



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

September 16, 2020

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

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

**Re: Site Assessment and Closure Report
Federal HJ-27 #1
API No. 30-015-25780
GPS: Latitude 32.6335258 Longitude -103.863533
UL "E", Sec. 27, T19S, R31E
Eddy County, NM
NMOCD Ref. No. 2RP-3765**

Dear Mr. Bratcher and Mr. Amos,

Pima Environmental Services, LLC (Pima) has been contracted by Devon Energy Production Company (Devon) to perform a spill assessment and has prepared this Closure Report for a produced water and oil release that occurred at the Federal HJ-27 #1 (Federal HJ). The initial C-141 was submitted on July 7, 2016 (Appendix C). This incident was assigned 2RP-3765, Incident ID NAB1619027282, by the New Mexico Oil Conservation Division (NMOCD).

Site Characterization

The Federal HJ is located approximately twenty-six (26) miles northeast of Carlsbad, NM. This spill site is in Unit E, Section 27, Township 19S, Range 31E, Latitude 32.6335258, Longitude -103.863533, 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 Kermit-Berino fine sands, 0 to 3 percent slopes according to the United States Department of Agriculture Natural Resources Conservation Service soil survey (Appendix B). The drainage courses in this area are excessively drained. There is a low potential for karst geology to be present in the area of the Federal HJ (Figure 3).

According to the New Mexico Office of the State Engineer, depth to the nearest groundwater in this area is 140 feet below grade surface (BGS). According to the United States Geological Survey (USGS), the nearest groundwater is greater than 100 feet BGS. The closest waterway and is a playa located approximately 4 miles to the southeast of this location. See Appendix A for the referenced Surface Water Map.

Table 1 NMAC and Closure Criteria 19.15.29					
Depth to Groundwater (Appendix B)	Constituent & Limits				
	Chlorides	Total TPH	GRO+DRO	BTEX	Benzene
140'	20,000 mg/kg	2,500 mg/kg	1,000 mg/kg	50 mg/kg	10 mg/kg
If the release occurred within any of the following areas, the responsible party would treat the release as if the groundwater was less than 50 feet per Rule 19.15.29					
Water Issues				Yes	No
Within 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-3765: On July 7, 2016, a nipple from the water tank was damaged, causing the threads on the nipple to break, releasing 7 barrels (bbls) of produced water released into the earthen bermed containment. Zero bbls were recovered, and the tank was taken out of service, and repairs were made.

Site Assessment and Soil Sampling Results

On September 3, 2020, Pima Environmental conducted a site assessment and obtained soil samples. The laboratory results of this sampling event can be found in the following data table.

9-3-20 Soil Sample Results

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is >100')								
Sample Date 9-3-20		NM Approved Laboratory Results						
Sample ID	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg
BG-1	0	ND	ND	ND	ND	ND	ND	ND
BG-2	0	ND	ND	ND	ND	ND	ND	ND
BG-3	0	ND	ND	ND	ND	ND	ND	ND
S-1	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-2	0-6	ND	ND	ND	ND	ND	ND	470
	1	ND	ND	ND	ND	ND	ND	300
	2	ND	ND	ND	ND	ND	ND	590
	3	ND	ND	ND	ND	ND	ND	940
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	ND
	3	ND	ND	ND	ND	ND	ND	ND
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	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-6	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-7	0-6	ND	ND	ND	ND	ND	ND	ND
	1	ND	ND	ND	ND	ND	ND	ND
	2	ND	ND	ND	ND	ND	ND	100
	3	ND	ND	ND	ND	ND	ND	160

ND- Analyte Not Detected

Complete Laboratory results can be found attached in Appendix D.

Remediation Activities

The sample results were below NMOCD Closure Criteria 19.15.29 NMAC. Based on these findings, no remediation activities were needed at this location.

Closure Request

After careful review, Pima requests that this incident, NAB1619027282, be closed. Devon has complied with the applicable closure requirements outlined in rule 19.15.19.12 NMAC.

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- Laboratory Reports

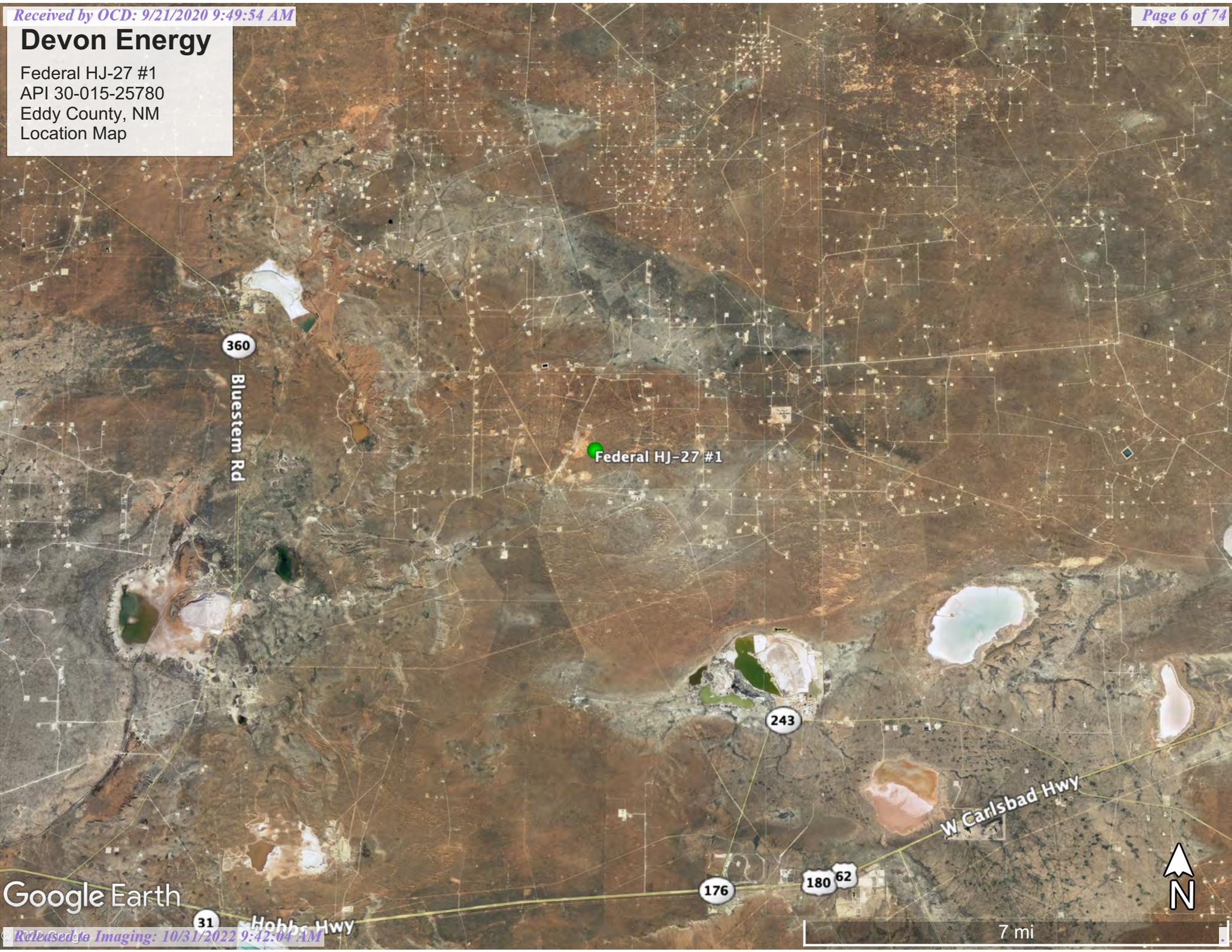


Pima Environmental Services

Figures:
1-Location Map
2- TOPO Map
3- Karst Map
4- Site Map

Devon Energy

Federal HJ-27 #1
API 30-015-25780
Eddy County, NM
Location Map



Federal HJ-27 #1

360

Bluestem Rd

243

W Carlsbad Hwy

176

180

62

31

Hobbs Hwy

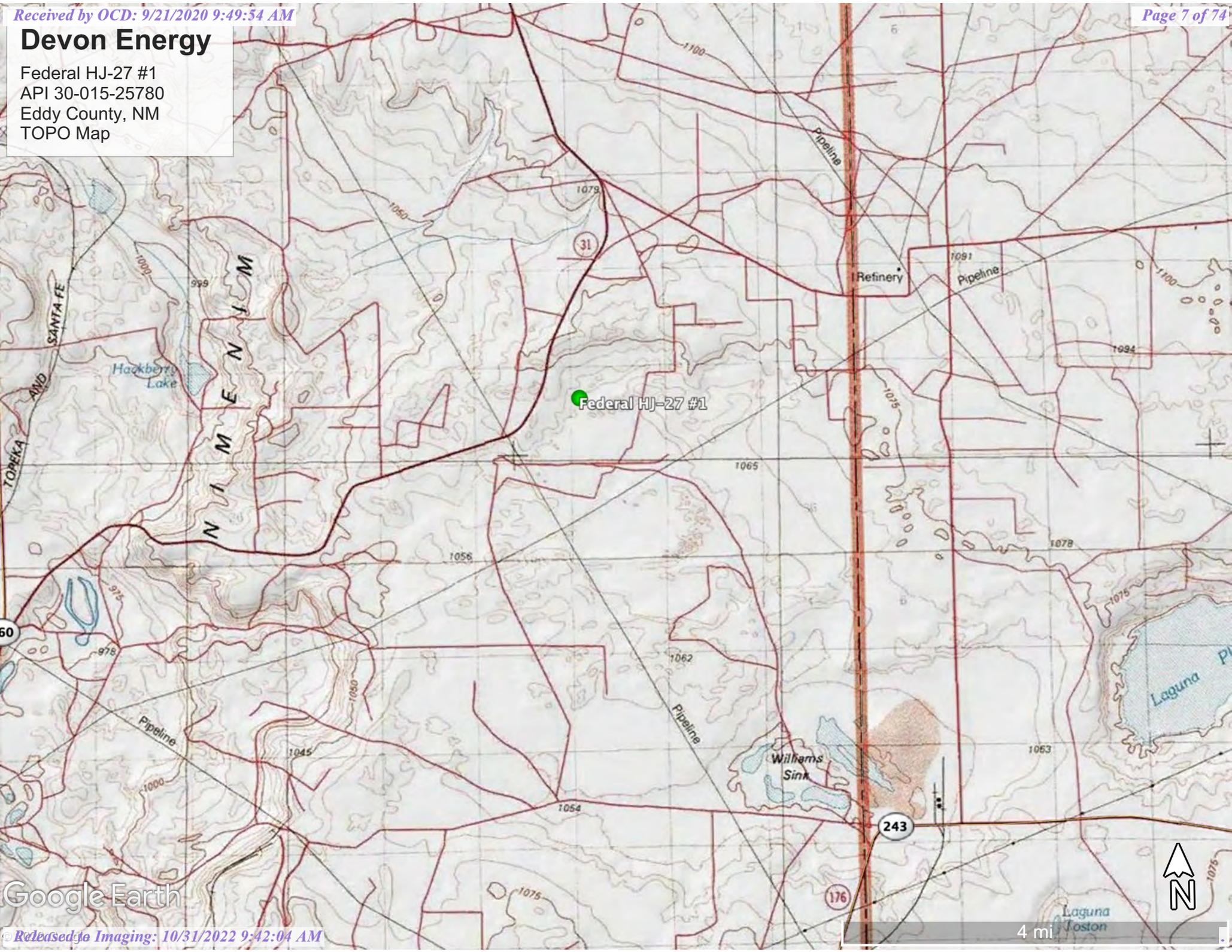


7 mi

Google Earth

Devon Energy

Federal HJ-27 #1
API 30-015-25780
Eddy County, NM
TOPO Map



Google Earth

4 mi

Devon Energy

Federal HJ-27 #1
API 30-015-25780
Eddy County, NM
Karst Map

Legend

-  High
-  Low
-  Medium

Federal HJ-27 #1

50

243

Google Earth



4 mi

Devon Energy

Federal HJ-27 #1
API 30-015-25780
Eddy County, NM
Site Map

Legend

○ Samples

BG-1
S-3
S-4
S-2
BG-2
S-5
S-6
S-7
S-1
BG-3

Federal HJ-27 #1



100 ft

Google Earth



Pima Environmental Services

Appendix A
Water Surveys:
OSE
USGS



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 00722 POD1		CP	LE	4	3	3	28	19S	31E	605106	3610273*	1782	200		
CP 00725 POD1		CP	ED	1	3	3	28	19S	31E	604906	3610473*	1863	231		
CP 00723 POD1		CP	ED	2	1	1	33	19S	31E	605111	3610071*	1894	139		
CP 00722 POD3		CP	LE	2	4	1	33	19S	31E	605519	3609673*	1901	220	140	80
CP 01554 POD2		CP	LE	2	2	1	22	19S	31E	607165	3613322	2163	400		
CP 01554 POD1		CP	LE	2	2	1	22	19S	31E	607166	3613354	2194	400		
CP 00829 POD1		CP	LE		2	4	16	19S	31E	606165	3614009*	2812	120		

Average Depth to Water: **140 feet**

Minimum Depth: **140 feet**

Maximum Depth: **140 feet**

Record Count: 7

UTMNAD83 Radius Search (in meters):

Easting (X): 606608.412

Northing (Y): 3611231.855

Radius: 3000

*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.

9/15/20 5:40 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER



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 00722 POD3	2	4	1	33	19S	31E	605519	3609673*

Driller License: 1058 **Driller Company:** KEY'S DRILLING & PUMP SERVICE

Driller Name: KEY, CASEY

Drill Start Date: 05/02/2011 **Drill Finish Date:** 05/04/2011 **Plug Date:**

Log File Date: 05/17/2011 **PCW Rcv Date:** **Source:** Shallow

Pump Type: **Pipe Discharge Size:** **Estimated Yield:** 100 GPM

Casing Size: 5.00 **Depth Well:** 220 feet **Depth Water:** 140 feet

Water Bearing Stratifications:	Top	Bottom	Description
	140	150	Sandstone/Gravel/Conglomerate
	170	220	Sandstone/Gravel/Conglomerate

*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.

9/15/20 5:40 PM

POINT OF DIVERSION SUMMARY



National Water Information System: Mapper

Help Info

Sites Map

Search

Surface-Water Sites

Groundwater Sites

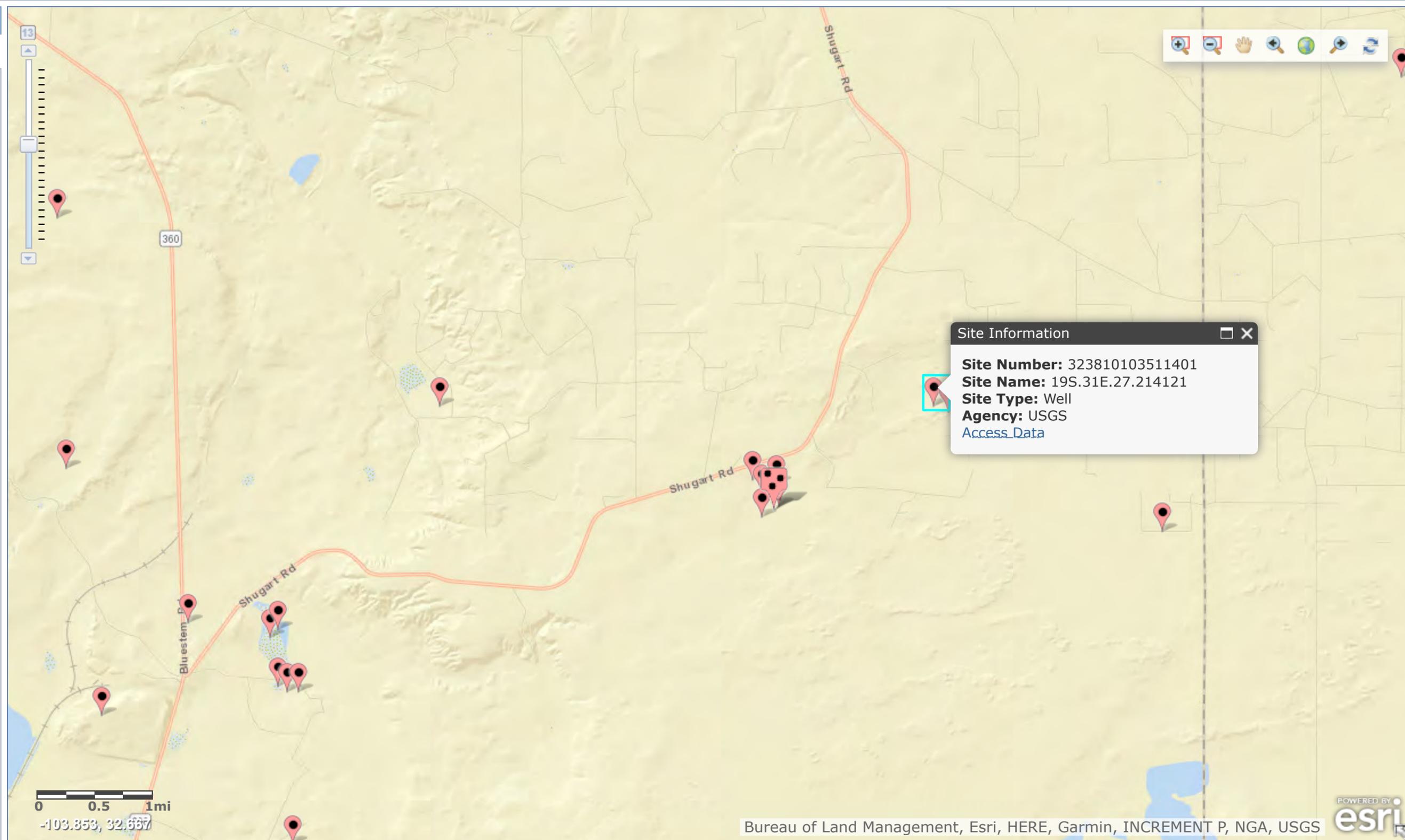
- Active Sites
 - Any data
 - Instantaneous data
 - Daily data
 - Water-quality data
 - Measurements
 - Annual Report
- Inactive Sites
 - Any data
 - Instantaneous data
 - Daily data
 - Water-quality data
 - Measurements
 - Annual Report

Springs

Atmospheric Sites

Other Sites

Released to Imaging: 10/31/2022 9:42:04 AM





National Water Information System: Web Interface

USGS Water Resources

Data Category: Geographic Area:

- Click to hide News Bulletins
 - Introducing The Next Generation of USGS Water Data for the Nation
 - NOTICE 09-08-2020: The **NWIS Mapper** is experiencing intermittent issues. Developers are looking into the problem. Thank you for your patience.
 - Full News

Groundwater levels for the Nation

Search Results -- 1 sites found

site_no list =

- 323810103511401

Minimum number of levels = 1

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

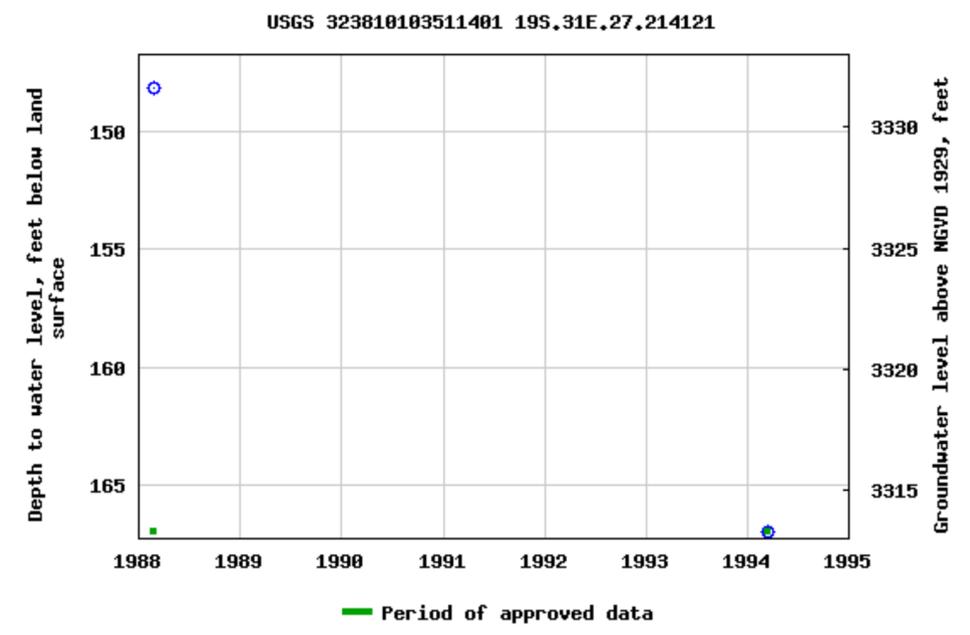
USGS 323810103511401 19S.31E.27.214121

Available data for this site

Eddy County, New Mexico
 Hydrologic Unit Code 13060011
 Latitude 32°38'10", Longitude 103°51'14" NAD27
 Land-surface elevation 3,480 feet above NGVD29
 The depth of the well is 210.00 feet below land surface.
 This well is completed in the Santa Rosa Sandstone (231SNRS) local aquifer.

Output formats

Table_of_data
Tab-separated_data
Graph_of_data
Reselect_period



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

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

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



Devon Energy

Federal HJ-27 #1
API 30-015-25780
Eddy County, NM
Surface Water Map

Legend

 4.0 Miles

Bluestem Rd

BG-3
S-7
Federal HJ-27 #1

360

243

Google Earth



4 mi



Pima Environmental Services

Appendix B
Soil Survey & Geological Data:
USDA



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

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

Eddy Area, New Mexico

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

Map Unit Setting

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

Map Unit Composition

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

Description of Kermit

Setting

Landform: Alluvial fans, plains
Landform position (three-dimensional): Rise, talf
Down-slope shape: Linear, convex
Across-slope shape: Linear
Parent material: Mixed alluvium and/or eolian sands

Typical profile

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

Properties and qualities

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

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7e
Hydrologic Soil Group: A
Ecological site: R042XC005NM - Deep Sand
Hydric soil rating: No

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

Description of Berino

Setting

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

Typical profile

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

Properties and qualities

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

Interpretive groups

Land capability classification (irrigated): 4e
Land capability classification (nonirrigated): 7e
Hydrologic Soil Group: B
Ecological site: R042XC003NM - Loamy Sand
Hydric soil rating: No

Minor Components

Active dune land

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

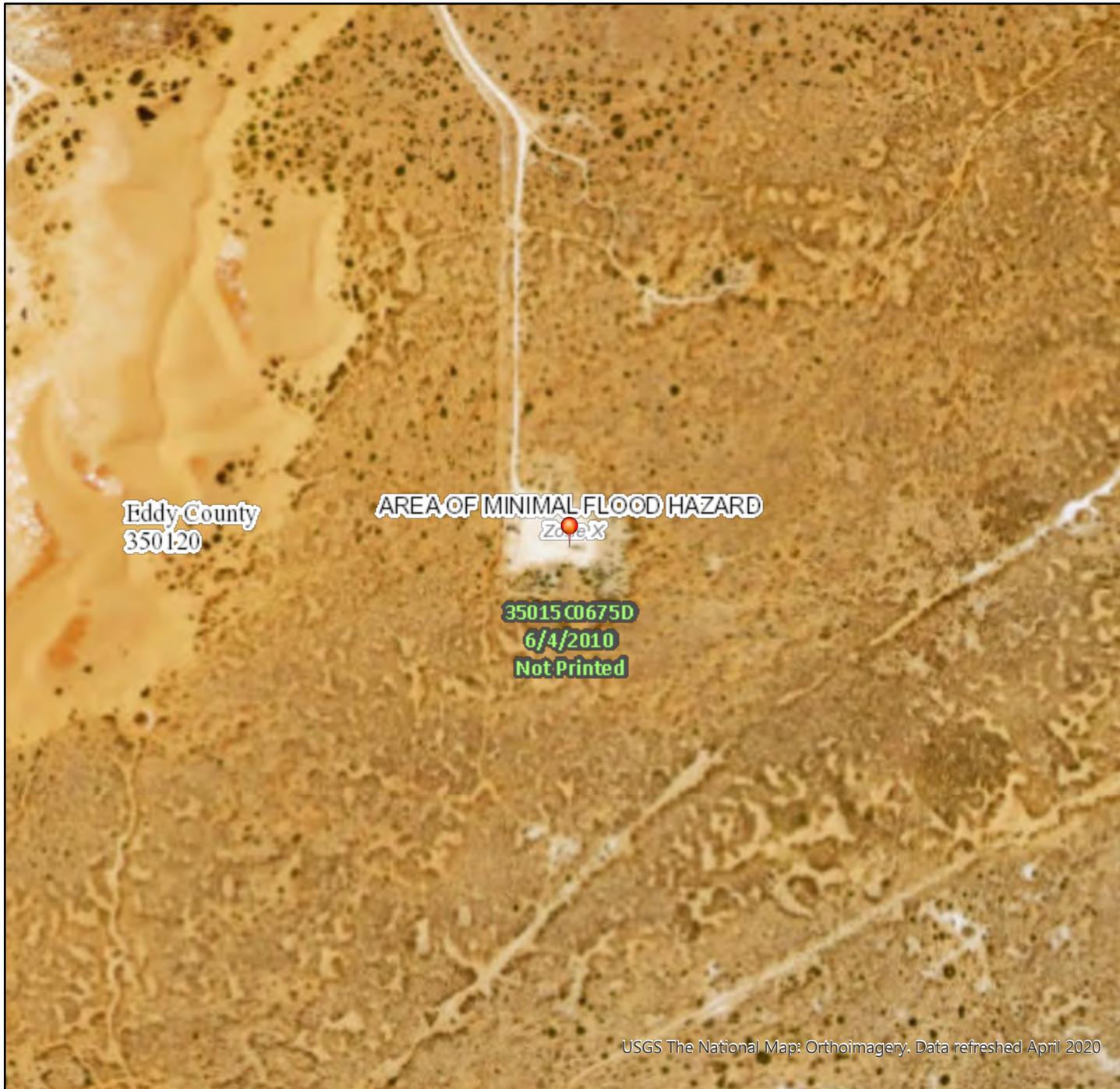
Data Source Information

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

National Flood Hazard Layer FIRMette



103°52'7"W 32°38'16"N



Legend

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

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone D

OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
		Area of Undetermined Flood Hazard Zone D

GENERAL STRUCTURES		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall

OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5 Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
		Profile Baseline
		Hydrographic Feature

MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped



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

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 9/16/2020 at 1:59 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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



Pima Environmental Services

Appendix C

C-141's:

Initial

Final

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

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

NM OIL CONSERVATION
ARTESIA DISTRICT

Form C-141
Revised August 8, 2011

JUL 07 2016

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

RECEIVED

Release Notification and Corrective Action

NAB1619027282

OPERATOR

Initial Report Final Report

Name of Company <i>Devon Energy Production Company 6137</i>	Contact <i>Danny Velo, Production Foreman</i>
Address <i>6488 Seven Rivers Hwy Artesia, NM 88210</i>	Telephone No. <i>575-703-3360</i>
Facility Name <i>Federal HJ-27 1</i>	Facility Type <i>Oil</i>

Surface Owner <i>Federal</i>	Mineral Owner <i>Federal</i>	API No <i>30-015-25780</i>
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LOCATION OF RELEASE

Unit Letter <i>E</i>	Section <i>27</i>	Township <i>19S</i>	Range <i>31E</i>	Feet from the <i>1880'</i>	North/South Line <i>North</i>	Feet from the <i>660'</i>	East/West Line <i>FWL</i>	County <i>Eddy</i>
-------------------------	----------------------	------------------------	---------------------	-------------------------------	----------------------------------	------------------------------	------------------------------	-----------------------

Latitude: 32.7573929

Longitude: -104.0829773

NATURE OF RELEASE

Type of Release <i>Produced Water</i>	Volume of Release <i>7bbls</i>	Volume Recovered <i>0bbls</i>
Source of Release <i>Nipple on water tank</i>	Date and Hour of Occurrence <i>July 4, 2016 @ 10:00 AM</i>	Date and Hour of Discovery <i>July 4, 2016 @ 10:00 AM</i>
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? <i>Shelly Tucker, BLM Mike Bratcher, OCD</i>	
By Whom? <i>Danny Velo, Production Foreman</i>	Date and Hour <i>Shelly Tucker, BLM July 7, 2016 @ 2:45 PM Mike Bratcher, OCD July 7, 2016 @ 1:30 PM</i>	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse <i>N/A</i>	

If a Watercourse was Impacted, Describe Fully.*

N/A

Describe Cause of Problem and Remedial Action Taken.*

A nipple from the water tank was either stepped on or laid on by a cow causing the threads on the nipple to break. The tank was taken out of service until repairs can be made.

Describe Area Affected and Cleanup Action Taken.*

Approximately 7bbls produced water was released into bermed dirt containment. All fluid remained in containment with 0bbls recovered. An environmental agency will be contacted for remediation.

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

Signature: <i>Sheila Fisher</i>	OIL CONSERVATION DIVISION	
Printed Name: <i>Sheila Fisher</i>	Signed By <i>Mike Bratcher</i> Approved by Environmental Specialist:	
Title: <i>Field Admin Support</i>	Approval Date: <i>7/8/16</i>	Expiration Date: <i>N/A</i>
E-mail Address: <i>Sheila.Fisher@dvn.com</i>	Conditions of Approval: Remediation per O.C.D. Rules & Guidelines Attached <input type="checkbox"/>	
Date: <i>7/7/16</i> Phone: <i>575.746.1829</i>	SUBMIT REMEDIATION PROPOSAL NO	

LATER THAN: *7/8/16*

ARD-3745

* Attach Additional Sheets If Necessary

Bratcher, Mike, EMNRD

From: Fisher, Sheila <Sheila.Fisher@dvn.com>
Sent: Thursday, July 07, 2016 8:21 AM
To: Patterson, Heather, EMNRD; Bratcher, Mike, EMNRD
Cc: Fulks, Brett; Velo, Danny; Armendariz, Jesse
Subject: Federal HJ 27-1_7bbl pw release_7.4.16
Attachments: Federal HJ 27-1_7bbl pw release_Initial C-141_7.4.16.doc; Federal HJ 27-1_7bbl pw release_pic 1 of 3_7.4.16.jpg; Federal HJ 27-1_7bbl pw release_pic 2 of 3_7.4.16.jpg; Federal HJ 27-1_7bbl pw release_pic 3 of 3_7.4.16.jpg

Good Morning,

Attached please find the Initial C-141, GIS Image and photos for the 7bbl produced water release at the Federal HJ 27-1 on 7.4.16.

If you have any questions please feel free to contact me.

Thank you,

Sheila Fisher
Field Admin Support
Production
B-Schedule

Devon Energy Corporation
PO Box 250
Artesia, NM 88211
575 748 1829 Direct



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?	_____ 140 (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

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

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

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

State of New Mexico
Oil Conservation Division

Incident ID	NAB1619027282
District RP	2RP-3765
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: Tom Bynum Title: EHS Consultant
 Signature: *Tom Bynum* Date: 9/16/2020
 email: tom.bynum@dvn.com Telephone: 575-748-2663

OCD Only

Received by: _____ Date: _____

Incident ID	NAB1619027282
District RP	2RP-3765
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: Tom Bynum Title: EHS Consultant
 Signature: *Tom Bynum* Date: 9/16/2020
 email: tom.bynum@dvn.com Telephone: 575-748-2663

OCD Only

Received by: _____ Date: _____

- Approved Approved with Attached Conditions of Approval Denied Deferral Approved

Signature: _____ Date: _____

Incident ID	NAB1619027282
District RP	2RP-3765
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: Tom Bynum Title: EHS Consultant
 Signature: *Tom Bynum* Date: 9/16/2020
 email: tom.bynum@dvn.com Telephone: 575-748-2663

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: *Brittany Hall* Date: 10/31/2022
 Printed Name: Brittany Hall Title: Environmental Specialist



Pima Environmental Services

Appendix D:
Laboratory Reports



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

September 16, 2020

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

RE: Fed HJ 27 1

OrderNo.: 2009394

Dear Chris Jones:

Hall Environmental Analysis Laboratory received 31 sample(s) on 9/5/2020 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com 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 **2009394**

Date Reported: **9/16/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: BG-1

Project: Fed HJ 27 1

Collection Date: 9/3/2020 10:05:00 AM

Lab ID: 2009394-001

Matrix: SOIL

Received Date: 9/5/2020 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: BRM
Diesel Range Organics (DRO)	ND	8.5		mg/Kg	1	9/9/2020 2:34:32 PM
Motor Oil Range Organics (MRO)	ND	42		mg/Kg	1	9/9/2020 2:34:32 PM
Surr: DNOP	138	30.4-154		%Rec	1	9/9/2020 2:34:32 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	ND	59		mg/Kg	20	9/13/2020 6:14:23 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: JMR
Benzene	ND	0.025		mg/Kg	1	9/10/2020 1:55:20 AM
Toluene	ND	0.049		mg/Kg	1	9/10/2020 1:55:20 AM
Ethylbenzene	ND	0.049		mg/Kg	1	9/10/2020 1:55:20 AM
Xylenes, Total	ND	0.098		mg/Kg	1	9/10/2020 1:55:20 AM
Surr: 1,2-Dichloroethane-d4	96.3	70-130		%Rec	1	9/10/2020 1:55:20 AM
Surr: 4-Bromofluorobenzene	106	70-130		%Rec	1	9/10/2020 1:55:20 AM
Surr: Dibromofluoromethane	108	70-130		%Rec	1	9/10/2020 1:55:20 AM
Surr: Toluene-d8	106	70-130		%Rec	1	9/10/2020 1:55:20 AM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: JMR
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/10/2020 1:55:20 AM
Surr: BFB	105	70-130		%Rec	1	9/10/2020 1:55:20 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 **2009394**

Date Reported: **9/16/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: BG-2

Project: Fed HJ 27 1

Collection Date: 9/3/2020 10:10:00 AM

Lab ID: 2009394-002

Matrix: SOIL

Received Date: 9/5/2020 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: BRM
Diesel Range Organics (DRO)	ND	8.6		mg/Kg	1	9/9/2020 2:58:36 PM
Motor Oil Range Organics (MRO)	ND	43		mg/Kg	1	9/9/2020 2:58:36 PM
Surr: DNOP	115	30.4-154		%Rec	1	9/9/2020 2:58:36 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	ND	60		mg/Kg	20	9/13/2020 7:16:24 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: JMR
Benzene	ND	0.025		mg/Kg	1	9/10/2020 2:23:50 AM
Toluene	ND	0.049		mg/Kg	1	9/10/2020 2:23:50 AM
Ethylbenzene	ND	0.049		mg/Kg	1	9/10/2020 2:23:50 AM
Xylenes, Total	ND	0.098		mg/Kg	1	9/10/2020 2:23:50 AM
Surr: 1,2-Dichloroethane-d4	93.7	70-130		%Rec	1	9/10/2020 2:23:50 AM
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	9/10/2020 2:23:50 AM
Surr: Dibromofluoromethane	103	70-130		%Rec	1	9/10/2020 2:23:50 AM
Surr: Toluene-d8	102	70-130		%Rec	1	9/10/2020 2:23:50 AM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: JMR
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/10/2020 2:23:50 AM
Surr: BFB	99.2	70-130		%Rec	1	9/10/2020 2:23:50 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 2009394

Date Reported: 9/16/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: BG-3

Project: Fed HJ 27 1

Collection Date: 9/3/2020 10:15:00 AM

Lab ID: 2009394-003

Matrix: SOIL

Received Date: 9/5/2020 7:45:00 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	9/9/2020 3:22:30 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/9/2020 3:22:30 PM
Surr: DNOP	100	30.4-154		%Rec	1	9/9/2020 3:22:30 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	ND	60		mg/Kg	20	9/13/2020 7:53:39 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: JMR
Benzene	ND	0.025		mg/Kg	1	9/10/2020 2:52:26 AM
Toluene	ND	0.050		mg/Kg	1	9/10/2020 2:52:26 AM
Ethylbenzene	ND	0.050		mg/Kg	1	9/10/2020 2:52:26 AM
Xylenes, Total	ND	0.099		mg/Kg	1	9/10/2020 2:52:26 AM
Surr: 1,2-Dichloroethane-d4	93.8	70-130		%Rec	1	9/10/2020 2:52:26 AM
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	9/10/2020 2:52:26 AM
Surr: Dibromofluoromethane	108	70-130		%Rec	1	9/10/2020 2:52:26 AM
Surr: Toluene-d8	104	70-130		%Rec	1	9/10/2020 2:52:26 AM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: JMR
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/10/2020 2:52:26 AM
Surr: BFB	99.8	70-130		%Rec	1	9/10/2020 2:52:26 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 **2009394**

Date Reported: **9/16/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

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

Project: Fed HJ 27 1

Collection Date: 9/3/2020 10:20:00 AM

Lab ID: 2009394-004

Matrix: SOIL

Received Date: 9/5/2020 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: BRM
Diesel Range Organics (DRO)	ND	8.6		mg/Kg	1	9/9/2020 3:46:29 PM
Motor Oil Range Organics (MRO)	ND	43		mg/Kg	1	9/9/2020 3:46:29 PM
Surr: DNOP	146	30.4-154		%Rec	1	9/9/2020 3:46:29 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	ND	60		mg/Kg	20	9/13/2020 8:06:04 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: JMR
Benzene	ND	0.025		mg/Kg	1	9/10/2020 3:20:56 AM
Toluene	ND	0.050		mg/Kg	1	9/10/2020 3:20:56 AM
Ethylbenzene	ND	0.050		mg/Kg	1	9/10/2020 3:20:56 AM
Xylenes, Total	ND	0.10		mg/Kg	1	9/10/2020 3:20:56 AM
Surr: 1,2-Dichloroethane-d4	94.5	70-130		%Rec	1	9/10/2020 3:20:56 AM
Surr: 4-Bromofluorobenzene	97.8	70-130		%Rec	1	9/10/2020 3:20:56 AM
Surr: Dibromofluoromethane	104	70-130		%Rec	1	9/10/2020 3:20:56 AM
Surr: Toluene-d8	103	70-130		%Rec	1	9/10/2020 3:20:56 AM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: JMR
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/10/2020 3:20:56 AM
Surr: BFB	99.9	70-130		%Rec	1	9/10/2020 3:20:56 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 **2009394**

Date Reported: **9/16/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S-1 1'

Project: Fed HJ 27 1

Collection Date: 9/3/2020 10:25:00 AM

Lab ID: 2009394-005

Matrix: SOIL

Received Date: 9/5/2020 7:45:00 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	9/9/2020 4:10:28 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	9/9/2020 4:10:28 PM
Surr: DNOP	127	30.4-154		%Rec	1	9/9/2020 4:10:28 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	ND	60		mg/Kg	20	9/13/2020 8:18:28 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: JMR
Benzene	ND	0.025		mg/Kg	1	9/10/2020 3:49:27 AM
Toluene	ND	0.049		mg/Kg	1	9/10/2020 3:49:27 AM
Ethylbenzene	ND	0.049		mg/Kg	1	9/10/2020 3:49:27 AM
Xylenes, Total	ND	0.099		mg/Kg	1	9/10/2020 3:49:27 AM
Surr: 1,2-Dichloroethane-d4	93.9	70-130		%Rec	1	9/10/2020 3:49:27 AM
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	9/10/2020 3:49:27 AM
Surr: Dibromofluoromethane	105	70-130		%Rec	1	9/10/2020 3:49:27 AM
Surr: Toluene-d8	103	70-130		%Rec	1	9/10/2020 3:49:27 AM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: JMR
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/10/2020 3:49:27 AM
Surr: BFB	102	70-130		%Rec	1	9/10/2020 3:49:27 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 **2009394**

Date Reported: **9/16/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S-1 2'

Project: Fed HJ 27 1

Collection Date: 9/3/2020 10:30:00 AM

Lab ID: 2009394-006

Matrix: SOIL

Received Date: 9/5/2020 7:45:00 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	9/9/2020 4:34:29 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	9/9/2020 4:34:29 PM
Surr: DNOP	108	30.4-154		%Rec	1	9/9/2020 4:34:29 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	ND	60		mg/Kg	20	9/13/2020 8:30:53 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: JMR
Benzene	ND	0.024		mg/Kg	1	9/10/2020 4:17:57 AM
Toluene	ND	0.049		mg/Kg	1	9/10/2020 4:17:57 AM
Ethylbenzene	ND	0.049		mg/Kg	1	9/10/2020 4:17:57 AM
Xylenes, Total	ND	0.097		mg/Kg	1	9/10/2020 4:17:57 AM
Surr: 1,2-Dichloroethane-d4	96.4	70-130		%Rec	1	9/10/2020 4:17:57 AM
Surr: 4-Bromofluorobenzene	98.7	70-130		%Rec	1	9/10/2020 4:17:57 AM
Surr: Dibromofluoromethane	110	70-130		%Rec	1	9/10/2020 4:17:57 AM
Surr: Toluene-d8	103	70-130		%Rec	1	9/10/2020 4:17:57 AM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: JMR
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/10/2020 4:17:57 AM
Surr: BFB	97.7	70-130		%Rec	1	9/10/2020 4:17:57 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 2009394

Date Reported: 9/16/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S-1 3'

Project: Fed HJ 27 1

Collection Date: 9/3/2020 10:35:00 AM

Lab ID: 2009394-007

Matrix: SOIL

Received Date: 9/5/2020 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: BRM
Diesel Range Organics (DRO)	ND	8.9		mg/Kg	1	9/9/2020 4:58:17 PM
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	9/9/2020 4:58:17 PM
Surr: DNOP	91.4	30.4-154		%Rec	1	9/9/2020 4:58:17 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	ND	60		mg/Kg	20	9/13/2020 8:43:17 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: JMR
Benzene	ND	0.025		mg/Kg	1	9/10/2020 4:46:27 AM
Toluene	ND	0.049		mg/Kg	1	9/10/2020 4:46:27 AM
Ethylbenzene	ND	0.049		mg/Kg	1	9/10/2020 4:46:27 AM
Xylenes, Total	ND	0.098		mg/Kg	1	9/10/2020 4:46:27 AM
Surr: 1,2-Dichloroethane-d4	94.6	70-130		%Rec	1	9/10/2020 4:46:27 AM
Surr: 4-Bromofluorobenzene	105	70-130		%Rec	1	9/10/2020 4:46:27 AM
Surr: Dibromofluoromethane	105	70-130		%Rec	1	9/10/2020 4:46:27 AM
Surr: Toluene-d8	102	70-130		%Rec	1	9/10/2020 4:46:27 AM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: JMR
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/10/2020 4:46:27 AM
Surr: BFB	101	70-130		%Rec	1	9/10/2020 4:46:27 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 **2009394**

Date Reported: **9/16/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

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

Project: Fed HJ 27 1

Collection Date: 9/3/2020 10:40:00 AM

Lab ID: 2009394-008

Matrix: SOIL

Received Date: 9/5/2020 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: BRM
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	9/9/2020 5:22:17 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	9/9/2020 5:22:17 PM
Surr: DNOP	96.8	30.4-154		%Rec	1	9/9/2020 5:22:17 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	470	60		mg/Kg	20	9/13/2020 9:20:31 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: JMR
Benzene	ND	0.025		mg/Kg	1	9/10/2020 5:14:59 AM
Toluene	ND	0.049		mg/Kg	1	9/10/2020 5:14:59 AM
Ethylbenzene	ND	0.049		mg/Kg	1	9/10/2020 5:14:59 AM
Xylenes, Total	ND	0.099		mg/Kg	1	9/10/2020 5:14:59 AM
Surr: 1,2-Dichloroethane-d4	89.0	70-130		%Rec	1	9/10/2020 5:14:59 AM
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	9/10/2020 5:14:59 AM
Surr: Dibromofluoromethane	107	70-130		%Rec	1	9/10/2020 5:14:59 AM
Surr: Toluene-d8	104	70-130		%Rec	1	9/10/2020 5:14:59 AM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: JMR
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/10/2020 5:14:59 AM
Surr: BFB	102	70-130		%Rec	1	9/10/2020 5:14:59 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 **2009394**

Date Reported: **9/16/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S-2 1'

Project: Fed HJ 27 1

Collection Date: 9/3/2020 10:45:00 AM

Lab ID: 2009394-009

Matrix: SOIL

Received Date: 9/5/2020 7:45:00 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	9/9/2020 5:46:05 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	9/9/2020 5:46:05 PM
Surr: DNOP	118	30.4-154		%Rec	1	9/9/2020 5:46:05 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	300	60		mg/Kg	20	9/13/2020 9:32:55 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: JMR
Benzene	ND	0.025		mg/Kg	1	9/10/2020 5:43:30 AM
Toluene	ND	0.049		mg/Kg	1	9/10/2020 5:43:30 AM
Ethylbenzene	ND	0.049		mg/Kg	1	9/10/2020 5:43:30 AM
Xylenes, Total	ND	0.099		mg/Kg	1	9/10/2020 5:43:30 AM
Surr: 1,2-Dichloroethane-d4	87.3	70-130		%Rec	1	9/10/2020 5:43:30 AM
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	9/10/2020 5:43:30 AM
Surr: Dibromofluoromethane	104	70-130		%Rec	1	9/10/2020 5:43:30 AM
Surr: Toluene-d8	105	70-130		%Rec	1	9/10/2020 5:43:30 AM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: JMR
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/10/2020 5:43:30 AM
Surr: BFB	105	70-130		%Rec	1	9/10/2020 5:43:30 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 2009394

Date Reported: 9/16/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S-2 2'

Project: Fed HJ 27 1

Collection Date: 9/3/2020 10:50:00 AM

Lab ID: 2009394-010

Matrix: SOIL

Received Date: 9/5/2020 7:45:00 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	9/9/2020 6:10:00 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/9/2020 6:10:00 PM
Surr: DNOP	114	30.4-154		%Rec	1	9/9/2020 6:10:00 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	590	61		mg/Kg	20	9/13/2020 9:45:20 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: JMR
Benzene	ND	0.024		mg/Kg	1	9/10/2020 6:12:00 AM
Toluene	ND	0.049		mg/Kg	1	9/10/2020 6:12:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	9/10/2020 6:12:00 AM
Xylenes, Total	ND	0.097		mg/Kg	1	9/10/2020 6:12:00 AM
Surr: 1,2-Dichloroethane-d4	94.7	70-130		%Rec	1	9/10/2020 6:12:00 AM
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	9/10/2020 6:12:00 AM
Surr: Dibromofluoromethane	110	70-130		%Rec	1	9/10/2020 6:12:00 AM
Surr: Toluene-d8	104	70-130		%Rec	1	9/10/2020 6:12:00 AM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: JMR
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/10/2020 6:12:00 AM
Surr: BFB	101	70-130		%Rec	1	9/10/2020 6:12:00 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 **2009394**

Date Reported: **9/16/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S-2 3'

Project: Fed HJ 27 1

Collection Date: 9/3/2020 10:55:00 AM

Lab ID: 2009394-011

Matrix: SOIL

Received Date: 9/5/2020 7:45:00 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	9/9/2020 6:33:54 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/9/2020 6:33:54 PM
Surr: DNOP	97.6	30.4-154		%Rec	1	9/9/2020 6:33:54 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	940	60		mg/Kg	20	9/13/2020 9:57:44 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: JMR
Benzene	ND	0.025		mg/Kg	1	9/10/2020 6:40:32 AM
Toluene	ND	0.049		mg/Kg	1	9/10/2020 6:40:32 AM
Ethylbenzene	ND	0.049		mg/Kg	1	9/10/2020 6:40:32 AM
Xylenes, Total	ND	0.098		mg/Kg	1	9/10/2020 6:40:32 AM
Surr: 1,2-Dichloroethane-d4	96.6	70-130		%Rec	1	9/10/2020 6:40:32 AM
Surr: 4-Bromofluorobenzene	98.7	70-130		%Rec	1	9/10/2020 6:40:32 AM
Surr: Dibromofluoromethane	111	70-130		%Rec	1	9/10/2020 6:40:32 AM
Surr: Toluene-d8	103	70-130		%Rec	1	9/10/2020 6:40:32 AM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: JMR
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/10/2020 6:40:32 AM
Surr: BFB	97.7	70-130		%Rec	1	9/10/2020 6:40:32 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 **2009394**

Date Reported: **9/16/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

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

Project: Fed HJ 27 1

Collection Date: 9/3/2020 11:00:00 AM

Lab ID: 2009394-012

Matrix: SOIL

Received Date: 9/5/2020 7:45:00 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	9/9/2020 6:57:52 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/9/2020 6:57:52 PM
Surr: DNOP	130	30.4-154		%Rec	1	9/9/2020 6:57:52 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	ND	60		mg/Kg	20	9/13/2020 10:10:08 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: JMR
Benzene	ND	0.025		mg/Kg	1	9/10/2020 7:09:05 AM
Toluene	ND	0.049		mg/Kg	1	9/10/2020 7:09:05 AM
Ethylbenzene	ND	0.049		mg/Kg	1	9/10/2020 7:09:05 AM
Xylenes, Total	ND	0.098		mg/Kg	1	9/10/2020 7:09:05 AM
Surr: 1,2-Dichloroethane-d4	93.7	70-130		%Rec	1	9/10/2020 7:09:05 AM
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	9/10/2020 7:09:05 AM
Surr: Dibromofluoromethane	107	70-130		%Rec	1	9/10/2020 7:09:05 AM
Surr: Toluene-d8	102	70-130		%Rec	1	9/10/2020 7:09:05 AM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: JMR
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/10/2020 7:09:05 AM
Surr: BFB	97.9	70-130		%Rec	1	9/10/2020 7:09:05 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 **2009394**

Date Reported: **9/16/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S-3 1'

Project: Fed HJ 27 1

Collection Date: 9/3/2020 11:05:00 AM

Lab ID: 2009394-013

Matrix: SOIL

Received Date: 9/5/2020 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: BRM
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	9/9/2020 7:21:42 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	9/9/2020 7:21:42 PM
Surr: DNOP	164	30.4-154	S	%Rec	1	9/9/2020 7:21:42 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	ND	60		mg/Kg	20	9/13/2020 10:22:33 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: JMR
Benzene	ND	0.025		mg/Kg	1	9/10/2020 7:37:38 AM
Toluene	ND	0.050		mg/Kg	1	9/10/2020 7:37:38 AM
Ethylbenzene	ND	0.050		mg/Kg	1	9/10/2020 7:37:38 AM
Xylenes, Total	ND	0.10		mg/Kg	1	9/10/2020 7:37:38 AM
Surr: 1,2-Dichloroethane-d4	94.7	70-130		%Rec	1	9/10/2020 7:37:38 AM
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	9/10/2020 7:37:38 AM
Surr: Dibromofluoromethane	105	70-130		%Rec	1	9/10/2020 7:37:38 AM
Surr: Toluene-d8	104	70-130		%Rec	1	9/10/2020 7:37:38 AM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: JMR
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/10/2020 7:37:38 AM
Surr: BFB	101	70-130		%Rec	1	9/10/2020 7:37:38 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 2009394

Date Reported: 9/16/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S-3 2'

Project: Fed HJ 27 1

Collection Date: 9/3/2020 11:10:00 AM

Lab ID: 2009394-014

Matrix: SOIL

Received Date: 9/5/2020 7:45:00 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	9/10/2020 12:14:58 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/10/2020 12:14:58 PM
Surr: DNOP	120	30.4-154		%Rec	1	9/10/2020 12:14:58 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/10/2020 1:50:02 PM
Surr: BFB	93.6	75.3-105		%Rec	1	9/10/2020 1:50:02 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	9/10/2020 1:50:02 PM
Toluene	ND	0.050		mg/Kg	1	9/10/2020 1:50:02 PM
Ethylbenzene	ND	0.050		mg/Kg	1	9/10/2020 1:50:02 PM
Xylenes, Total	ND	0.10		mg/Kg	1	9/10/2020 1:50:02 PM
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	1	9/10/2020 1:50:02 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	ND	60		mg/Kg	20	9/13/2020 10:34:57 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 **2009394**

Date Reported: **9/16/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S-3 3'

Project: Fed HJ 27 1

Collection Date: 9/3/2020 11:15:00 AM

Lab ID: 2009394-015

Matrix: SOIL

Received Date: 9/5/2020 7:45:00 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	9/10/2020 1:27:12 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/10/2020 1:27:12 PM
Surr: DNOP	114	30.4-154		%Rec	1	9/10/2020 1:27:12 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/10/2020 3:00:24 PM
Surr: BFB	92.8	75.3-105		%Rec	1	9/10/2020 3:00:24 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	9/10/2020 3:00:24 PM
Toluene	ND	0.050		mg/Kg	1	9/10/2020 3:00:24 PM
Ethylbenzene	ND	0.050		mg/Kg	1	9/10/2020 3:00:24 PM
Xylenes, Total	ND	0.099		mg/Kg	1	9/10/2020 3:00:24 PM
Surr: 4-Bromofluorobenzene	102	80-120		%Rec	1	9/10/2020 3:00:24 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	ND	60		mg/Kg	20	9/13/2020 10:47:22 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	

Analytical Report

Lab Order **2009394**

Date Reported: **9/16/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

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

Project: Fed HJ 27 1

Collection Date: 9/3/2020 11:20:00 AM

Lab ID: 2009394-016

Matrix: SOIL

Received Date: 9/5/2020 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: BRM
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	9/10/2020 1:51:20 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	9/10/2020 1:51:20 PM
Surr: DNOP	115	30.4-154		%Rec	1	9/10/2020 1:51:20 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/10/2020 4:10:25 PM
Surr: BFB	93.2	75.3-105		%Rec	1	9/10/2020 4:10:25 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	9/10/2020 4:10:25 PM
Toluene	ND	0.049		mg/Kg	1	9/10/2020 4:10:25 PM
Ethylbenzene	ND	0.049		mg/Kg	1	9/10/2020 4:10:25 PM
Xylenes, Total	ND	0.098		mg/Kg	1	9/10/2020 4:10:25 PM
Surr: 4-Bromofluorobenzene	102	80-120		%Rec	1	9/10/2020 4:10:25 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	ND	60		mg/Kg	20	9/13/2020 10:59:47 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 **2009394**

Date Reported: **9/16/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S-4 1'

Project: Fed HJ 27 1

Collection Date: 9/3/2020 11:25:00 AM

Lab ID: 2009394-017

Matrix: SOIL

Received Date: 9/5/2020 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: BRM
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	9/10/2020 2:15:15 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/10/2020 2:15:15 PM
Surr: DNOP	136	30.4-154		%Rec	1	9/10/2020 2:15:15 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/10/2020 4:33:56 PM
Surr: BFB	93.8	75.3-105		%Rec	1	9/10/2020 4:33:56 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	9/10/2020 4:33:56 PM
Toluene	ND	0.050		mg/Kg	1	9/10/2020 4:33:56 PM
Ethylbenzene	ND	0.050		mg/Kg	1	9/10/2020 4:33:56 PM
Xylenes, Total	ND	0.10		mg/Kg	1	9/10/2020 4:33:56 PM
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	1	9/10/2020 4:33:56 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	ND	60		mg/Kg	20	9/13/2020 11:12:11 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 **2009394**

Date Reported: **9/16/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S-4 2'

Project: Fed HJ 27 1

Collection Date: 9/3/2020 11:30:00 AM

Lab ID: 2009394-018

Matrix: SOIL

Received Date: 9/5/2020 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: BRM
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	9/10/2020 3:28:27 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/10/2020 3:28:27 PM
Surr: DNOP	105	30.4-154		%Rec	1	9/10/2020 3:28:27 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/10/2020 4:57:24 PM
Surr: BFB	91.4	75.3-105		%Rec	1	9/10/2020 4:57:24 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	9/10/2020 4:57:24 PM
Toluene	ND	0.049		mg/Kg	1	9/10/2020 4:57:24 PM
Ethylbenzene	ND	0.049		mg/Kg	1	9/10/2020 4:57:24 PM
Xylenes, Total	ND	0.099		mg/Kg	1	9/10/2020 4:57:24 PM
Surr: 4-Bromofluorobenzene	99.6	80-120		%Rec	1	9/10/2020 4:57:24 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	ND	60		mg/Kg	20	9/13/2020 11:49:25 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 **2009394**

Date Reported: **9/16/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S-4 3'

Project: Fed HJ 27 1

Collection Date: 9/3/2020 11:35:00 AM

Lab ID: 2009394-019

Matrix: SOIL

Received Date: 9/5/2020 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: BRM
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	9/10/2020 4:39:37 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	9/10/2020 4:39:37 PM
Surr: DNOP	108	30.4-154		%Rec	1	9/10/2020 4:39:37 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/10/2020 5:20:44 PM
Surr: BFB	92.6	75.3-105		%Rec	1	9/10/2020 5:20:44 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	9/10/2020 5:20:44 PM
Toluene	ND	0.050		mg/Kg	1	9/10/2020 5:20:44 PM
Ethylbenzene	ND	0.050		mg/Kg	1	9/10/2020 5:20:44 PM
Xylenes, Total	ND	0.10		mg/Kg	1	9/10/2020 5:20:44 PM
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	1	9/10/2020 5:20:44 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	ND	60		mg/Kg	20	9/14/2020 12:01:50 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 **2009394**

Date Reported: **9/16/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

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

Project: Fed HJ 27 1

Collection Date: 9/3/2020 11:40:00 AM

Lab ID: 2009394-020

Matrix: SOIL

Received Date: 9/5/2020 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: BRM
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	9/10/2020 5:03:23 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/10/2020 5:03:23 PM
Surr: DNOP	95.9	30.4-154		%Rec	1	9/10/2020 5:03:23 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/10/2020 5:44:09 PM
Surr: BFB	91.9	75.3-105		%Rec	1	9/10/2020 5:44:09 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	9/10/2020 5:44:09 PM
Toluene	ND	0.049		mg/Kg	1	9/10/2020 5:44:09 PM
Ethylbenzene	ND	0.049		mg/Kg	1	9/10/2020 5:44:09 PM
Xylenes, Total	ND	0.098		mg/Kg	1	9/10/2020 5:44:09 PM
Surr: 4-Bromofluorobenzene	100	80-120		%Rec	1	9/10/2020 5:44:09 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	ND	60		mg/Kg	20	9/14/2020 12:14:14 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 2009394

Date Reported: 9/16/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S-5 1'

Project: Fed HJ 27 1

Collection Date: 9/3/2020 11:45:00 AM

Lab ID: 2009394-021

Matrix: SOIL

Received Date: 9/5/2020 7:45:00 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	9/10/2020 5:26:55 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	9/10/2020 5:26:55 PM
Surr: DNOP	97.4	30.4-154		%Rec	1	9/10/2020 5:26:55 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/10/2020 6:07:28 PM
Surr: BFB	91.4	75.3-105		%Rec	1	9/10/2020 6:07:28 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	9/10/2020 6:07:28 PM
Toluene	ND	0.049		mg/Kg	1	9/10/2020 6:07:28 PM
Ethylbenzene	ND	0.049		mg/Kg	1	9/10/2020 6:07:28 PM
Xylenes, Total	ND	0.098		mg/Kg	1	9/10/2020 6:07:28 PM
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	1	9/10/2020 6:07:28 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	ND	60		mg/Kg	20	9/14/2020 12:02:29 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 2009394

Date Reported: 9/16/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S-5 2'

Project: Fed HJ 27 1

Collection Date: 9/3/2020 11:50:00 AM

Lab ID: 2009394-022

Matrix: SOIL

Received Date: 9/5/2020 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: BRM
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	9/10/2020 5:50:24 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/10/2020 5:50:24 PM
Surr: DNOP	95.8	30.4-154		%Rec	1	9/10/2020 5:50:24 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/10/2020 6:30:50 PM
Surr: BFB	95.8	75.3-105		%Rec	1	9/10/2020 6:30:50 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	9/10/2020 6:30:50 PM
Toluene	ND	0.050		mg/Kg	1	9/10/2020 6:30:50 PM
Ethylbenzene	ND	0.050		mg/Kg	1	9/10/2020 6:30:50 PM
Xylenes, Total	ND	0.10		mg/Kg	1	9/10/2020 6:30:50 PM
Surr: 4-Bromofluorobenzene	105	80-120		%Rec	1	9/10/2020 6:30:50 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	ND	60		mg/Kg	20	9/14/2020 12:39:44 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 **2009394**

Date Reported: **9/16/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S-5 3'

Project: Fed HJ 27 1

Collection Date: 9/3/2020 11:55:00 AM

Lab ID: 2009394-023

Matrix: SOIL

Received Date: 9/5/2020 7:45:00 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	9/10/2020 6:14:00 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/10/2020 6:14:00 PM
Surr: DNOP	97.2	30.4-154		%Rec	1	9/10/2020 6:14:00 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/11/2020 12:23:37 PM
Surr: BFB	97.7	75.3-105		%Rec	1	9/11/2020 12:23:37 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	9/10/2020 7:40:59 PM
Toluene	ND	0.049		mg/Kg	1	9/10/2020 7:40:59 PM
Ethylbenzene	ND	0.049		mg/Kg	1	9/10/2020 7:40:59 PM
Xylenes, Total	ND	0.098		mg/Kg	1	9/10/2020 7:40:59 PM
Surr: 4-Bromofluorobenzene	102	80-120		%Rec	1	9/10/2020 7:40:59 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	ND	60		mg/Kg	20	9/14/2020 12:52:09 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 **2009394**

Date Reported: **9/16/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

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

Project: Fed HJ 27 1

Collection Date: 9/3/2020 12:00:00 PM

Lab ID: 2009394-024

Matrix: SOIL

Received Date: 9/5/2020 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: BRM
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	9/10/2020 6:37:45 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/10/2020 6:37:45 PM
Surr: DNOP	92.5	30.4-154		%Rec	1	9/10/2020 6:37:45 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/11/2020 12:47:05 PM
Surr: BFB	94.3	75.3-105		%Rec	1	9/11/2020 12:47:05 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	9/10/2020 8:04:25 PM
Toluene	ND	0.049		mg/Kg	1	9/10/2020 8:04:25 PM
Ethylbenzene	ND	0.049		mg/Kg	1	9/10/2020 8:04:25 PM
Xylenes, Total	ND	0.098		mg/Kg	1	9/10/2020 8:04:25 PM
Surr: 4-Bromofluorobenzene	102	80-120		%Rec	1	9/10/2020 8:04:25 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	ND	60		mg/Kg	20	9/14/2020 1:04:34 PM

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

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

Analytical Report

Lab Order **2009394**

Date Reported: **9/16/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S-6 1'

Project: Fed HJ 27 1

Collection Date: 9/3/2020 12:05:00 PM

Lab ID: 2009394-025

Matrix: SOIL

Received Date: 9/5/2020 7:45:00 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	9/10/2020 7:01:33 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	9/10/2020 7:01:33 PM
Surr: DNOP	95.4	30.4-154		%Rec	1	9/10/2020 7:01:33 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/11/2020 1:10:28 PM
Surr: BFB	104	75.3-105		%Rec	1	9/11/2020 1:10:28 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	9/10/2020 8:27:48 PM
Toluene	ND	0.050		mg/Kg	1	9/10/2020 8:27:48 PM
Ethylbenzene	ND	0.050		mg/Kg	1	9/10/2020 8:27:48 PM
Xylenes, Total	ND	0.099		mg/Kg	1	9/10/2020 8:27:48 PM
Surr: 4-Bromofluorobenzene	100	80-120		%Rec	1	9/10/2020 8:27:48 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	ND	60		mg/Kg	20	9/14/2020 1:16:58 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 2009394

Date Reported: 9/16/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S-6 2'

Project: Fed HJ 27 1

Collection Date: 9/3/2020 12:10:00 PM

Lab ID: 2009394-026

Matrix: SOIL

Received Date: 9/5/2020 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: BRM
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	9/10/2020 7:49:18 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/10/2020 7:49:18 PM
Surr: DNOP	98.2	30.4-154		%Rec	1	9/10/2020 7:49:18 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/11/2020 1:33:52 PM
Surr: BFB	95.7	75.3-105		%Rec	1	9/11/2020 1:33:52 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	9/10/2020 8:51:12 PM
Toluene	ND	0.049		mg/Kg	1	9/10/2020 8:51:12 PM
Ethylbenzene	ND	0.049		mg/Kg	1	9/10/2020 8:51:12 PM
Xylenes, Total	ND	0.099		mg/Kg	1	9/10/2020 8:51:12 PM
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	1	9/10/2020 8:51:12 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	ND	60		mg/Kg	20	9/14/2020 1:29:23 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 **2009394**

Date Reported: **9/16/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S-6 3'

Project: Fed HJ 27 1

Collection Date: 9/3/2020 12:15:00 PM

Lab ID: 2009394-027

Matrix: SOIL

Received Date: 9/5/2020 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: BRM
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	9/10/2020 8:13:12 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/10/2020 8:13:12 PM
Surr: DNOP	99.8	30.4-154		%Rec	1	9/10/2020 8:13:12 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/11/2020 1:57:14 PM
Surr: BFB	96.4	75.3-105		%Rec	1	9/11/2020 1:57:14 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	9/10/2020 9:14:50 PM
Toluene	ND	0.049		mg/Kg	1	9/10/2020 9:14:50 PM
Ethylbenzene	ND	0.049		mg/Kg	1	9/10/2020 9:14:50 PM
Xylenes, Total	ND	0.099		mg/Kg	1	9/10/2020 9:14:50 PM
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	1	9/10/2020 9:14:50 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	ND	60		mg/Kg	20	9/14/2020 2:06:38 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 **2009394**

Date Reported: **9/16/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

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

Project: Fed HJ 27 1

Collection Date: 9/3/2020 12:20:00 PM

Lab ID: 2009394-028

Matrix: SOIL

Received Date: 9/5/2020 7:45:00 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	9/10/2020 8:37:05 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/10/2020 8:37:05 PM
Surr: DNOP	98.8	30.4-154		%Rec	1	9/10/2020 8:37:05 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/11/2020 2:20:40 PM
Surr: BFB	96.4	75.3-105		%Rec	1	9/11/2020 2:20:40 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	9/10/2020 9:38:26 PM
Toluene	ND	0.050		mg/Kg	1	9/10/2020 9:38:26 PM
Ethylbenzene	ND	0.050		mg/Kg	1	9/10/2020 9:38:26 PM
Xylenes, Total	ND	0.099		mg/Kg	1	9/10/2020 9:38:26 PM
Surr: 4-Bromofluorobenzene	98.7	80-120		%Rec	1	9/10/2020 9:38:26 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	ND	60		mg/Kg	20	9/14/2020 2:19:02 PM

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

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

Analytical Report

Lab Order **2009394**

Date Reported: **9/16/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S-7 1'

Project: Fed HJ 27 1

Collection Date: 9/3/2020 12:25:00 PM

Lab ID: 2009394-029

Matrix: SOIL

Received Date: 9/5/2020 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: BRM
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	9/10/2020 9:00:54 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	9/10/2020 9:00:54 PM
Surr: DNOP	101	30.4-154		%Rec	1	9/10/2020 9:00:54 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/11/2020 2:44:01 PM
Surr: BFB	94.0	75.3-105		%Rec	1	9/11/2020 2:44:01 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	9/10/2020 10:01:57 PM
Toluene	ND	0.050		mg/Kg	1	9/10/2020 10:01:57 PM
Ethylbenzene	ND	0.050		mg/Kg	1	9/10/2020 10:01:57 PM
Xylenes, Total	ND	0.10		mg/Kg	1	9/10/2020 10:01:57 PM
Surr: 4-Bromofluorobenzene	100	80-120		%Rec	1	9/10/2020 10:01:57 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	ND	60		mg/Kg	20	9/14/2020 2:31:27 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 **2009394**

Date Reported: **9/16/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S-7 2'

Project: Fed HJ 27 1

Collection Date: 9/3/2020 12:30:00 PM

Lab ID: 2009394-030

Matrix: SOIL

Received Date: 9/5/2020 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: BRM
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	9/10/2020 9:24:43 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	9/10/2020 9:24:43 PM
Surr: DNOP	102	30.4-154		%Rec	1	9/10/2020 9:24:43 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/11/2020 3:07:31 PM
Surr: BFB	100	75.3-105		%Rec	1	9/11/2020 3:07:31 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	9/10/2020 10:25:25 PM
Toluene	ND	0.049		mg/Kg	1	9/10/2020 10:25:25 PM
Ethylbenzene	ND	0.049		mg/Kg	1	9/10/2020 10:25:25 PM
Xylenes, Total	ND	0.099		mg/Kg	1	9/10/2020 10:25:25 PM
Surr: 4-Bromofluorobenzene	100	80-120		%Rec	1	9/10/2020 10:25:25 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	100	60		mg/Kg	20	9/14/2020 2:43:51 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 **2009394**

Date Reported: **9/16/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S-7 3'

Project: Fed HJ 27 1

Collection Date: 9/3/2020 12:35:00 PM

Lab ID: 2009394-031

Matrix: SOIL

Received Date: 9/5/2020 7:45:00 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	9/10/2020 9:48:34 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/10/2020 9:48:34 PM
Surr: DNOP	92.6	30.4-154		%Rec	1	9/10/2020 9:48:34 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/11/2020 3:31:03 PM
Surr: BFB	93.1	75.3-105		%Rec	1	9/11/2020 3:31:03 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	9/10/2020 10:48:50 PM
Toluene	ND	0.049		mg/Kg	1	9/10/2020 10:48:50 PM
Ethylbenzene	ND	0.049		mg/Kg	1	9/10/2020 10:48:50 PM
Xylenes, Total	ND	0.098		mg/Kg	1	9/10/2020 10:48:50 PM
Surr: 4-Bromofluorobenzene	102	80-120		%Rec	1	9/10/2020 10:48:50 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	160	60		mg/Kg	20	9/14/2020 2:56:16 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#: 2009394

16-Sep-20

Client: Pima Environmental Services LLC

Project: Fed HJ 27 1

Sample ID: MB-55122	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 55122	RunNo: 71822								
Prep Date: 9/13/2020	Analysis Date: 9/13/2020	SeqNo: 2513416	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-55122	SampType: ics	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 55122	RunNo: 71822								
Prep Date: 9/13/2020	Analysis Date: 9/13/2020	SeqNo: 2513417	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	90.6	90	110			

Sample ID: MB-55134	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 55134	RunNo: 71841								
Prep Date: 9/14/2020	Analysis Date: 9/14/2020	SeqNo: 2514372	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-55134	SampType: ics	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 55134	RunNo: 71841								
Prep Date: 9/14/2020	Analysis Date: 9/14/2020	SeqNo: 2514373	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.2	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#: 2009394

16-Sep-20

Client: Pima Environmental Services LLC

Project: Fed HJ 27 1

Sample ID: LCS-55057	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 55057	RunNo: 71721								
Prep Date: 9/9/2020	Analysis Date: 9/10/2020	SeqNo: 2509065	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	55	10	50.00	0	110	70	130			
Surr: DNOP	4.9		5.000		97.2	30.4	154			

Sample ID: MB-55057	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 55057	RunNo: 71721								
Prep Date: 9/9/2020	Analysis Date: 9/10/2020	SeqNo: 2509066	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	12		10.00		116	30.4	154			

Sample ID: LCS-55017	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 55017	RunNo: 71698								
Prep Date: 9/8/2020	Analysis Date: 9/9/2020	SeqNo: 2509091	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	55	10	50.00	0	110	70	130			
Surr: DNOP	5.6		5.000		112	30.4	154			

Sample ID: MB-55017	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 55017	RunNo: 71698								
Prep Date: 9/8/2020	Analysis Date: 9/9/2020	SeqNo: 2509092	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	12		10.00		116	30.4	154			

Sample ID: MB-55054	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 55054	RunNo: 71762								
Prep Date: 9/9/2020	Analysis Date: 9/10/2020	SeqNo: 2510693	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	9.6		10.00		96.2	30.4	154			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2009394

16-Sep-20

Client: Pima Environmental Services LLC

Project: Fed HJ 27 1

Sample ID: LCS-55054	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 55054	RunNo: 71762								
Prep Date: 9/9/2020	Analysis Date: 9/10/2020	SeqNo: 2510719	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	10	50.00	0	88.5	70	130			
Surr: DNOP	4.5		5.000		89.2	30.4	154			

Sample ID: 2009394-018AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: S-4 2'	Batch ID: 55054	RunNo: 71762								
Prep Date: 9/9/2020	Analysis Date: 9/10/2020	SeqNo: 2510721	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	9.5	47.39	0	92.5	47.4	136			
Surr: DNOP	4.3		4.739		90.4	30.4	154			

Sample ID: 2009394-018AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: S-4 2'	Batch ID: 55054	RunNo: 71762								
Prep Date: 9/9/2020	Analysis Date: 9/10/2020	SeqNo: 2510722	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	9.9	49.50	0	94.5	47.4	136	6.44	43.4	
Surr: DNOP	4.6		4.950		92.4	30.4	154	0	0	

Sample ID: 2009394-014AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: S-3 2'	Batch ID: 55057	RunNo: 71721								
Prep Date: 9/9/2020	Analysis Date: 9/10/2020	SeqNo: 2511287	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	9.5	47.62	0	97.6	47.4	136			
Surr: DNOP	3.6		4.762		76.0	30.4	154			

Sample ID: 2009394-014AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: S-3 2'	Batch ID: 55057	RunNo: 71721								
Prep Date: 9/9/2020	Analysis Date: 9/10/2020	SeqNo: 2511288	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	10	49.85	0	94.5	47.4	136	1.33	43.4	
Surr: DNOP	5.0		4.985		100	30.4	154	0	0	

Sample ID: LCS-55019	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 55019	RunNo: 71721								
Prep Date: 9/9/2020	Analysis Date: 9/10/2020	SeqNo: 2511324	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2009394

16-Sep-20

Client: Pima Environmental Services LLC

Project: Fed HJ 27 1

Sample ID: LCS-55019	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 55019		RunNo: 71721							
Prep Date: 9/9/2020	Analysis Date: 9/10/2020		SeqNo: 2511324	Units: %Rec						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.3		5.000		85.1	30.4	154			

Sample ID: MB-55019	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 55019		RunNo: 71721							
Prep Date: 9/9/2020	Analysis Date: 9/10/2020		SeqNo: 2511325	Units: %Rec						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.3		10.00		92.5	30.4	154			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2009394

16-Sep-20

Client: Pima Environmental Services LLC

Project: Fed HJ 27 1

Sample ID: 2009394-015ams	SampType: MS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: S-3 3'	Batch ID: 54985	RunNo: 71774								
Prep Date: 9/6/2020	Analysis Date: 9/10/2020	SeqNo: 2511356	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	19	4.9	24.44	0	78.1	61.3	114			
Surr: BFB	1000		977.5		103	75.3	105			

Sample ID: 2009394-015amsd	SampType: MSD	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: S-3 3'	Batch ID: 54985	RunNo: 71774								
Prep Date: 9/6/2020	Analysis Date: 9/10/2020	SeqNo: 2511357	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	19	4.9	24.51	0	76.4	61.3	114	1.88	20	
Surr: BFB	1000		980.4		103	75.3	105	0	0	

Sample ID: lcs-54985	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 54985	RunNo: 71774								
Prep Date: 9/6/2020	Analysis Date: 9/10/2020	SeqNo: 2511365	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	81.6	72.5	106			
Surr: BFB	1000		1000		104	75.3	105			

Sample ID: mb-54985	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 54985	RunNo: 71774								
Prep Date: 9/6/2020	Analysis Date: 9/10/2020	SeqNo: 2511366	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	920		1000		91.8	75.3	105			

Sample ID: lcs-54986	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 54986	RunNo: 71790								
Prep Date: 9/6/2020	Analysis Date: 9/11/2020	SeqNo: 2511831	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1200		1000		116	75.3	105			S

Sample ID: mb-54986	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 54986	RunNo: 71790								
Prep Date: 9/6/2020	Analysis Date: 9/11/2020	SeqNo: 2511833	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1100		1000		108	75.3	105			S

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#: 2009394

16-Sep-20

Client: Pima Environmental Services LLC

Project: Fed HJ 27 1

Sample ID: 2009394-014ams	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: S-3 2'	Batch ID: 54985	RunNo: 71774								
Prep Date: 9/6/2020	Analysis Date: 9/10/2020	SeqNo: 2511394	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.88	0.025	0.9843	0	88.9	76.3	120			
Toluene	0.90	0.049	0.9843	0	91.0	78.5	120			
Ethylbenzene	0.89	0.049	0.9843	0	90.5	78.1	124			
Xylenes, Total	2.7	0.098	2.953	0	91.7	79.3	125			
Surr: 4-Bromofluorobenzene	1.0		0.9843		102	80	120			

Sample ID: 2009394-014amsd	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: S-3 2'	Batch ID: 54985	RunNo: 71774								
Prep Date: 9/6/2020	Analysis Date: 9/10/2020	SeqNo: 2511395	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.87	0.024	0.9766	0	89.2	76.3	120	0.448	20	
Toluene	0.88	0.049	0.9766	0	89.9	78.5	120	2.02	20	
Ethylbenzene	0.89	0.049	0.9766	0	91.2	78.1	124	0.0580	20	
Xylenes, Total	2.7	0.098	2.930	0	91.9	79.3	125	0.595	20	
Surr: 4-Bromofluorobenzene	1.0		0.9766		105	80	120	0	0	

Sample ID: LCS-54985	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 54985	RunNo: 71774								
Prep Date: 9/6/2020	Analysis Date: 9/10/2020	SeqNo: 2511425	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.89	0.025	1.000	0	88.8	80	120			
Toluene	0.89	0.050	1.000	0	89.3	80	120			
Ethylbenzene	0.90	0.050	1.000	0	89.9	80	120			
Xylenes, Total	2.7	0.10	3.000	0	90.1	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		101	80	120			

Sample ID: LCS-54986	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 54986	RunNo: 71774								
Prep Date: 9/6/2020	Analysis Date: 9/11/2020	SeqNo: 2511426	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0		1.000		104	80	120			

Sample ID: mb-54985	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 54985	RunNo: 71774								
Prep Date: 9/6/2020	Analysis Date: 9/10/2020	SeqNo: 2511427	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2009394

16-Sep-20

Client: Pima Environmental Services LLC

Project: Fed HJ 27 1

Sample ID: mb-54985	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 54985	RunNo: 71774								
Prep Date: 9/6/2020	Analysis Date: 9/10/2020	SeqNo: 2511427	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		99.9	80	120			

Sample ID: mb-54986	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 54986	RunNo: 71774								
Prep Date: 9/6/2020	Analysis Date: 9/11/2020	SeqNo: 2511428	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0		1.000		101	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#: 2009394

16-Sep-20

Client: Pima Environmental Services LLC

Project: Fed HJ 27 1

Sample ID: ics-54984	SampType: LCS4		TestCode: EPA Method 8260B: Volatiles Short List							
Client ID: BatchQC	Batch ID: 54984		RunNo: 71719							
Prep Date: 9/6/2020	Analysis Date: 9/9/2020		SeqNo: 2508935		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.025	1.000	0	92.9	80	120			
Toluene	0.99	0.050	1.000	0	99.5	80	120			
Ethylbenzene	1.0	0.050	1.000	0	102	80	120			
Xylenes, Total	3.2	0.10	3.000	0	105	80	120			
Surr: 1,2-Dichloroethane-d4	0.47		0.5000		93.9	70	130			
Surr: 4-Bromofluorobenzene	0.51		0.5000		102	70	130			
Surr: Dibromofluoromethane	0.54		0.5000		109	70	130			
Surr: Toluene-d8	0.52		0.5000		104	70	130			

Sample ID: mb-54984	SampType: MBLK		TestCode: EPA Method 8260B: Volatiles Short List							
Client ID: PBS	Batch ID: 54984		RunNo: 71719							
Prep Date: 9/6/2020	Analysis Date: 9/9/2020		SeqNo: 2508936		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: 1,2-Dichloroethane-d4	0.46		0.5000		92.3	70	130			
Surr: 4-Bromofluorobenzene	0.50		0.5000		100	70	130			
Surr: Dibromofluoromethane	0.52		0.5000		104	70	130			
Surr: Toluene-d8	0.52		0.5000		105	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#: 2009394

16-Sep-20

Client: Pima Environmental Services LLC

Project: Fed HJ 27 1

Sample ID: ics-54984	SampType: LCS	TestCode: EPA Method 8015D Mod: Gasoline Range								
Client ID: LCSS	Batch ID: 54984	RunNo: 71719								
Prep Date: 9/6/2020	Analysis Date: 9/9/2020	SeqNo: 2508976	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	5.0	25.00	0	84.3	70	130			
Surr: BFB	500		500.0		99.4	70	130			

Sample ID: mb-54984	SampType: MBLK	TestCode: EPA Method 8015D Mod: Gasoline Range								
Client ID: PBS	Batch ID: 54984	RunNo: 71719								
Prep Date: 9/6/2020	Analysis Date: 9/9/2020	SeqNo: 2508977	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	500		500.0		101	70	130			

Qualifiers:

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



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

Sample Log-In Check List

Client Name: Pima Environmental Services LLC Work Order Number: 2009394 RcptNo: 1

Received By: Juan Rojas 9/5/2020 7:45:00 AM *Juan Rojas*

Completed By: Juan Rojas 9/5/2020 8:42:13 AM *Juan Rojas*

Reviewed By: *JR 9/5/20*

Chain of Custody

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

Log In

3. Was an attempt made to cool the samples? Yes No NA
4. Were all samples received at a temperature of >0° 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 9.5.20*

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:

Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.4	Good				
2	1.3	Good				

Chain-of-Custody Record

Client: Pina Environmental
 Mailing Address: 1601 N Turner ste 500
Hobbs, NM 88240
 Phone #: 575-631-6977
 email or Fax#: Chris@Pinaoil.com
 QA/QC Package:
 Standard Level 4 (Full Validation)
 Accreditation: Az Compliance
 NELAC Other
 EDD (Type)

Turn-Around Time: 5 day
 Standard Rush
 Project Name: Fed HJ-27 #1
 Project #: _____
 Project Manager: Chris Jones
 Sampler: Tristan Jones
 On Ice: Yes No
 # of Coolers: 2
 Cooler Temp (including CF): 1.5-0.1=1.4 (°C)
 Container Type and # glass
 Preservative Type ice
 HEAL No. 7009394
 1.4-0.1=1.3

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	Temperature (°C)
9/3/20	1105	soil	S-3 1'	glass	ice	7009394	-013
	1110		S-3 2'				-014
	1115		S-3 3'				-015
	1120		S-4 0"-6"				-016
	1125		S-4 1'				-017
	1130		S-4 2'				-018
	1135		S-4 3'				-019
	1140		S-5 0"-6"				-020
	1145		S-5 1'				-021
	1150		S-5 2'				-022
	1155		S-5 3'				-023
	1200		S-6 0"-6"				-024

Date: 9/4/20 Time: 10:00
 Relinquished by: [Signature]
 Date: 9/4/20 Time: 10:00
 Relinquished by: [Signature]
 Date: 9/17/20 Time: 7:45
 Relinquished by: [Signature]



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

Chain-of-Custody Record

Client: Pima Environmental
 Mailing Address: 1601 N Turner Ste 500
Hobbs, NM 88240
 Phone #: 575-631-6977
 email or Fax#: Chris@Pimaoil.com
 QA/QC Package: Standard Level 4 (Full Validation)
 Accreditation: Az Compliance
 NELAC Other
 EDD (Type) _____

Turn-Around Time: 5 day
 Standard Rush
 Project Name: Fed HJ-27 #1
 Project #: _____

Project Manager: Chris Jones
 Sampler: Tristan Jones
 On Ice: Yes No
 # of Coolers: 2

Cooler Temp (including CF): 65-6.1 = 1.4 (°C)
 Container Type and # glass Preservative Type ice
 HEAL No. 1.4-0.1=1.3
2009394
 015 001
 016 002
 017 003
 018 004
 019 005
 030 006
 031 007



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

Relinquished by: [Signature] Date: 9/4/20 Time: 10:00
 Relinquished by: [Signature] Date: 9/4/20 Time: 10:00
 Received by: [Signature] Date: 9/4/20 Time: 10:00
 Received by: [Signature] Date: 9/5/20 Time: 7:45

Remarks: Bill to Devon

District I
 1625 N. French Dr., Hobbs, NM 88240
 Phone:(575) 393-6161 Fax:(575) 393-0720

District II
 811 S. First St., Artesia, NM 88210
 Phone:(575) 748-1283 Fax:(575) 748-9720

District III
 1000 Rio Brazos Rd., Aztec, NM 87410
 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV
 1220 S. St Francis Dr., Santa Fe, NM 87505
 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS
 Action 10272

CONDITIONS

Operator: Pima Environmental Services, LLC 5614 N Lovington Hwy Hobbs, NM 88240	OGRID: 329999
	Action Number: 10272
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
bhall	None	10/31/2022