



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

July 27, 2020

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

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

**Re: Site Assessment and Closure Report
Antares 23 Fed #4H
API No. 30-015-41108
GPS: Latitude 32.644973 Longitude -103.848125
UL "L", Sec. 23, T19S, R31E
Eddy County, NM
NMOCD Ref. No. 2RP-4835**

Dear Mr. Amos and Mr. Bratcher,

Pima Environmental Services, LLC (Pima) has been contracted by Devon Energy Production Company (Devon) to perform a spill assessment and to perform remediation activities for an oil release that occurred at the Antares 23 Fed #4H (Antares). The initial C-141 was submitted on June 28, 2018 (Appendix C). This incident was assigned 2RP-4835, Incident ID NAB1818431669, by the New Mexico Oil Conservation Division (NMOCD).

Site Characterization

The Antares is located approximately twenty-seven (27) miles northeast of Carlsbad, NM. This spill site is in Unit L, Section 23, Township 19S, Range 31E, Latitude 32.1230, Longitude -103.9866, Eddy County, NM. Figure 1 references a location map.

Per the New Mexico Bureau of Geology and Mineral Resources, the geology is in the Quaternary Formation Eolian and piedmont deposits (Holocene to middle Pleistocene)-interlayered eolian sands and piedmont-slope deposits (QEP). The soil in this area is made up of Berino complex, 0 to 3 percent slopes according to the United States Department of Agriculture Natural Resources Conservation Service soil survey (Appendix B). The drainage courses in this area are well-drained. There is a low potential for karst geology to be present in the area of the Antares (Figure 3).

According to the New Mexico Office of the State Engineer, depth to the nearest groundwater in this area is 130 feet below grade surface (BGS). According to the United States Geological Survey (USGS), the nearest groundwater is greater than 100 feet BGS. The only surface waterway near this site is a playa located approximately 4.18 miles to the southeast of this location. See Appendix A for referenced water surveys.

Table 1 NMAC and Closure Criteria 19.15.29					
Depth to Groundwater (Appendix A)	Constituent & Limits				
	Chlorides	Total TPH	GRO+DRO	BTEX	Benzene
130'	20,000 mg/kg	2,500 mg/kg	1,000 mg/kg	50 mg/kg	10 mg/kg
<50	600 mg/kg	100 mg/kg	100 mg/kg	50 mg/kg	10mg/kg
If the release occurred within any of the following areas, the responsible party would treat the release as if the groundwater was less than 50 feet per Rule 19.15.29					
Water Issues				Yes	No
Within 300 feet of any continuously flowing watercourse or any other significant watercourse					x
Within 200 feet of any lakebed, sinkhole or playa lake (measures from the ordinary high-water mark)					x
Within 300 feet from an occupied permanent residence, school, hospital, institution or church					x
Within 500 feet of a spring or a private, domestic freshwater well used by less than five households for domestic or stock water purposes					x
Within 1000 feet of any freshwater well or spring					x
Within incorporated municipal boundaries or within a defined municipal freshwater well field					x
Within 300 feet of a wetlands					x
Within the area overlying a subsurface mine					x
Within an unstable area (Karst)					x
Within a 100-year floodplain					x

Reference Figure 2 for a TOPO Map.

Release Information

2RP-4835: On June 14, 2018, the flare swamped out, causing oil to overspray onto the location and out in the pasture to the north. Approximately 0.9 barrels (bbls) of oil were released, with no fluids being recovered. The flare was repaired and put back into service.

Site Assessment and Soil Sampling Results

On June 19, 2020, Pima Environmental conducted a site assessment and obtained soil samples to get a more in-depth picture of the horizontal and vertical extent of the contamination. The laboratory results of this sampling event can be found in the following data table.

6-19-20 Soil Sample Results

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is >100')											
Sample Date 6-19-20		Field Screening Utilizing PID Meter, Chloride Strips and S300 Method			NM Approved Laboratory Results						
Sample ID	Depth (BGS)	VOC	Benzene	Chlorides	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	ND	490
	1				ND	ND	ND	ND	ND	ND	270
	2				ND	ND	ND	ND	ND	ND	250
	3				ND	ND	ND	ND	ND	ND	200
S-2	0-6				ND	ND	ND	ND	ND	ND	810
	1				ND	ND	ND	ND	ND	ND	160
	2				ND	ND	ND	ND	ND	ND	ND
	3				ND	ND	ND	ND	ND	ND	ND
S-3	0-6				ND	ND	ND	ND	ND	ND	ND
	1				ND	ND	ND	ND	ND	ND	ND
	2				ND	ND	ND	ND	ND	ND	160
	3				ND	ND	ND	ND	ND	ND	210
S-4	0-6				ND	ND	ND	ND	ND	ND	ND
	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-5	0-6				ND	ND	ND	300	950	1250	78
	1				ND	ND	ND	120	500	620	101
	2				ND	ND	ND	75	200	275	150
	3				ND	ND	ND	17	65	82	94
S-6	0-6				ND	ND	ND	590	1300	1890	78
	1				ND	ND	ND	340	1000	1340	130
	2				ND	ND	ND	55	80	135	79
	3				ND	ND	ND	28	58	86	86
BG-3	0				ND	ND	ND	ND	ND	ND	ND
BG-4	0				ND	ND	ND	ND	ND	ND	ND
BG-5	0				ND	ND	ND	ND	ND	ND	ND
BG-6	0				ND	ND	ND	ND	ND	ND	ND
BG-7	0				ND	ND	ND	64	830	894	1600
BG-8	0				ND	ND	ND	ND	ND	ND	540

ND- Analyte Not Detected

Remediation Activities

On July 13, 2020, Pima mobilized personnel and equipment to conduct remedial activities based on BLM approval. An area of 10'x10' was marked in the vicinity of BG-7 and excavated to a depth of 1 foot deep. Five-point composite bottom and sidewall composite samples were obtained to ensure that the vertical and horizontal extents of the contamination had been removed. Each composite sample was representative of no more than 200 square feet. The laboratory results of this sampling event can be found in the following data table.

7-14-20 Soil Sample Results

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is >100')											
Sample Date 7-12-20		Field Screening Utilizing PID Meter, Chloride Strips and S300 Method			NM Approved Laboratory Results						
Sample ID	Depth (BGS)	VOC	Benzene	Chlorides	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg
N. Comp	1				ND	ND	ND	ND	ND	ND	ND
S. Comp	1				ND	ND	ND	ND	ND	ND	ND
E. Comp	1				ND	ND	ND	ND	ND	ND	ND
W. Comp	1				ND	ND	ND	ND	ND	ND	ND
Bottom Comp	1				ND	ND	ND	ND	ND	ND	ND

ND- Analyte Not Detected

Complete Laboratory Reports are attached in Appendix C.

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

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

Closure Request

After careful review, Pima requests that this incident, NAB1818431669, be closed. Devon has complied with the applicable closure requirements.

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

Respectfully,



Chris Jones
Environmental Professional
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



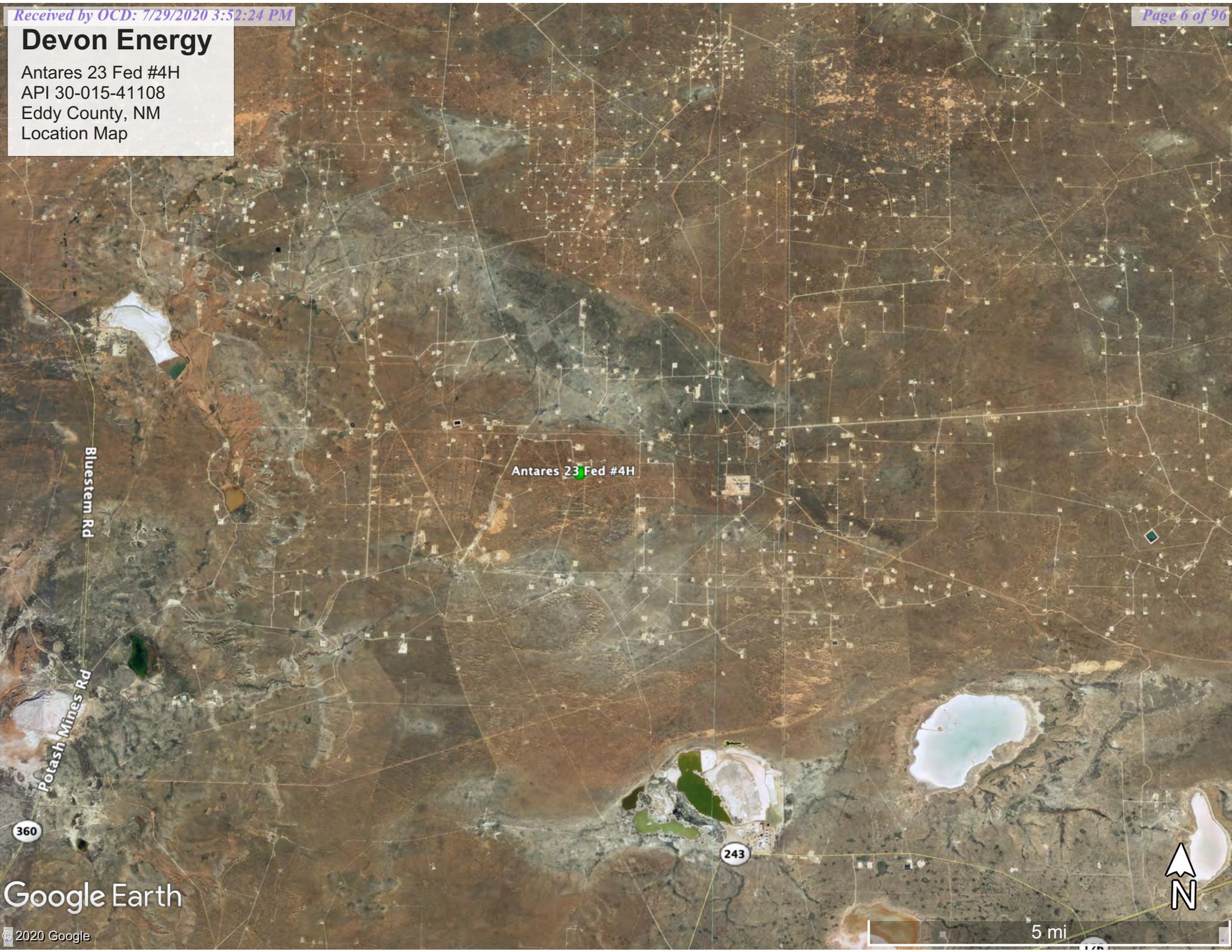
Pima Environmental Services

Figures:

- 1-Location Map
- 2- TOPO Map
- 3- Karst Map
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Devon Energy

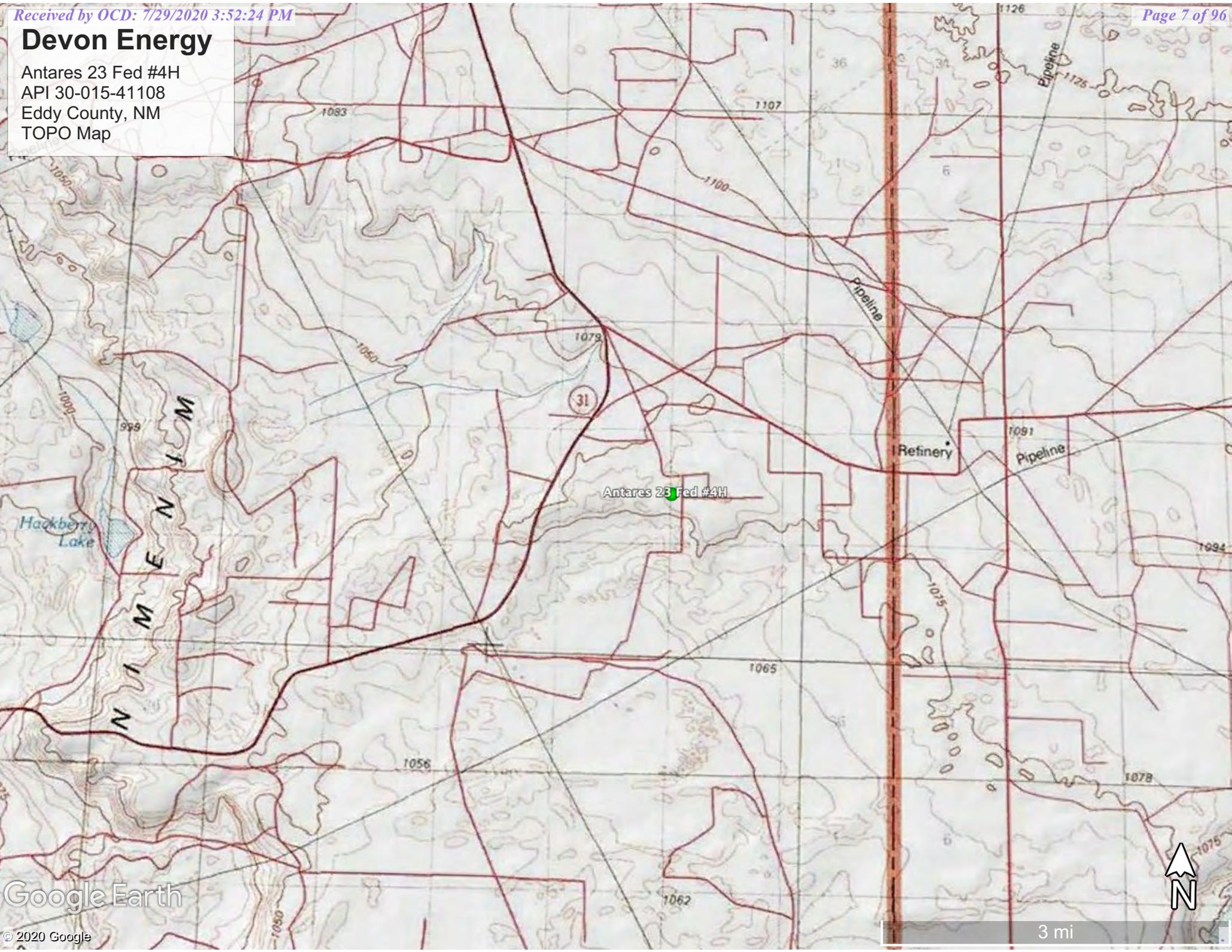
Antares 23 Fed #4H
API 30-015-41108
Eddy County, NM
Location Map



Google Earth

Devon Energy

Antares 23 Fed #4H
API 30-015-41108
Eddy County, NM
TOPO Map



Antares 23 Fed #4H

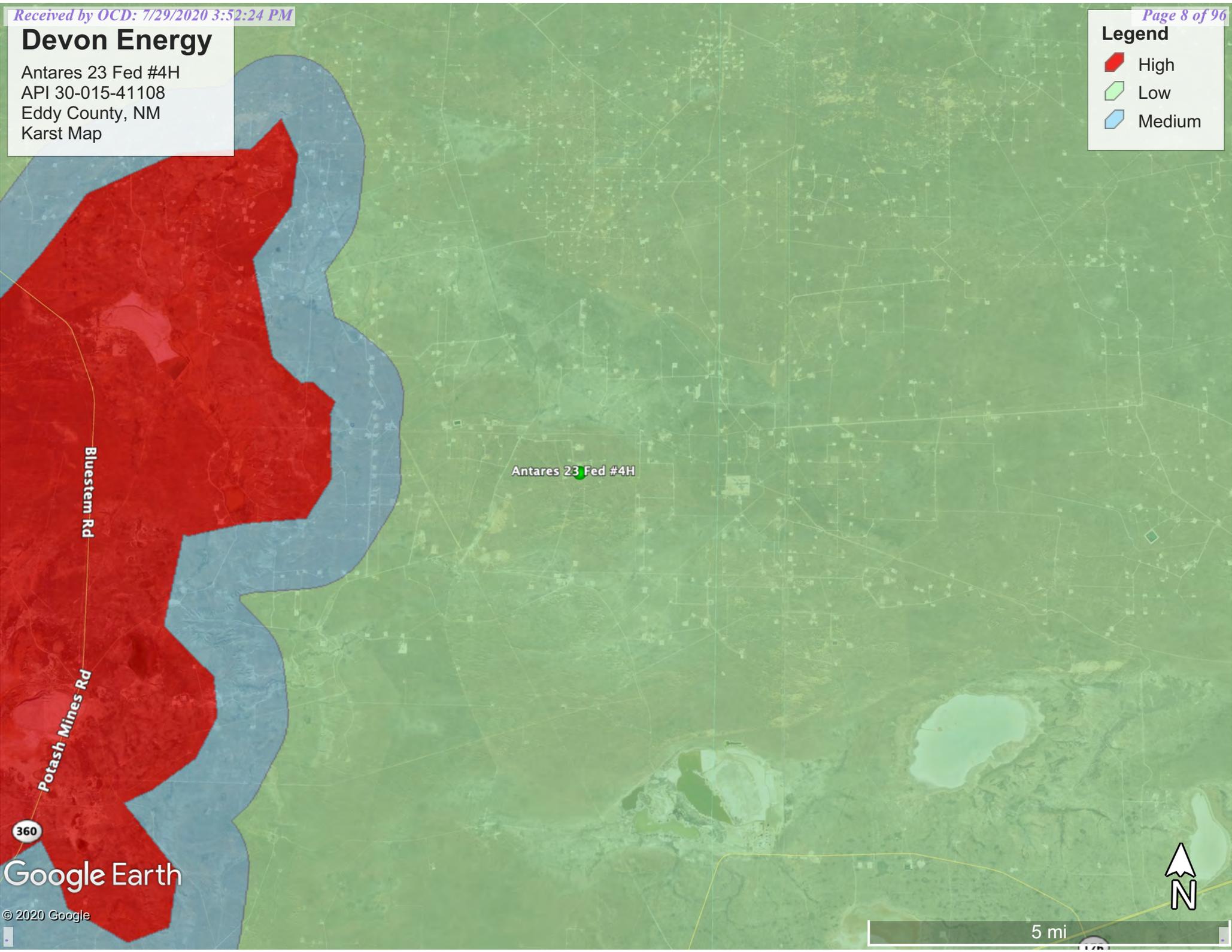


Devon Energy

Antares 23 Fed #4H
API 30-015-41108
Eddy County, NM
Karst Map

Legend

- High
- Low
- Medium



Antares 23 Fed #4H

Bluestem Rd

Potash Mines Rd

360

Google Earth

© 2020 Google



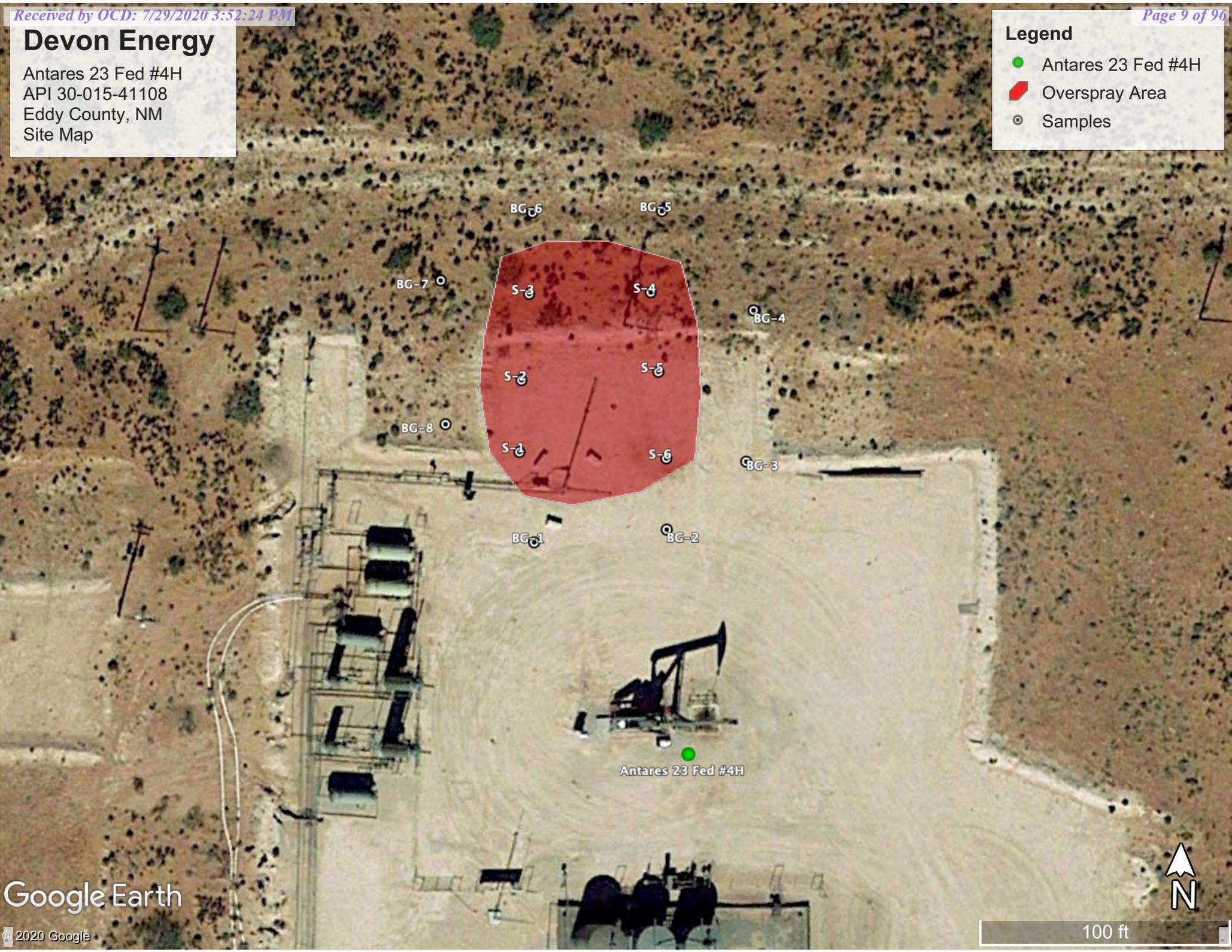
5 mi

Devon Energy

Antares 23 Fed #4H
API 30-015-41108
Eddy County, NM
Site Map

Legend

- Antares 23 Fed #4H
- Overspray Area
- Samples





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Appendix A
Water Surveys:
OSE
USGS
Google Surface Water Map



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

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

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

(In feet)

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
CP 01554 POD2		CP	LE	2	2	1	22	19S	31E	607165	3613322	1219	400		
CP 01554 POD1		CP	LE	2	2	1	22	19S	31E	607166	3613354	1241	400		
CP 00829 POD1		CP	LE		2	4	16	19S	31E	606165	3614009*	2425	120		
CP 00642 POD1		CP	ED		2	2	25	19S	31E	611025	3611657*	3086	250		
CP 00641 POD1		CP	ED		4	1	36	19S	31E	610247	3609634*	3597	300	130	170
CP 00722 POD1		CP	LE		4	3	3	28	19S	605106	3610273*	3682	200		
CP 00725 POD1		CP	ED		1	3	3	28	19S	604906	3610473*	3733	231		
CP 00722 POD3		CP	LE		2	4	1	33	19S	605519	3609673*	3783	220	140	80
CP 00723 POD1		CP	ED		2	1	1	33	19S	605111	3610071*	3803	139		

Average Depth to Water: **135 feet**

Minimum Depth: **130 feet**

Maximum Depth: **140 feet**

Record Count: 9

UTMNAD83 Radius Search (in meters):

Easting (X): 608051.11

Northing (Y): 3612483.971

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.



New Mexico Office of the State Engineer

Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	CP 00641 POD1	4	1	36	19S	31E		610247	3609634*

Driller License: 882 **Driller Company:** LARRY'S DRILLING & PUMP CO.

Driller Name: FELKINS, LARRY

Drill Start Date: 02/11/1982 **Drill Finish Date:** 02/12/1982 **Plug Date:**

Log File Date: 02/23/1982 **PCW Rcv Date:** **Source:** Shallow

Pump Type: **Pipe Discharge Size:** **Estimated Yield:**

Casing Size: **Depth Well:** 300 feet **Depth Water:** 130 feet

*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.

7/27/20 11:42 AM

POINT OF DIVERSION SUMMARY

National Water Information System: Mapper

Help Info

Sites Map

Search

Surface-Water Sites

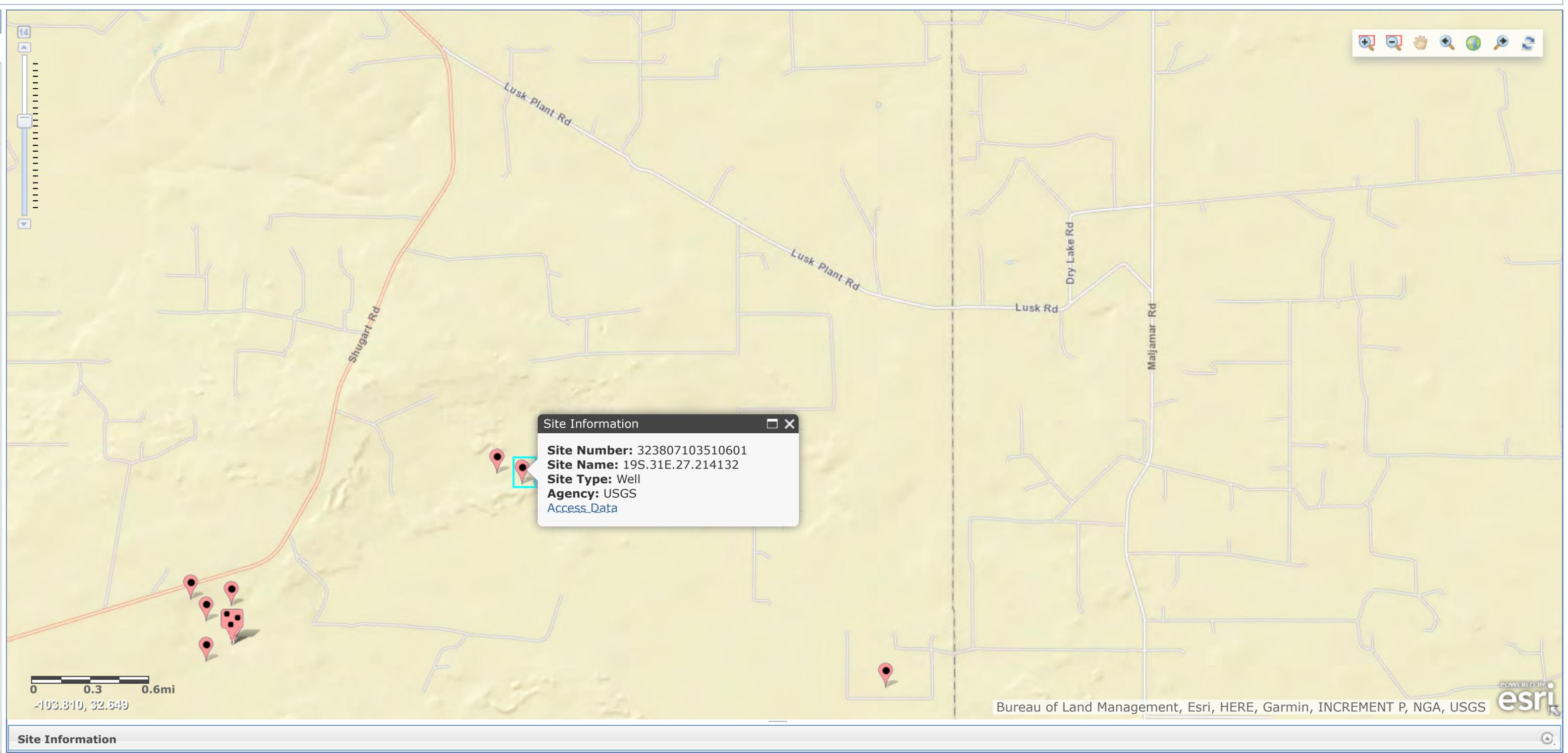
Groundwater Sites

- Active Sites
 - Any data
 - Instantaneous data
 - Daily data
 - Water-quality data
 - Measurements
 - Annual Report
- Inactive Sites
 - Any data
 - Instantaneous data
 - Daily data
 - Water-quality data
 - Measurements
 - Annual Report

Springs

Atmospheric Sites

Other Sites



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 =

- 323807103510601

Minimum number of levels = 1

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

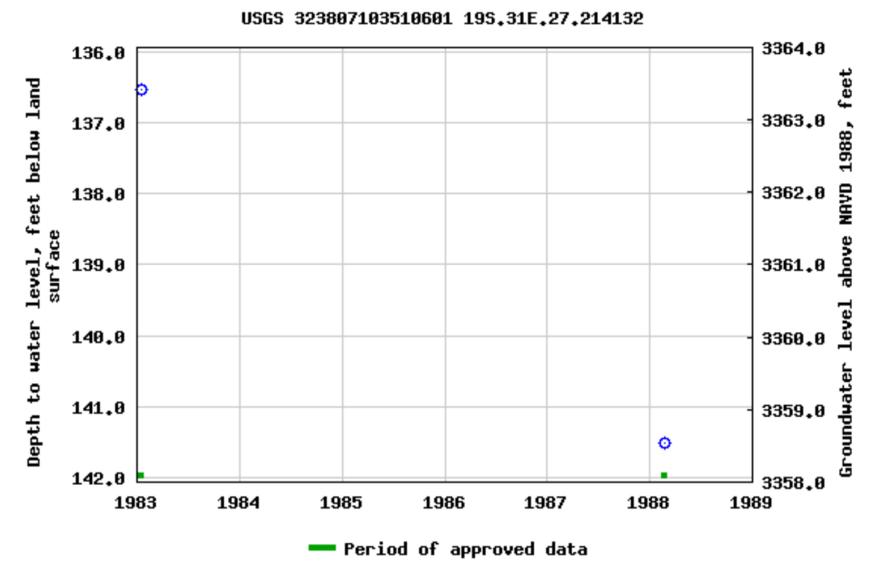
USGS 323807103510601 19S.31E.27.214132

Available data for this site Groundwater: Field measurements GO

Eddy County, New Mexico
 Hydrologic Unit Code 13060011
 Latitude 32°38'07", Longitude 103°51'06" NAD27
 Land-surface elevation 3,500 feet above NAVD88
 The depth of the well is 177 feet below land surface.
 This well is completed in the Rustler Formation (312RSLR) local aquifer.

Output formats

Table_of_data
Tab-separated_data
Graph_of_data
Reselect_period



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

[Questions about sites/data?](#)
[Feedback on this web site](#)
[Automated retrievals](#)
[Help](#)

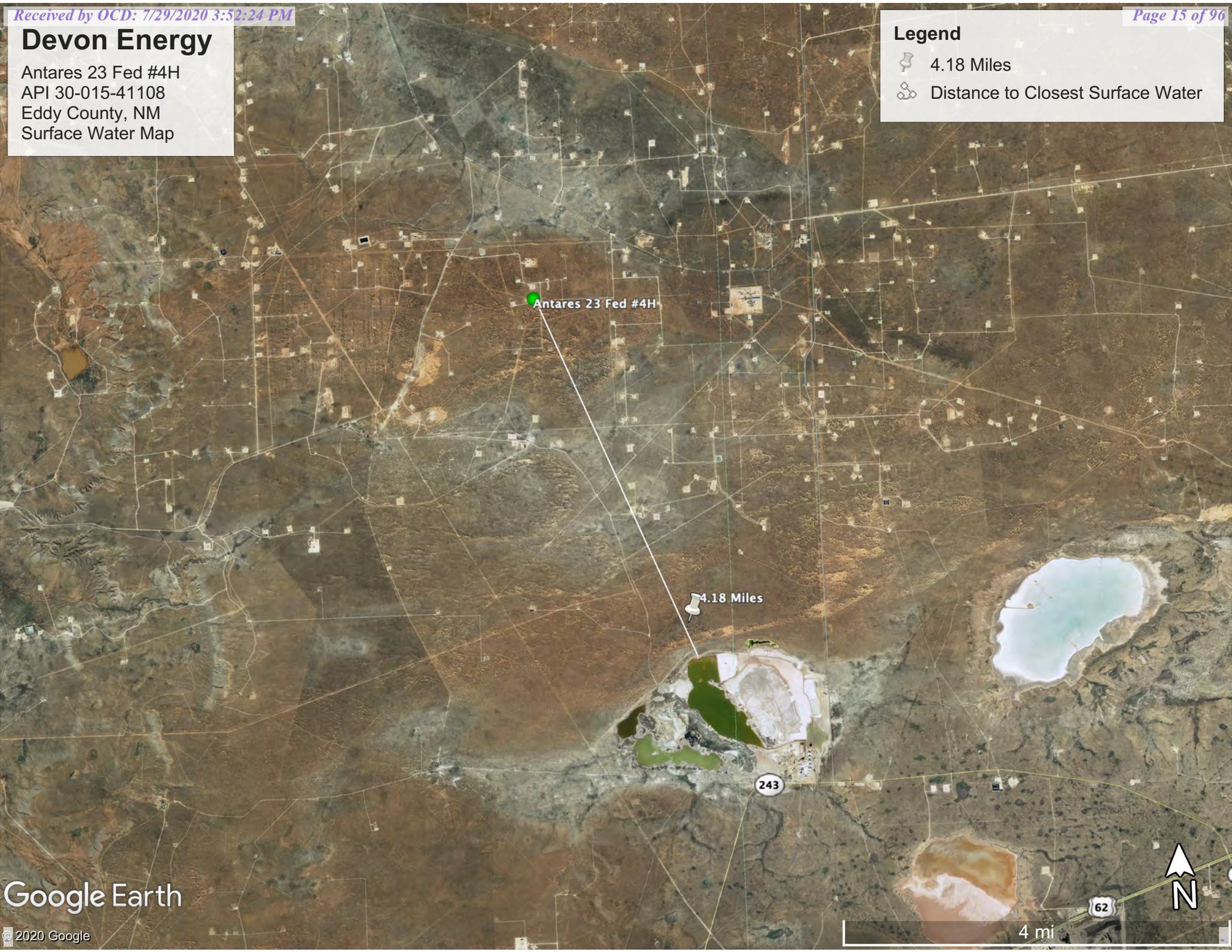
[Data Tips](#)
[Explanation of terms](#)
[Subscribe for system changes](#)
[News](#)

Devon Energy

Antares 23 Fed #4H
API 30-015-41108
Eddy County, NM
Surface Water Map

Legend

-  4.18 Miles
-  Distance to Closest Surface Water





Pima Environmental Services

Appendix B
Soil Survey & Geological Data:
USDA

Map Unit Description: Berino complex, 0 to 3 percent slopes, eroded---Eddy Area, New Mexico

Eddy Area, New Mexico

BB—Berino complex, 0 to 3 percent slopes, eroded

Map Unit Setting

National map unit symbol: 1w43

Elevation: 2,000 to 5,700 feet

Mean annual precipitation: 5 to 15 inches

Mean annual air temperature: 57 to 70 degrees F

Frost-free period: 180 to 260 days

Farmland classification: Not prime farmland

Map Unit Composition

Berino and similar soils: 60 percent

Pajarito and similar soils: 25 percent

Minor components: 15 percent

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

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 58 inches: sandy clay loam

H3 - 58 to 60 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 8.0 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7e

Map Unit Description: Berino complex, 0 to 3 percent slopes, eroded---Eddy Area, New Mexico

Hydrologic Soil Group: B
Ecological site: Loamy Sand (R042XC003NM)
Hydric soil rating: No

Description of Pajarito

Setting

Landform: Interdunes, plains, dunes
Landform position (three-dimensional): Side slope
Down-slope shape: Linear, convex
Across-slope shape: Linear, convex
Parent material: Mixed alluvium and/or eolian sands

Typical profile

H1 - 0 to 9 inches: loamy fine sand
H2 - 9 to 72 inches: fine sandy loam

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Natural drainage class: Well drained
Runoff class: Very low
Capacity of the most limiting layer to transmit water (Ksat): High
 (2.00 to 6.00 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: Nonsaline (0.0 to 1.0 mmhos/cm)
Sodium adsorption ratio, maximum in profile: 1.0
Available water storage in profile: Moderate (about 8.0 inches)

Interpretive groups

Land capability classification (irrigated): 2e
Land capability classification (nonirrigated): 7e
Hydrologic Soil Group: A
Ecological site: Loamy Sand (R042XC003NM)
Hydric soil rating: No

Minor Components

Cacique

Percent of map unit: 4 percent
Ecological site: Sandy (R042XC004NM)
Hydric soil rating: No

Wink

Percent of map unit: 4 percent
Ecological site: Loamy Sand (R042XC003NM)
Hydric soil rating: No

Pajarito

Percent of map unit: 4 percent
Ecological site: Loamy Sand (R042XC003NM)
Hydric soil rating: No

Map Unit Description: Berino complex, 0 to 3 percent slopes, eroded---Eddy Area, New Mexico

Kermit

Percent of map unit: 3 percent

Ecological site: Deep Sand (R042XC005NM)

Hydric soil rating: No

Data Source Information

Soil Survey Area: Eddy Area, New Mexico

Survey Area Data: Version 15, Sep 15, 2019



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



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.
Santa Fe, NM 87505

JUN 28 2018

Form C-141
Revised April 3, 2017

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.
DISTRICT II-ARTESIA, OCD

Release Notification and Corrective Action

NAB 1818431669

OPERATOR

Initial Report Final Report

Name of Company <u>Devon Energy Production Company</u> <i>1137</i>		Contact <u>Steve McGlasson</u> , Production Foreman
Address <u>6488 Seven Rivers Hwy Artesia, NM 88210</u>		Telephone No. <u>575-748-3371</u>
Facility Name <u>Antares 23 Federal 4H</u>		Facility Type <u>Oil</u>
Surface Owner <u>Federal</u>	Mineral Owner <u>Federal</u>	API No. <u>30-015-41108</u>

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
L	23	19S	31E					Eddy

Latitude 32.644973 Longitude 103.848125 NAD83

NATURE OF RELEASE

Type of Release <u>Oil/Fire</u>	Volume of Release <u>0.9BBLs</u>	Volume Recovered <u>None</u>
Source of Release <u>Flare</u>	Date and Hour of Occurrence <u>June 14, 2018 @ 12:30 PM MST</u>	Date and Hour of Discovery <u>June 14, 2018 @ 12:30 PM MST</u>
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? <u>NMOCD-Mike Bratcher & Crystal Weaver BLM-Shelly Tucker</u>	
By Whom? <u>Mike Shoemaker, EHS Professional</u>	Date and Hour <u>June 15, 2018 @ 11:58 AM MST</u>	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. <u>N/A</u>	

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

Describe Cause of Problem and Remedial Action Taken.*

The flare swamped out causing oil to overspray onto the location out in the pasture. There was also a small fire around flare that extinguished itself. No damage was done to any equipment and no personnel were injured during this incident. Repairs have been made.

Describe Area Affected and Cleanup Action Taken.*

Approximately 0.9bbls of oil was released on location and over sprayed onto the adjacent pasture. No fluids were recovered. An environmental contractor will be called 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: <u>Dana DeLaRosa</u>		OIL CONSERVATION DIVISION	
Printed Name: <u>Dana DeLaRosa</u>		Approved by Environmental Specialist: <u><i>[Signature]</i></u>	
Title: <u>Field Admin Support</u>		Approval Date: <u>6/29/18</u>	Expiration Date: <u>N/A</u>
E-mail Address: <u>Dana.Delarosa@dvn.com</u>		Conditions of Approval: <u>See attached</u>	
Date: <u>06/28/18</u>	Phone: <u>575.746.5594</u>	Attached <u>APP-4835</u>	

* Attach Additional Sheets If Necessary

Operator/Responsible Party,

The OCD has received the form C-141 you provided on 6/28/2018 regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number 2824835 has been assigned. **Please refer to this case number in all future correspondence.**

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

The responsible person shall complete division-approved corrective action for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC. [emphasis added]

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. **As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District 2 office in ARTESIA on or before 7/28/2018. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.**

The goals of a characterization effort are: 1) determination of the lateral and vertical extents along with the magnitude of soil contamination. 2) determine if groundwater or surface waters have been impacted. 3) If groundwater or surface waters have been impacted, what are the extents and magnitude of that impact. 4) The characterization of any other adverse impacts that may have occurred (examples: impacts on vegetation, impacts on wildlife, air quality, loss of use of property, etc.). To meet these goals as quickly as possible, the following items must, at a minimum, be addressed in the release characterization workplan and subsequent reporting:

- Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.
- Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.
- Nominal detection limits for field and laboratory analyses must be provided.
- Composite sampling is not generally allowed.
- Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

for laboratory analysis from each borehole or test pit (highest observed contamination and deepest depth investigated). Copies of the actual laboratory results must be provided including chain of custody documentation.

- Probable depth to shallowest protectable groundwater and lateral distance to nearest surface water. If there is an estimate of groundwater depth, the information used to arrive at that estimate must be provided. If there is a reasonable assumption that the depth to protectable water is 50 feet or less, the responsible party should anticipate the need for at least one groundwater monitoring well to be installed in the area of likely maximum contamination.

- If groundwater contamination is encountered, an additional investigation workplan may be required to determine the extents of that contamination. Groundwater and/or surface water samples, if any, must be analyzed by a competent laboratory for volatile organic hydrocarbons (typically Method 8260 full list), total dissolved solids, pH, major anions and cations including chloride and sulfate, dissolved iron, and dissolved manganese. The investigation workplan must provide the groundwater sampling method(s) and sample handling protocols. To the fullest extent possible, aqueous analyses must be undertaken using nominal method detection limits. As with the soil analyses, copies of the actual laboratory results must be provided including chain of custody documentation.

- Accurately scaled and well-drafted site maps must be provided providing the location of borings, test pits, monitoring wells, potentially impacted areas, and significant surface features including roads and site infrastructure that might limit either the release characterization or remedial efforts. Field sketches may be included in subsequent reporting, but should not be considered stand-alone documentation of the site's layout. Digital photographic documentation of the location and fieldwork is recommended, especially if unusual circumstances are encountered.

Nothing herein should be interpreted to preclude emergency response actions or to imply immediate remediation by removal cannot proceed as warranted. Nonetheless, characterization of impacts and confirmation of the effectiveness of remedial efforts must still be provided to the OCD before any release incident will be closed.

Jim Griswold

OCD Environmental Bureau Chief
1220 South St. Francis Drive
Santa Fe, New Mexico 87505
505-476-3465
jim.griswold@state.nm.us

Bratcher, Mike, EMNRD

From: DeLaRosa, Dana <Dana.DeLaRosa@dvn.com>
Sent: Thursday, June 28, 2018 10:43 AM
To: Bratcher, Mike, EMNRD; Weaver, Crystal, EMNRD; Tucker, Shelly
Cc: Shoemaker, Mike; Fulks, Brett
Subject: Antares 23 Fed Com 4H_9bbls oil_fire_6.14.2018
Attachments: Antares 23 Fed 4H_90bbls Oil_Fire_6.14.2018_GIS Image.pdf; Antares 23 Fed Com 4H_9BBLs Oil_Fire_6.14.2018_Intial C141.doc

Good Morning,

Attached is the C141 and the GIS image for the .90bbl oil and fire that occurred at the Antares 23 Fed 4H on 6.14.2018. The red dot on the GIS image represents the approximate origin of release.

Thank you,

Dana DeLaRosa

Field Admin Support
Production
A-Schedule

Devon Energy Corporation
PO Box 250
Artesia, NM 88211
575 746 5594



Confidentiality Warning: This message and any attachments are intended only for the use of the intended recipient(s), are confidential, and may be privileged. If you are not the intended recipient, you are hereby notified that any review, retransmission, conversion to hard copy, copying, circulation or other use of all or any portion of this message and any attachments is strictly prohibited. If you are not the intended recipient, please notify the sender immediately by return e-mail, and delete this message and any attachments from your system.

Antares 23 Fed 4H

.90bbls Oil 6.14.2018



This map is for illustrative purposes only and is neither a legally recorded map nor survey and is not intended to be used as one. Devon makes no warranty, representation, or guarantee of any kind regarding this map.

WGS_1984_Web_Mercator_Auxiliary_Sphere
Prepared by: Dana DeLaRosa
Map is current as of: 28-Jun-2018



Miles
0 0.00 0.00 0.01 1:445



Bratcher, Mike, EMNRD

From: Shoemaker, Mike <Mike.Shoemaker@dvn.com>
Sent: Friday, June 15, 2018 11:58 AM
To: Bratcher, Mike, EMNRD; Weaver, Crystal, EMNRD; Shelly Tucker (stucker@blm.gov)
Subject: Antares 23 Federal 4 (API #30-015-41108)

Devon had the following release occur at 12:30 PM MST on 06/14/18. The incident is described below.

1. Antares 23 Federal 4H (API #30-015-41108)
 - a. The flare swamped out causing oil to over spray on to the location and out into the pasture. There was also a small fire around flare that extinguished itself. No damage was done to any equipment and no personnel were injured during this incident. Approximately 0.90 bbls of oil was released. 0 bbls were recovered.

A C-141 will be prepared and submitted with GPS coordinates of the area affected.

Thanks,

Mike Shoemaker
EHS Representative

Devon Energy Corporation
6488 Seven Rivers Highway
Artesia, New Mexico 88210
575-746-5566 Office
575-513-5035 Mobile



Confidentiality Warning: This message and any attachments are intended only for the use of the intended recipient(s), are confidential, and may be privileged. If you are not the intended recipient, you are hereby notified that any review, retransmission, conversion to hard copy, copying, circulation or other use of all or any portion of this message and any attachments is strictly prohibited. If you are not the intended recipient, please notify the sender immediately by return e-mail, and delete this message and any attachments from your system.

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?	_____ 130 (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

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

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

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

State of New Mexico
Oil Conservation Division

Incident ID	NAB1818431669
District RP	2RP-4835
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: Chris Jones

Title: Project Manager

Signature: 

Date: 7-27-20

email: chris@pimaoil.com

Telephone: 575-964-7740

OCD Only

Received by: _____

Date: _____

Incident ID	NAB1818431669
District RP	2RP-4835
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: *Each of the following items must be included in the plan.*

- Detailed description of proposed remediation technique
- Scaled sitemap with GPS coordinates showing delineation points
- Estimated volume of material to be remediated
- Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- Extents of contamination must be fully delineated.
- Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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: Chris Jones

Title: Project Manager

Signature:



Date: 7-27-20

email: chris@pimaoil.com

Telephone: 575-964-7740

OCD Only

Received by: _____ Date: _____

- Approved Approved with Attached Conditions of Approval Denied Deferral Approved

Signature: _____

Date: _____

Incident ID	NAB1818431669
District RP	2RP-4835
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: Chris Jones

Title: Project Manager

Signature: 

Date: 7-27-20

email: chris@pimaoil.com

Telephone: 575-964-7740

OCD Only

Received by: _____

Date: _____

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

Closure Approved by: _____

Date: _____

Printed Name: _____

Title: _____



Pima Environmental Services

Appendix D:
Photographic Documentation

Photographs



Unnamed Road, Artesia, NM
88210, USA
Latitude Longitude
32.644533°-103.848126°
LOCAL 08:44:11 MONDAY 07.13.2020
GMT 14:44:18 ALTITUDE 0 METER



Unnamed Road, Artesia, NM
88210, USA
Latitude Longitude
32.645087°-103.848335°
LOCAL 08:44:21 MONDAY 07.13.2020
GMT 14:44:22 ALTITUDE 1057 METER



Unnamed Road, Artesia, NM
88210, USA
Latitude Longitude
32.645058° - 103.848193°
LOCAL 12:19:41 MONDAY 07.13.2020
GMT 18:19:41 ALTITUDE 1059 METER



Unnamed Road, Artesia, NM
88210, USA
Latitude Longitude
32.645056° - 103.848195°
LOCAL 12:19:41 MONDAY 07.13.2020
GMT 18:19:41 ALTITUDE 1056 METER



Unnamed Road, Artesia, NM
88210, USA
Latitude Longitude
32.645064° - 103.848170°
LOCAL 12:19:51 MONDAY 07.13.2020
GMT 18:19:51 ALTITUDE 1056 METER



Unnamed Road, Artesia, NM
88210, USA
Latitude Longitude
32.645066° - 103.848168°
LOCAL 12:19:51 MONDAY 07.13.2020
GMT 18:19:51 ALTITUDE 1058 METER



Unnamed Road, Artesia, NM
88210, USA
Latitude Longitude
32.645036°-103.848203°
LOCAL 12:20:3 MONDAY 07.13.2020
GMT 18:20:3 ALTITUDE 1057 METER



Unnamed Road, Artesia, NM
88210, USA
Latitude Longitude
32.645066°-103.848195°
LOCAL 12:20:3 MONDAY 07.13.2020
GMT 18:20:3 ALTITUDE 1057 METER



Unnamed Road, Artesia, NM
88210, USA
Latitude Longitude
32.645066° - 103.848195°
LOCAL 12:20:3 MONDAY 07.13.2020
GMT 18:20:3 ALTITUDE 1057 METER



Unnamed Road, Artesia, NM
88210, USA
Latitude Longitude
32.645066° - 103.848195°
LOCAL 12:20:4 MONDAY 07.13.2020
GMT 18:20:4 ALTITUDE 1057 METER



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

June 29, 2020

Chris Jones
Pima Environmental Services LLC
1601 N. Turner Ste 500
Hobbs, NM 88240
TEL: (575) 631-6977
FAX:

RE: Antares 23 Fed 4H

OrderNo.: 2006B21

Dear Chris Jones:

Hall Environmental Analysis Laboratory received 32 sample(s) on 6/23/2020 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 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 2006B21

Date Reported: 6/29/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

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

Project: Antares 23 Fed 4H

Collection Date: 6/19/2020 11:00:00 AM

Lab ID: 2006B21-001

Matrix: SOIL

Received Date: 6/23/2020 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: CLP
Diesel Range Organics (DRO)	ND	8.5		mg/Kg	1	6/24/2020 8:31:34 AM
Motor Oil Range Organics (MRO)	ND	43		mg/Kg	1	6/24/2020 8:31:34 AM
Surr: DNOP	122	55.1-146		%Rec	1	6/24/2020 8:31:34 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	6/24/2020 4:01:05 PM
Surr: BFB	104	66.6-105		%Rec	1	6/24/2020 4:01:05 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	6/24/2020 4:01:05 PM
Toluene	ND	0.047		mg/Kg	1	6/24/2020 4:01:05 PM
Ethylbenzene	ND	0.047		mg/Kg	1	6/24/2020 4:01:05 PM
Xylenes, Total	ND	0.094		mg/Kg	1	6/24/2020 4:01:05 PM
Surr: 4-Bromofluorobenzene	104	80-120		%Rec	1	6/24/2020 4:01:05 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	490	60		mg/Kg	20	6/26/2020 9:02:44 PM

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

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical 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

Analytical Report

Lab Order 2006B21

Date Reported: 6/29/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S-1 1'

Project: Antares 23 Fed 4H

Collection Date: 6/19/2020 11:02:00 AM

Lab ID: 2006B21-002

Matrix: SOIL

Received Date: 6/23/2020 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: CLP
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	6/24/2020 8:41:21 AM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	6/24/2020 8:41:21 AM
Surr: DNOP	112	55.1-146		%Rec	1	6/24/2020 8:41:21 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/24/2020 4:24:55 PM
Surr: BFB	105	66.6-105		%Rec	1	6/24/2020 4:24:55 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	6/24/2020 4:24:55 PM
Toluene	ND	0.048		mg/Kg	1	6/24/2020 4:24:55 PM
Ethylbenzene	ND	0.048		mg/Kg	1	6/24/2020 4:24:55 PM
Xylenes, Total	ND	0.096		mg/Kg	1	6/24/2020 4:24:55 PM
Surr: 4-Bromofluorobenzene	104	80-120		%Rec	1	6/24/2020 4:24:55 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	270	60		mg/Kg	20	6/26/2020 9:15:05 PM

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

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

Analytical Report

Lab Order 2006B21

Date Reported: 6/29/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S-1 2'

Project: Antares 23 Fed 4H

Collection Date: 6/19/2020 11:04:00 AM

Lab ID: 2006B21-003

Matrix: SOIL

Received Date: 6/23/2020 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: CLP
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	6/24/2020 8:51:11 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/24/2020 8:51:11 AM
Surr: DNOP	117	55.1-146		%Rec	1	6/24/2020 8:51:11 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/24/2020 4:48:48 PM
Surr: BFB	102	66.6-105		%Rec	1	6/24/2020 4:48:48 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	6/24/2020 4:48:48 PM
Toluene	ND	0.049		mg/Kg	1	6/24/2020 4:48:48 PM
Ethylbenzene	ND	0.049		mg/Kg	1	6/24/2020 4:48:48 PM
Xylenes, Total	ND	0.099		mg/Kg	1	6/24/2020 4:48:48 PM
Surr: 4-Bromofluorobenzene	103	80-120		%Rec	1	6/24/2020 4:48:48 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	250	60		mg/Kg	20	6/26/2020 9:52:09 PM

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

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

Analytical Report

Lab Order 2006B21

Date Reported: 6/29/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S-1 3'

Project: Antares 23 Fed 4H

Collection Date: 6/19/2020 11:06:00 AM

Lab ID: 2006B21-004

Matrix: SOIL

Received Date: 6/23/2020 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: CLP
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	6/24/2020 9:01:04 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/24/2020 9:01:04 AM
Surr: DNOP	112	55.1-146		%Rec	1	6/24/2020 9:01:04 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/24/2020 6:23:42 PM
Surr: BFB	102	66.6-105		%Rec	1	6/24/2020 6:23:42 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	6/24/2020 6:23:42 PM
Toluene	ND	0.048		mg/Kg	1	6/24/2020 6:23:42 PM
Ethylbenzene	ND	0.048		mg/Kg	1	6/24/2020 6:23:42 PM
Xylenes, Total	ND	0.097		mg/Kg	1	6/24/2020 6:23:42 PM
Surr: 4-Bromofluorobenzene	102	80-120		%Rec	1	6/24/2020 6:23:42 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	200	60		mg/Kg	20	6/26/2020 10:04:28 PM

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

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical 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

Analytical Report

Lab Order **2006B21**

Date Reported: **6/29/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

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

Project: Antares 23 Fed 4H

Collection Date: 6/19/2020 11:08:00 AM

Lab ID: 2006B21-005

Matrix: SOIL

Received Date: 6/23/2020 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: CLP
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	6/24/2020 9:10:54 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/24/2020 9:10:54 AM
Surr: DNOP	116	55.1-146		%Rec	1	6/24/2020 9:10:54 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	6/24/2020 6:47:31 PM
Surr: BFB	101	66.6-105		%Rec	1	6/24/2020 6:47:31 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	6/24/2020 6:47:31 PM
Toluene	ND	0.046		mg/Kg	1	6/24/2020 6:47:31 PM
Ethylbenzene	ND	0.046		mg/Kg	1	6/24/2020 6:47:31 PM
Xylenes, Total	ND	0.092		mg/Kg	1	6/24/2020 6:47:31 PM
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	1	6/24/2020 6:47:31 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	810	61		mg/Kg	20	6/26/2020 10:16:49 PM

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

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

Analytical Report

Lab Order 2006B21

Date Reported: 6/29/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S-2 1'

Project: Antares 23 Fed 4H

Collection Date: 6/19/2020 11:10:00 AM

Lab ID: 2006B21-006

Matrix: SOIL

Received Date: 6/23/2020 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: CLP
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	6/24/2020 8:13:02 AM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	6/24/2020 8:13:02 AM
Surr: DNOP	92.0	55.1-146		%Rec	1	6/24/2020 8:13:02 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	6/24/2020 7:11:24 PM
Surr: BFB	101	66.6-105		%Rec	1	6/24/2020 7:11:24 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	6/24/2020 7:11:24 PM
Toluene	ND	0.046		mg/Kg	1	6/24/2020 7:11:24 PM
Ethylbenzene	ND	0.046		mg/Kg	1	6/24/2020 7:11:24 PM
Xylenes, Total	ND	0.092		mg/Kg	1	6/24/2020 7:11:24 PM
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	1	6/24/2020 7:11:24 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	160	60		mg/Kg	20	6/26/2020 10:29:09 PM

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

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

Analytical Report

Lab Order 2006B21

Date Reported: 6/29/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S-2 2'

Project: Antares 23 Fed 4H

Collection Date: 6/19/2020 11:12:00 AM

Lab ID: 2006B21-007

Matrix: SOIL

Received Date: 6/23/2020 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: CLP
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	6/24/2020 8:36:48 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/24/2020 8:36:48 AM
Surr: DNOP	91.2	55.1-146		%Rec	1	6/24/2020 8:36:48 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/24/2020 7:35:08 PM
Surr: BFB	103	66.6-105		%Rec	1	6/24/2020 7:35:08 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	6/24/2020 7:35:08 PM
Toluene	ND	0.048		mg/Kg	1	6/24/2020 7:35:08 PM
Ethylbenzene	ND	0.048		mg/Kg	1	6/24/2020 7:35:08 PM
Xylenes, Total	ND	0.096		mg/Kg	1	6/24/2020 7:35:08 PM
Surr: 4-Bromofluorobenzene	105	80-120		%Rec	1	6/24/2020 7:35:08 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	ND	60		mg/Kg	20	6/26/2020 10:41:31 PM

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

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical 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

Analytical Report

Lab Order 2006B21

Date Reported: 6/29/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S-2 3'

Project: Antares 23 Fed 4H

Collection Date: 6/19/2020 11:14:00 AM

Lab ID: 2006B21-008

Matrix: SOIL

Received Date: 6/23/2020 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: CLP
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	6/24/2020 9:00:41 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/24/2020 9:00:41 AM
Surr: DNOP	91.8	55.1-146		%Rec	1	6/24/2020 9:00:41 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/24/2020 7:58:50 PM
Surr: BFB	104	66.6-105		%Rec	1	6/24/2020 7:58:50 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	6/24/2020 7:58:50 PM
Toluene	ND	0.049		mg/Kg	1	6/24/2020 7:58:50 PM
Ethylbenzene	ND	0.049		mg/Kg	1	6/24/2020 7:58:50 PM
Xylenes, Total	ND	0.097		mg/Kg	1	6/24/2020 7:58:50 PM
Surr: 4-Bromofluorobenzene	104	80-120		%Rec	1	6/24/2020 7:58:50 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	ND	60		mg/Kg	20	6/26/2020 10:53:51 PM

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

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

Analytical Report

Lab Order 2006B21

Date Reported: 6/29/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

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

Project: Antares 23 Fed 4H

Collection Date: 6/19/2020 11:16:00 AM

Lab ID: 2006B21-009

Matrix: SOIL

Received Date: 6/23/2020 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: CLP
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	6/24/2020 9:24:36 AM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	6/24/2020 9:24:36 AM
Surr: DNOP	93.0	55.1-146		%Rec	1	6/24/2020 9:24:36 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/24/2020 8:22:30 PM
Surr: BFB	104	66.6-105		%Rec	1	6/24/2020 8:22:30 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	6/24/2020 8:22:30 PM
Toluene	ND	0.048		mg/Kg	1	6/24/2020 8:22:30 PM
Ethylbenzene	ND	0.048		mg/Kg	1	6/24/2020 8:22:30 PM
Xylenes, Total	ND	0.095		mg/Kg	1	6/24/2020 8:22:30 PM
Surr: 4-Bromofluorobenzene	105	80-120		%Rec	1	6/24/2020 8:22:30 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	ND	60		mg/Kg	20	6/26/2020 11:06:11 PM

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

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

Analytical Report

Lab Order 2006B21

Date Reported: 6/29/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S-3 1'

Project: Antares 23 Fed 4H

Collection Date: 6/19/2020 11:18:00 AM

Lab ID: 2006B21-010

Matrix: SOIL

Received Date: 6/23/2020 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: CLP
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	6/24/2020 9:48:30 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/24/2020 9:48:30 AM
Surr: DNOP	92.8	55.1-146		%Rec	1	6/24/2020 9:48:30 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/24/2020 8:46:11 PM
Surr: BFB	103	66.6-105		%Rec	1	6/24/2020 8:46:11 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	6/24/2020 8:46:11 PM
Toluene	ND	0.048		mg/Kg	1	6/24/2020 8:46:11 PM
Ethylbenzene	ND	0.048		mg/Kg	1	6/24/2020 8:46:11 PM
Xylenes, Total	ND	0.096		mg/Kg	1	6/24/2020 8:46:11 PM
Surr: 4-Bromofluorobenzene	104	80-120		%Rec	1	6/24/2020 8:46:11 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	ND	60		mg/Kg	20	6/26/2020 11:18:31 PM

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

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical 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

Analytical Report

Lab Order 2006B21

Date Reported: 6/29/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S-3 2'

Project: Antares 23 Fed 4H

Collection Date: 6/19/2020 11:20:00 AM

Lab ID: 2006B21-011

Matrix: SOIL

Received Date: 6/23/2020 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: CLP
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	6/24/2020 10:23:18 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/24/2020 10:23:18 AM
Surr: DNOP	94.3	55.1-146		%Rec	1	6/24/2020 10:23:18 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/24/2020 9:09:49 PM
Surr: BFB	104	66.6-105		%Rec	1	6/24/2020 9:09:49 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	6/24/2020 9:09:49 PM
Toluene	ND	0.050		mg/Kg	1	6/24/2020 9:09:49 PM
Ethylbenzene	ND	0.050		mg/Kg	1	6/24/2020 9:09:49 PM
Xylenes, Total	ND	0.099		mg/Kg	1	6/24/2020 9:09:49 PM
Surr: 4-Bromofluorobenzene	105	80-120		%Rec	1	6/24/2020 9:09:49 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	160	60		mg/Kg	20	6/26/2020 11:30:52 PM

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

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

Analytical Report

Lab Order 2006B21

Date Reported: 6/29/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S-3 3'

Project: Antares 23 Fed 4H

Collection Date: 6/19/2020 11:22:00 AM

Lab ID: 2006B21-012

Matrix: SOIL

Received Date: 6/23/2020 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: CLP
Diesel Range Organics (DRO)	ND	8.7		mg/Kg	1	6/24/2020 10:47:02 AM
Motor Oil Range Organics (MRO)	ND	43		mg/Kg	1	6/24/2020 10:47:02 AM
Surr: DNOP	93.7	55.1-146		%Rec	1	6/24/2020 10:47:02 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	6/24/2020 9:33:22 PM
Surr: BFB	101	66.6-105		%Rec	1	6/24/2020 9:33:22 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	6/24/2020 9:33:22 PM
Toluene	ND	0.046		mg/Kg	1	6/24/2020 9:33:22 PM
Ethylbenzene	ND	0.046		mg/Kg	1	6/24/2020 9:33:22 PM
Xylenes, Total	ND	0.092		mg/Kg	1	6/24/2020 9:33:22 PM
Surr: 4-Bromofluorobenzene	102	80-120		%Rec	1	6/24/2020 9:33:22 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	210	60		mg/Kg	20	6/26/2020 11:43:13 PM

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

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

Analytical Report

Lab Order **2006B21**

Date Reported: **6/29/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

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

Project: Antares 23 Fed 4H

Collection Date: 6/19/2020 11:26:00 AM

Lab ID: 2006B21-013

Matrix: SOIL

Received Date: 6/23/2020 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: CLP
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	6/24/2020 11:10:59 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/24/2020 11:10:59 AM
Surr: DNOP	97.0	55.1-146		%Rec	1	6/24/2020 11:10:59 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/24/2020 9:56:54 PM
Surr: BFB	101	66.6-105		%Rec	1	6/24/2020 9:56:54 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	6/24/2020 9:56:54 PM
Toluene	ND	0.049		mg/Kg	1	6/24/2020 9:56:54 PM
Ethylbenzene	ND	0.049		mg/Kg	1	6/24/2020 9:56:54 PM
Xylenes, Total	ND	0.098		mg/Kg	1	6/24/2020 9:56:54 PM
Surr: 4-Bromofluorobenzene	103	80-120		%Rec	1	6/24/2020 9:56:54 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	ND	60		mg/Kg	20	6/27/2020 12:20:14 AM

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

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

Analytical Report

Lab Order **2006B21**

Date Reported: **6/29/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S-4 1'

Project: Antares 23 Fed 4H

Collection Date: 6/19/2020 11:28:00 AM

Lab ID: 2006B21-014

Matrix: SOIL

Received Date: 6/23/2020 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: CLP
Diesel Range Organics (DRO)	ND	8.6		mg/Kg	1	6/24/2020 11:35:05 AM
Motor Oil Range Organics (MRO)	ND	43		mg/Kg	1	6/24/2020 11:35:05 AM
Surr: DNOP	96.5	55.1-146		%Rec	1	6/24/2020 11:35:05 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/24/2020 11:07:21 PM
Surr: BFB	95.3	66.6-105		%Rec	1	6/24/2020 11:07:21 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	6/24/2020 11:07:21 PM
Toluene	ND	0.048		mg/Kg	1	6/24/2020 11:07:21 PM
Ethylbenzene	ND	0.048		mg/Kg	1	6/24/2020 11:07:21 PM
Xylenes, Total	ND	0.096		mg/Kg	1	6/24/2020 11:07:21 PM
Surr: 4-Bromofluorobenzene	97.3	80-120		%Rec	1	6/24/2020 11:07:21 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	ND	60		mg/Kg	20	6/27/2020 12:32:35 AM

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

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

Analytical Report

Lab Order **2006B21**

Date Reported: **6/29/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S-4 2'

Project: Antares 23 Fed 4H

Collection Date: 6/19/2020 11:30:00 AM

Lab ID: 2006B21-015

Matrix: SOIL

Received Date: 6/23/2020 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: CLP
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	6/24/2020 11:59:11 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/24/2020 11:59:11 AM
Surr: DNOP	89.2	55.1-146		%Rec	1	6/24/2020 11:59:11 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	6/24/2020 11:30:59 PM
Surr: BFB	99.5	66.6-105		%Rec	1	6/24/2020 11:30:59 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	6/24/2020 11:30:59 PM
Toluene	ND	0.046		mg/Kg	1	6/24/2020 11:30:59 PM
Ethylbenzene	ND	0.046		mg/Kg	1	6/24/2020 11:30:59 PM
Xylenes, Total	ND	0.092		mg/Kg	1	6/24/2020 11:30:59 PM
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	1	6/24/2020 11:30:59 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	ND	60		mg/Kg	20	6/27/2020 12:44:56 AM

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

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

Analytical Report

Lab Order **2006B21**

Date Reported: **6/29/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S-4 3'

Project: Antares 23 Fed 4H

Collection Date: 6/19/2020 11:32:00 AM

Lab ID: 2006B21-016

Matrix: SOIL

Received Date: 6/23/2020 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: CLP
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	6/24/2020 10:58:48 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/24/2020 10:58:48 AM
Surr: DNOP	108	55.1-146		%Rec	1	6/24/2020 10:58:48 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/24/2020 11:54:23 PM
Surr: BFB	98.5	66.6-105		%Rec	1	6/24/2020 11:54:23 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	6/24/2020 11:54:23 PM
Toluene	ND	0.049		mg/Kg	1	6/24/2020 11:54:23 PM
Ethylbenzene	ND	0.049		mg/Kg	1	6/24/2020 11:54:23 PM
Xylenes, Total	ND	0.098		mg/Kg	1	6/24/2020 11:54:23 PM
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	1	6/24/2020 11:54:23 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	ND	60		mg/Kg	20	6/27/2020 12:57:17 AM

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

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

Analytical Report

Lab Order **2006B21**

Date Reported: **6/29/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

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

Project: Antares 23 Fed 4H

Collection Date: 6/19/2020 11:34:00 AM

Lab ID: 2006B21-017

Matrix: SOIL

Received Date: 6/23/2020 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: CLP
Diesel Range Organics (DRO)	300	98		mg/Kg	10	6/24/2020 11:08:50 AM
Motor Oil Range Organics (MRO)	950	490		mg/Kg	10	6/24/2020 11:08:50 AM
Surr: DNOP	0	55.1-146	S	%Rec	10	6/24/2020 11:08:50 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	6/25/2020 12:17:53 AM
Surr: BFB	100	66.6-105		%Rec	1	6/25/2020 12:17:53 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	6/25/2020 12:17:53 AM
Toluene	ND	0.047		mg/Kg	1	6/25/2020 12:17:53 AM
Ethylbenzene	ND	0.047		mg/Kg	1	6/25/2020 12:17:53 AM
Xylenes, Total	ND	0.095		mg/Kg	1	6/25/2020 12:17:53 AM
Surr: 4-Bromofluorobenzene	102	80-120		%Rec	1	6/25/2020 12:17:53 AM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	78	60		mg/Kg	20	6/27/2020 1:09:38 AM

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

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

Analytical Report

Lab Order **2006B21**

Date Reported: **6/29/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S-5 1'

Project: Antares 23 Fed 4H

Collection Date: 6/19/2020 11:36:00 AM

Lab ID: 2006B21-018

Matrix: SOIL

Received Date: 6/23/2020 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: BRM
Diesel Range Organics (DRO)	120	97		mg/Kg	10	6/26/2020 5:34:44 PM
Motor Oil Range Organics (MRO)	500	490		mg/Kg	10	6/26/2020 5:34:44 PM
Surr: DNOP	0	55.1-146	S	%Rec	10	6/26/2020 5:34:44 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	130	59		mg/Kg	20	6/27/2020 1:21:59 AM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: JMR
Benzene	ND	0.025		mg/Kg	1	6/24/2020 1:00:21 PM
Toluene	ND	0.049		mg/Kg	1	6/24/2020 1:00:21 PM
Ethylbenzene	ND	0.049		mg/Kg	1	6/24/2020 1:00:21 PM
Xylenes, Total	ND	0.099		mg/Kg	1	6/24/2020 1:00:21 PM
Surr: 1,2-Dichloroethane-d4	110	70-130		%Rec	1	6/24/2020 1:00:21 PM
Surr: 4-Bromofluorobenzene	96.3	70-130		%Rec	1	6/24/2020 1:00:21 PM
Surr: Dibromofluoromethane	106	70-130		%Rec	1	6/24/2020 1:00:21 PM
Surr: Toluene-d8	107	70-130		%Rec	1	6/24/2020 1:00:21 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: JMR
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/24/2020 1:00:21 PM
Surr: BFB	101	70-130		%Rec	1	6/24/2020 1:00:21 PM

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

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

Analytical Report

Lab Order **2006B21**

Date Reported: **6/29/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S-5 2'

Project: Antares 23 Fed 4H

Collection Date: 6/19/2020 11:38:00 AM

Lab ID: 2006B21-019

Matrix: SOIL

Received Date: 6/23/2020 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: BRM
Diesel Range Organics (DRO)	75	9.8		mg/Kg	1	6/27/2020 1:27:22 PM
Motor Oil Range Organics (MRO)	200	49		mg/Kg	1	6/27/2020 1:27:22 PM
Surr: DNOP	114	55.1-146		%Rec	1	6/27/2020 1:27:22 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	150	60		mg/Kg	20	6/27/2020 1:59:00 AM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: DJF
Benzene	ND	0.024		mg/Kg	1	6/25/2020 3:37:09 PM
Toluene	ND	0.049		mg/Kg	1	6/25/2020 3:37:09 PM
Ethylbenzene	ND	0.049		mg/Kg	1	6/25/2020 3:37:09 PM
Xylenes, Total	ND	0.098		mg/Kg	1	6/25/2020 3:37:09 PM
Surr: 1,2-Dichloroethane-d4	115	70-130		%Rec	1	6/25/2020 3:37:09 PM
Surr: 4-Bromofluorobenzene	97.5	70-130		%Rec	1	6/25/2020 3:37:09 PM
Surr: Dibromofluoromethane	116	70-130		%Rec	1	6/25/2020 3:37:09 PM
Surr: Toluene-d8	107	70-130		%Rec	1	6/25/2020 3:37:09 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/25/2020 3:37:09 PM
Surr: BFB	101	70-130		%Rec	1	6/25/2020 3:37:09 PM

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

Qualifiers:

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

Analytical Report

Lab Order **2006B21**

Date Reported: **6/29/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S-5 3"

Project: Antares 23 Fed 4H

Collection Date: 6/19/2020 11:40:00 AM

Lab ID: 2006B21-020

Matrix: SOIL

Received Date: 6/23/2020 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: BRM
Diesel Range Organics (DRO)	17	9.6		mg/Kg	1	6/26/2020 5:55:57 PM
Motor Oil Range Organics (MRO)	65	48		mg/Kg	1	6/26/2020 5:55:57 PM
Surr: DNOP	105	55.1-146		%Rec	1	6/26/2020 5:55:57 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	94	60		mg/Kg	20	6/27/2020 3:00:43 AM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: JMR
Benzene	ND	0.024		mg/Kg	1	6/24/2020 3:52:29 PM
Toluene	ND	0.048		mg/Kg	1	6/24/2020 3:52:29 PM
Ethylbenzene	ND	0.048		mg/Kg	1	6/24/2020 3:52:29 PM
Xylenes, Total	ND	0.097		mg/Kg	1	6/24/2020 3:52:29 PM
Surr: 1,2-Dichloroethane-d4	110	70-130		%Rec	1	6/24/2020 3:52:29 PM
Surr: 4-Bromofluorobenzene	94.8	70-130		%Rec	1	6/24/2020 3:52:29 PM
Surr: Dibromofluoromethane	110	70-130		%Rec	1	6/24/2020 3:52:29 PM
Surr: Toluene-d8	105	70-130		%Rec	1	6/24/2020 3:52:29 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: JMR
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/24/2020 3:52:29 PM
Surr: BFB	98.5	70-130		%Rec	1	6/24/2020 3:52:29 PM

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

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

Analytical Report

Lab Order **2006B21**

Date Reported: **6/29/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

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

Project: Antares 23 Fed 4H

Collection Date: 6/19/2020 11:42:00 AM

Lab ID: 2006B21-021

Matrix: SOIL

Received Date: 6/23/2020 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: BRM
Diesel Range Organics (DRO)	590	94		mg/Kg	10	6/26/2020 6:06:36 PM
Motor Oil Range Organics (MRO)	1300	470		mg/Kg	10	6/26/2020 6:06:36 PM
Surr: DNOP	0	55.1-146	S	%Rec	10	6/26/2020 6:06:36 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	78	60		mg/Kg	20	6/27/2020 3:13:03 AM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: JMR
Benzene	ND	0.024		mg/Kg	1	6/24/2020 4:21:13 PM
Toluene	ND	0.048		mg/Kg	1	6/24/2020 4:21:13 PM
Ethylbenzene	ND	0.048		mg/Kg	1	6/24/2020 4:21:13 PM
Xylenes, Total	ND	0.096		mg/Kg	1	6/24/2020 4:21:13 PM
Surr: 1,2-Dichloroethane-d4	109	70-130		%Rec	1	6/24/2020 4:21:13 PM
Surr: 4-Bromofluorobenzene	97.1	70-130		%Rec	1	6/24/2020 4:21:13 PM
Surr: Dibromofluoromethane	112	70-130		%Rec	1	6/24/2020 4:21:13 PM
Surr: Toluene-d8	105	70-130		%Rec	1	6/24/2020 4:21:13 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: JMR
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/24/2020 4:21:13 PM
Surr: BFB	101	70-130		%Rec	1	6/24/2020 4:21:13 PM

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

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

Analytical Report

Lab Order 2006B21

Date Reported: 6/29/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S-6 1'

Project: Antares 23 Fed 4H

Collection Date: 6/19/2020 11:44:00 AM

Lab ID: 2006B21-022

Matrix: SOIL

Received Date: 6/23/2020 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: BRM
Diesel Range Organics (DRO)	340	100		mg/Kg	10	6/26/2020 6:17:17 PM
Motor Oil Range Organics (MRO)	1000	500		mg/Kg	10	6/26/2020 6:17:17 PM
Surr: DNOP	0	55.1-146	S	%Rec	10	6/26/2020 6:17:17 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	130	60		mg/Kg	20	6/27/2020 3:25:23 AM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: JMR
Benzene	ND	0.024		mg/Kg	1	6/24/2020 4:50:05 PM
Toluene	ND	0.048		mg/Kg	1	6/24/2020 4:50:05 PM
Ethylbenzene	ND	0.048		mg/Kg	1	6/24/2020 4:50:05 PM
Xylenes, Total	ND	0.097		mg/Kg	1	6/24/2020 4:50:05 PM
Surr: 1,2-Dichloroethane-d4	113	70-130		%Rec	1	6/24/2020 4:50:05 PM
Surr: 4-Bromofluorobenzene	98.9	70-130		%Rec	1	6/24/2020 4:50:05 PM
Surr: Dibromofluoromethane	115	70-130		%Rec	1	6/24/2020 4:50:05 PM
Surr: Toluene-d8	103	70-130		%Rec	1	6/24/2020 4:50:05 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: JMR
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/24/2020 4:50:05 PM
Surr: BFB	95.3	70-130		%Rec	1	6/24/2020 4:50:05 PM

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

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

Analytical Report

Lab Order **2006B21**

Date Reported: **6/29/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S-6 2'

Project: Antares 23 Fed 4H

Collection Date: 6/19/2020 11:46:00 AM

Lab ID: 2006B21-023

Matrix: SOIL

Received Date: 6/23/2020 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: BRM
Diesel Range Organics (DRO)	55	9.2		mg/Kg	1	6/26/2020 6:27:49 PM
Motor Oil Range Organics (MRO)	80	46		mg/Kg	1	6/26/2020 6:27:49 PM
Surr: DNOP	106	55.1-146		%Rec	1	6/26/2020 6:27:49 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	79	60		mg/Kg	20	6/27/2020 3:37:43 AM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: JMR
Benzene	ND	0.024		mg/Kg	1	6/24/2020 5:18:51 PM
Toluene	ND	0.048		mg/Kg	1	6/24/2020 5:18:51 PM
Ethylbenzene	ND	0.048		mg/Kg	1	6/24/2020 5:18:51 PM
Xylenes, Total	ND	0.097		mg/Kg	1	6/24/2020 5:18:51 PM
Surr: 1,2-Dichloroethane-d4	103	70-130		%Rec	1	6/24/2020 5:18:51 PM
Surr: 4-Bromofluorobenzene	95.6	70-130		%Rec	1	6/24/2020 5:18:51 PM
Surr: Dibromofluoromethane	110	70-130		%Rec	1	6/24/2020 5:18:51 PM
Surr: Toluene-d8	104	70-130		%Rec	1	6/24/2020 5:18:51 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: JMR
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/24/2020 5:18:51 PM
Surr: BFB	98.0	70-130		%Rec	1	6/24/2020 5:18:51 PM

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

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

Analytical Report

Lab Order **2006B21**

Date Reported: **6/29/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S-6 3"

Project: Antares 23 Fed 4H

Collection Date: 6/19/2020 11:48:00 AM

Lab ID: 2006B21-024

Matrix: SOIL

Received Date: 6/23/2020 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: BRM
Diesel Range Organics (DRO)	28	9.6		mg/Kg	1	6/26/2020 6:38:23 PM
Motor Oil Range Organics (MRO)	58	48		mg/Kg	1	6/26/2020 6:38:23 PM
Surr: DNOP	125	55.1-146		%Rec	1	6/26/2020 6:38:23 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	86	60		mg/Kg	20	6/27/2020 3:50:02 AM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: JMR
Benzene	ND	0.024		mg/Kg	1	6/24/2020 5:47:35 PM
Toluene	ND	0.048		mg/Kg	1	6/24/2020 5:47:35 PM
Ethylbenzene	ND	0.048		mg/Kg	1	6/24/2020 5:47:35 PM
Xylenes, Total	ND	0.096		mg/Kg	1	6/24/2020 5:47:35 PM
Surr: 1,2-Dichloroethane-d4	109	70-130		%Rec	1	6/24/2020 5:47:35 PM
Surr: 4-Bromofluorobenzene	96.0	70-130		%Rec	1	6/24/2020 5:47:35 PM
Surr: Dibromofluoromethane	110	70-130		%Rec	1	6/24/2020 5:47:35 PM
Surr: Toluene-d8	108	70-130		%Rec	1	6/24/2020 5:47:35 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: JMR
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/24/2020 5:47:35 PM
Surr: BFB	96.9	70-130		%Rec	1	6/24/2020 5:47:35 PM

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

Qualifiers:

* Value exceeds Maximum Contaminant Level.
 D Sample Diluted Due to Matrix
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 PQL Practical 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

Analytical Report

Lab Order **2006B21**

Date Reported: **6/29/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: BG-1

Project: Antares 23 Fed 4H

Collection Date: 6/19/2020 1:30:00 PM

Lab ID: 2006B21-025

Matrix: SOIL

Received Date: 6/23/2020 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: BRM
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	6/26/2020 6:48:48 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/26/2020 6:48:48 PM
Surr: DNOP	95.2	55.1-146		%Rec	1	6/26/2020 6:48:48 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	400	60		mg/Kg	20	6/27/2020 4:02:23 AM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: JMR
Benzene	ND	0.023		mg/Kg	1	6/24/2020 6:16:18 PM
Toluene	ND	0.046		mg/Kg	1	6/24/2020 6:16:18 PM
Ethylbenzene	ND	0.046		mg/Kg	1	6/24/2020 6:16:18 PM
Xylenes, Total	ND	0.092		mg/Kg	1	6/24/2020 6:16:18 PM
Surr: 1,2-Dichloroethane-d4	109	70-130		%Rec	1	6/24/2020 6:16:18 PM
Surr: 4-Bromofluorobenzene	97.2	70-130		%Rec	1	6/24/2020 6:16:18 PM
Surr: Dibromofluoromethane	115	70-130		%Rec	1	6/24/2020 6:16:18 PM
Surr: Toluene-d8	101	70-130		%Rec	1	6/24/2020 6:16:18 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: JMR
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	6/24/2020 6:16:18 PM
Surr: BFB	97.6	70-130		%Rec	1	6/24/2020 6:16:18 PM

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

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

Analytical Report

Lab Order **2006B21**

Date Reported: **6/29/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: BG-2

Project: Antares 23 Fed 4H

Collection Date: 6/19/2020 1:32:00 PM

Lab ID: 2006B21-026

Matrix: SOIL

Received Date: 6/23/2020 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: BRM
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	6/26/2020 6:59:19 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/26/2020 6:59:19 PM
Surr: DNOP	92.4	55.1-146		%Rec	1	6/26/2020 6:59:19 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	ND	60		mg/Kg	20	6/27/2020 4:14:44 AM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: JMR
Benzene	ND	0.025		mg/Kg	1	6/24/2020 6:45:04 PM
Toluene	ND	0.049		mg/Kg	1	6/24/2020 6:45:04 PM
Ethylbenzene	ND	0.049		mg/Kg	1	6/24/2020 6:45:04 PM
Xylenes, Total	ND	0.099		mg/Kg	1	6/24/2020 6:45:04 PM
Surr: 1,2-Dichloroethane-d4	104	70-130		%Rec	1	6/24/2020 6:45:04 PM
Surr: 4-Bromofluorobenzene	92.1	70-130		%Rec	1	6/24/2020 6:45:04 PM
Surr: Dibromofluoromethane	110	70-130		%Rec	1	6/24/2020 6:45:04 PM
Surr: Toluene-d8	104	70-130		%Rec	1	6/24/2020 6:45:04 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: JMR
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/24/2020 6:45:04 PM
Surr: BFB	97.7	70-130		%Rec	1	6/24/2020 6:45:04 PM

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

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

Analytical Report

Lab Order **2006B21**

Date Reported: **6/29/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: BG-3

Project: Antares 23 Fed 4H

Collection Date: 6/19/2020 1:34:00 PM

Lab ID: 2006B21-027

Matrix: SOIL

Received Date: 6/23/2020 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: BRM
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	6/26/2020 7:09:45 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/26/2020 7:09:45 PM
Surr: DNOP	85.6	55.1-146		%Rec	1	6/26/2020 7:09:45 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	ND	60		mg/Kg	20	6/27/2020 4:27:06 AM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: JMR
Benzene	ND	0.025		mg/Kg	1	6/24/2020 7:13:51 PM
Toluene	ND	0.049		mg/Kg	1	6/24/2020 7:13:51 PM
Ethylbenzene	ND	0.049		mg/Kg	1	6/24/2020 7:13:51 PM
Xylenes, Total	ND	0.098		mg/Kg	1	6/24/2020 7:13:51 PM
Surr: 1,2-Dichloroethane-d4	112	70-130		%Rec	1	6/24/2020 7:13:51 PM
Surr: 4-Bromofluorobenzene	96.7	70-130		%Rec	1	6/24/2020 7:13:51 PM
Surr: Dibromofluoromethane	118	70-130		%Rec	1	6/24/2020 7:13:51 PM
Surr: Toluene-d8	102	70-130		%Rec	1	6/24/2020 7:13:51 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: JMR
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/24/2020 7:13:51 PM
Surr: BFB	97.5	70-130		%Rec	1	6/24/2020 7:13:51 PM

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

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

Analytical Report

Lab Order **2006B21**

Date Reported: **6/29/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: BG-4

Project: Antares 23 Fed 4H

Collection Date: 6/19/2020 1:36:00 PM

Lab ID: 2006B21-028

Matrix: SOIL

Received Date: 6/23/2020 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: BRM
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	6/26/2020 7:20:12 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/26/2020 7:20:12 PM
Surr: DNOP	94.3	55.1-146		%Rec	1	6/26/2020 7:20:12 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	ND	60		mg/Kg	20	6/27/2020 5:04:09 AM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: JMR
Benzene	ND	0.025		mg/Kg	1	6/24/2020 7:42:37 PM
Toluene	ND	0.049		mg/Kg	1	6/24/2020 7:42:37 PM
Ethylbenzene	ND	0.049		mg/Kg	1	6/24/2020 7:42:37 PM
Xylenes, Total	ND	0.099		mg/Kg	1	6/24/2020 7:42:37 PM
Surr: 1,2-Dichloroethane-d4	112	70-130		%Rec	1	6/24/2020 7:42:37 PM
Surr: 4-Bromofluorobenzene	94.6	70-130		%Rec	1	6/24/2020 7:42:37 PM
Surr: Dibromofluoromethane	117	70-130		%Rec	1	6/24/2020 7:42:37 PM
Surr: Toluene-d8	104	70-130		%Rec	1	6/24/2020 7:42:37 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: JMR
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/24/2020 7:42:37 PM
Surr: BFB	94.4	70-130		%Rec	1	6/24/2020 7:42:37 PM

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

Qualifiers:	* Value exceeds Maximum Contaminant Level.	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 **2006B21**

Date Reported: **6/29/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: BG-5

Project: Antares 23 Fed 4H

Collection Date: 6/19/2020 1:38:00 PM

Lab ID: 2006B21-029

Matrix: SOIL

Received Date: 6/23/2020 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: BRM
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	6/26/2020 7:30:34 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/26/2020 7:30:34 PM
Surr: DNOP	93.0	55.1-146		%Rec	1	6/26/2020 7:30:34 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	ND	60		mg/Kg	20	6/27/2020 5:16:30 AM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: JMR
Benzene	ND	0.025		mg/Kg	1	6/24/2020 8:11:19 PM
Toluene	ND	0.050		mg/Kg	1	6/24/2020 8:11:19 PM
Ethylbenzene	ND	0.050		mg/Kg	1	6/24/2020 8:11:19 PM
Xylenes, Total	ND	0.099		mg/Kg	1	6/24/2020 8:11:19 PM
Surr: 1,2-Dichloroethane-d4	107	70-130		%Rec	1	6/24/2020 8:11:19 PM
Surr: 4-Bromofluorobenzene	92.3	70-130		%Rec	1	6/24/2020 8:11:19 PM
Surr: Dibromofluoromethane	113	70-130		%Rec	1	6/24/2020 8:11:19 PM
Surr: Toluene-d8	100	70-130		%Rec	1	6/24/2020 8:11:19 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: JMR
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/24/2020 8:11:19 PM
Surr: BFB	94.3	70-130		%Rec	1	6/24/2020 8:11:19 PM

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

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

Analytical Report

Lab Order **2006B21**

Date Reported: **6/29/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: BG-6

Project: Antares 23 Fed 4H

Collection Date: 6/19/2020 1:40:00 PM

Lab ID: 2006B21-030

Matrix: SOIL

Received Date: 6/23/2020 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: BRM
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	6/26/2020 7:40:58 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/26/2020 7:40:58 PM
Surr: DNOP	85.2	55.1-146		%Rec	1	6/26/2020 7:40:58 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	ND	60		mg/Kg	20	6/27/2020 5:28:50 AM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: JMR
Benzene	ND	0.023		mg/Kg	1	6/24/2020 8:40:00 PM
Toluene	ND	0.047		mg/Kg	1	6/24/2020 8:40:00 PM
Ethylbenzene	ND	0.047		mg/Kg	1	6/24/2020 8:40:00 PM
Xylenes, Total	ND	0.094		mg/Kg	1	6/24/2020 8:40:00 PM
Surr: 1,2-Dichloroethane-d4	113	70-130		%Rec	1	6/24/2020 8:40:00 PM
Surr: 4-Bromofluorobenzene	96.3	70-130		%Rec	1	6/24/2020 8:40:00 PM
Surr: Dibromofluoromethane	113	70-130		%Rec	1	6/24/2020 8:40:00 PM
Surr: Toluene-d8	103	70-130		%Rec	1	6/24/2020 8:40:00 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: JMR
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	6/24/2020 8:40:00 PM
Surr: BFB	95.6	70-130		%Rec	1	6/24/2020 8:40:00 PM

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

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

Analytical Report

Lab Order **2006B21**

Date Reported: **6/29/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: BG-7

Project: Antares 23 Fed 4H

Collection Date: 6/19/2020 1:42:00 PM

Lab ID: 2006B21-031

Matrix: SOIL

Received Date: 6/23/2020 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: BRM
Diesel Range Organics (DRO)	64	9.5		mg/Kg	1	6/26/2020 7:51:17 PM
Motor Oil Range Organics (MRO)	830	47		mg/Kg	1	6/26/2020 7:51:17 PM
Surr: DNOP	134	55.1-146		%Rec	1	6/26/2020 7:51:17 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	1600	59		mg/Kg	20	6/27/2020 5:41:10 AM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: JMR
Benzene	ND	0.025		mg/Kg	1	6/24/2020 9:08:44 PM
Toluene	ND	0.049		mg/Kg	1	6/24/2020 9:08:44 PM
Ethylbenzene	ND	0.049		mg/Kg	1	6/24/2020 9:08:44 PM
Xylenes, Total	ND	0.098		mg/Kg	1	6/24/2020 9:08:44 PM
Surr: 1,2-Dichloroethane-d4	112	70-130		%Rec	1	6/24/2020 9:08:44 PM
Surr: 4-Bromofluorobenzene	90.3	70-130		%Rec	1	6/24/2020 9:08:44 PM
Surr: Dibromofluoromethane	112	70-130		%Rec	1	6/24/2020 9:08:44 PM
Surr: Toluene-d8	102	70-130		%Rec	1	6/24/2020 9:08:44 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: JMR
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/24/2020 9:08:44 PM
Surr: BFB	93.2	70-130		%Rec	1	6/24/2020 9:08:44 PM

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

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

Analytical Report

Lab Order **2006B21**

Date Reported: **6/29/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: BG-8

Project: Antares 23 Fed 4H

Collection Date: 6/19/2020 1:44:00 PM

Lab ID: 2006B21-032

Matrix: SOIL

Received Date: 6/23/2020 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: BRM
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	6/27/2020 1:47:35 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/27/2020 1:47:35 PM
Surr: DNOP	83.8	55.1-146		%Rec	1	6/27/2020 1:47:35 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	540	60		mg/Kg	20	6/27/2020 5:53:31 AM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: JMR
Benzene	ND	0.023		mg/Kg	1	6/24/2020 9:37:22 PM
Toluene	ND	0.046		mg/Kg	1	6/24/2020 9:37:22 PM
Ethylbenzene	ND	0.046		mg/Kg	1	6/24/2020 9:37:22 PM
Xylenes, Total	ND	0.092		mg/Kg	1	6/24/2020 9:37:22 PM
Surr: 1,2-Dichloroethane-d4	110	70-130		%Rec	1	6/24/2020 9:37:22 PM
Surr: 4-Bromofluorobenzene	96.6	70-130		%Rec	1	6/24/2020 9:37:22 PM
Surr: Dibromofluoromethane	105	70-130		%Rec	1	6/24/2020 9:37:22 PM
Surr: Toluene-d8	106	70-130		%Rec	1	6/24/2020 9:37:22 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: JMR
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	6/24/2020 9:37:22 PM
Surr: BFB	98.9	70-130		%Rec	1	6/24/2020 9:37:22 PM

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2006B21

29-Jun-20

Client: Pima Environmental Services LLC

Project: Antares 23 Fed 4H

Sample ID: MB-53340	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 53340	RunNo: 69932								
Prep Date: 6/26/2020	Analysis Date: 6/26/2020	SeqNo: 2429403	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-53340	SampType: ics	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 53340	RunNo: 69932								
Prep Date: 6/26/2020	Analysis Date: 6/26/2020	SeqNo: 2429404	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.9	90	110			

Sample ID: MB-53346	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 53346	RunNo: 69932								
Prep Date: 6/26/2020	Analysis Date: 6/27/2020	SeqNo: 2429433	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-53346	SampType: ics	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 53346	RunNo: 69932								
Prep Date: 6/26/2020	Analysis Date: 6/27/2020	SeqNo: 2429434	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.7	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

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

WO#: 2006B21

29-Jun-20

Client: Pima Environmental Services LLC**Project:** Antares 23 Fed 4H

Sample ID: MB-53252	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 53252	RunNo: 69847								
Prep Date: 6/23/2020	Analysis Date: 6/24/2020	SeqNo: 2425698	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	13		10.00		126	55.1	146			

Sample ID: LCS-53252	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 53252	RunNo: 69847								
Prep Date: 6/23/2020	Analysis Date: 6/24/2020	SeqNo: 2425699	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	10	50.00	0	96.5	70	130			
Surr: DNOP	5.3		5.000		105	55.1	146			

Sample ID: LCS-53331	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 53331	RunNo: 69928								
Prep Date: 6/26/2020	Analysis Date: 6/26/2020	SeqNo: 2428773	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.7		5.000		115	55.1	146			

Sample ID: MB-53331	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 53331	RunNo: 69928								
Prep Date: 6/26/2020	Analysis Date: 6/26/2020	SeqNo: 2428775	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	14		10.00		145	55.1	146			

Sample ID: LCS-53272	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 53272	RunNo: 69928								
Prep Date: 6/24/2020	Analysis Date: 6/26/2020	SeqNo: 2429058	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	51	10	50.00	0	101	70	130			
Surr: DNOP	4.8		5.000		95.2	55.1	146			

Sample ID: MB-53272	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 53272	RunNo: 69928								
Prep Date: 6/24/2020	Analysis Date: 6/26/2020	SeqNo: 2429060	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								

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#: 2006B21

29-Jun-20

Client: Pima Environmental Services LLC

Project: Antares 23 Fed 4H

Sample ID: MB-53272	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 53272	RunNo: 69928								
Prep Date: 6/24/2020	Analysis Date: 6/26/2020	SeqNo: 2429060	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10		10.00		103	55.1	146			

Sample ID: LCS-53344	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 53344	RunNo: 69949								
Prep Date: 6/26/2020	Analysis Date: 6/27/2020	SeqNo: 2429356	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.2		5.000		105	55.1	146			

Sample ID: MB-53344	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 53344	RunNo: 69949								
Prep Date: 6/26/2020	Analysis Date: 6/27/2020	SeqNo: 2429357	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	11		10.00		110	55.1	146			

Sample ID: LCS-53347	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 53347	RunNo: 69949								
Prep Date: 6/26/2020	Analysis Date: 6/27/2020	SeqNo: 2429760	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.8		5.000		116	55.1	146			

Sample ID: LCS-53351	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 53351	RunNo: 69949								
Prep Date: 6/27/2020	Analysis Date: 6/27/2020	SeqNo: 2429761	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.8		5.000		95.5	55.1	146			

Sample ID: LCS-53354	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 53354	RunNo: 69949								
Prep Date: 6/27/2020	Analysis Date: 6/27/2020	SeqNo: 2429762	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.4		5.000		88.7	55.1	146			

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#: 2006B21

29-Jun-20

Client: Pima Environmental Services LLC

Project: Antares 23 Fed 4H

Sample ID: MB-53347	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 53347		RunNo: 69949							
Prep Date: 6/26/2020	Analysis Date: 6/27/2020		SeqNo: 2429763				Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	12		10.00		118	55.1	146			

Sample ID: MB-53351	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 53351		RunNo: 69949							
Prep Date: 6/27/2020	Analysis Date: 6/27/2020		SeqNo: 2429764				Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	8.5		10.00		85.2	55.1	146			

Sample ID: MB-53354	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 53354		RunNo: 69949							
Prep Date: 6/27/2020	Analysis Date: 6/27/2020		SeqNo: 2429765				Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	8.3		10.00		83.3	55.1	146			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2006B21

29-Jun-20

Client: Pima Environmental Services LLC

Project: Antares 23 Fed 4H

Sample ID: mb-53249	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 53249	RunNo: 69855								
Prep Date: 6/23/2020	Analysis Date: 6/24/2020	SeqNo: 2426470	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	1000		1000		102	66.6	105			

Sample ID: lcs-53249	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 53249	RunNo: 69855								
Prep Date: 6/23/2020	Analysis Date: 6/24/2020	SeqNo: 2426471	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	25.00	0	88.3	80	120			
Surr: BFB	1100		1000		112	66.6	105			S

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2006B21

29-Jun-20

Client: Pima Environmental Services LLC

Project: Antares 23 Fed 4H

Sample ID: mb-53249	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 53249	RunNo: 69855								
Prep Date: 6/23/2020	Analysis Date: 6/24/2020	SeqNo: 2426506	Units: mg/Kg							
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	1.0		1.000		102	80	120			

Sample ID: LCS-53249	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 53249	RunNo: 69855								
Prep Date: 6/23/2020	Analysis Date: 6/24/2020	SeqNo: 2426507	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.025	1.000	0	93.6	80	120			
Toluene	0.95	0.050	1.000	0	95.4	80	120			
Ethylbenzene	0.96	0.050	1.000	0	96.1	80	120			
Xylenes, Total	2.9	0.10	3.000	0	97.2	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		105	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

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

WO#: 2006B21

29-Jun-20

Client: Pima Environmental Services LLC**Project:** Antares 23 Fed 4H

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sample ID: mb-53254 SampType: MBLK TestCode: EPA Method 8260B: Volatiles Short List										
Client ID: PBS Batch ID: 53254 RunNo: 69880										
Prep Date: 6/23/2020 Analysis Date: 6/24/2020 SeqNo: 2426690 Units: mg/Kg										
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 1,2-Dichloroethane-d4	0.56		0.5000		113	70	130			
Surr: 4-Bromofluorobenzene	0.46		0.5000		92.9	70	130			
Surr: Dibromofluoromethane	0.54		0.5000		108	70	130			
Surr: Toluene-d8	0.52		0.5000		105	70	130			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sample ID: ics-53254 SampType: LCS4 TestCode: EPA Method 8260B: Volatiles Short List										
Client ID: BatchQC Batch ID: 53254 RunNo: 69880										
Prep Date: 6/23/2020 Analysis Date: 6/24/2020 SeqNo: 2426694 Units: mg/Kg										
Benzene	1.1	0.025	1.000	0	109	80	120			
Toluene	0.96	0.050	1.000	0	96.3	80	120			
Ethylbenzene	1.0	0.050	1.000	0	103	80	120			
Xylenes, Total	3.1	0.10	3.000	0	104	80	120			
Surr: 1,2-Dichloroethane-d4	0.51		0.5000		103	70	130			
Surr: 4-Bromofluorobenzene	0.49		0.5000		97.6	70	130			
Surr: Dibromofluoromethane	0.54		0.5000		108	70	130			
Surr: Toluene-d8	0.52		0.5000		104	70	130			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sample ID: 2006b21-018ams SampType: MS4 TestCode: EPA Method 8260B: Volatiles Short List										
Client ID: S-5 1' Batch ID: 53254 RunNo: 69880										
Prep Date: 6/23/2020 Analysis Date: 6/24/2020 SeqNo: 2426698 Units: mg/Kg										
Benzene	1.2	0.025	0.9970	0	124	71.1	115			S
Toluene	1.1	0.050	0.9970	0	108	79.6	132			
Ethylbenzene	1.1	0.050	0.9970	0	114	83.8	134			
Xylenes, Total	3.5	0.10	2.991	0	116	82.4	132			
Surr: 1,2-Dichloroethane-d4	0.58		0.4985		117	70	130			
Surr: 4-Bromofluorobenzene	0.48		0.4985		95.7	70	130			
Surr: Dibromofluoromethane	0.56		0.4985		112	70	130			
Surr: Toluene-d8	0.53		0.4985		106	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

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

WO#: 2006B21

29-Jun-20

Client: Pima Environmental Services LLC**Project:** Antares 23 Fed 4H

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.2	0.025	0.9970	0	124	71.1	115	0.0259	20	S
Toluene	1.1	0.050	0.9970	0	106	79.6	132	2.42	20	
Ethylbenzene	1.1	0.050	0.9970	0	108	83.8	134	4.93	20	
Xylenes, Total	3.3	0.10	2.991	0	112	82.4	132	4.10	20	
Surr: 1,2-Dichloroethane-d4	0.59		0.4985		118	70	130	0	0	
Surr: 4-Bromofluorobenzene	0.47		0.4985		93.8	70	130	0	0	
Surr: Dibromofluoromethane	0.56		0.4985		112	70	130	0	0	
Surr: Toluene-d8	0.52		0.4985		105	70	130	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#: 2006B21

29-Jun-20

Client: Pima Environmental Services LLC

Project: Antares 23 Fed 4H

Sample ID: mb-53254	SampType: MBLK		TestCode: EPA Method 8015D Mod: Gasoline Range							
Client ID: PBS	Batch ID: 53254		RunNo: 69880							
Prep Date: 6/23/2020	Analysis Date: 6/24/2020		SeqNo: 2426721		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	460		500.0		92.0	70	130			

Sample ID: lcs-53254	SampType: LCS		TestCode: EPA Method 8015D Mod: Gasoline Range							
Client ID: LCSS	Batch ID: 53254		RunNo: 69880							
Prep Date: 6/23/2020	Analysis Date: 6/24/2020		SeqNo: 2426722		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	20	5.0	25.00	0	79.6	70	130			
Surr: BFB	490		500.0		97.0	70	130			

Sample ID: 2006b21-019ams	SampType: MS		TestCode: EPA Method 8015D Mod: Gasoline Range							
Client ID: S-5 2'	Batch ID: 53254		RunNo: 69916							
Prep Date: 6/23/2020	Analysis Date: 6/25/2020		SeqNo: 2428137		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	19	4.7	23.65	0	81.0	70	130			
Surr: BFB	470		473.0		99.7	70	130			

Sample ID: 2006b21-019amsd	SampType: MSD		TestCode: EPA Method 8015D Mod: Gasoline Range							
Client ID: S-5 2'	Batch ID: 53254		RunNo: 69916							
Prep Date: 6/23/2020	Analysis Date: 6/25/2020		SeqNo: 2428138		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	20	5.0	24.88	0	79.2	70	130	2.85	20	
Surr: BFB	490		497.5		97.6	70	130	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



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

Sample Log-In Check List

Client Name: Pima Environmental Services LLC Work Order Number: 2006B21 RcptNo: 1

Received By: **Scott Anderson** 6/23/2020 9:10:00 AM

Completed By: **Juan Rojas** 6/23/2020 9:23:55 AM

Reviewed By: *JR 6/23/20*

Juan Rojas

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° C to 6.0°C? Yes No NA
5. Sample(s) in proper container(s)? Yes No Not Frozen
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? *NO*
 Checked by: *NO SPAG 6-23-20*

Special Handling (if applicable)

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

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	6.1	Good				
2	1.9	Good				

Chain-of-Custody Record

Client: Rona Environmental
 Mailing Address: 1601 N. Turner St
Hobbs, NM 88240
 Phone #: 575-631-6977
 email or Fax#: Chris@rimaol.com
 QA/QC Package: Standard Level 4 (Full Validation)
 Accreditation: Az Compliance Other
 NELAC Other
 EDD (Type)

Turn-Around Time: 5 day Turn
 Standard Rush
 Project Name: Antares 23 Fed 4 H
 Project #: 8
 Project Manager: Chris Jones
 Sampler: Robert Carper
 On Ice: Yes No
 # of Coolers: 2
 Cooler Temp (including CF): 6.6 - 0 - 6.6 (°C)

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
6-19-20	11:00		S-1 0"-6"	Glass		7006821
	11:02		S-1 1'			-001
	11:04		S-1 2'			-002
	11:06		S-1 3'			-003
	11:08		S-2 0"-6"			-004
	11:10		S-2 1'			-005
	11:12		S-2 2'			-006
	11:14		S-2 3'			-007
	11:16		S-3 0"-6"			-008
	11:18		S-3 1'			-009
	11:20		S-3 2'			-010
	11:22		S-3 3'			-011
						-012

Date: 6/22/20 Time: 14:07 Relinquished by: Robert Carper
 Date: 6/22/20 Time: 19:00 Relinquished by: [Signature]
 Received By: [Signature] Date: 6/22/20 Time: 16:00
 Received by: SPA Courier Date: 6.23.20 Time: 9:10



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

BTEX / MTBE / TMBs (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 ₃ , NO ₂ , PO ₄ , SO ₄	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	<u>Chlorides</u>
---------------------------	----------------------------	----------------------------	--------------------	--------------------------	---------------	--	------------	-----------------	---------------------------------	------------------

Remarks:

Chain-of-Custody Record

Client: Pima Environmental

Mailing Address: 1101 J. Turner St.

Hobbs, NM. 88240

Phone #: 575-631-6977

email or Fax#: charis@pimaoil.com

QA/QC Package: Standard Level 4 (Full Validation)

Accreditation: Az Compliance

NELAC Other

EDD (Type)

Turn-Around Time: 5 day Turn
 Standard Rush

Project Name: Autaves 23 Feol 4 H

Project #: 8

Project Manager: Chris Jones

Sampler: Richard Carper

On Ice: Yes No

of Coolers: 2

Cooler Temp (including CF): 56 = 0 = 54 (°C)

Container Type and # Glass

Preservative Type

HEAL No. 7006521



HALL ENVIRONMENTAL ANALYSIS LABORATORY
 www.hallenvironmental.com
 4901 Hawkins NE - Albuquerque, NM 87109
 Tel. 505-345-3975 Fax 505-345-4107

Analysis Request	
BTEX / MTBE / TMBs (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 ₃ , NO ₂ , PO ₄ , SO ₄	
8260 (VOA)	
8270 (Semi-VOA)	
Total Coliform (Present/Absent)	<u>Chlorides</u>

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	Cooler Temp (including CF):	Temperature (°C)	Remarks
6/19/20	11:26		S-4 0" - 6"			7006521	56	0 = 54	
	11:28		S-4 1'						
	11:30		S-4 2'						
	11:32		S-4 3'						
	11:34		S-5 0" - 6"						
	11:36		S-5 1'						
	11:38		S-5 2'						
	11:40		S-5 3"						
	11:42		S-6 0" - 6"						
	11:44		S-6 1'						
	11:46		S-6 2'						
	11:48		S-6 3"						
Date:	Time:	Relinquished by:	Relinquished by:	Received by:	Via:	Date	Time	Date	Time
6/22/20	4:07	<u>Frank Law</u>	<u>Frank Law</u>	<u>[Signature]</u>		6/22/20	1600	6/22/20	1600
6/22/20	1900			<u>SPA Carver</u>		6/22/20	9:10		

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.

Chain-of-Custody Record

Client: Prima Environmental

Mailing Address: 1601 N. Turner St.
Albuquerque, NM 87240

Phone #: 505-631-6977

email or Fax#: chris@primaenv.com

QA/QC Package: Standard Level 4 (Full Validation)

Accreditation: AZ Compliance NELAC Other

EDD (Type)

Turn-Around Time: 5 day Turn

Standard Rush

Project Name: Antares 23 Feed 4H

Project #: 8

Project Manager: Chris Jones

Sampler: Robert Capor

On Ice: Yes No

of Coolers: 2

Cooler Temp (including CF): 6.1 - 0 = 6.1 (°C)

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
6/18/20	1:30		BG-1	Glass		2006B21
	1:32		BG-2			-025
	1:34		BG-3			-020
	1:36		BG-4			-027
	1:38		BG-5			-028
	1:40		BG-6			-029
	1:42		BG-7			-030
	1:44		BG-8			-031
						-032

Relinquished by: [Signature] Date: 6/18/20 Time: 4:07

Relinquished by: [Signature] Date: 6/22/20 Time: 1600

Date: 6/22/20 Time: 1900

Received by: [Signature] Date: 6/22/20 Time: 1600

Received by: SPA Carter Date: 6.23.20 Time: 9:10



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request	
BTEX / MTBE / TMBs (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 ₂ , NO ₃ , PO ₄ , SO ₄	
8260 (VOA)	
8270 (Semi-VOA)	
Total Coliform (Present/Absent)	<u>Microbes</u>

Remarks:



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

July 27, 2020

Chris Jones

Pima Environmental Services LLC
1601 N. Turner Ste 500
Hobbs, NM 88240
TEL: (575) 631-6977
FAX:

RE: Antares 23 Fed 4H

OrderNo.: 2007716

Dear Chris Jones:

Hall Environmental Analysis Laboratory received 5 sample(s) on 7/15/2020 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued July 16, 2020.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. 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. All samples are reported as received unless otherwise indicated.

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

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written in a cursive style.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2007716

Date Reported: 7/27/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: North Comp

Project: Antares 23 Fed 4H

Collection Date: 7/12/2020

Lab ID: 2007716-001

Matrix: MEOH (SOIL)

Received Date: 7/15/2020 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	7/15/2020 12:07:18 PM	53722
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: CLP
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	7/15/2020 1:38:32 PM	53717
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/15/2020 1:38:32 PM	53717
Surr: DNOP	108	55.1-146		%Rec	1	7/15/2020 1:38:32 PM	53717
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.1		mg/Kg	1	7/15/2020 10:36:00 AM	G70352
Surr: BFB	80.9	66.6-105		%Rec	1	7/15/2020 10:36:00 AM	G70352
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.015		mg/Kg	1	7/15/2020 10:36:00 AM	B70352
Toluene	ND	0.031		mg/Kg	1	7/15/2020 10:36:00 AM	B70352
Ethylbenzene	ND	0.031		mg/Kg	1	7/15/2020 10:36:00 AM	B70352
Xylenes, Total	ND	0.062		mg/Kg	1	7/15/2020 10:36:00 AM	B70352
Surr: 4-Bromofluorobenzene	104	80-120		%Rec	1	7/15/2020 10:36:00 AM	B70352

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

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical 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

Analytical Report

Lab Order 2007716

Date Reported: 7/27/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: South Comp

Project: Antares 23 Fed 4H

Collection Date: 7/12/2020

Lab ID: 2007716-002

Matrix: MEOH (SOIL)

Received Date: 7/15/2020 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	7/15/2020 12:19:43 PM	53722
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: CLP
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	7/15/2020 1:48:37 PM	53717
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	7/15/2020 1:48:37 PM	53717
Surr: DNOP	135	55.1-146		%Rec	1	7/15/2020 1:48:37 PM	53717
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.3		mg/Kg	1	7/15/2020 10:59:34 AM	G70352
Surr: BFB	80.5	66.6-105		%Rec	1	7/15/2020 10:59:34 AM	G70352
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.016		mg/Kg	1	7/15/2020 10:59:34 AM	B70352
Toluene	ND	0.033		mg/Kg	1	7/15/2020 10:59:34 AM	B70352
Ethylbenzene	ND	0.033		mg/Kg	1	7/15/2020 10:59:34 AM	B70352
Xylenes, Total	ND	0.065		mg/Kg	1	7/15/2020 10:59:34 AM	B70352
Surr: 4-Bromofluorobenzene	104	80-120		%Rec	1	7/15/2020 10:59:34 AM	B70352

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

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

Analytical Report

Lab Order 2007716

Date Reported: 7/27/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: East Comp

Project: Antares 23 Fed 4H

Collection Date: 7/12/2020

Lab ID: 2007716-003

Matrix: MEOH (SOIL)

Received Date: 7/15/2020 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	7/15/2020 12:32:08 PM	53722
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: CLP
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	7/15/2020 1:58:44 PM	53717
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/15/2020 1:58:44 PM	53717
Surr: DNOP	112	55.1-146		%Rec	1	7/15/2020 1:58:44 PM	53717
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	2.9		mg/Kg	1	7/15/2020 11:23:02 AM	G70352
Surr: BFB	82.2	66.6-105		%Rec	1	7/15/2020 11:23:02 AM	G70352
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.015		mg/Kg	1	7/15/2020 11:23:02 AM	B70352
Toluene	ND	0.029		mg/Kg	1	7/15/2020 11:23:02 AM	B70352
Ethylbenzene	ND	0.029		mg/Kg	1	7/15/2020 11:23:02 AM	B70352
Xylenes, Total	ND	0.059		mg/Kg	1	7/15/2020 11:23:02 AM	B70352
Surr: 4-Bromofluorobenzene	107	80-120		%Rec	1	7/15/2020 11:23:02 AM	B70352

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

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical 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

Analytical Report

Lab Order **2007716**

Date Reported: **7/27/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: West Comp

Project: Antares 23 Fed 4H

Collection Date: 7/12/2020

Lab ID: 2007716-004

Matrix: MEOH (SOIL)

Received Date: 7/15/2020 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	7/15/2020 12:44:32 PM	53722
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: CLP
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	7/15/2020 2:08:54 PM	53717
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/15/2020 2:08:54 PM	53717
Surr: DNOP	101	55.1-146		%Rec	1	7/15/2020 2:08:54 PM	53717
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.2		mg/Kg	1	7/15/2020 11:46:29 AM	G70352
Surr: BFB	85.9	66.6-105		%Rec	1	7/15/2020 11:46:29 AM	G70352
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.021		mg/Kg	1	7/15/2020 11:46:29 AM	B70352
Toluene	ND	0.042		mg/Kg	1	7/15/2020 11:46:29 AM	B70352
Ethylbenzene	ND	0.042		mg/Kg	1	7/15/2020 11:46:29 AM	B70352
Xylenes, Total	ND	0.084		mg/Kg	1	7/15/2020 11:46:29 AM	B70352
Surr: 4-Bromofluorobenzene	107	80-120		%Rec	1	7/15/2020 11:46:29 AM	B70352

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

Qualifiers:

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

Analytical Report

Lab Order 2007716

Date Reported: 7/27/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: Bottom Composite

Project: Antares 23 Fed 4H

Collection Date: 7/12/2020

Lab ID: 2007716-005

Matrix: MEOH (SOIL)

Received Date: 7/15/2020 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	7/15/2020 1:21:45 PM	53722
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: CLP
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	7/15/2020 2:19:18 PM	53717
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/15/2020 2:19:18 PM	53717
Surr: DNOP	98.2	55.1-146		%Rec	1	7/15/2020 2:19:18 PM	53717
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	7/15/2020 12:10:03 PM	G70352
Surr: BFB	90.5	66.6-105		%Rec	1	7/15/2020 12:10:03 PM	G70352
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	7/15/2020 12:10:03 PM	B70352
Toluene	ND	0.047		mg/Kg	1	7/15/2020 12:10:03 PM	B70352
Ethylbenzene	ND	0.047		mg/Kg	1	7/15/2020 12:10:03 PM	B70352
Xylenes, Total	ND	0.093		mg/Kg	1	7/15/2020 12:10:03 PM	B70352
Surr: 4-Bromofluorobenzene	109	80-120		%Rec	1	7/15/2020 12:10:03 PM	B70352

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

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

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

WO#: 2007716

27-Jul-20

Client: Pima Environmental Services LLC**Project:** Antares 23 Fed 4H

Sample ID: LCS-53722	SampType: ics		TestCode: EPA Method 300.0: Anions							
Client ID: LCSS	Batch ID: 53722		RunNo: 70356							
Prep Date: 7/15/2020	Analysis Date: 7/15/2020		SeqNo: 2446489				Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.7	90	110			

Sample ID: MB-53722	SampType: mbk		TestCode: EPA Method 300.0: Anions							
Client ID: PBS	Batch ID: 53722		RunNo: 70356							
Prep Date: 7/15/2020	Analysis Date: 7/15/2020		SeqNo: 2446490				Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Qualifiers:

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

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

WO#: 2007716

27-Jul-20

Client: Pima Environmental Services LLC**Project:** Antares 23 Fed 4H

Sample ID: MB-53717	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 53717	RunNo: 70344								
Prep Date: 7/15/2020	Analysis Date: 7/15/2020	SeqNo: 2444873			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	55.1	146			

Sample ID: LCS-53717	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 53717	RunNo: 70344								
Prep Date: 7/15/2020	Analysis Date: 7/15/2020	SeqNo: 2444874			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	10	50.00	0	95.5	70	130			
Surr: DNOP	4.7		5.000		93.2	55.1	146			

Sample ID: 2007716-005AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: Bottom Composite	Batch ID: 53717	RunNo: 70344								
Prep Date: 7/15/2020	Analysis Date: 7/15/2020	SeqNo: 2446077			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	53	9.9	49.65	3.790	98.9	47.4	136			
Surr: DNOP	5.1		4.965		103	55.1	146			

Sample ID: 2007716-005AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: Bottom Composite	Batch ID: 53717	RunNo: 70344								
Prep Date: 7/15/2020	Analysis Date: 7/15/2020	SeqNo: 2446079			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	51	9.9	49.60	3.790	95.6	47.4	136	3.24	43.4	
Surr: DNOP	4.7		4.960		95.3	55.1	146	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#: 2007716

27-Jul-20

Client: Pima Environmental Services LLC

Project: Antares 23 Fed 4H

Sample ID: mb1	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: G70352		RunNo: 70352							
Prep Date:	Analysis Date: 7/15/2020		SeqNo: 2445974		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	890		1000		89.0	66.6	105			

Sample ID: 2.5ug gro lcsb	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: G70352		RunNo: 70352							
Prep Date:	Analysis Date: 7/15/2020		SeqNo: 2445975		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	90.1	80	120			
Surr: BFB	950		1000		94.8	66.6	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#: 2007716

27-Jul-20

Client: Pima Environmental Services LLC**Project:** Antares 23 Fed 4H

Sample ID: mb1	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: B70352		RunNo: 70352							
Prep Date:	Analysis Date: 7/15/2020		SeqNo: 2446022		Units: mg/Kg					
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	1.0		1.000		102	80	120			

Sample ID: 100ng btex lcs	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: B70352		RunNo: 70352							
Prep Date:	Analysis Date: 7/15/2020		SeqNo: 2446023		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	104	80	120			
Toluene	1.0	0.050	1.000	0	101	80	120			
Ethylbenzene	0.98	0.050	1.000	0	98.0	80	120			
Xylenes, Total	3.0	0.10	3.000	0	99.0	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		105	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



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: 2007716 RcptNo: 1

Received By: **Juan Rojas** 7/15/2020 9:30:00 AM *Juan Rojas*
 Completed By: **Juan Rojas** 7/15/2020 9:57:40 AM *Juan Rojas*
 Reviewed By: **DAD** 7/15/20

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° C to 6.0°C Yes No NA
 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: *SPA 7.15.20*

Special Handling (if applicable)

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

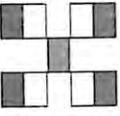
Person Notified:	<input type="text"/>	Date	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.4	Good				

Chain-of-Custody Record



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Turn-Around Time: same day

Standard Rush 24 Hr

Project Name: Antares 23 Feb 4#

Project #: 208868741

Project Manager: Chris Jones

Sampler: Mark Newcomb

On Ice: Yes No

of Coolers: 1

Cooler Temp (including CF): 3.3 to 0.1 = 3.4 (°C)

Analysis Request

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

Project Manager: Chris Jones

Sampler: Mark Newcomb

On Ice: Yes No

of Coolers: 1

Cooler Temp (including CF): 3.3 to 0.1 = 3.4 (°C)

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
7-17-20		Soil	<u>Ant Jones 23 Feb 4#</u>	<u>JAE</u>	<u>ICE</u>	<u>2007716</u>
			<u>North Camp</u>			<u>-001</u>
			<u>South Camp</u>			<u>-002</u>
			<u>East Camp</u>			<u>-003</u>
			<u>West Camp</u>			<u>-004</u>
			<u>Bath room camp</u>			<u>-005</u>

Relinquished by: [Signature]

Relinquished by: [Signature]

Received by: [Signature] Date: 7/17/20 Time: 0930

Received by: [Signature] Date: 7/15/20 Time: 9:30

Remarks: Per Chris Jones, correct sample ID -005 to Bottom Composite. 7/27/20 MMG

Devon Direct B 11

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.