	1	12/14/22	12/15/22	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Rigel 20 Fed Com 3H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 12/20/2022 8:57:47AM
---	---	--

S4 - W Comp 1'

E212077-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: IY		Batch: 2251051
Benzene	ND	0.0250	1	12/14/22	12/16/22	
Ethylbenzene	ND	0.0250	1	12/14/22	12/16/22	
Toluene	ND	0.0250	1	12/14/22	12/16/22	
o-Xylene	ND	0.0250	1	12/14/22	12/16/22	
p,m-Xylene	ND	0.0500	1	12/14/22	12/16/22	
Total Xylenes	ND	0.0250	1	12/14/22	12/16/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		101 %	70-130	12/14/22	12/16/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2251051
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/14/22	12/16/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		97.8 %	70-130	12/14/22	12/16/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: JL		Batch: 2251066
Diesel Range Organics (C10-C28)	ND	25.0	1	12/15/22	12/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	12/15/22	12/15/22	
<i>Surrogate: n-Nonane</i>		106 %	50-200	12/15/22	12/15/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: KL		Batch: 2251050
Chloride	ND	20.0	1	12/14/22	12/15/22	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Rigel 20 Fed Com 3H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 12/20/2022 8:57:47AM
---	---	--

S4 - W Somp 2'

E212077-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: IY		Batch: 2251051
Benzene	ND	0.0250	1	12/14/22	12/16/22	
Ethylbenzene	ND	0.0250	1	12/14/22	12/16/22	
Toluene	ND	0.0250	1	12/14/22	12/16/22	
o-Xylene	ND	0.0250	1	12/14/22	12/16/22	
p,m-Xylene	ND	0.0500	1	12/14/22	12/16/22	
Total Xylenes	ND	0.0250	1	12/14/22	12/16/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		101 %	70-130	12/14/22	12/16/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2251051
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/14/22	12/16/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		98.2 %	70-130	12/14/22	12/16/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: JL		Batch: 2251066
Diesel Range Organics (C10-C28)	ND	25.0	1	12/15/22	12/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	12/15/22	12/15/22	
<i>Surrogate: n-Nonane</i>		103 %	50-200	12/15/22	12/15/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: KL		Batch: 2251050
Chloride	ND	20.0	1	12/14/22	12/15/22	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Rigel 20 Fed Com 3H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 12/20/2022 8:57:47AM
---	---	--

S5 6"

E212077-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: IY		Batch: 2251051
Benzene	ND	0.0250	1	12/14/22	12/16/22	
Ethylbenzene	ND	0.0250	1	12/14/22	12/16/22	
Toluene	ND	0.0250	1	12/14/22	12/16/22	
o-Xylene	ND	0.0250	1	12/14/22	12/16/22	
p,m-Xylene	ND	0.0500	1	12/14/22	12/16/22	
Total Xylenes	ND	0.0250	1	12/14/22	12/16/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		101 %	70-130	12/14/22	12/16/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2251051
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/14/22	12/16/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		98.3 %	70-130	12/14/22	12/16/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: JL		Batch: 2251066
Diesel Range Organics (C10-C28)	ND	25.0	1	12/15/22	12/15/22	
Oil Range Organics (C28-C36)	ND	50.0	1	12/15/22	12/15/22	
<i>Surrogate: n-Nonane</i>		105 %	50-200	12/15/22	12/15/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: KL		Batch: 2251050
Chloride	ND	20.0	1	12/14/22	12/15/22	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Rigel 20 Fed Com 3H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 12/20/2022 8:57:47AM
---	---	--

S5 2'

E212077-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: IY		Batch: 2251051
Benzene	ND	0.0250	1	12/14/22	12/16/22	
Ethylbenzene	ND	0.0250	1	12/14/22	12/16/22	
Toluene	ND	0.0250	1	12/14/22	12/16/22	
o-Xylene	ND	0.0250	1	12/14/22	12/16/22	
p,m-Xylene	ND	0.0500	1	12/14/22	12/16/22	
Total Xylenes	ND	0.0250	1	12/14/22	12/16/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		101 %	70-130	12/14/22	12/16/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2251051
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/14/22	12/16/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		98.4 %	70-130	12/14/22	12/16/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: JL		Batch: 2251066
Diesel Range Organics (C10-C28)	ND	25.0	1	12/15/22	12/16/22	
Oil Range Organics (C28-C36)	ND	50.0	1	12/15/22	12/16/22	
<i>Surrogate: n-Nonane</i>		108 %	50-200	12/15/22	12/16/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: KL		Batch: 2251050
Chloride	ND	20.0	1	12/14/22	12/15/22	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Rigel 20 Fed Com 3H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 12/20/2022 8:57:47AM
---	---	--

S5 4'

E212077-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: IY		Batch: 2251051
Benzene	ND	0.0250	1	12/14/22	12/16/22	
Ethylbenzene	ND	0.0250	1	12/14/22	12/16/22	
Toluene	ND	0.0250	1	12/14/22	12/16/22	
o-Xylene	ND	0.0250	1	12/14/22	12/16/22	
p,m-Xylene	ND	0.0500	1	12/14/22	12/16/22	
Total Xylenes	ND	0.0250	1	12/14/22	12/16/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		101 %	70-130	12/14/22	12/16/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2251051
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/14/22	12/16/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		98.0 %	70-130	12/14/22	12/16/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: JL		Batch: 2251066
Diesel Range Organics (C10-C28)	ND	25.0	1	12/15/22	12/16/22	
Oil Range Organics (C28-C36)	ND	50.0	1	12/15/22	12/16/22	
<i>Surrogate: n-Nonane</i>		108 %	50-200	12/15/22	12/16/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: KL		Batch: 2251050
Chloride	ND	20.0	1	12/14/22	12/15/22	



QC Summary Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Rigel 20 Fed Com 3H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 12/20/2022 8:57:47AM
---	---	--

Volatile Organics by EPA 8021B

Analyst: IY

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

Blank (2251051-BLK1)

Prepared: 12/14/22 Analyzed: 12/16/22

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	8.14		8.00		102	70-130			

LCS (2251051-BS1)

Prepared: 12/14/22 Analyzed: 12/16/22

Benzene	4.76	0.0250	5.00		95.3	70-130			
Ethylbenzene	4.92	0.0250	5.00		98.4	70-130			
Toluene	5.00	0.0250	5.00		99.9	70-130			
o-Xylene	5.06	0.0250	5.00		101	70-130			
p,m-Xylene	9.98	0.0500	10.0		99.8	70-130			
Total Xylenes	15.0	0.0250	15.0		100	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.08		8.00		101	70-130			

Matrix Spike (2251051-MS1)

Source: E212076-02

Prepared: 12/14/22 Analyzed: 12/16/22

Benzene	4.97	0.0250	5.00	ND	99.3	54-133			
Ethylbenzene	5.12	0.0250	5.00	ND	102	61-133			
Toluene	5.21	0.0250	5.00	ND	104	61-130			
o-Xylene	5.26	0.0250	5.00	ND	105	63-131			
p,m-Xylene	10.4	0.0500	10.0	ND	104	63-131			
Total Xylenes	15.6	0.0250	15.0	ND	104	63-131			
Surrogate: 4-Bromochlorobenzene-PID	8.08		8.00		101	70-130			

Matrix Spike Dup (2251051-MSD1)

Source: E212076-02

Prepared: 12/14/22 Analyzed: 12/16/22

Benzene	5.11	0.0250	5.00	ND	102	54-133	2.85	20	
Ethylbenzene	5.26	0.0250	5.00	ND	105	61-133	2.63	20	
Toluene	5.35	0.0250	5.00	ND	107	61-130	2.75	20	
o-Xylene	5.39	0.0250	5.00	ND	108	63-131	2.51	20	
p,m-Xylene	10.6	0.0500	10.0	ND	106	63-131	2.57	20	
Total Xylenes	16.0	0.0250	15.0	ND	107	63-131	2.55	20	
Surrogate: 4-Bromochlorobenzene-PID	8.00		8.00		100	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Rigel 20 Fed Com 3H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 12/20/2022 8:57:47AM
---	---	--

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

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

Blank (2251051-BLK1)

Prepared: 12/14/22 Analyzed: 12/16/22

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.95		8.00		99.3	70-130			

LCS (2251051-BS2)

Prepared: 12/14/22 Analyzed: 12/16/22

Gasoline Range Organics (C6-C10)	52.7	20.0	50.0		105	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.03		8.00		100	70-130			

Matrix Spike (2251051-MS2)

Source: E212076-02

Prepared: 12/14/22 Analyzed: 12/16/22

Gasoline Range Organics (C6-C10)	54.7	20.0	50.0	ND	109	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.02		8.00		100	70-130			

Matrix Spike Dup (2251051-MSD2)

Source: E212076-02

Prepared: 12/14/22 Analyzed: 12/16/22

Gasoline Range Organics (C6-C10)	48.5	20.0	50.0	ND	96.9	70-130	12.2	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.00		8.00		100	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Rigel 20 Fed Com 3H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 12/20/2022 8:57:47AM
---	---	--

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

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

Blank (2251066-BLK1)

Prepared: 12/15/22 Analyzed: 12/15/22

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	54.3		50.0		109	50-200			

LCS (2251066-BS1)

Prepared: 12/15/22 Analyzed: 12/15/22

Diesel Range Organics (C10-C28)	247	25.0	250		98.6	38-132			
Surrogate: n-Nonane	51.2		50.0		102	50-200			

Matrix Spike (2251066-MS1)

Source: E212077-08

Prepared: 12/15/22 Analyzed: 12/15/22

Diesel Range Organics (C10-C28)	250	25.0	250	ND	100	38-132			
Surrogate: n-Nonane	52.4		50.0		105	50-200			

Matrix Spike Dup (2251066-MSD1)

Source: E212077-08

Prepared: 12/15/22 Analyzed: 12/15/22

Diesel Range Organics (C10-C28)	246	25.0	250	ND	98.4	38-132	1.65	20	
Surrogate: n-Nonane	51.1		50.0		102	50-200			



QC Summary Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Rigel 20 Fed Com 3H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 12/20/2022 8:57:47AM
---	---	--

Anions by EPA 300.0/9056A

Analyst: KL

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

Blank (2251050-BLK1)

Prepared: 12/14/22 Analyzed: 12/15/22

Chloride	ND	20.0							
----------	----	------	--	--	--	--	--	--	--

LCS (2251050-BS1)

Prepared: 12/14/22 Analyzed: 12/15/22

Chloride	256	20.0	250		102	90-110			
----------	-----	------	-----	--	-----	--------	--	--	--

Matrix Spike (2251050-MS1)

Source: E212077-01

Prepared: 12/14/22 Analyzed: 12/15/22

Chloride	258	20.0	250	ND	103	80-120			
----------	-----	------	-----	----	-----	--------	--	--	--

Matrix Spike Dup (2251050-MSD1)

Source: E212077-01

Prepared: 12/14/22 Analyzed: 12/15/22

Chloride	257	20.0	250	ND	103	80-120	0.351	20	
----------	-----	------	-----	----	-----	--------	-------	----	--

QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Definitions and Notes

Pima Environmental Services-Carlsbad	Project Name:	Rigel 20 Fed Com 3H	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	12/20/22 08:57

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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



Client: Pima Environmental Services		Bill To		Lab Use Only		TAT		EPA Program			
Project: <u>Rigel 20 Fed Com 3H</u>		Attention: <u>Devon Energy</u>		Lab WO#	Job Number	1D	2D	3D	Standard	CWA	SDWA
Project Manager: Tom Bynum		Address:		<u>E212077</u>	<u>01058-0007</u>				X		
Address: 1601 N Turner St., Suite 500		City, State, Zip		Analysis and Method							
City, State, Zip <u>Hobbs, NM, 88240</u>		Phone:		DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX
Phone: 580-748-1613		Email:									
Email: <u>tom@pimaoil.com</u>		Pima Project # <u>1-166</u>									
Report due by:										State	
										NM	CO
										UT	AZ
										TX	

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	Remarks
8:00	12/13/22	S	1	S1-N Comp 1'	1							X		
8:05				S1-N Comp 2'	2									
8:10				S2-S Comp 1'	3									
8:15				S2-S Comp 2'	4									
8:20				S3-E Comp 1'	5									
8:25				S3-E Comp 2'	6									
8:30				S4-W Comp 1'	7									
8:35				S4-W Comp 2'	8									
8:40				S5 6"	9									
8:45				S5 2'	10									

Additional Instructions: Bill To Devon Energy: # 20868758

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.
 Sampled by: Neal Rogers
 Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature) <u>Neal Rogers</u>	Date <u>12-13-22</u>	Time <u>2:00</u>	Received by: (Signature) <u>Michelle Cruz</u>	Date <u>12-13-22</u>	Time <u>2:40</u>	Received on ice: <input checked="" type="checkbox"/> Y / <input type="checkbox"/> N
Relinquished by: (Signature) <u>Michelle Cruz</u>	Date <u>12-13-22</u>	Time <u>1600</u>	Received by: (Signature) <u>Keith Chit</u>	Date <u>12/14/22</u>	Time <u>10:45</u>	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	

T1 _____ T2 _____ T3 _____

AVG Temp °C 4

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

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



Client: Pima Environmental Services		Bill To		Lab Use Only		TAT			EPA Program					
Project: <u>Rigel 20 Fed Com 3H</u>		Attention: <u>Dewon Energy</u>		Lab WO# <u>E212077</u>		Job Number <u>01058-0007</u>			1D	2D	3D	Standard	CWA	SDWA
Project Manager: Tom Bynum		Address:		Analysis and Method										
Address: 1601 N Turner St., Suite 500		City, State, Zip												
City, State, Zip <u>Hobbs, NM, 88240</u>		Phone:												
Phone: 580-748-1613		Email:												
Email: tom@pimaoil.com		Pima Project # <u>1-166</u>												
Report due by:														

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	Remarks
8:50	12/13/22	S	1	55 4'	11							X		

Additional Instructions: Bill To Dewon Energy: # 20868758

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

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

Relinquished by: (Signature) <u>Ned Rogers</u>	Date <u>12-13-22</u>	Time <u>2:00</u>	Received by: (Signature) <u>Michelle Curly</u>	Date <u>12-13-22</u>	Time <u>1400</u>	Lab Use Only
Relinquished by: (Signature) <u>Michelle Curly</u>	Date <u>12-13-22</u>	Time <u>1600</u>	Received by: (Signature) <u>Cathy Ort</u>	Date <u>12/14/22</u>	Time <u>10:45</u>	Received on ice: <u>(Y)</u> N
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	T1 _____ T2 _____ T3 _____
						AVG Temp °C <u>4</u>

Sample Matrix: (S) - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other

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



Envirotech Analytical Laboratory

Printed: 12/14/2022 11:59:40AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Pima Environmental Services-Carlsbad	Date Received:	12/14/22 10:45	Work Order ID:	E212077
Phone:	(575) 631-6977	Date Logged In:	12/14/22 09:25	Logged In By:	Caitlin Christian
Email:	tom@pimaoil.com	Due Date:	12/20/22 17:00 (4 day TAT)		

Chain of Custody (COC)

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

Carrier: UPS

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

Comments/Resolution

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

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 171952

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 171952
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	None	1/4/2023