



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

May 4, 2021

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

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

**Re: Site Assessment and Closure Report  
Vega 29 Federal #004H  
API No. 30-015-42347  
GPS: Latitude 32.639918 Longitude -103.885349  
UL "P", Sec. 20, T19S, R31E  
Eddy County, NM  
NMOCD Ref. No. NAB1815956090 (2RP-4790)**

Dear Mr. Bratcher and Mr. Amos,

Pima Environmental Services, LLC (Pima) has been contracted by Devon Energy Production Company (Devon) to perform a spill assessment and has prepared this Closure Report for a crude oil/produced water mixed release that occurred at the Vega 29 Fed #4H (Vega). The release was discovered on May 22<sup>nd</sup>, 2018, and an initial C-141 was submitted on June 5<sup>th</sup>, 2018, which can be found in Appendix C. This incident was assigned Incident ID NAB1815956090 (2RP-4790), by the New Mexico Oil Conservation Division (NMOCD).

#### **Site Characterization**

The Vega is located approximately thirteen (13) miles southeast of Loco Hills, NM. This spill site is in Unit P, Section 20, Township 19S, Range 31E, Latitude 32.639918, Longitude -103.885349, Eddy County, NM. Figure 1 references a Location map.

Per the New Mexico Bureau of Geology and Mineral Resources, the geology is in the Eolian and piedmont deposits (Holocene to middle Pleistocene). 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 low potential for karst geology to be present in the area of the Vega (Figure 3).

According to the New Mexico Office of the State Engineer, depth to the nearest groundwater in this area is 140 feet below grade surface (BGS). According to the United States Geological Survey (USGS), the nearest groundwater is greater than 100 feet BGS. The closest waterway is a playa located approximately 5.5 miles to the southeast of this location. See Appendix A for referenced water surveys and a Surface Water Map.

Table 1 NMAC and Closure Criteria 19.15.29

Depth to Groundwater (Appendix B)	Constituent & Limits				
	Chlorides	Total TPH	GRO+DRO	BTEX	Benzene
140'	20,000 mg/kg	2,500 mg/kg	1,000 mg/kg	50 mg/kg	10 mg/kg
If the release occurred within any of the following areas, the responsible party would treat the release as if the groundwater was less than 50 feet per Rule 19.15.29					
Water Issues				Yes	No
Within <b>300</b> feet of any continuously flowing watercourse or any other significant watercourse					x
Within <b>200</b> feet of any lakebed, sinkhole or playa lake (measures from the ordinary high-water mark)					x
Within <b>300</b> feet from an occupied permanent residence, school, hospital, institution or church					x
Within <b>500</b> feet of a spring or a private, domestic freshwater well used by less than five households for domestic or stock water purposes					x
Within <b>1000</b> feet of any freshwater well or spring					x
Within incorporated municipal boundaries or within a defined municipal freshwater well field					x
Within <b>300</b> feet of a wetlands					x
Within the area overlying a subsurface mine					x
Within an unstable area (Karst)					x
Within a 100-year floodplain					x

Reference Figure 2 for a Topographic Map.

### **Release Information**

NAB1815956090 (2RP-4790): On May 22<sup>nd</sup>, 2018, a flange above the pumping tee on the wellhead developed a leak. The well was shut in to stop the release and repairs were made. All fluid stayed on the pad. The calculated fluids released were approximately 10.2 barrels (bbls) of crude oil and 23.8 bbls of produced water. No fluids were recovered.

### **Site Assessment and Soil Sampling Results**

On December 3<sup>rd</sup>, 2020, Pima Environmental mobilized personnel, and equipment to the site to assess the spill area. The laboratory results of this sampling event can be found in the following data table.

## 12-3-20 Soil Sample Results

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is >100')								
Devon Energy - Vega 29 Fed 4H								
Sample Date 12-3-20		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	0-6	ND	ND	ND	ND	59	59	ND
	1	ND	ND	ND	53	320	373	ND
	2	ND	ND	ND	150	880	1030	ND
	3	ND	ND	ND	41	250	291	ND
S-2	0-6	ND	ND	ND	ND	110	110	300
	1	ND	ND	ND	ND	ND	ND	ND
	2	ND	ND	ND	ND	ND	ND	ND
	3	ND	ND	ND	ND	ND	ND	ND
S-3	0-6	ND	ND	ND	18	ND	18	6100
	1	ND	ND	ND	ND	ND	ND	1300
	2	ND	ND	ND	ND	ND	ND	ND
	3	ND	ND	ND	ND	ND	ND	62
S-4	0-6	ND	ND	ND	390	400	790	6000
	1	ND	ND	ND	16	ND	16	1100
	2	ND	ND	ND	ND	ND	ND	1400
	3	ND	ND	ND	ND	ND	ND	1700
S-5	0-6	ND	ND	ND	3100	3800	6900	1100
	1	ND	ND	ND	330	370	700	490
	2	ND	ND	ND	25	ND	25	280
	3	ND	ND	ND	24	ND	24	550
S-6	0-6	ND	ND	ND	ND	ND	ND	5000
	1	ND	ND	ND	ND	ND	ND	370
	2	ND	ND	ND	ND	ND	ND	190
	3	ND	ND	ND	ND	ND	ND	100
S-7	0-6	ND	ND	ND	ND	ND	ND	550
	1	ND	ND	ND	ND	ND	ND	120
	2	ND	ND	ND	ND	ND	ND	ND
	3	ND	ND	ND	ND	ND	ND	ND
S-8	0-6	ND	ND	ND	ND	ND	ND	290
	1	ND	ND	ND	ND	ND	ND	ND
	2	ND	ND	ND	ND	ND	ND	ND
	3	ND	ND	ND	ND	ND	ND	ND
BG-1	0	ND	ND	ND	ND	ND	ND	900
BG-2	0	ND	ND	ND	ND	ND	ND	150
BG-3	0	ND	ND	ND	ND	ND	ND	1600
BG-4	0	ND	ND	ND	ND	ND	ND	660

ND- Analyte Not Detected

**Remediation Activities**

On February 11<sup>th</sup>, 2021, Pima returned to this site to remediate the contaminated areas by excavating and treating the soil with a bioremediation chemical solution. The area around sample point S-1 was excavated to a depth of 4-feet bgs. The area around sample point S-3 was excavated to a depth of 2-feet bgs. The area around sample point S-4 was excavated to a depth of 4-feet bgs. The area around sample point S-5 was excavated to a depth of 2-feet bgs. The area around sample point S-6 was excavated to a depth of 1-foot bgs. The excavated material was laid out on site and treated, then with a tiller we worked in the treatment. This process was repeated 3 times to ensure proper bonding could be accomplished. After confirming that the excavation was free of contamination, we backfilled it using the treated materials. Photographic documentation can be found in Appendix D.

On April 28<sup>th</sup>, 2021, Pima returned to the site to collect confirmation samples of the treated areas. The results of this sampling event can be found in the following table.

## 4-28-21 Confirmation Soil Sample Results

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is >100')								
Devon Energy - Vega 29 Fed 4H								
Sample Date 4-29-21		NM Approved Laboratory Results						
Sample ID	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg
S-1	0-6"	ND	ND	ND	ND	ND	0	80
	2'	ND	ND	ND	ND	ND	0	128
	4'	ND	ND	ND	ND	ND	0	320
S-3	0-6"	ND	ND	ND	ND	ND	0	176
	2	ND	ND	ND	ND	ND	0	352
S-4	0-6	ND	ND	ND	35.4	ND	35.4	240
	2	ND	ND	ND	ND	ND	0	192
	4'	ND	ND	ND	36	ND	36	320
S-5	0-6	ND	ND	ND	59.8	ND	59.8	240
	2	ND	ND	ND	22.8	ND	22.8	160
S-6	0-6	ND	ND	ND	ND	ND	0	624

ND- Analyte Not Detected

Complete Laboratory Reports can be found in Appendix E.

**Closure Request**

After careful review, Pima, on behalf of Devon Energy, would like to respectfully request that Incident ID NAB1815956090 (2RP-4790), be closed.

If you have any questions or need additional information, please feel free to contact Tom Bynum by phone at 580-748-1613, or by email at tom@pimaoil.com.

Respectfully,



Tom Bynum  
Environmental Project Manager  
Pima Environmental Services, LLC

**Attachments**

Figures:

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

Appendices:

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



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**Figures:**

1-Location Map

2-Topo Map

3-Karst Map

4-Site Map

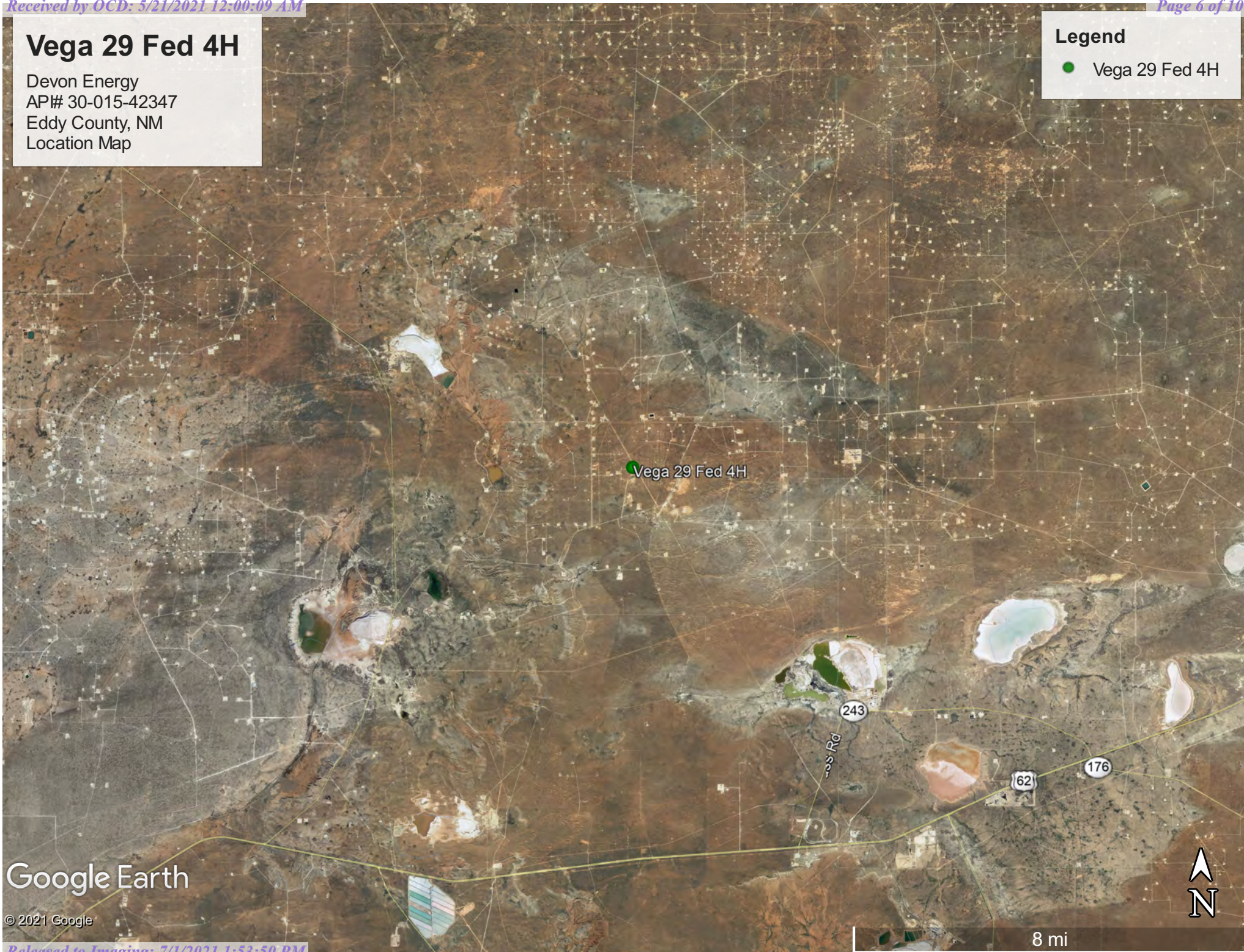


# Vega 29 Fed 4H

Devon Energy  
API# 30-015-42347  
Eddy County, NM  
Location Map

## Legend

● Vega 29 Fed 4H



Google Earth

© 2021 Google

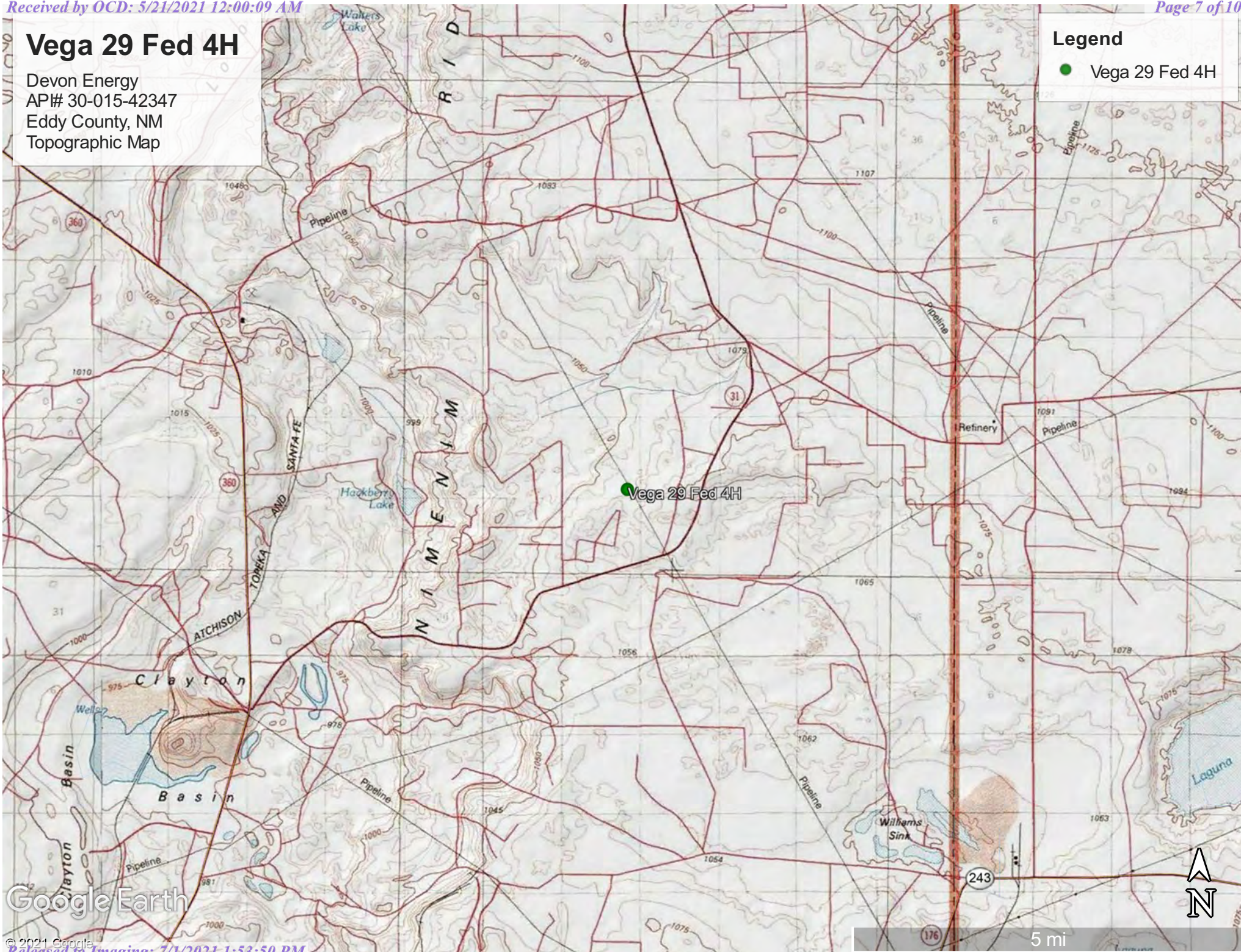


# Vega 29 Fed 4H

Devon Energy  
API# 30-015-42347  
Eddy County, NM  
Topographic Map

## Legend

● Vega 29 Fed 4H



Google Earth



# Vega 29 Fed 4H

Devon Energy  
API# 30-015-42347  
Eddy County, NM  
Karst Map

## Legend

- High Karst
- Low Karst
- Medium Karst
- Vega 29 Fed 4H

Vega 29 Fed 4H

Google Earth

243

5 mi





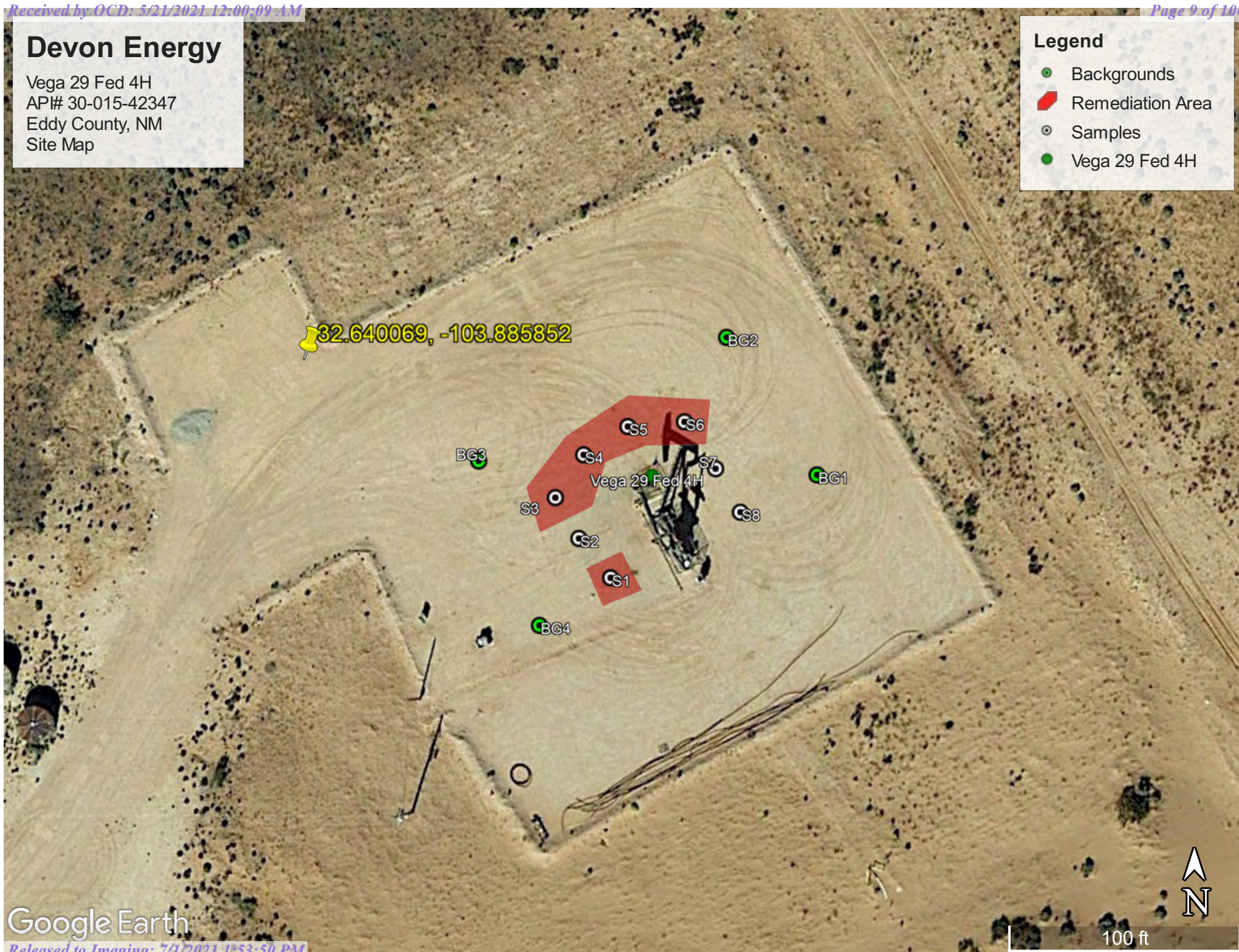
# Devon Energy

Vega 29 Fed 4H  
API# 30-015-42347  
Eddy County, NM  
Site Map

## Legend

- Backgrounds
- Remediation Area
- Samples
- Vega 29 Fed 4H

32.640069, -103.885852







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## **Appendix A**

Water Surveys:

OSE

USGS

Surface Water Map

Active Wells Map





# New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

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

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

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
<a href="#">CP 00725 POD1</a>		CP	ED	1	3	3	28	19S	31E	604906	3610473*	1488	231		
<a href="#">CP 00722 POD1</a>		CP	LE	4	3	3	28	19S	31E	605106	3610273*	1737	200		
<a href="#">CP 00722 POD1</a>	R	CP	LE	4	3	3	28	19S	31E	605106	3610273*	1737	200		
<a href="#">CP 00723 POD1</a>		CP	ED	2	1	1	33	19S	31E	605111	3610071*	1931	139		
<a href="#">CP 00722 POD3</a>		CP	LE	2	4	1	33	19S	31E	605519	3609673*	2446	220	140	80
<a href="#">CP 00829 POD1</a>		CP	LE		2	4	16	19S	31E	606165	3614009*	2644	120		
<a href="#">CP 01554 POD2</a>		CP	LE	2	2	1	22	19S	31E	607165	3613322	2971	400		
<a href="#">CP 01554 POD1</a>		CP	LE	2	2	1	22	19S	31E	607166	3613354	2987	400		
<a href="#">CP 00873 POD1</a>		CP	LE		1	1	19	19S	31E	601772	3613147*	3034	340	180	160
<a href="#">CP 00357 POD1</a>		CP	ED	4	4	1	24	19S	30E	600667	3612631*	3944	630		

Average Depth to Water: **160 feet**

Minimum Depth: **140 feet**

Maximum Depth: **180 feet**

**Record Count:** 10

### UTMNAD83 Radius Search (in meters):

**Easting (X):** 604546.64

**Northing (Y):** 3611917.85

**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.

1/28/21 1:53 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER



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## National Water Information System: Web Interface

USGS Water Resources

Data Category:


Groundwater

Geographic Area:

United States

GO

Click to hide News Bulletins

- [Introducing The Next Generation of USGS Water Data for the Nation](#)
- [Full News](#) 

Groundwater levels for the Nation

### Search Results -- 1 sites found

site\_no list =

- 323730103524701

Minimum number of levels = 1

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

### USGS 323730103524701 19S.31E.28.334133

Available data for this site

Groundwater: Field measurements

GO

Eddy County, New Mexico

Hydrologic Unit Code 13060011

Latitude 32°37'30", Longitude 103°52'47" NAD27

Land-surface elevation 3,445 feet above NGVD29

The depth of the well is 204.00 feet below land surface.

This well is completed in the Dockum Group (231DCKM) local aquifer.

#### Output formats

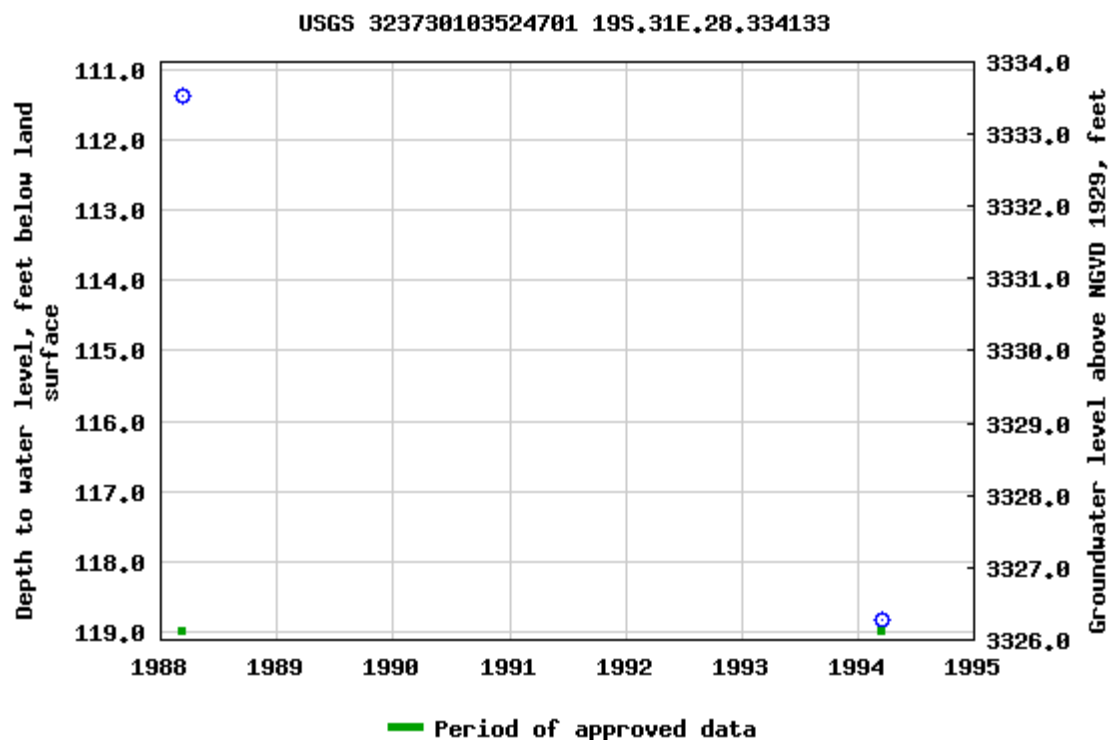
[Table of data](#)

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

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**Title: Groundwater for USA: Water Levels**

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



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

Page Last Modified: 2021-01-28 15:57:38 EST

0.56 0.5 nadww01



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## National Water Information System: Web Interface

USGS Water Resources

Data Category:


Groundwater

Geographic Area:

United States

GO

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Groundwater levels for the Nation

### Search Results -- 1 sites found

site\_no list =

- 323810103511401

Minimum number of levels = 1

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

### USGS 323810103511401 19S.31E.27.214121

Available data for this site

Groundwater: Field measurements

GO

Eddy County, New Mexico

Hydrologic Unit Code 13060011

Latitude 32°38'10", Longitude 103°51'14" NAD27

Land-surface elevation 3,480 feet above NGVD29

The depth of the well is 210.00 feet below land surface.

This well is completed in the Santa Rosa Sandstone (231SNRS) local aquifer.

#### Output formats

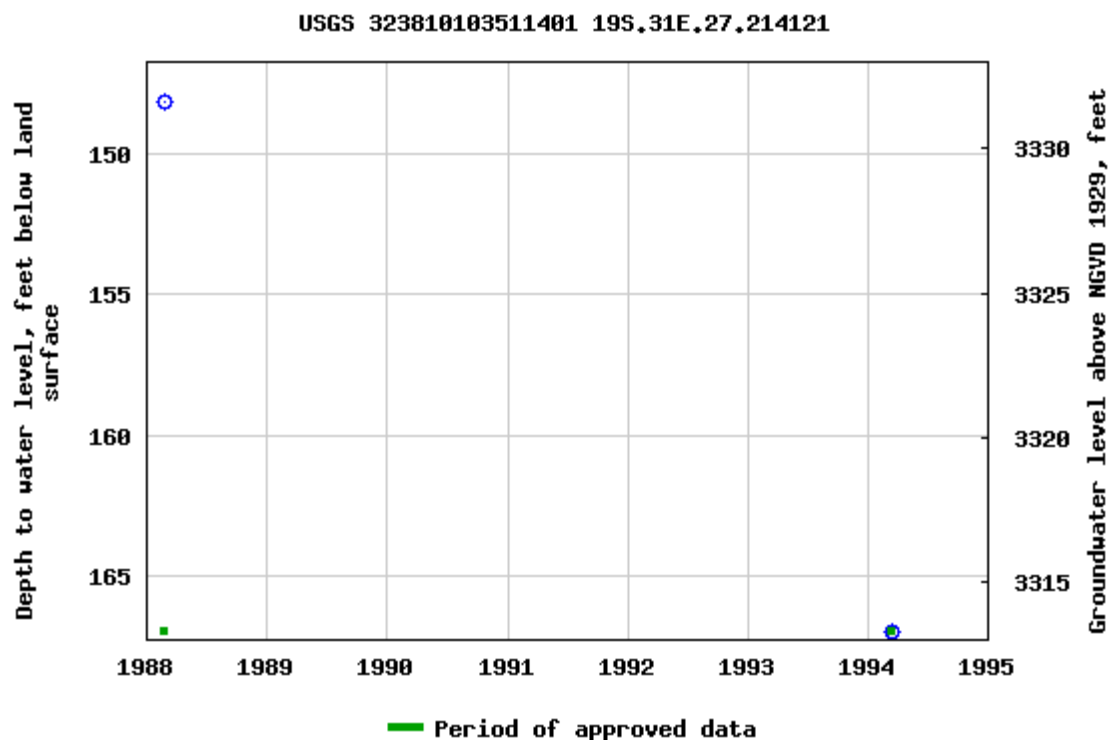
[Table of data](#)

[Tab-separated data](#)

[Graph of data](#)

[Reselect period](#)





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

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

Page Last Modified: 2021-01-28 16:00:33 EST

0.67 0.6 nadww02



# Vega 29 Fed 4H

Devon Energy  
API# 30-015-42347  
Eddy County, NM  
Surface Water Map

## Legend

- 5.15 Miles
- Playa
- Vega 29 Fed 4H

Vega 29 Fed 4H

Playa

Google Earth



3 mi

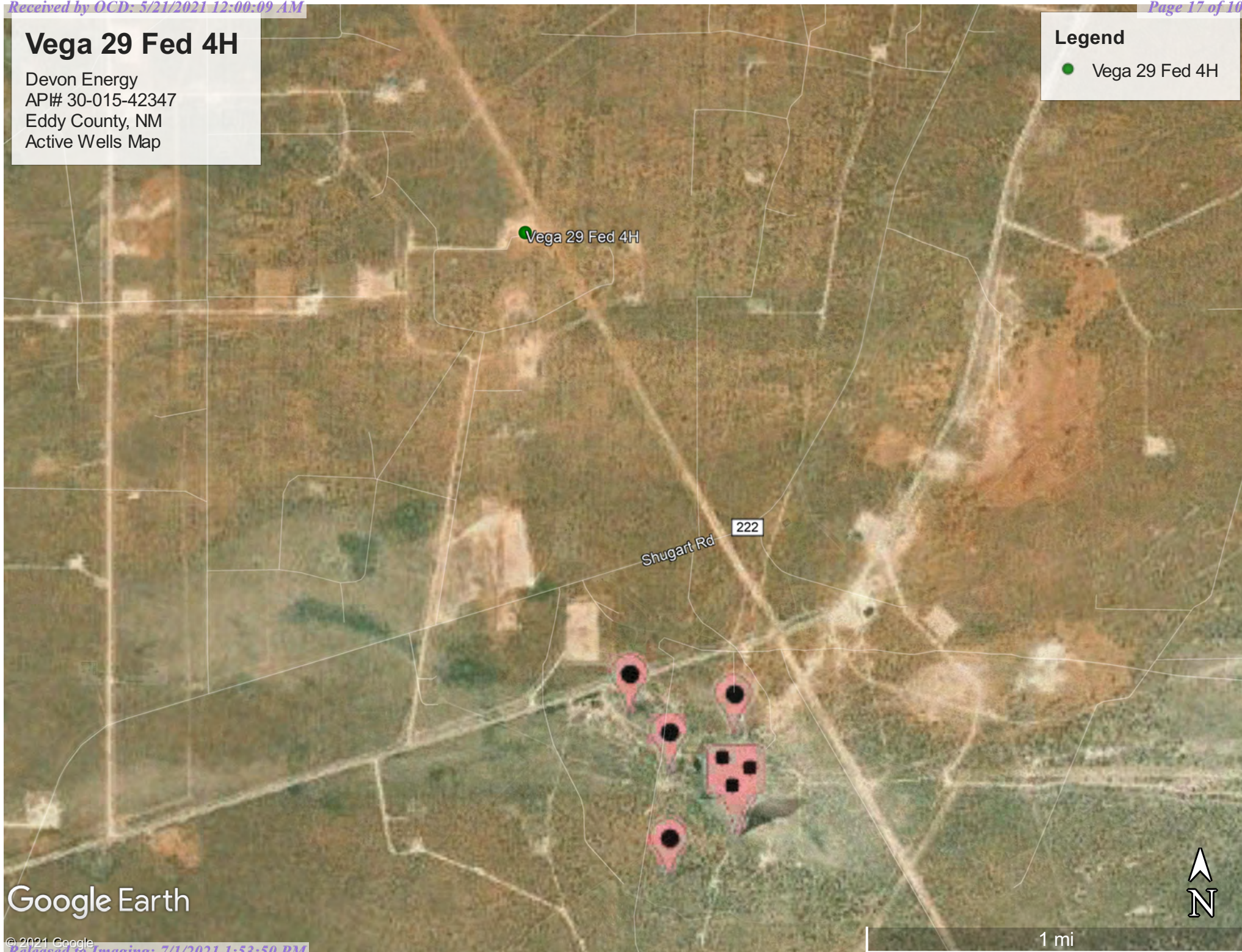


## Vega 29 Fed 4H

Devon Energy  
API# 30-015-42347  
Eddy County, NM  
Active Wells Map

### Legend

● Vega 29 Fed 4H



Google Earth





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**Appendix B**

Soil Survey & Geological Data

FEMA Flood Map

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

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## 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

*Natural 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

*Salinity, maximum in profile:* Nonsaline (0.0 to 1.0 mmhos/cm)

*Sodium adsorption ratio, maximum in profile:* 1.0

*Available water storage in profile:* Low (about 3.1 inches)

##### Interpretive groups

*Land capability classification (irrigated):* None specified

*Land capability classification (nonirrigated):* 7e

*Hydrologic Soil Group:* A

*Ecological site:* Deep Sand (R042XC005NM)

*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:* Fan piedmonts, plains  
*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  
*Natural 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 in profile:* 40 percent  
*Salinity, maximum in profile:* Very slightly saline to slightly saline  
(2.0 to 4.0 mmhos/cm)  
*Sodium adsorption ratio, maximum in profile:* 1.0  
*Available water storage in profile:* Moderate (about 7.2 inches)

### Interpretive groups

*Land capability classification (irrigated):* 4e  
*Land capability classification (nonirrigated):* 7e  
*Hydrologic Soil Group:* B  
*Ecological site:* Loamy Sand (R042XC003NM)  
*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 15, Sep 15, 2019



# National Flood Hazard Layer FIRMMette



103°53'26"W 32°38'39"N



### Legend

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

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

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

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 2/16/2021 at 11:59 AM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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



Pima Environmental Services

## **Appendix C**

C-141's:

Initial

Final



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

State of New Mexico  
Energy Minerals and Natural Resources  
Oil Conservation Division  
1220 South St. Francis Dr. DISTRICT II-ARTESIA O.C.D.  
Santa Fe, NM 87505

JUN 05 2018

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

Form C-141  
Revised April 3, 2017

## Release Notification and Corrective Action

## OPERATOR

☒ Initial Report ☐ Final Report

Name of Company	Devon Energy Production Company <i>6137</i>	Contact	Steve McGlasson, Production Foreman
Address	6488 Seven Rivers Hwy Artesia, NM 88210	Telephone No.	575-748-3371
Facility Name	Vega 29 Federal 4H	Facility Type	Oil
Surface Owner	Federal	Mineral Owner	Federal
		API No.	30-015-42347

## LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
P	20	19S	31E					Eddy

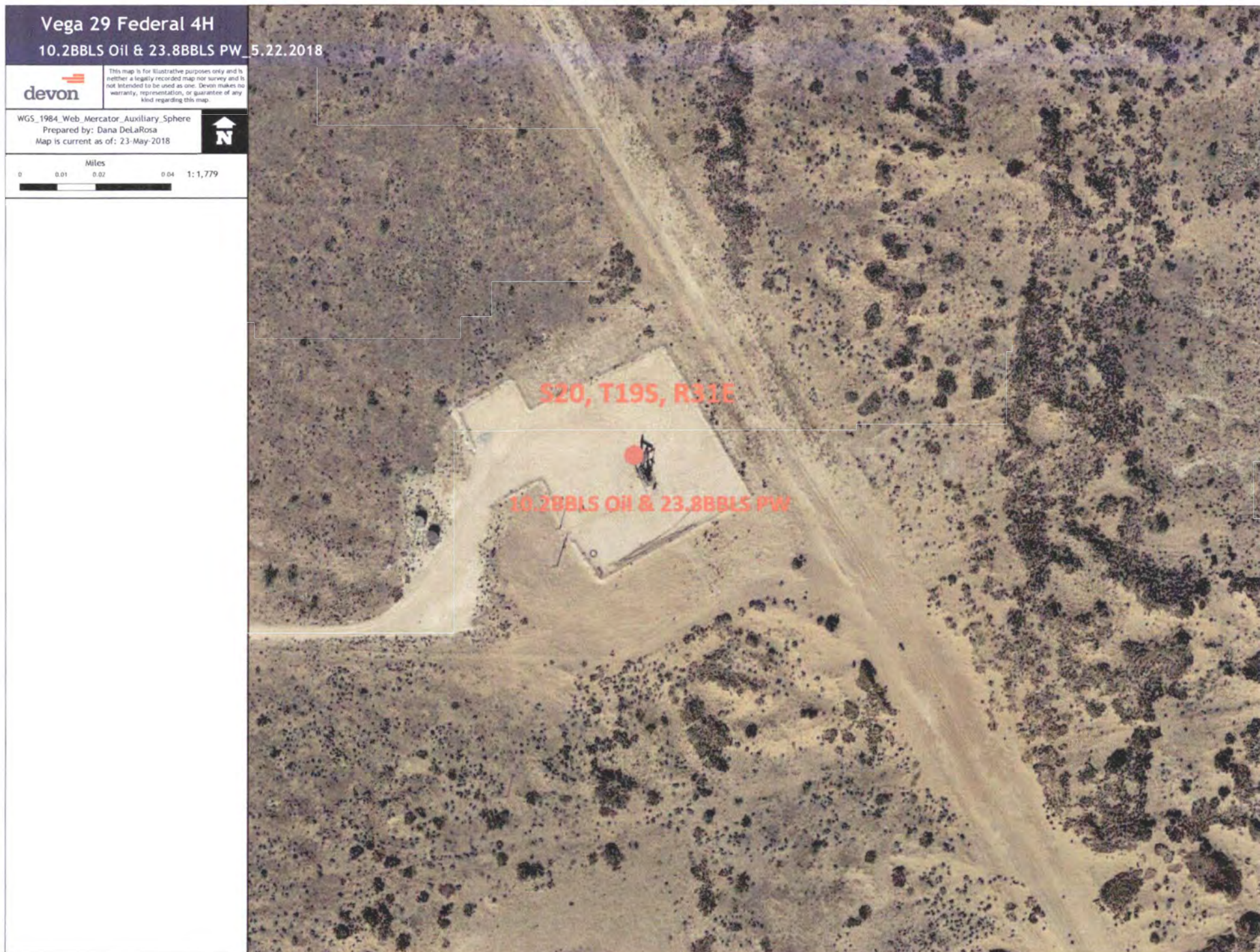
Latitude\_32.639918\_ Longitude\_103.885349\_ NAD83

## NATURE OF RELEASE

Type of Release	Oil & Produced Water (PW)	Volume of Release	10.2BBLS Oil & 23.8BBLS PW	Volume Recovered	None
Source of Release	Flange above pumping tee	Date and Hour of Occurrence	May 22, 2018 @ 10:00 AM MST	Date and Hour of Discovery	May 22, 2018 @ 10:00 AM MST
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Mike Bratcher, OCD Crystal Weaver, OCD Shelly Tucker, BLM		
By Whom?	Brett Fulks, EHS Professional	Date and Hour	May 22, 2018 @ 10:18 PM		
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.* A flange above the pumping tee on the wellhead developed a leak. The well was shut in to stop the release and repairs have been made. All fluids stayed on location.					
Describe Area Affected and Cleanup Action Taken.* Approximately 10.2BBLS Oil and 23.8BBLS PW was released with no fluids recovered. An environmental contractor will be contacted to assist with delineation and remediation efforts.					
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>Dana DeLaRosa</i>		OIL CONSERVATION DIVISION			
Printed Name: Dana DeLaRosa		Approved by Environmental Specialist: <i>[Signature]</i>			
Title: Field Admin Support		Approval Date: <i>6/5/18</i>	Expiration Date: <i>N/A</i>		
E-mail Address: Dana.Delarosa@dvn.com		Conditions of Approval: <i>See attached</i>		Attached <input type="checkbox"/> <i>APP. 4790</i>	
Date: Phone: 575.746.5594					

\* Attach Additional Sheets If Necessary







Incident ID	NAB1815956090
District RP	2RP-4790
Facility ID	
Application ID	

## Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>&gt;100</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input 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 <b>not</b> 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.



Incident ID	NAB1815956090
District RP	2RP-4790
Facility ID	
Application ID	

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

Printed Name: Wes Mathews Title: EHS Professional  
Signature: Wesley Mathews Date: 4/30/2021  
email: wesley.mathews@dvn.com Telephone: 575-513-8608

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

Incident ID	NAB1815956090
District RP	2RP-4790
Facility ID	
Application ID	

## Closure

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

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

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

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

Printed Name: Wes Mathews Title: EHS Professional  
Signature: Wesley Mathews Date: 4/30/2021  
email: wesley.mathews@dvn.com Telephone: 575-513-8608

**OCD Only**

Received by: Chad Hensley Date: 07/01/2021

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

Closure Approved by: Chad Hensley Date: 07/01/2021  
Printed Name: Chad Hensley Title: Environmental Specialist Advanced



Pima Environmental Services

## **Appendix D**

Photographic Documentation





## SITE PHOTOGRAPHS



















Pima Environmental Services

## **Appendix E**

Laboratory Reports





Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [clients.hallenvironmental.com](http://clients.hallenvironmental.com)

December 16, 2020

Chris Jones

Pima Environmental Services LLC

1601 N. Turner Ste 500

Hobbs, NM 88240

TEL: (575) 631-6977

FAX

RE: Vega 29 Fed 4H

OrderNo.: 2012297

Dear Chris Jones:

Hall Environmental Analysis Laboratory received 36 sample(s) on 12/5/2020 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to [www.hallenvironmental.com](http://www.hallenvironmental.com) or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a light blue horizontal line.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

## Analytical Report

Lab Order 2012297

Date Reported: 12/16/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S-1 0"-6"

Project: Vega 29 Fed 4H

Collection Date: 12/3/2020

Lab ID: 2012297-001

Matrix: SOIL

Received Date: 12/5/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	12/9/2020 5:26:16 AM
Motor Oil Range Organics (MRO)	59	47		mg/Kg	1	12/9/2020 5:26:16 AM
Surr: DNOP	104	30.4-154		%Rec	1	12/9/2020 5:26:16 AM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>CAS</b>
Chloride	ND	59		mg/Kg	20	12/10/2020 1:11:56 PM
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>						Analyst: <b>DJF</b>
Benzene	ND	0.025		mg/Kg	1	12/9/2020 9:30:51 PM
Toluene	ND	0.049		mg/Kg	1	12/9/2020 9:30:51 PM
Ethylbenzene	ND	0.049		mg/Kg	1	12/9/2020 9:30:51 PM
Xylenes, Total	ND	0.098		mg/Kg	1	12/9/2020 9:30:51 PM
Surr: 1,2-Dichloroethane-d4	89.3	70-130		%Rec	1	12/9/2020 9:30:51 PM
Surr: 4-Bromofluorobenzene	104	70-130		%Rec	1	12/9/2020 9:30:51 PM
Surr: Dibromofluoromethane	105	70-130		%Rec	1	12/9/2020 9:30:51 PM
Surr: Toluene-d8	95.0	70-130		%Rec	1	12/9/2020 9:30:51 PM
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>						Analyst: <b>DJF</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/9/2020 9:30:51 PM
Surr: BFB	103	70-130		%Rec	1	12/9/2020 9:30:51 PM

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

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

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## Analytical Report

Lab Order 2012297

Date Reported: 12/16/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S-1 1'

Project: Vega 29 Fed 4H

Collection Date: 12/3/2020

Lab ID: 2012297-002

Matrix: SOIL

Received Date: 12/5/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	53	10		mg/Kg	1	12/9/2020 5:36:00 AM
Motor Oil Range Organics (MRO)	320	50		mg/Kg	1	12/9/2020 5:36:00 AM
Surr: DNOP	109	30.4-154		%Rec	1	12/9/2020 5:36:00 AM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>CAS</b>
Chloride	ND	60		mg/Kg	20	12/10/2020 1:24:20 PM
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>						Analyst: <b>DJF</b>
Benzene	ND	0.024		mg/Kg	1	12/9/2020 9:57:58 PM
Toluene	ND	0.049		mg/Kg	1	12/9/2020 9:57:58 PM
Ethylbenzene	ND	0.049		mg/Kg	1	12/9/2020 9:57:58 PM
Xylenes, Total	ND	0.098		mg/Kg	1	12/9/2020 9:57:58 PM
Surr: 1,2-Dichloroethane-d4	87.8	70-130		%Rec	1	12/9/2020 9:57:58 PM
Surr: 4-Bromofluorobenzene	105	70-130		%Rec	1	12/9/2020 9:57:58 PM
Surr: Dibromofluoromethane	105	70-130		%Rec	1	12/9/2020 9:57:58 PM
Surr: Toluene-d8	96.7	70-130		%Rec	1	12/9/2020 9:57:58 PM
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>						Analyst: <b>DJF</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/9/2020 9:57:58 PM
Surr: BFB	99.1	70-130		%Rec	1	12/9/2020 9:57:58 PM

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

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

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## Analytical Report

Lab Order 2012297

Date Reported: 12/16/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S-1 2'

Project: Vega 29 Fed 4H

Collection Date: 12/3/2020

Lab ID: 2012297-003

Matrix: SOIL

Received Date: 12/5/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	150	87		mg/Kg	10	12/9/2020 6:14:58 AM
Motor Oil Range Organics (MRO)	880	440		mg/Kg	10	12/9/2020 6:14:58 AM
Surr: DNOP	0	30.4-154	S	%Rec	10	12/9/2020 6:14:58 AM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	12/10/2020 11:09:00 AM
Surr: BFB	87.4	75.3-105		%Rec	1	12/10/2020 11:09:00 AM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>RAA</b>
Benzene	ND	0.023		mg/Kg	1	12/10/2020 11:09:00 AM
Toluene	ND	0.047		mg/Kg	1	12/10/2020 11:09:00 AM
Ethylbenzene	ND	0.047		mg/Kg	1	12/10/2020 11:09:00 AM
Xylenes, Total	ND	0.094		mg/Kg	1	12/10/2020 11:09:00 AM
Surr: 4-Bromofluorobenzene	87.5	80-120		%Rec	1	12/10/2020 11:09:00 AM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>CAS</b>
Chloride	ND	60		mg/Kg	20	12/10/2020 1:36:45 PM

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

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

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## Analytical Report

Lab Order 2012297

Date Reported: 12/16/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S-1 3'

Project: Vega 29 Fed 4H

Collection Date: 12/3/2020

Lab ID: 2012297-004

Matrix: SOIL

Received Date: 12/5/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	41	9.6		mg/Kg	1	12/10/2020 6:59:11 AM
Motor Oil Range Organics (MRO)	250	48		mg/Kg	1	12/10/2020 6:59:11 AM
Surr: DNOP	117	30.4-154		%Rec	1	12/10/2020 6:59:11 AM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/10/2020 12:18:36 PM
Surr: BFB	89.6	75.3-105		%Rec	1	12/10/2020 12:18:36 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>RAA</b>
Benzene	ND	0.024		mg/Kg	1	12/10/2020 12:18:36 PM
Toluene	ND	0.048		mg/Kg	1	12/10/2020 12:18:36 PM
Ethylbenzene	ND	0.048		mg/Kg	1	12/10/2020 12:18:36 PM
Xylenes, Total	ND	0.096		mg/Kg	1	12/10/2020 12:18:36 PM
Surr: 4-Bromofluorobenzene	89.4	80-120		%Rec	1	12/10/2020 12:18:36 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>CAS</b>
Chloride	ND	59		mg/Kg	20	12/10/2020 1:49:09 PM

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

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

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## Analytical Report

Lab Order 2012297

Date Reported: 12/16/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S-2 0"-6"

Project: Vega 29 Fed 4H

Collection Date: 12/3/2020

Lab ID: 2012297-005

Matrix: SOIL

Received Date: 12/5/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	12/10/2020 7:23:00 AM
Motor Oil Range Organics (MRO)	110	50		mg/Kg	1	12/10/2020 7:23:00 AM
Surr: DNOP	82.4	30.4-154		%Rec	1	12/10/2020 7:23:00 AM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/10/2020 1:28:28 PM
Surr: BFB	89.3	75.3-105		%Rec	1	12/10/2020 1:28:28 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>RAA</b>
Benzene	ND	0.025		mg/Kg	1	12/10/2020 1:28:28 PM
Toluene	ND	0.049		mg/Kg	1	12/10/2020 1:28:28 PM
Ethylbenzene	ND	0.049		mg/Kg	1	12/10/2020 1:28:28 PM
Xylenes, Total	ND	0.098		mg/Kg	1	12/10/2020 1:28:28 PM
Surr: 4-Bromofluorobenzene	89.4	80-120		%Rec	1	12/10/2020 1:28:28 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>CAS</b>
Chloride	300	60		mg/Kg	20	12/10/2020 2:01:34 PM

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

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

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## Analytical Report

Lab Order 2012297

Date Reported: 12/16/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S-2 1'

Project: Vega 29 Fed 4H

Collection Date: 12/3/2020

Lab ID: 2012297-006

Matrix: SOIL

Received Date: 12/5/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	12/9/2020 6:43:42 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	12/9/2020 6:43:42 AM
Surr: DNOP	129	30.4-154		%Rec	1	12/9/2020 6:43:42 AM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/10/2020 1:51:43 PM
Surr: BFB	88.2	75.3-105		%Rec	1	12/10/2020 1:51:43 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>RAA</b>
Benzene	ND	0.024		mg/Kg	1	12/10/2020 1:51:43 PM
Toluene	ND	0.048		mg/Kg	1	12/10/2020 1:51:43 PM
Ethylbenzene	ND	0.048		mg/Kg	1	12/10/2020 1:51:43 PM
Xylenes, Total	ND	0.096		mg/Kg	1	12/10/2020 1:51:43 PM
Surr: 4-Bromofluorobenzene	88.5	80-120		%Rec	1	12/10/2020 1:51:43 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>CAS</b>
Chloride	ND	59		mg/Kg	20	12/10/2020 2:13:58 PM

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

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

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## Analytical Report

Lab Order 2012297

Date Reported: 12/16/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S-2 2'

Project: Vega 29 Fed 4H

Collection Date: 12/3/2020

Lab ID: 2012297-007

Matrix: SOIL

Received Date: 12/5/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	12/9/2020 6:53:16 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	12/9/2020 6:53:16 AM
Surr: DNOP	134	30.4-154		%Rec	1	12/9/2020 6:53:16 AM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/10/2020 2:14:58 PM
Surr: BFB	89.4	75.3-105		%Rec	1	12/10/2020 2:14:58 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>RAA</b>
Benzene	ND	0.024		mg/Kg	1	12/10/2020 2:14:58 PM
Toluene	ND	0.048		mg/Kg	1	12/10/2020 2:14:58 PM
Ethylbenzene	ND	0.048		mg/Kg	1	12/10/2020 2:14:58 PM
Xylenes, Total	ND	0.097		mg/Kg	1	12/10/2020 2:14:58 PM
Surr: 4-Bromofluorobenzene	88.8	80-120		%Rec	1	12/10/2020 2:14:58 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>CAS</b>
Chloride	ND	59		mg/Kg	20	12/10/2020 2:26:23 PM

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

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

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## Analytical Report

Lab Order 2012297

Date Reported: 12/16/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S-2 3'

Project: Vega 29 Fed 4H

Collection Date: 12/3/2020

Lab ID: 2012297-008

Matrix: SOIL

Received Date: 12/5/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	12/9/2020 7:02:50 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	12/9/2020 7:02:50 AM
Surr: DNOP	120	30.4-154		%Rec	1	12/9/2020 7:02:50 AM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/10/2020 2:38:19 PM
Surr: BFB	89.3	75.3-105		%Rec	1	12/10/2020 2:38:19 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>RAA</b>
Benzene	ND	0.024		mg/Kg	1	12/10/2020 2:38:19 PM
Toluene	ND	0.049		mg/Kg	1	12/10/2020 2:38:19 PM
Ethylbenzene	ND	0.049		mg/Kg	1	12/10/2020 2:38:19 PM
Xylenes, Total	ND	0.097		mg/Kg	1	12/10/2020 2:38:19 PM
Surr: 4-Bromofluorobenzene	88.8	80-120		%Rec	1	12/10/2020 2:38:19 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>CAS</b>
Chloride	ND	60		mg/Kg	20	12/10/2020 2:38:47 PM

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

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

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## Analytical Report

Lab Order 2012297

Date Reported: 12/16/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S-3 0"-6"

Project: Vega 29 Fed 4H

Collection Date: 12/3/2020

Lab ID: 2012297-009

Matrix: SOIL

Received Date: 12/5/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	18	9.3		mg/Kg	1	12/9/2020 7:12:19 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	12/9/2020 7:12:19 AM
Surr: DNOP	104	30.4-154		%Rec	1	12/9/2020 7:12:19 AM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/10/2020 3:01:39 PM
Surr: BFB	88.1	75.3-105		%Rec	1	12/10/2020 3:01:39 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>RAA</b>
Benzene	ND	0.025		mg/Kg	1	12/10/2020 3:01:39 PM
Toluene	ND	0.050		mg/Kg	1	12/10/2020 3:01:39 PM
Ethylbenzene	ND	0.050		mg/Kg	1	12/10/2020 3:01:39 PM
Xylenes, Total	ND	0.10		mg/Kg	1	12/10/2020 3:01:39 PM
Surr: 4-Bromofluorobenzene	85.4	80-120		%Rec	1	12/10/2020 3:01:39 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>VP</b>
Chloride	6100	300		mg/Kg	100	12/11/2020 12:52:22 PM

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

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

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## Analytical Report

Lab Order 2012297

Date Reported: 12/16/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S-3 1'

Project: Vega 29 Fed 4H

Collection Date: 12/3/2020

Lab ID: 2012297-010

Matrix: SOIL

Received Date: 12/5/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	12/9/2020 7:21:51 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	12/9/2020 7:21:51 AM
Surr: DNOP	90.7	30.4-154		%Rec	1	12/9/2020 7:21:51 AM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/10/2020 3:25:00 PM
Surr: BFB	90.4	75.3-105		%Rec	1	12/10/2020 3:25:00 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>RAA</b>
Benzene	ND	0.025		mg/Kg	1	12/10/2020 3:25:00 PM
Toluene	ND	0.050		mg/Kg	1	12/10/2020 3:25:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	12/10/2020 3:25:00 PM
Xylenes, Total	ND	0.099		mg/Kg	1	12/10/2020 3:25:00 PM
Surr: 4-Bromofluorobenzene	89.1	80-120		%Rec	1	12/10/2020 3:25:00 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>CAS</b>
Chloride	1300	61		mg/Kg	20	12/10/2020 3:03:36 PM

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

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

## Analytical Report

Lab Order 2012297

Date Reported: 12/16/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S-3 2'

Project: Vega 29 Fed 4H

Collection Date: 12/3/2020

Lab ID: 2012297-011

Matrix: SOIL

Received Date: 12/5/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	12/9/2020 7:31:19 AM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	12/9/2020 7:31:19 AM
Surr: DNOP	125	30.4-154		%Rec	1	12/9/2020 7:31:19 AM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/10/2020 3:48:25 PM
Surr: BFB	88.6	75.3-105		%Rec	1	12/10/2020 3:48:25 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>RAA</b>
Benzene	ND	0.024		mg/Kg	1	12/10/2020 3:48:25 PM
Toluene	ND	0.049		mg/Kg	1	12/10/2020 3:48:25 PM
Ethylbenzene	ND	0.049		mg/Kg	1	12/10/2020 3:48:25 PM
Xylenes, Total	ND	0.098		mg/Kg	1	12/10/2020 3:48:25 PM
Surr: 4-Bromofluorobenzene	87.5	80-120		%Rec	1	12/10/2020 3:48:25 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>CAS</b>
Chloride	ND	61		mg/Kg	20	12/10/2020 3:40:51 PM

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

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

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## Analytical Report

Lab Order 2012297

Date Reported: 12/16/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S-3 3'

Project: Vega 29 Fed 4H

Collection Date: 12/3/2020

Lab ID: 2012297-012

Matrix: SOIL

Received Date: 12/5/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	12/9/2020 7:40:43 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	12/9/2020 7:40:43 AM
Surr: DNOP	125	30.4-154		%Rec	1	12/9/2020 7:40:43 AM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/10/2020 4:58:40 PM
Surr: BFB	90.2	75.3-105		%Rec	1	12/10/2020 4:58:40 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>RAA</b>
Benzene	ND	0.024		mg/Kg	1	12/10/2020 4:58:40 PM
Toluene	ND	0.049		mg/Kg	1	12/10/2020 4:58:40 PM
Ethylbenzene	ND	0.049		mg/Kg	1	12/10/2020 4:58:40 PM
Xylenes, Total	ND	0.098		mg/Kg	1	12/10/2020 4:58:40 PM
Surr: 4-Bromofluorobenzene	88.4	80-120		%Rec	1	12/10/2020 4:58:40 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>CAS</b>
Chloride	62	60		mg/Kg	20	12/10/2020 3:53:16 PM

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

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

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## Analytical Report

Lab Order 2012297

Date Reported: 12/16/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S-4 0"-6"

Project: Vega 29 Fed 4H

Collection Date: 12/3/2020

Lab ID: 2012297-013

Matrix: SOIL

Received Date: 12/5/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	390	9.4		mg/Kg	1	12/9/2020 7:50:07 AM
Motor Oil Range Organics (MRO)	400	47		mg/Kg	1	12/9/2020 7:50:07 AM
Surr: DNOP	142	30.4-154		%Rec	1	12/9/2020 7:50:07 AM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/10/2020 5:22:07 PM
Surr: BFB	89.2	75.3-105		%Rec	1	12/10/2020 5:22:07 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>RAA</b>
Benzene	ND	0.025		mg/Kg	1	12/10/2020 5:22:07 PM
Toluene	ND	0.050		mg/Kg	1	12/10/2020 5:22:07 PM
Ethylbenzene	ND	0.050		mg/Kg	1	12/10/2020 5:22:07 PM
Xylenes, Total	ND	0.099		mg/Kg	1	12/10/2020 5:22:07 PM
Surr: 4-Bromofluorobenzene	87.9	80-120		%Rec	1	12/10/2020 5:22:07 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>VP</b>
Chloride	6000	300		mg/Kg	100	12/11/2020 1:04:46 PM

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

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

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## Analytical Report

Lab Order 2012297

Date Reported: 12/16/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S-4 1'

Project: Vega 29 Fed 4H

Collection Date: 12/3/2020

Lab ID: 2012297-014

Matrix: SOIL

Received Date: 12/5/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	16	9.4		mg/Kg	1	12/9/2020 7:59:34 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	12/9/2020 7:59:34 AM
Surr: DNOP	128	30.4-154		%Rec	1	12/9/2020 7:59:34 AM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/10/2020 5:45:31 PM
Surr: BFB	91.6	75.3-105		%Rec	1	12/10/2020 5:45:31 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>RAA</b>
Benzene	ND	0.025		mg/Kg	1	12/10/2020 5:45:31 PM
Toluene	ND	0.049		mg/Kg	1	12/10/2020 5:45:31 PM
Ethylbenzene	ND	0.049		mg/Kg	1	12/10/2020 5:45:31 PM
Xylenes, Total	ND	0.099		mg/Kg	1	12/10/2020 5:45:31 PM
Surr: 4-Bromofluorobenzene	90.4	80-120		%Rec	1	12/10/2020 5:45:31 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>CAS</b>
Chloride	1100	59		mg/Kg	20	12/10/2020 4:18:05 PM

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

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

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## Analytical Report

Lab Order 2012297

Date Reported: 12/16/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S-4 2'

Project: Vega 29 Fed 4H

Collection Date: 12/3/2020

Lab ID: 2012297-015

Matrix: SOIL

Received Date: 12/5/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	12/9/2020 8:08:58 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	12/9/2020 8:08:58 AM
Surr: DNOP	114	30.4-154		%Rec	1	12/9/2020 8:08:58 AM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	12/10/2020 6:08:52 PM
Surr: BFB	88.6	75.3-105		%Rec	1	12/10/2020 6:08:52 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>RAA</b>
Benzene	ND	0.023		mg/Kg	1	12/10/2020 6:08:52 PM
Toluene	ND	0.047		mg/Kg	1	12/10/2020 6:08:52 PM
Ethylbenzene	ND	0.047		mg/Kg	1	12/10/2020 6:08:52 PM
Xylenes, Total	ND	0.094		mg/Kg	1	12/10/2020 6:08:52 PM
Surr: 4-Bromofluorobenzene	87.5	80-120		%Rec	1	12/10/2020 6:08:52 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>CAS</b>
Chloride	1400	60		mg/Kg	20	12/10/2020 4:30:29 PM

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

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



## Analytical Report

Lab Order 2012297

Date Reported: 12/16/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S-4 3'

Project: Vega 29 Fed 4H

Collection Date: 12/3/2020

Lab ID: 2012297-016

Matrix: SOIL

Received Date: 12/5/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	12/9/2020 8:18:25 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	12/9/2020 8:18:25 AM
Surr: DNOP	111	30.4-154		%Rec	1	12/9/2020 8:18:25 AM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/10/2020 6:32:14 PM
Surr: BFB	89.5	75.3-105		%Rec	1	12/10/2020 6:32:14 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>RAA</b>
Benzene	ND	0.024		mg/Kg	1	12/10/2020 6:32:14 PM
Toluene	ND	0.048		mg/Kg	1	12/10/2020 6:32:14 PM
Ethylbenzene	ND	0.048		mg/Kg	1	12/10/2020 6:32:14 PM
Xylenes, Total	ND	0.095		mg/Kg	1	12/10/2020 6:32:14 PM
Surr: 4-Bromofluorobenzene	88.1	80-120		%Rec	1	12/10/2020 6:32:14 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>CAS</b>
Chloride	1700	59		mg/Kg	20	12/10/2020 4:42:54 PM

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

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

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## Analytical Report

Lab Order 2012297

Date Reported: 12/16/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S-5 0"-6"

Project: Vega 29 Fed 4H

Collection Date: 12/3/2020

Lab ID: 2012297-017

Matrix: SOIL

Received Date: 12/5/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	3100	95		mg/Kg	10	12/9/2020 8:27:53 AM
Motor Oil Range Organics (MRO)	3800	480		mg/Kg	10	12/9/2020 8:27:53 AM
Surr: DNOP	0	30.4-154	S	%Rec	10	12/9/2020 8:27:53 AM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	ND	25	D	mg/Kg	5	12/10/2020 7:18:56 PM
Surr: BFB	89.4	75.3-105	D	%Rec	5	12/10/2020 7:18:56 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>RAA</b>
Benzene	ND	0.12	D	mg/Kg	5	12/10/2020 7:18:56 PM
Toluene	ND	0.25	D	mg/Kg	5	12/10/2020 7:18:56 PM
Ethylbenzene	ND	0.25	D	mg/Kg	5	12/10/2020 7:18:56 PM
Xylenes, Total	ND	0.49	D	mg/Kg	5	12/10/2020 7:18:56 PM
Surr: 4-Bromofluorobenzene	88.4	80-120	D	%Rec	5	12/10/2020 7:18:56 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>CAS</b>
Chloride	1100	61		mg/Kg	20	12/10/2020 4:55:18 PM

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

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

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## Analytical Report

Lab Order 2012297

Date Reported: 12/16/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S-5 1'

Project: Vega 29 Fed 4H

Collection Date: 12/3/2020

Lab ID: 2012297-018

Matrix: SOIL

Received Date: 12/5/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	330	9.8		mg/Kg	1	12/9/2020 8:37:24 AM
Motor Oil Range Organics (MRO)	370	49		mg/Kg	1	12/9/2020 8:37:24 AM
Surr: DNOP	143	30.4-154		%Rec	1	12/9/2020 8:37:24 AM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/10/2020 8:05:40 PM
Surr: BFB	88.8	75.3-105		%Rec	1	12/10/2020 8:05:40 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>RAA</b>
Benzene	ND	0.024		mg/Kg	1	12/10/2020 8:05:40 PM
Toluene	ND	0.048		mg/Kg	1	12/10/2020 8:05:40 PM
Ethylbenzene	ND	0.048		mg/Kg	1	12/10/2020 8:05:40 PM
Xylenes, Total	ND	0.096		mg/Kg	1	12/10/2020 8:05:40 PM
Surr: 4-Bromofluorobenzene	87.7	80-120		%Rec	1	12/10/2020 8:05:40 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>CAS</b>
Chloride	490	60		mg/Kg	20	12/10/2020 5:32:32 PM

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

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

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## Analytical Report

Lab Order 2012297

Date Reported: 12/16/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S-5 2'

Project: Vega 29 Fed 4H

Collection Date: 12/3/2020

Lab ID: 2012297-019

Matrix: SOIL

Received Date: 12/5/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	25	9.5		mg/Kg	1	12/9/2020 8:47:08 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	12/9/2020 8:47:08 AM
Surr: DNOP	109	30.4-154		%Rec	1	12/9/2020 8:47:08 AM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/10/2020 8:28:57 PM
Surr: BFB	88.6	75.3-105		%Rec	1	12/10/2020 8:28:57 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>RAA</b>
Benzene	ND	0.025		mg/Kg	1	12/10/2020 8:28:57 PM
Toluene	ND	0.049		mg/Kg	1	12/10/2020 8:28:57 PM
Ethylbenzene	ND	0.049		mg/Kg	1	12/10/2020 8:28:57 PM
Xylenes, Total	ND	0.098		mg/Kg	1	12/10/2020 8:28:57 PM
Surr: 4-Bromofluorobenzene	88.2	80-120		%Rec	1	12/10/2020 8:28:57 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>CAS</b>
Chloride	280	59		mg/Kg	20	12/10/2020 6:09:45 PM

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

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

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## Analytical Report

Lab Order 2012297

Date Reported: 12/16/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S-5 3'

Project: Vega 29 Fed 4H

Collection Date: 12/3/2020

Lab ID: 2012297-020

Matrix: SOIL

Received Date: 12/5/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	24	9.5		mg/Kg	1	12/9/2020 8:56:44 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	12/9/2020 8:56:44 AM
Surr: DNOP	118	30.4-154		%Rec	1	12/9/2020 8:56:44 AM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	12/10/2020 8:52:16 PM
Surr: BFB	87.4	75.3-105		%Rec	1	12/10/2020 8:52:16 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>RAA</b>
Benzene	ND	0.023		mg/Kg	1	12/10/2020 8:52:16 PM
Toluene	ND	0.047		mg/Kg	1	12/10/2020 8:52:16 PM
Ethylbenzene	ND	0.047		mg/Kg	1	12/10/2020 8:52:16 PM
Xylenes, Total	ND	0.094		mg/Kg	1	12/10/2020 8:52:16 PM
Surr: 4-Bromofluorobenzene	87.7	80-120		%Rec	1	12/10/2020 8:52:16 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>CAS</b>
Chloride	550	60		mg/Kg	20	12/10/2020 6:22:10 PM

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

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

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## Analytical Report

Lab Order 2012297

Date Reported: 12/16/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S-6 0"-6"

Project: Vega 29 Fed 4H

Collection Date: 12/3/2020

Lab ID: 2012297-021

Matrix: SOIL

Received Date: 12/5/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	12/9/2020 9:06:13 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	12/9/2020 9:06:13 AM
Surr: DNOP	102	30.4-154		%Rec	1	12/9/2020 9:06:13 AM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/10/2020 10:02:09 PM
Surr: BFB	88.7	75.3-105		%Rec	1	12/10/2020 10:02:09 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>RAA</b>
Benzene	ND	0.024		mg/Kg	1	12/10/2020 10:02:09 PM
Toluene	ND	0.049		mg/Kg	1	12/10/2020 10:02:09 PM
Ethylbenzene	ND	0.049		mg/Kg	1	12/10/2020 10:02:09 PM
Xylenes, Total	ND	0.098		mg/Kg	1	12/10/2020 10:02:09 PM
Surr: 4-Bromofluorobenzene	89.1	80-120		%Rec	1	12/10/2020 10:02:09 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>VP</b>
Chloride	5000	300		mg/Kg	100	12/11/2020 1:17:11 PM

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

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

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## Analytical Report

Lab Order 2012297

Date Reported: 12/16/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S-6 1'

Project: Vega 29 Fed 4H

Collection Date: 12/3/2020

Lab ID: 2012297-022

Matrix: SOIL

Received Date: 12/5/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	12/9/2020 9:15:48 AM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	12/9/2020 9:15:48 AM
Surr: DNOP	121	30.4-154		%Rec	1	12/9/2020 9:15:48 AM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/10/2020 10:25:29 PM
Surr: BFB	87.6	75.3-105		%Rec	1	12/10/2020 10:25:29 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>RAA</b>
Benzene	ND	0.025		mg/Kg	1	12/10/2020 10:25:29 PM
Toluene	ND	0.049		mg/Kg	1	12/10/2020 10:25:29 PM
Ethylbenzene	ND	0.049		mg/Kg	1	12/10/2020 10:25:29 PM
Xylenes, Total	ND	0.098		mg/Kg	1	12/10/2020 10:25:29 PM
Surr: 4-Bromofluorobenzene	87.0	80-120		%Rec	1	12/10/2020 10:25:29 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>CAS</b>
Chloride	370	60		mg/Kg	20	12/10/2020 6:46:59 PM

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

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

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## Analytical Report

Lab Order 2012297

Date Reported: 12/16/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S-6 2'

Project: Vega 29 Fed 4H

Collection Date: 12/3/2020

Lab ID: 2012297-023

Matrix: SOIL

Received Date: 12/5/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	12/9/2020 11:30:05 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	12/9/2020 11:30:05 AM
Surr: DNOP	119	30.4-154		%Rec	1	12/9/2020 11:30:05 AM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/9/2020 7:19:24 PM
Surr: BFB	99.6	75.3-105		%Rec	1	12/9/2020 7:19:24 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>RAA</b>
Benzene	ND	0.025		mg/Kg	1	12/9/2020 7:19:24 PM
Toluene	ND	0.049		mg/Kg	1	12/9/2020 7:19:24 PM
Ethylbenzene	ND	0.049		mg/Kg	1	12/9/2020 7:19:24 PM
Xylenes, Total	ND	0.099		mg/Kg	1	12/9/2020 7:19:24 PM
Surr: 4-Bromofluorobenzene	102	80-120		%Rec	1	12/9/2020 7:19:24 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>CAS</b>
Chloride	190	60		mg/Kg	20	12/10/2020 6:59:23 PM

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

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

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## Analytical Report

Lab Order 2012297

Date Reported: 12/16/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S-6 3'

Project: Vega 29 Fed 4H

Collection Date: 12/3/2020

Lab ID: 2012297-024

Matrix: SOIL

Received Date: 12/5/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	12/9/2020 11:39:33 AM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	12/9/2020 11:39:33 AM
Surr: DNOP	135	30.4-154		%Rec	1	12/9/2020 11:39:33 AM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	12/9/2020 8:29:36 PM
Surr: BFB	100	75.3-105		%Rec	1	12/9/2020 8:29:36 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>RAA</b>
Benzene	ND	0.024		mg/Kg	1	12/9/2020 8:29:36 PM
Toluene	ND	0.047		mg/Kg	1	12/9/2020 8:29:36 PM
Ethylbenzene	ND	0.047		mg/Kg	1	12/9/2020 8:29:36 PM
Xylenes, Total	ND	0.095		mg/Kg	1	12/9/2020 8:29:36 PM
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	1	12/9/2020 8:29:36 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>CAS</b>
Chloride	100	59		mg/Kg	20	12/10/2020 7:11:47 PM

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

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

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## Analytical Report

Lab Order 2012297

Date Reported: 12/16/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S-7 0"-6"

Project: Vega 29 Fed 4H

Collection Date: 12/3/2020

Lab ID: 2012297-025

Matrix: SOIL

Received Date: 12/5/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	12/9/2020 11:49:03 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	12/9/2020 11:49:03 AM
Surr: DNOP	106	30.4-154		%Rec	1	12/9/2020 11:49:03 AM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/9/2020 8:52:59 PM
Surr: BFB	99.9	75.3-105		%Rec	1	12/9/2020 8:52:59 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>RAA</b>
Benzene	ND	0.024		mg/Kg	1	12/9/2020 8:52:59 PM
Toluene	ND	0.049		mg/Kg	1	12/9/2020 8:52:59 PM
Ethylbenzene	ND	0.049		mg/Kg	1	12/9/2020 8:52:59 PM
Xylenes, Total	ND	0.098		mg/Kg	1	12/9/2020 8:52:59 PM
Surr: 4-Bromofluorobenzene	100	80-120		%Rec	1	12/9/2020 8:52:59 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>CAS</b>
Chloride	550	60		mg/Kg	20	12/10/2020 7:24:12 PM

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

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

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## Analytical Report

Lab Order 2012297

Date Reported: 12/16/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S-7 1'

Project: Vega 29 Fed 4H

Collection Date: 12/3/2020

Lab ID: 2012297-026

Matrix: SOIL

Received Date: 12/5/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	8.9		mg/Kg	1	12/9/2020 11:58:33 AM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	12/9/2020 11:58:33 AM
Surr: DNOP	114	30.4-154		%Rec	1	12/9/2020 11:58:33 AM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/9/2020 9:16:19 PM
Surr: BFB	98.7	75.3-105		%Rec	1	12/9/2020 9:16:19 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>RAA</b>
Benzene	ND	0.024		mg/Kg	1	12/9/2020 9:16:19 PM
Toluene	ND	0.049		mg/Kg	1	12/9/2020 9:16:19 PM
Ethylbenzene	ND	0.049		mg/Kg	1	12/9/2020 9:16:19 PM
Xylenes, Total	ND	0.097		mg/Kg	1	12/9/2020 9:16:19 PM
Surr: 4-Bromofluorobenzene	99.0	80-120		%Rec	1	12/9/2020 9:16:19 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>CAS</b>
Chloride	120	61		mg/Kg	20	12/10/2020 7:36:36 PM

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

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

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## Analytical Report

Lab Order 2012297

Date Reported: 12/16/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S-7 2'

Project: Vega 29 Fed 4H

Collection Date: 12/3/2020

Lab ID: 2012297-027

Matrix: SOIL

Received Date: 12/5/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	8.8		mg/Kg	1	12/9/2020 12:08:05 PM
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	12/9/2020 12:08:05 PM
Surr: DNOP	128	30.4-154		%Rec	1	12/9/2020 12:08:05 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/9/2020 9:39:38 PM
Surr: BFB	98.8	75.3-105		%Rec	1	12/9/2020 9:39:38 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>RAA</b>
Benzene	ND	0.024		mg/Kg	1	12/9/2020 9:39:38 PM
Toluene	ND	0.048		mg/Kg	1	12/9/2020 9:39:38 PM
Ethylbenzene	ND	0.048		mg/Kg	1	12/9/2020 9:39:38 PM
Xylenes, Total	ND	0.096		mg/Kg	1	12/9/2020 9:39:38 PM
Surr: 4-Bromofluorobenzene	99.5	80-120		%Rec	1	12/9/2020 9:39:38 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>CAS</b>
Chloride	ND	61		mg/Kg	20	12/10/2020 7:49:01 PM

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

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

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## Analytical Report

Lab Order 2012297

Date Reported: 12/16/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S-7 3'

Project: Vega 29 Fed 4H

Collection Date: 12/3/2020

Lab ID: 2012297-028

Matrix: SOIL

Received Date: 12/5/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	12/9/2020 12:17:38 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/9/2020 12:17:38 PM
Surr: DNOP	118	30.4-154		%Rec	1	12/9/2020 12:17:38 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/9/2020 10:02:51 PM
Surr: BFB	98.6	75.3-105		%Rec	1	12/9/2020 10:02:51 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>RAA</b>
Benzene	ND	0.024		mg/Kg	1	12/9/2020 10:02:51 PM
Toluene	ND	0.049		mg/Kg	1	12/9/2020 10:02:51 PM
Ethylbenzene	ND	0.049		mg/Kg	1	12/9/2020 10:02:51 PM
Xylenes, Total	ND	0.098		mg/Kg	1	12/9/2020 10:02:51 PM
Surr: 4-Bromofluorobenzene	100	80-120		%Rec	1	12/9/2020 10:02:51 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>CAS</b>
Chloride	ND	60		mg/Kg	20	12/10/2020 8:01:25 PM

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

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

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## Analytical Report

Lab Order 2012297

Date Reported: 12/16/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S-8 0"-6"

Project: Vega 29 Fed 4H

Collection Date: 12/3/2020

Lab ID: 2012297-029

Matrix: SOIL

Received Date: 12/5/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	12/9/2020 12:27:12 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	12/9/2020 12:27:12 PM
Surr: DNOP	92.0	30.4-154		%Rec	1	12/9/2020 12:27:12 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/9/2020 11:12:36 PM
Surr: BFB	94.4	75.3-105		%Rec	1	12/9/2020 11:12:36 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>RAA</b>
Benzene	ND	0.024		mg/Kg	1	12/9/2020 11:12:36 PM
Toluene	ND	0.049		mg/Kg	1	12/9/2020 11:12:36 PM
Ethylbenzene	ND	0.049		mg/Kg	1	12/9/2020 11:12:36 PM
Xylenes, Total	ND	0.098		mg/Kg	1	12/9/2020 11:12:36 PM
Surr: 4-Bromofluorobenzene	95.8	80-120		%Rec	1	12/9/2020 11:12:36 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>CAS</b>
Chloride	290	61		mg/Kg	20	12/10/2020 8:38:38 PM

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

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

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## Analytical Report

Lab Order 2012297

Date Reported: 12/16/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S-8 1'

Project: Vega 29 Fed 4H

Collection Date: 12/3/2020

Lab ID: 2012297-030

Matrix: SOIL

Received Date: 12/5/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	8.8		mg/Kg	1	12/9/2020 12:36:48 PM
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	12/9/2020 12:36:48 PM
Surr: DNOP	115	30.4-154		%Rec	1	12/9/2020 12:36:48 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/9/2020 11:35:49 PM
Surr: BFB	93.1	75.3-105		%Rec	1	12/9/2020 11:35:49 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>RAA</b>
Benzene	ND	0.024		mg/Kg	1	12/9/2020 11:35:49 PM
Toluene	ND	0.048		mg/Kg	1	12/9/2020 11:35:49 PM
Ethylbenzene	ND	0.048		mg/Kg	1	12/9/2020 11:35:49 PM
Xylenes, Total	ND	0.096		mg/Kg	1	12/9/2020 11:35:49 PM
Surr: 4-Bromofluorobenzene	94.4	80-120		%Rec	1	12/9/2020 11:35:49 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>CAS</b>
Chloride	ND	61		mg/Kg	20	12/10/2020 8:51:03 PM

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

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

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## Analytical Report

Lab Order 2012297

Date Reported: 12/16/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S-8 2'

Project: Vega 29 Fed 4H

Collection Date: 12/3/2020

Lab ID: 2012297-031

Matrix: SOIL

Received Date: 12/5/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	12/9/2020 12:46:25 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	12/9/2020 12:46:25 PM
Surr: DNOP	178	30.4-154	S	%Rec	1	12/9/2020 12:46:25 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	12/9/2020 11:58:57 PM
Surr: BFB	91.9	75.3-105		%Rec	1	12/9/2020 11:58:57 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>RAA</b>
Benzene	ND	0.023		mg/Kg	1	12/9/2020 11:58:57 PM
Toluene	ND	0.046		mg/Kg	1	12/9/2020 11:58:57 PM
Ethylbenzene	ND	0.046		mg/Kg	1	12/9/2020 11:58:57 PM
Xylenes, Total	ND	0.093		mg/Kg	1	12/9/2020 11:58:57 PM
Surr: 4-Bromofluorobenzene	93.3	80-120		%Rec	1	12/9/2020 11:58:57 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>CAS</b>
Chloride	ND	60		mg/Kg	20	12/10/2020 9:03:28 PM

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

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

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## Analytical Report

Lab Order 2012297

Date Reported: 12/16/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S-8 3'

Project: Vega 29 Fed 4H

Collection Date: 12/3/2020

Lab ID: 2012297-032

Matrix: SOIL

Received Date: 12/5/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	12/9/2020 12:56:03 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	12/9/2020 12:56:03 PM
Surr: DNOP	110	30.4-154		%Rec	1	12/9/2020 12:56:03 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/10/2020 12:22:05 AM
Surr: BFB	91.7	75.3-105		%Rec	1	12/10/2020 12:22:05 AM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>RAA</b>
Benzene	ND	0.025		mg/Kg	1	12/10/2020 12:22:05 AM
Toluene	ND	0.049		mg/Kg	1	12/10/2020 12:22:05 AM
Ethylbenzene	ND	0.049		mg/Kg	1	12/10/2020 12:22:05 AM
Xylenes, Total	ND	0.098		mg/Kg	1	12/10/2020 12:22:05 AM
Surr: 4-Bromofluorobenzene	92.5	80-120		%Rec	1	12/10/2020 12:22:05 AM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>CAS</b>
Chloride	ND	60		mg/Kg	20	12/10/2020 9:15:52 PM

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

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

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## Analytical Report

Lab Order 2012297

Date Reported: 12/16/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: Bg-1

Project: Vega 29 Fed 4H

Collection Date: 12/3/2020

Lab ID: 2012297-033

Matrix: SOIL

Received Date: 12/5/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	12/9/2020 1:05:42 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	12/9/2020 1:05:42 PM
Surr: DNOP	71.0	30.4-154		%Rec	1	12/9/2020 1:05:42 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/10/2020 12:45:14 AM
Surr: BFB	90.7	75.3-105		%Rec	1	12/10/2020 12:45:14 AM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>RAA</b>
Benzene	ND	0.025		mg/Kg	1	12/10/2020 12:45:14 AM
Toluene	ND	0.049		mg/Kg	1	12/10/2020 12:45:14 AM
Ethylbenzene	ND	0.049		mg/Kg	1	12/10/2020 12:45:14 AM
Xylenes, Total	ND	0.099		mg/Kg	1	12/10/2020 12:45:14 AM
Surr: 4-Bromofluorobenzene	91.7	80-120		%Rec	1	12/10/2020 12:45:14 AM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>CAS</b>
Chloride	900	60		mg/Kg	20	12/10/2020 9:28:16 PM

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

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

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## Analytical Report

Lab Order 2012297

Date Reported: 12/16/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: Bg-2

Project: Vega 29 Fed 4H

Collection Date: 12/3/2020

Lab ID: 2012297-034

Matrix: SOIL

Received Date: 12/5/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	12/9/2020 1:15:21 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	12/9/2020 1:15:21 PM
Surr: DNOP	97.6	30.4-154		%Rec	1	12/9/2020 1:15:21 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/10/2020 1:08:23 AM
Surr: BFB	90.7	75.3-105		%Rec	1	12/10/2020 1:08:23 AM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>RAA</b>
Benzene	ND	0.025		mg/Kg	1	12/10/2020 1:08:23 AM
Toluene	ND	0.049		mg/Kg	1	12/10/2020 1:08:23 AM
Ethylbenzene	ND	0.049		mg/Kg	1	12/10/2020 1:08:23 AM
Xylenes, Total	ND	0.098		mg/Kg	1	12/10/2020 1:08:23 AM
Surr: 4-Bromofluorobenzene	91.4	80-120		%Rec	1	12/10/2020 1:08:23 AM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>CAS</b>
Chloride	150	60		mg/Kg	20	12/10/2020 9:40:41 PM

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

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

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## Analytical Report

Lab Order 2012297

Date Reported: 12/16/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: Bg-3

Project: Vega 29 Fed 4H

Collection Date: 12/3/2020

Lab ID: 2012297-035

Matrix: SOIL

Received Date: 12/5/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.0		mg/Kg	1	12/9/2020 1:25:02 PM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	12/9/2020 1:25:02 PM
Surr: DNOP	102	30.4-154		%Rec	1	12/9/2020 1:25:02 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/10/2020 1:31:27 AM
Surr: BFB	91.5	75.3-105		%Rec	1	12/10/2020 1:31:27 AM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>RAA</b>
Benzene	ND	0.025		mg/Kg	1	12/10/2020 1:31:27 AM
Toluene	ND	0.050		mg/Kg	1	12/10/2020 1:31:27 AM
Ethylbenzene	ND	0.050		mg/Kg	1	12/10/2020 1:31:27 AM
Xylenes, Total	ND	0.10		mg/Kg	1	12/10/2020 1:31:27 AM
Surr: 4-Bromofluorobenzene	92.3	80-120		%Rec	1	12/10/2020 1:31:27 AM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>CAS</b>
Chloride	1600	60		mg/Kg	20	12/10/2020 9:53:05 PM

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

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

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## Analytical Report

Lab Order 2012297

Date Reported: 12/16/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: Bg-4

Project: Vega 29 Fed 4H

Collection Date: 12/3/2020

Lab ID: 2012297-036

Matrix: SOIL

Received Date: 12/5/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	12/9/2020 1:34:53 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	12/9/2020 1:34:53 PM
Surr: DNOP	83.1	30.4-154		%Rec	1	12/9/2020 1:34:53 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/10/2020 1:54:34 AM
Surr: BFB	89.0	75.3-105		%Rec	1	12/10/2020 1:54:34 AM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>RAA</b>
Benzene	ND	0.024		mg/Kg	1	12/10/2020 1:54:34 AM
Toluene	ND	0.048		mg/Kg	1	12/10/2020 1:54:34 AM
Ethylbenzene	ND	0.048		mg/Kg	1	12/10/2020 1:54:34 AM
Xylenes, Total	ND	0.095		mg/Kg	1	12/10/2020 1:54:34 AM
Surr: 4-Bromofluorobenzene	90.8	80-120		%Rec	1	12/10/2020 1:54:34 AM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>CAS</b>
Chloride	660	60		mg/Kg	20	12/10/2020 10:05:30 PM

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

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

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**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**

WO#: 2012297

16-Dec-20

**Client:** Pima Environmental Services LLC**Project:** Vega 29 Fed 4H

Sample ID: <b>MB-56905</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>56905</b>	RunNo: <b>73955</b>								
Prep Date: <b>12/10/2020</b>	Analysis Date: <b>12/10/2020</b>	SeqNo: <b>2608164</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-56905</b>	SampType: <b>lcs</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>56905</b>	RunNo: <b>73955</b>								
Prep Date: <b>12/10/2020</b>	Analysis Date: <b>12/10/2020</b>	SeqNo: <b>2608165</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.5	90	110			

Sample ID: <b>MB-56914</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>56914</b>	RunNo: <b>73955</b>								
Prep Date: <b>12/10/2020</b>	Analysis Date: <b>12/10/2020</b>	SeqNo: <b>2608194</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-56914</b>	SampType: <b>lcs</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>56914</b>	RunNo: <b>73955</b>								
Prep Date: <b>12/10/2020</b>	Analysis Date: <b>12/10/2020</b>	SeqNo: <b>2608195</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.0	90	110			

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Limit

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**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**

WO#: 2012297

16-Dec-20

**Client:** Pima Environmental Services LLC**Project:** Vega 29 Fed 4H

Sample ID: <b>LCS-56825</b>	SampType: <b>LCS</b>			TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>56825</b>			RunNo: <b>73877</b>						
Prep Date: <b>12/7/2020</b>	Analysis Date: <b>12/9/2020</b>			SeqNo: <b>2605174</b>		Units: <b>mg/Kg</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	10	50.00	0	92.0	70	130			
Surr: DNOP	5.4		5.000		108	30.4	154			

Sample ID: <b>LCS-56827</b>	SampType: <b>LCS</b>			TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>56827</b>			RunNo: <b>73877</b>						
Prep Date: <b>12/7/2020</b>	Analysis Date: <b>12/9/2020</b>			SeqNo: <b>2605175</b>		Units: <b>mg/Kg</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	51	10	50.00	0	102	70	130			
Surr: DNOP	5.7		5.000		115	30.4	154			

Sample ID: <b>MB-56825</b>	SampType: <b>MBLK</b>			TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>						
Client ID: <b>PBS</b>	Batch ID: <b>56825</b>			RunNo: <b>73877</b>						
Prep Date: <b>12/7/2020</b>	Analysis Date: <b>12/9/2020</b>			SeqNo: <b>2605180</b>		Units: <b>mg/Kg</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10		10.00		104	30.4	154			

Sample ID: <b>MB-56827</b>	SampType: <b>MBLK</b>			TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>						
Client ID: <b>PBS</b>	Batch ID: <b>56827</b>			RunNo: <b>73877</b>						
Prep Date: <b>12/7/2020</b>	Analysis Date: <b>12/9/2020</b>			SeqNo: <b>2605181</b>		Units: <b>mg/Kg</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	11		10.00		113	30.4	154			

Sample ID: <b>LCS-56852</b>	SampType: <b>LCS</b>			TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>56852</b>			RunNo: <b>73877</b>						
Prep Date: <b>12/8/2020</b>	Analysis Date: <b>12/9/2020</b>			SeqNo: <b>2605463</b>		Units: <b>mg/Kg</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	51	10	50.00	0	102	70	130			
Surr: DNOP	5.7		5.000		114	30.4	154			

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
 D Sample Diluted Due to Matrix  
 H Holding times for preparation or analysis exceeded  
 ND Not Detected at the Reporting Limit  
 PQL Practical Quantitative Limit  
 S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 P Sample pH Not In Range  
 RL Reporting Limit

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2012297

16-Dec-20

Client: Pima Environmental Services LLC

Project: Vega 29 Fed 4H

Sample ID: MB-56852	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 56852	RunNo: 73877								
Prep Date: 12/8/2020	Analysis Date: 12/9/2020	SeqNo: 2605464	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	11		10.00		109	30.4	154			

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit



**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**

WO#: 2012297

16-Dec-20

**Client:** Pima Environmental Services LLC**Project:** Vega 29 Fed 4H

Sample ID: <b>ics-56849</b>	SampType: <b>LCS</b>			TestCode: <b>EPA Method 8015D: Gasoline Range</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>56849</b>			RunNo: <b>73910</b>						
Prep Date: <b>12/7/2020</b>	Analysis Date: <b>12/9/2020</b>			SeqNo: <b>2606554</b>		Units: <b>mg/Kg</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	103	72.5	106			
Surr: BFB	1200		1000		117	75.3	105			S

Sample ID: <b>mb-56849</b>	SampType: <b>MBLK</b>			TestCode: <b>EPA Method 8015D: Gasoline Range</b>						
Client ID: <b>PBS</b>	Batch ID: <b>56849</b>			RunNo: <b>73910</b>						
Prep Date: <b>12/7/2020</b>	Analysis Date: <b>12/9/2020</b>			SeqNo: <b>2606556</b>		Units: <b>mg/Kg</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		105	75.3	105			

Sample ID: <b>2012297-003ams</b>	SampType: <b>MS</b>			TestCode: <b>EPA Method 8015D: Gasoline Range</b>						
Client ID: <b>S-1 2'</b>	Batch ID: <b>56822</b>			RunNo: <b>73943</b>						
Prep Date: <b>12/7/2020</b>	Analysis Date: <b>12/10/2020</b>			SeqNo: <b>2607604</b>		Units: <b>mg/Kg</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	4.9	24.68	0	94.3	61.3	114			
Surr: BFB	970		987.2		98.6	75.3	105			

Sample ID: <b>2012297-003amsd</b>	SampType: <b>MSD</b>			TestCode: <b>EPA Method 8015D: Gasoline Range</b>						
Client ID: <b>S-1 2'</b>	Batch ID: <b>56822</b>			RunNo: <b>73943</b>						
Prep Date: <b>12/7/2020</b>	Analysis Date: <b>12/10/2020</b>			SeqNo: <b>2607606</b>		Units: <b>mg/Kg</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	4.9	24.27	0	96.8	61.3	114	0.931	20	
Surr: BFB	990		970.9		102	75.3	105	0	0	

Sample ID: <b>ics-56822</b>	SampType: <b>LCS</b>			TestCode: <b>EPA Method 8015D: Gasoline Range</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>56822</b>			RunNo: <b>73943</b>						
Prep Date: <b>12/7/2020</b>	Analysis Date: <b>12/10/2020</b>			SeqNo: <b>2607656</b>		Units: <b>mg/Kg</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	98.3	72.5	106			
Surr: BFB	1000		1000		102	75.3	105			

Sample ID: <b>mb-56822</b>	SampType: <b>MBLK</b>			TestCode: <b>EPA Method 8015D: Gasoline Range</b>						
Client ID: <b>PBS</b>	Batch ID: <b>56822</b>			RunNo: <b>73943</b>						
Prep Date: <b>12/7/2020</b>	Analysis Date: <b>12/10/2020</b>			SeqNo: <b>2607658</b>		Units: <b>mg/Kg</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Limit

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2012297

16-Dec-20

Client: Pima Environmental Services LLC

Project: Vega 29 Fed 4H

Sample ID: mb-56822	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 56822	RunNo: 73943								
Prep Date: 12/7/2020	Analysis Date: 12/10/2020	SeqNo: 2607658	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	880		1000		87.8	75.3	105			

Qualifiers:

- \*

Value exceeds Maximum Contaminant Level.
- D

Sample Diluted Due to Matrix
- H

Holding times for preparation or analysis exceeded
- ND

Not Detected at the Reporting Limit
- PQL

Practical Quantitative Limit
- S

% Recovery outside of range due to dilution or matrix
- B

Analyte detected in the associated Method Blank
- E

Value above quantitation range
- J

Analyte detected below quantitation limits
- P

Sample pH Not In Range
- RL

Reporting Limit

**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**

WO#: 2012297

16-Dec-20

**Client:** Pima Environmental Services LLC**Project:** Vega 29 Fed 4H

Sample ID: <b>lcs-56849</b>	SampType: <b>LCS</b>			TestCode: <b>EPA Method 8021B: Volatiles</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>56849</b>			RunNo: <b>73910</b>						
Prep Date: <b>12/7/2020</b>	Analysis Date: <b>12/9/2020</b>			SeqNo: <b>2606595</b>			Units: <b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.025	1.000	0	92.3	80	120			
Toluene	0.97	0.050	1.000	0	97.2	80	120			
Ethylbenzene	0.96	0.050	1.000	0	95.8	80	120			
Xylenes, Total	2.9	0.10	3.000	0	96.7	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		106	80	120			

Sample ID: <b>mb-56849</b>	SampType: <b>MBLK</b>			TestCode: <b>EPA Method 8021B: Volatiles</b>						
Client ID: <b>PBS</b>	Batch ID: <b>56849</b>			RunNo: <b>73910</b>						
Prep Date: <b>12/7/2020</b>	Analysis Date: <b>12/9/2020</b>			SeqNo: <b>2606596</b>			Units: <b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		105	80	120			

Sample ID: <b>2012297-023ams</b>	SampType: <b>MS</b>			TestCode: <b>EPA Method 8021B: Volatiles</b>						
Client ID: <b>S-6 2'</b>	Batch ID: <b>56849</b>			RunNo: <b>73910</b>						
Prep Date: <b>12/7/2020</b>	Analysis Date: <b>12/9/2020</b>			SeqNo: <b>2606605</b>			Units: <b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.025	0.9872	0	96.5	76.3	120			
Toluene	0.99	0.049	0.9872	0.01232	98.8	78.5	120			
Ethylbenzene	0.99	0.049	0.9872	0	100	78.1	124			
Xylenes, Total	2.9	0.099	2.962	0	99.6	79.3	125			
Surr: 4-Bromofluorobenzene	1.0		0.9872		102	80	120			

Sample ID: <b>2012297-023amsd</b>	SampType: <b>MSD</b>			TestCode: <b>EPA Method 8021B: Volatiles</b>						
Client ID: <b>S-6 2'</b>	Batch ID: <b>56849</b>			RunNo: <b>73910</b>						
Prep Date: <b>12/7/2020</b>	Analysis Date: <b>12/9/2020</b>			SeqNo: <b>2606606</b>			Units: <b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.024	0.9681	0	96.7	76.3	120	1.71	20	
Toluene	0.98	0.048	0.9681	0.01232	99.8	78.5	120	0.921	20	
Ethylbenzene	0.97	0.048	0.9681	0	101	78.1	124	1.67	20	
Xylenes, Total	2.9	0.097	2.904	0	101	79.3	125	0.430	20	
Surr: 4-Bromofluorobenzene	0.98		0.9681		102	80	120	0	0	

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Limit

**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**

WO#: 2012297

16-Dec-20

**Client:** Pima Environmental Services LLC**Project:** Vega 29 Fed 4H

Sample ID: <b>2012297-004ams</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>S-1 3'</b>	Batch ID: <b>56822</b>	RunNo: <b>73943</b>								
Prep Date: <b>12/7/2020</b>	Analysis Date: <b>12/10/2020</b>	SeqNo: <b>2607674</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.85	0.024	0.9551	0	89.2	76.3	120			
Toluene	0.88	0.048	0.9551	0.01135	90.9	78.5	120			
Ethylbenzene	0.90	0.048	0.9551	0	93.8	78.1	124			
Xylenes, Total	2.7	0.096	2.865	0	93.1	79.3	125			
Surr: 4-Bromofluorobenzene	0.85		0.9551		89.3	80	120			

Sample ID: <b>2012297-004amsd</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>S-1 3'</b>	Batch ID: <b>56822</b>	RunNo: <b>73943</b>								
Prep Date: <b>12/7/2020</b>	Analysis Date: <b>12/10/2020</b>	SeqNo: <b>2607675</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.85	0.023	0.9355	0	90.6	76.3	120	0.545	20	
Toluene	0.89	0.047	0.9355	0.01135	94.1	78.5	120	1.28	20	
Ethylbenzene	0.89	0.047	0.9355	0	94.8	78.1	124	0.934	20	
Xylenes, Total	2.7	0.094	2.806	0	94.6	79.3	125	0.442	20	
Surr: 4-Bromofluorobenzene	0.86		0.9355		92.1	80	120	0	0	

Sample ID: <b>LCS-56822</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>56822</b>	RunNo: <b>73943</b>								
Prep Date: <b>12/7/2020</b>	Analysis Date: <b>12/10/2020</b>	SeqNo: <b>2607705</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.025	1.000	0	94.6	80	120			
Toluene	0.98	0.050	1.000	0	98.3	80	120			
Ethylbenzene	0.97	0.050	1.000	0	97.3	80	120			
Xylenes, Total	2.9	0.10	3.000	0	96.9	80	120			
Surr: 4-Bromofluorobenzene	0.91		1.000		90.9	80	120			

Sample ID: <b>mb-56822</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>PBS</b>	Batch ID: <b>56822</b>	RunNo: <b>73943</b>								
Prep Date: <b>12/7/2020</b>	Analysis Date: <b>12/10/2020</b>	SeqNo: <b>2607707</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.89		1.000		89.0	80	120			

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Limit

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**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**

WO#: 2012297

16-Dec-20

**Client:** Pima Environmental Services LLC**Project:** Vega 29 Fed 4H

Sample ID: <b>mb-56817</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8260B: Volatiles Short List</b>								
Client ID: <b>PBS</b>	Batch ID: <b>56817</b>	RunNo: <b>73873</b>								
Prep Date: <b>12/6/2020</b>	Analysis Date: <b>12/7/2020</b>	SeqNo: <b>2604970</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 1,2-Dichloroethane-d4	0.52		0.5000		105	70	130			
Surr: 4-Bromofluorobenzene	0.50		0.5000		99.2	70	130			
Surr: Dibromofluoromethane	0.54		0.5000		108	70	130			
Surr: Toluene-d8	0.50		0.5000		99.7	70	130			

Sample ID: <b>lcs-56817</b>	SampType: <b>LCS4</b>	TestCode: <b>EPA Method 8260B: Volatiles Short List</b>								
Client ID: <b>BatchQC</b>	Batch ID: <b>56817</b>	RunNo: <b>73873</b>								
Prep Date: <b>12/6/2020</b>	Analysis Date: <b>12/7/2020</b>	SeqNo: <b>2604971</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	100	80	120			
Toluene	1.0	0.050	1.000	0	101	80	120			
Ethylbenzene	1.0	0.050	1.000	0	102	80	120			
Xylenes, Total	3.2	0.10	3.000	0	108	80	120			
Surr: 1,2-Dichloroethane-d4	0.52		0.5000		105	70	130			
Surr: 4-Bromofluorobenzene	0.48		0.5000		96.2	70	130			
Surr: Dibromofluoromethane	0.55		0.5000		110	70	130			
Surr: Toluene-d8	0.49		0.5000		98.3	70	130			

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Limit

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**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**

WO#: 2012297

16-Dec-20

**Client:** Pima Environmental Services LLC**Project:** Vega 29 Fed 4H

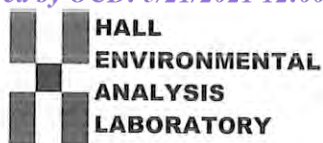
Sample ID: <b>mb-56817</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015D Mod: Gasoline Range</b>								
Client ID: <b>PBS</b>	Batch ID: <b>56817</b>	RunNo: <b>73873</b>								
Prep Date: <b>12/6/2020</b>	Analysis Date: <b>12/7/2020</b>	SeqNo: <b>2604995</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	500		500.0		101	70	130			

Sample ID: <b>lcs-56817</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015D Mod: Gasoline Range</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>56817</b>	RunNo: <b>73873</b>								
Prep Date: <b>12/6/2020</b>	Analysis Date: <b>12/7/2020</b>	SeqNo: <b>2604996</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	93.0	70	130			
Surr: BFB	510		500.0		102	70	130			

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Limit



Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: clients.hallenvironmental.com

## Sample Log-In Check List

Client Name: **Pima Environmental Services LLC**

Work Order Number: **2012297**

RcptNo: 1

Received By: **Cheyenne Cason** 12/5/2020 8:00:00 AM

Completed By: **Emily Mocho** 12/5/2020 9:54:25 AM

Reviewed By: *CM* 12/5/20

### Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Courier

### Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of  $>0^{\circ}\text{C}$  to  $6.0^{\circ}\text{C}$ ? Yes ☐ No ☒ NA ☐  
Not frozen
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. Received at least 1 vial with headspace  $<1/4$ " for AQ VOA? Yes ☐ No ☐ NA ☒
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels? Yes ☒ No ☐  
(Note discrepancies on chain of custody)
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met? Yes ☒ No ☐  
(If no, notify customer for authorization.)

# of preserved bottles checked for pH:

( $<2$  or  $>12$  unless noted)

Adjusted?

Checked by: *EM12/4*

12/5/20  
em 12/5/20

### Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:

Date:

By Whom:

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding:

Client Instructions:

16. Additional remarks:

### 17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	-0.1	Good	Yes			
2	0.7	Good	Yes			
3	1.4	Good	Yes			









Released to Imaging: 7/1/2021 1:53:50 PM

Turn-Around Time: 4 Days

Project Name: Vega 29 Fed #4H

Project #: 57

Project Manager:  
Chris Jones

☒ Standard ☐ Level 4 (Full Validation)

Sampler: Tristan Jones

On Ice: ☒ Yes ☐ No

# of Coolers: 3

Cooler Temp (including CF): *See front page* (°C)

Date	Time	Matrix	Sample Name	Cooler Temp (including CF): <i>See front page</i> (°C)			BTEX / MTE	TPH:8015D	8081 Pesticides	EDB (Metho)	PAHs by 834	RCRA 8 Met	Cl, F, Br, N	8260 (VOA)	8270 (Semi-VOC)	Total Coliform	Chlorides
				Container Type and #	Preservative Type	HEAL No.											
12/3		soil	S-7 0"-6"	glass	ice	013 025	✓	✓									✓
			S-7 1'			014 026											
			S-7 2'			015 027											
			S-7 3'			016 028											
			S-8 0"-6"			017 029											
			S-8 1'			018 030											
			S-8 2'			019 031											
			S-8 3'			020 032											
			Bg-1			021 033											
			Bg-2			022 034											
			Bg-3			023 035											
			Bg-4			024 036	✓	✓									✓
Date: 12/3	Time: 10:30	Relinquished by: <i>[Signature]</i>		Received by: <i>[Signature]</i> Via:		Date: 12/4/20	Time: 11:30	Remarks:									
Date: 12/4/20	Time: 1900	Relinquished by: <i>[Signature]</i>		Received by: <i>[Signature]</i> Via:		Date: 12/5/20	Time: 0800										

## HALL ENVIRONMENTAL ANALYSIS LABORATORY

[www.hallenvironmental.com](http://www.hallenvironmental.com)

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975      Fax 505-345-4107

## Analysis Request

✓	BTEX / MTBE / TMB's (8021)
✓	TPH:8015D(GRO / DRO / MRO)
	8081 Pesticides/8082 PCB's
	EDB (Method 504.1)
	PAHs by 8310 or 8270SIMS
	RCRA 8 Metals
	Cl, F, Br, NO <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub>
	8260 (VOA)
	8270 (Semi-VOA)
	Total Coliform (Present/Absent)
✓	chlorides

Remarks:

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.



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

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February 24, 2021

TOM BYNUM

PIMA ENVIROMENTAL

1601 N TURNER STE. 500

HOBBS, NM 88240

RE: VEGA 29 FED #4 H

Enclosed are the results of analyses for samples received by the laboratory on 02/23/21 15:00.

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](http://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".

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 02/23/2021  
Reported: 02/24/2021  
Project Name: VEGA 29 FED #4 H  
Project Number: 57  
Project Location: DEVON - EDDY CO NM

Sampling Date: 02/11/2021  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: S - 1 BOTTOM (H210437-01)**

TPH 8015M	mg/kg	Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/23/2021	ND	212	106	200	2.24	
DRO >C10-C28*	<10.0	10.0	02/23/2021	ND	221	110	200	2.52	
EXT DRO >C28-C36	<10.0	10.0	02/23/2021	ND					
<hr/>									
Surrogate: 1-Chlorooctane	112 %	44.3-144							
Surrogate: 1-Chlorooctadecane	119 %	42.2-156							

**Sample ID: S - 1 N - SIDE WALL (H210437-02)**

TPH 8015M	mg/kg	Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/23/2021	ND	212	106	200	2.24	
DRO >C10-C28*	<10.0	10.0	02/23/2021	ND	221	110	200	2.52	
EXT DRO >C28-C36	<10.0	10.0	02/23/2021	ND					
<hr/>									
Surrogate: 1-Chlorooctane	110 %	44.3-144							
Surrogate: 1-Chlorooctadecane	115 %	42.2-156							

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 02/23/2021  
Reported: 02/24/2021  
Project Name: VEGA 29 FED #4 H  
Project Number: 57  
Project Location: DEVON - EDDY CO NM

Sampling Date: 02/11/2021  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: S - 1 E - SIDE WALL (H210437-03)**

TPH 8015M	mg/kg	Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/23/2021	ND	212	106	200	2.24	
DRO >C10-C28*	<10.0	10.0	02/23/2021	ND	221	110	200	2.52	
EXT DRO >C28-C36	<10.0	10.0	02/23/2021	ND					
Surrogate: 1-Chlorooctane	110 %	44.3-144							
Surrogate: 1-Chlorooctadecane	116 %	42.2-156							

**Sample ID: S - 1 S - SIDE WALL (H210437-04)**

TPH 8015M	mg/kg	Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/23/2021	ND	212	106	200	2.24	
DRO >C10-C28*	<10.0	10.0	02/23/2021	ND	221	110	200	2.52	
EXT DRO >C28-C36	<10.0	10.0	02/23/2021	ND					
Surrogate: 1-Chlorooctane	141 %	44.3-144							
Surrogate: 1-Chlorooctadecane	147 %	42.2-156							

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 02/23/2021  
Reported: 02/24/2021  
Project Name: VEGA 29 FED #4 H  
Project Number: 57  
Project Location: DEVON - EDDY CO NM

Sampling Date: 02/11/2021  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: S - 1 W - SIDE WALL (H210437-05)**

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/24/2021	ND	212	106	200	2.24		
DRO >C10-C28*	<10.0	10.0	02/24/2021	ND	221	110	200	2.52		
EXT DRO >C28-C36	<10.0	10.0	02/24/2021	ND						
<hr/>										
Surrogate: 1-Chlorooctane	108 %	44.3-144								
Surrogate: 1-Chlorooctadecane	116 %	42.2-156								

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



---

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

---

### Notes and Definitions

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

---

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\*=Accredited Analyte

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

---

Celey D. Keene, Lab Director/Quality Manager



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

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

<b>Company Name:</b> Pima Environmental <b>Project Manager:</b> Tom Dyanum <b>Address:</b> 1601 N Turner ste. 500 <b>City:</b> Hobbs <b>State:</b> NM <b>Zip:</b> 88240 <b>Phone #:</b> 575-964-7740 <b>Fax #:</b> <b>Project #:</b> 57 <b>Project Owner:</b> Devon <b>Project Name:</b> Vega 29 Fed #4H <b>Project Location:</b> Eddy, NM <b>Sampler Name:</b> Tristan Jones				<b>BILL TO</b> <b>P.O. #:</b> <b>Company:</b> Devon <b>Attn:</b> <b>Address:</b> <b>City:</b> <b>State:</b> <b>Zip:</b> <b>Phone #:</b> <b>Fax #:</b>				<b>ANALYSIS REQUEST</b>																		
FOR LAB USE ONLY						MATRIX		PRESERV.		SAMPLING		TPH EXT														
Lab I.D.	Sample I.D.	(G/RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL													OTHER	DATE	TIME
H210437																										
1	S-1 Bottom	6																								
2	S-1 N-side wall	1																								
3	S-1 E-side wall																									
4	S-1 S-side wall																									
5	S-1 W-side wall																									

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. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 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 services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

<b>Relinquished By:</b> Date: 4/23/21 Time: 15:00 Received By: Jodi Benson		<b>Verbal Result:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <b>Add'l Phone #:</b> All Results are emailed. Please provide Email address:	
<b>Relinquished By:</b> Date: Time: Received By:		<b>REMARKS:</b>	
<b>Delivered By: (Circle One)</b> Sampler - UPS - Bus - Other:	<b>Observed Temp. °C</b> 4.2 <b>Corrected Temp. °C</b>	<b>Sample Condition</b> Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> No	<b>Turnaround Time:</b> Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/> <b>Thermometer ID #113</b> <b>Correction Factor</b> None
		<b>Bacteria (only) Sample Condition</b> Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No Observed Temp. °C Corrected Temp. °C	

FORM-005-R 3.1 06/04/20

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





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

---

April 30, 2021

TOM BYNUM

PIMA ENVIROMENTAL

1601 N TURNER STE. 500

HOBBS, NM 88240

RE: VEGA 29 FED #4 H

Enclosed are the results of analyses for samples received by the laboratory on 04/29/21 8:40.

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](http://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 with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 04/29/2021  
Reported: 04/30/2021  
Project Name: VEGA 29 FED #4 H  
Project Number: 1- 57  
Project Location: DEVON - EDDY CO NM

Sampling Date: 04/28/2021  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: S - 1 0-6" (H211103-01)**

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	04/29/2021	ND	2.04	102	2.00	10.1	
Toluene*	<0.050	0.050	04/29/2021	ND	1.97	98.7	2.00	10.8	
Ethylbenzene*	<0.050	0.050	04/29/2021	ND	1.93	96.4	2.00	10.3	
Total Xylenes*	<0.150	0.150	04/29/2021	ND	5.70	95.0	6.00	9.96	
Total BTEX	<0.300	0.300	04/29/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.4 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	04/30/2021	ND	400	100	400	0.00	

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	04/29/2021	ND	240	120	200	3.38	
DRO >C10-C28*	<10.0	10.0	04/29/2021	ND	220	110	200	7.31	
EXT DRO >C28-C36	<10.0	10.0	04/29/2021	ND					

Surrogate: 1-Chlorooctane 72.2 % 44.3-133

Surrogate: 1-Chlorooctadecane 70.9 % 38.9-142

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 04/29/2021  
Reported: 04/30/2021  
Project Name: VEGA 29 FED #4 H  
Project Number: 1- 57  
Project Location: DEVON - EDDY CO NM

Sampling Date: 04/28/2021  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: S - 1 2' (H211103-02)**

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	04/29/2021	ND	2.04	102	2.00	10.1		
Toluene*	<0.050	0.050	04/29/2021	ND	1.97	98.7	2.00	10.8		
Ethylbenzene*	<0.050	0.050	04/29/2021	ND	1.93	96.4	2.00	10.3		
Total Xylenes*	<0.150	0.150	04/29/2021	ND	5.70	95.0	6.00	9.96		
Total BTEx	<0.300	0.300	04/29/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.0 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	04/30/2021	ND	400	100	400	0.00	

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	04/29/2021	ND	240	120	200	3.38	
DRO >C10-C28*	<10.0	10.0	04/29/2021	ND	220	110	200	7.31	
EXT DRO >C28-C36	<10.0	10.0	04/29/2021	ND					

Surrogate: 1-Chlorooctane 67.8 % 44.3-133

Surrogate: 1-Chlorooctadecane 66.5 % 38.9-142

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 04/29/2021  
Reported: 04/30/2021  
Project Name: VEGA 29 FED #4 H  
Project Number: 1- 57  
Project Location: DEVON - EDDY CO NM

Sampling Date: 04/28/2021  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: S - 1 4' (H211103-03)**

BTX 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	04/29/2021	ND	2.04	102	2.00	10.1		
Toluene*	<0.050	0.050	04/29/2021	ND	1.97	98.7	2.00	10.8		
Ethylbenzene*	<0.050	0.050	04/29/2021	ND	1.93	96.4	2.00	10.3		
Total Xylenes*	<0.150	0.150	04/29/2021	ND	5.70	95.0	6.00	9.96		
Total BTX	<0.300	0.300	04/29/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.1 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	04/30/2021	ND	400	100	400	0.00	

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	04/29/2021	ND	240	120	200	3.38	
DRO >C10-C28*	<10.0	10.0	04/29/2021	ND	220	110	200	7.31	
EXT DRO >C28-C36	<10.0	10.0	04/29/2021	ND					

Surrogate: 1-Chlorooctane 70.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 69.3 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 04/29/2021  
Reported: 04/30/2021  
Project Name: VEGA 29 FED #4 H  
Project Number: 1- 57  
Project Location: DEVON - EDDY CO NM

Sampling Date: 04/28/2021  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: S - 3 0-6" (H211103-04)**

BTX 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	04/29/2021	ND	2.04	102	2.00	10.1	
Toluene*	<0.050	0.050	04/29/2021	ND	1.97	98.7	2.00	10.8	
Ethylbenzene*	<0.050	0.050	04/29/2021	ND	1.93	96.4	2.00	10.3	
Total Xylenes*	<0.150	0.150	04/29/2021	ND	5.70	95.0	6.00	9.96	
Total BTX	<0.300	0.300	04/29/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.7 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	04/30/2021	ND	400	100	400	0.00	

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	04/29/2021	ND	240	120	200	3.38	
DRO >C10-C28*	<10.0	10.0	04/29/2021	ND	220	110	200	7.31	
EXT DRO >C28-C36	<10.0	10.0	04/29/2021	ND					

Surrogate: 1-Chlorooctane 73.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 72.3 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 04/29/2021  
Reported: 04/30/2021  
Project Name: VEGA 29 FED #4 H  
Project Number: 1- 57  
Project Location: DEVON - EDDY CO NM

Sampling Date: 04/28/2021  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: S - 3 2' (H211103-05)**

BTX 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	04/29/2021	ND	2.04	102	2.00	10.1		
Toluene*	<0.050	0.050	04/29/2021	ND	1.97	98.7	2.00	10.8		
Ethylbenzene*	<0.050	0.050	04/29/2021	ND	1.93	96.4	2.00	10.3		
Total Xylenes*	<0.150	0.150	04/29/2021	ND	5.70	95.0	6.00	9.96		
Total BTX	<0.300	0.300	04/29/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.8 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	352	16.0	04/30/2021	ND	400	100	400	0.00		

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	04/29/2021	ND	240	120	200	3.38	
DRO >C10-C28*	<10.0	10.0	04/29/2021	ND	220	110	200	7.31	
EXT DRO >C28-C36	<10.0	10.0	04/29/2021	ND					

Surrogate: 1-Chlorooctane 75.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 74.5 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 04/29/2021  
Reported: 04/30/2021  
Project Name: VEGA 29 FED #4 H  
Project Number: 1- 57  
Project Location: DEVON - EDDY CO NM

Sampling Date: 04/28/2021  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: S - 4 0-6" (H211103-06)**

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	04/29/2021	ND	2.04	102	2.00	10.1	
Toluene*	<0.050	0.050	04/29/2021	ND	1.97	98.7	2.00	10.8	
Ethylbenzene*	<0.050	0.050	04/29/2021	ND	1.93	96.4	2.00	10.3	
Total Xylenes*	<0.150	0.150	04/29/2021	ND	5.70	95.0	6.00	9.96	
Total BTEx	<0.300	0.300	04/29/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.7 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	04/30/2021	ND	400	100	400	0.00	

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	04/29/2021	ND	240	120	200	3.38	
DRO >C10-C28*	35.4	10.0	04/29/2021	ND	220	110	200	7.31	
EXT DRO >C28-C36	<10.0	10.0	04/29/2021	ND					

Surrogate: 1-Chlorooctane 67.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 67.7 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 04/29/2021  
Reported: 04/30/2021  
Project Name: VEGA 29 FED #4 H  
Project Number: 1- 57  
Project Location: DEVON - EDDY CO NM

Sampling Date: 04/28/2021  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: S - 4 2' (H211103-07)**

BTX 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	04/29/2021	ND	2.04	102	2.00	10.1		
Toluene*	<0.050	0.050	04/29/2021	ND	1.97	98.7	2.00	10.8		
Ethylbenzene*	<0.050	0.050	04/29/2021	ND	1.93	96.4	2.00	10.3		
Total Xylenes*	<0.150	0.150	04/29/2021	ND	5.70	95.0	6.00	9.96		
Total BTX	<0.300	0.300	04/29/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.4 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	04/30/2021	ND	400	100	400	0.00		

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	04/29/2021	ND	240	120	200	3.38	
DRO >C10-C28*	<10.0	10.0	04/29/2021	ND	220	110	200	7.31	
EXT DRO >C28-C36	<10.0	10.0	04/29/2021	ND					

Surrogate: 1-Chlorooctane 75.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 74.3 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 04/29/2021  
Reported: 04/30/2021  
Project Name: VEGA 29 FED #4 H  
Project Number: 1- 57  
Project Location: DEVON - EDDY CO NM

Sampling Date: 04/28/2021  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: S - 4 4' (H211103-08)**

BTX 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	04/29/2021	ND	2.04	102	2.00	10.1		
Toluene*	<0.050	0.050	04/29/2021	ND	1.97	98.7	2.00	10.8		
Ethylbenzene*	<0.050	0.050	04/29/2021	ND	1.93	96.4	2.00	10.3		
Total Xylenes*	<0.150	0.150	04/29/2021	ND	5.70	95.0	6.00	9.96		
Total BTX	<0.300	0.300	04/29/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.8 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	04/30/2021	ND	400	100	400	0.00		

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	04/30/2021	ND	240	120	200	3.38	
DRO >C10-C28*	36.0	10.0	04/30/2021	ND	220	110	200	7.31	
EXT DRO >C28-C36	<10.0	10.0	04/30/2021	ND					

Surrogate: 1-Chlorooctane 94.8 % 44.3-133

Surrogate: 1-Chlorooctadecane 95.1 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 04/29/2021  
Reported: 04/30/2021  
Project Name: VEGA 29 FED #4 H  
Project Number: 1- 57  
Project Location: DEVON - EDDY CO NM

Sampling Date: 04/28/2021  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: S - 5 0-6" (H211103-09)**

BTX 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	04/29/2021	ND	2.04	102	2.00	10.1	
Toluene*	<0.050	0.050	04/29/2021	ND	1.97	98.7	2.00	10.8	
Ethylbenzene*	<0.050	0.050	04/29/2021	ND	1.93	96.4	2.00	10.3	
Total Xylenes*	<0.150	0.150	04/29/2021	ND	5.70	95.0	6.00	9.96	
Total BTX	<0.300	0.300	04/29/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.0 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	04/30/2021	ND	400	100	400	0.00	

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	04/30/2021	ND	240	120	200	3.38	
DRO >C10-C28*	59.8	10.0	04/30/2021	ND	220	110	200	7.31	
EXT DRO >C28-C36	<10.0	10.0	04/30/2021	ND					

Surrogate: 1-Chlorooctane 71.5 % 44.3-133

Surrogate: 1-Chlorooctadecane 72.6 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 04/29/2021  
Reported: 04/30/2021  
Project Name: VEGA 29 FED #4 H  
Project Number: 1- 57  
Project Location: DEVON - EDDY CO NM

Sampling Date: 04/28/2021  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: S - 5 2' (H211103-10)**

BTX 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	04/29/2021	ND	2.04	102	2.00	10.1	
Toluene*	<0.050	0.050	04/29/2021	ND	1.97	98.7	2.00	10.8	
Ethylbenzene*	<0.050	0.050	04/29/2021	ND	1.93	96.4	2.00	10.3	
Total Xylenes*	<0.150	0.150	04/29/2021	ND	5.70	95.0	6.00	9.96	
Total BTX	<0.300	0.300	04/29/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.6 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	04/30/2021	ND	400	100	400	0.00	

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	04/30/2021	ND	240	120	200	3.38	
DRO >C10-C28*	22.8	10.0	04/30/2021	ND	220	110	200	7.31	
EXT DRO >C28-C36	<10.0	10.0	04/30/2021	ND					

Surrogate: 1-Chlorooctane 70.8 % 44.3-133

Surrogate: 1-Chlorooctadecane 69.8 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 04/29/2021  
Reported: 04/30/2021  
Project Name: VEGA 29 FED #4 H  
Project Number: 1- 57  
Project Location: DEVON - EDDY CO NM

Sampling Date: 04/28/2021  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: S - 6 0-6" (H211103-11)**

BTX 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	04/29/2021	ND	2.04	102	2.00	10.1	
Toluene*	<0.050	0.050	04/29/2021	ND	1.97	98.7	2.00	10.8	
Ethylbenzene*	<0.050	0.050	04/29/2021	ND	1.93	96.4	2.00	10.3	
Total Xylenes*	<0.150	0.150	04/29/2021	ND	5.70	95.0	6.00	9.96	
Total BTX	<0.300	0.300	04/29/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.1 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	624	16.0	04/30/2021	ND	400	100	400	0.00	

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	04/30/2021	ND	240	120	200	3.38	
DRO >C10-C28*	<10.0	10.0	04/30/2021	ND	220	110	200	7.31	
EXT DRO >C28-C36	<10.0	10.0	04/30/2021	ND					

Surrogate: 1-Chlorooctane 65.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 63.6 % 38.9-142

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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### Notes and Definitions

QR-04	The RPD for the BS/BSD was outside of historical limits.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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\*=Accredited Analyte

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

---

Celey D. Keene, Lab Director/Quality Manager



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

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>Pima Environmental</u>				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>											
Project Manager: <u>Tom Bynum</u>				P.O. #: <u>20909843</u>				<div style="display: flex; justify-content: space-around;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TPX</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">BTX</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Chlorides</div> </div>											
Address: <u>1601 N. Turner St 500</u>				Company: <u>Duron</u>															
City: <u>Hobbs</u> State: <u>NM</u> Zip: <u>88240</u>				Attn: <u>Wes Matthews</u>															
Phone #: <u>580-748-1613</u> Fax #:				Address:															
Project #: <u>1-57</u> Project Owner:				City:															
Project Name: <u>Vega 29 Fed 4H</u>				State: Zip:															
Project Location: <u>Eddy</u>				Phone #:															
Sampler Name: <u>SCOTT</u>				Fax #:															
FOR LAB USE ONLY																			
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP. # CONTAINERS	MATRIX				PRESERV.		SAMPLING								
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME				
<u>A211103</u>																			
<u>1</u>		<u>S-1 0-6"</u>												<u>4/28/21</u>	<u>8:00</u>				
<u>2</u>		<u>S-1 2'</u>												<u>4/28/21</u>	<u>8:05</u>				
<u>3</u>		<u>S-1 4'</u>												<u>4/28/21</u>	<u>8:10</u>				
<u>4</u>		<u>S-3 0-6"</u>												<u>4/28/21</u>	<u>8:15</u>				
<u>5</u>		<u>S-3 2'</u>												<u>4/28/21</u>	<u>8:20</u>				
<u>6</u>		<u>S-4 0-6"</u>												<u>4/28/21</u>	<u>8:25</u>				
<u>7</u>		<u>S-4 2'</u>											<u>4/28/21</u>	<u>8:50</u>					
<u>8</u>		<u>S-4 4'</u>											<u>4/28/21</u>	<u>5:35</u>					

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Relinquished By: <u>[Signature]</u>		Date: <u>4-29-21</u>	Received By: <u>[Signature]</u>		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:	
Time: <u>0840</u>			Time: <u>0840</u>		All Results are emailed. Please provide Email address:	
Relinquished By: <u>[Signature]</u>		Date:	Received By:		REMARKS:	
Time:						
Delivered By: (Circle One)		Observed Temp. °C <u>-25</u>	Sample Condition	CHECKED BY: (Initials)	Turnaround Time: <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush	
Sampler - UPS - Bus - Other:		Corrected Temp. °C	<input checked="" type="checkbox"/> Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No	<u>JO</u>	Bacteria (only) Sample Condition <input type="checkbox"/> Cool <input type="checkbox"/> Intact Observed Temp. °C <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> No Corrected Temp. °C	
FORM-006 R 3.1 06/04/20					Thermometer ID #113 Correction Factor None	

† Cardinal cannot accept verbal changes. Please email changes to [celey.keene@cardinallabsnm.com](mailto:celey.keene@cardinallabsnm.com)





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# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>Pima Environmental</u>				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>											
Project Manager: <u>Tom Bynum</u>				P.O. #: <u>20909843</u>				<div style="display: flex; justify-content: space-around;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TPX FAX</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">BTX</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Chloride</div> </div>											
Address: <u>1601 N. Turner</u>				Company: <u>Devon</u>															
City: <u>Hobbs</u> State: <u>NM</u> Zip: <u>88240</u>				Attn: <u>Wes Matthews</u>															
Phone #: <u>580-748-1613</u> Fax #:				Address:															
Project #: <u>1-57</u> Project Owner:				City:															
Project Name: <u>Vega 29 Rd 44</u>				State: Zip:															
Project Location: <u>Eddy</u>				Phone #:															
Sampler Name: <u>SCOTT</u>				Fax #:															
FOR LAB USE ONLY																			
Lab I.D.		Sample I.D.		GRAB OR (C)OMP.		CONTAINERS		MATRIX		PRESERV.		SAMPLING							
								GROUNDWATER											
								WASTEWATER											
								SOIL											
								OIL											
								SLUDGE											
								OTHER:											
								ACID/BASE:											
								ICE / COOL											
								OTHER:											
										DATE		TIME							
<u>H21103</u>		<u>9 5-5 0-6"</u>		<u>G</u>				<u>X</u>		<u>X</u>		<u>4/28/01 9:00</u>		<u>X</u>					
<u>10</u>		<u>5-5 2'</u>		<u>G</u>				<u>X</u>		<u>X</u>		<u>4/28/01 9:05</u>		<u>X</u>					
<u>11</u>		<u>5-6 0-6"</u>		<u>G</u>				<u>X</u>		<u>X</u>		<u>4/28/01 9:10</u>		<u>X</u>					

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Relinquished By: <u>[Signature]</u>		Date: <u>4-29-21</u>		Received By: <u>[Signature]</u>		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:	
Time: <u>0840</u>		Time: <u>0840</u>		Time: <u>0840</u>		All Results are emailed. Please provide Email address:	
Relinquished By: <u>[Signature]</u>		Date: <u>4-29-21</u>		Received By: <u>[Signature]</u>		REMARKS:	
Time: <u>0840</u>		Time: <u>0840</u>		Time: <u>0840</u>			
Delivered By: (Circle One)		Observed Temp. °C <u>-2.5</u>		Sample Condition		Turnaround Time: <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush	
Sampler - UPS - Bus - Other:		Corrected Temp. °C		Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Bacteria (only) Sample Condition	
				Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No	
				CHECKED BY: (Initials) <u>TO</u>		Thermometer ID #113	
						Correction Factor None	
						Observed Temp. °C	
						Corrected Temp. °C	

† Cardinal cannot accept verbal changes. Please email changes to [celey.keene@cardinallabsnm.com](mailto:celey.keene@cardinallabsnm.com)

**District I**

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**District II**

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**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 28954

**CONDITIONS**

Operator: Pima Environmental Services, LLC 1601 N. Turner Hobbs, NM 88240	OGRID: 329999
	Action Number: 28954
	Action Type: [C-141] Release Corrective Action (C-141)

**CONDITIONS**

Created By	Condition	Condition Date
chensley	None	7/1/2021