



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

March 8th, 2021

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

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

**Re: Site Remediation and Closure Report
Beetle Juice 19 Fed #2H
API No. 30-015-38989
GPS: Latitude 32.6524544 Longitude -103.9055176
UL "B", Sec. 19, T19S, R31E
Eddy County, NM
NMOCD Ref. No. NAB1724041654 (2RP-4361)**

Dear Mr. Bratcher and Mr. Amos,

Pima Environmental Services, LLC (Pima) has been contracted by Devon Energy Production Company (Devon) to perform a spill assessment and remediation activities for an oil/produced water release that occurred at the Beetlejuice 19 Fed #2H (Beetlejuice). The initial C-141 was submitted on August 11th, 2017 (Appendix C). This incident was assigned 2RP-4361, Incident ID NAB1724041654 by the New Mexico Oil Conservation Division (NMOCD).

Site Characterization

The Beetlejuice is located approximately twenty-five (25) miles northeast of Carlsbad, NM. This spill site is in Unit B, Section 19, Township 19S, Range 31E, Latitude 32.6524544, Longitude -103.9055176, Eddy County, NM. Figure 1 references a location map.

According to the New Mexico Office of the State Engineer, depth to the nearest groundwater in this area is 180 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 1.73 miles to the southwest of this location. See Appendix A for referenced water surveys.

Per the New Mexico Bureau of Geology and Mineral Resources, the geology is in the Quaternary Formation- Eolian and piedmont deposits (Holocene to lower Pleistocene)-includes 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. May locally include uppermost Pliocene deposits (QP). The soil in this area is made up of Potter-Simona complex, 5 to 25 percent slopes according to the United States Department of Agriculture Natural Resources Conservation Service soil survey (Appendix B). The drainage courses in this area are well-drained. There is a medium potential for karst geology to be present in the area of the Beetlejuice (Figure 3).

Table 1 NMAC and Closure Criteria 19.15.29					
Depth to Groundwater (Appendix A)	Constituent & Limits				
	Chlorides	Total TPH	GRO+DRO	BTEX	Benzene
180'	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

NAB1724041654 (2RP-4361): On August 11th, 2017, a stainless steel tubing line from the pumping unit became disconnected from the transducer. This caused fluid to release from the tubing line onto the well-pad around the west side of the pumping unit. None of the released fluid left the pad, and the affected area is approximately 30'x30'. The released fluids were calculated to be approximately 5 barrels (bbls) of oil/produced water mixed. The well was shut in immediately and the tubing line was repaired.

Site Assessment and Soil Sampling Results

On July 20th, 2020, Pima Environmental conducted a site assessment and obtained soil samples to get a more in-depth picture of the horizontal extent of the contamination. Laboratory results of this sampling event can be found in the following data table.

7-20-20 Soil Sample Results

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is >100')								
Sample Date 7-20-20		NM Approved Laboratory Results						
Sample ID	Depth (BGS)	BTEX mg/kg	Benzen e mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg
B-1	0-6"	ND	ND	ND	2000	6900	8900	310
	1	ND	ND	ND	ND	ND	ND	ND
	2	ND	ND	ND	ND	ND	ND	ND
	3	ND	ND	ND	ND	ND	ND	ND
B-2	1	ND	ND	ND	25	ND	25	ND
	2	ND	ND	ND	ND	ND	ND	260
	3	ND	ND	ND	ND	ND	ND	160
	4	ND	ND	ND	ND	ND	ND	ND
	5	ND	ND	ND	ND	ND	ND	ND
	6	ND	ND	ND	ND	ND	ND	ND
	7	ND	ND	ND	ND	ND	ND	ND
	8	ND	ND	ND	ND	ND	ND	ND
	9	ND	ND	ND	ND	ND	ND	ND
B-3	0-6"	ND	ND	ND	ND	ND	ND	ND
	1	ND	ND	ND	ND	ND	ND	65
	2	ND	ND	ND	ND	ND	ND	64
	3	ND	ND	ND	ND	ND	ND	ND
	4	ND	ND	ND	ND	ND	ND	ND
	5	ND	ND	ND	ND	ND	ND	ND
	6	ND	ND	ND	ND	ND	ND	ND
	7	ND	ND	ND	ND	ND	ND	ND
B-4	0-6"	ND	ND	ND	ND	ND	ND	180
	1	ND	ND	ND	ND	ND	ND	130
	2	ND	ND	ND	ND	ND	ND	140
	3	ND	ND	ND	ND	ND	ND	70
	4	ND	ND	ND	ND	ND	ND	70
	5	ND	ND	ND	ND	ND	ND	ND
	6	ND	ND	ND	ND	ND	ND	110
B-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
	4	ND	ND	ND	ND	ND	ND	ND
	5	ND	ND	ND	ND	ND	ND	ND
	6	ND	ND	ND	ND	ND	ND	72
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

ND- Analyte Not Detected

Remediation Activities

On August 24th, 2020, Pima mobilized personnel and equipment to conduct remedial activities. We applied a Micro-Blaze treatment to the north and west of the pumping unit, in and around the sample point "B-1" (photographic documentation in Appendix D). After 60-days we returned to assess the site and collect a confirmation sample of the "B-1" affected area. The laboratory results of this sampling event can be found in the following data table.

Confirmation Soil Sample Results 10-21-20

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is >100')								
Sample Date 10-21-20		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
B-1	0-6"	ND	ND	ND	ND	ND	ND	ND

ND- Analyte Not Detected

Based on the sample results, the composite samples were below NMOCD Closure Criteria 19.15.29 NMAC.

Complete Laboratory Reports are attached in Appendix E.

Closure Request

After careful review, Pima requests that this incident, NJMW1302251869, be closed. Devon has complied with the applicable closure requirements set forth in rule 19.15.19.12 NMAC.

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

Respectfully,

Tom Bynum

Tom Bynum
Environmental Project Manager
Pima Environmental Services, LLC

Attachments

Figures:

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

Appendices:

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



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Figures:

1-Location Map

2-TOPO Map

3-Karst Map

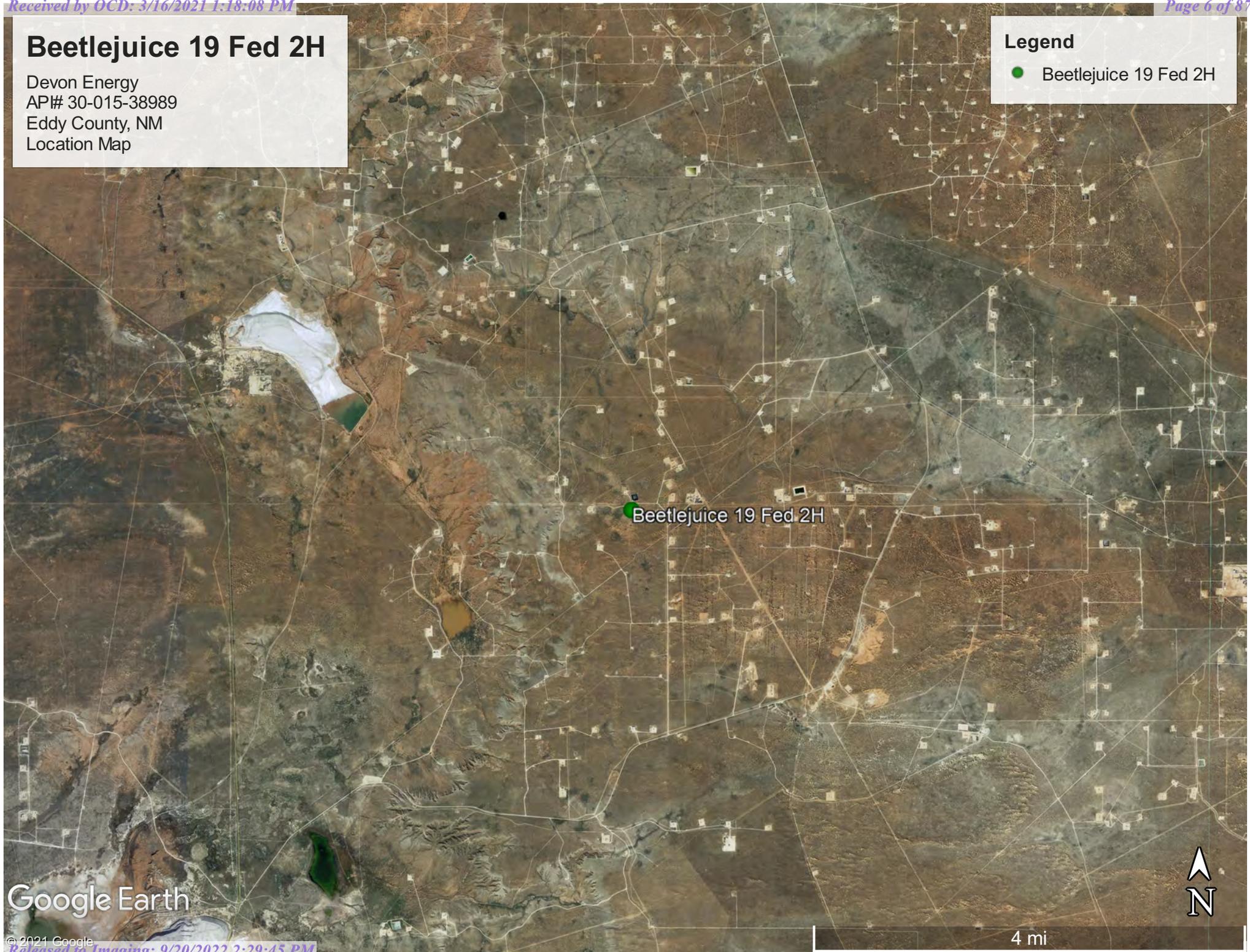
4-Site Map

Beetlejuice 19 Fed 2H

Devon Energy
API# 30-015-38989
Eddy County, NM
Location Map

Legend

- Beetlejuice 19 Fed 2H



Google Earth



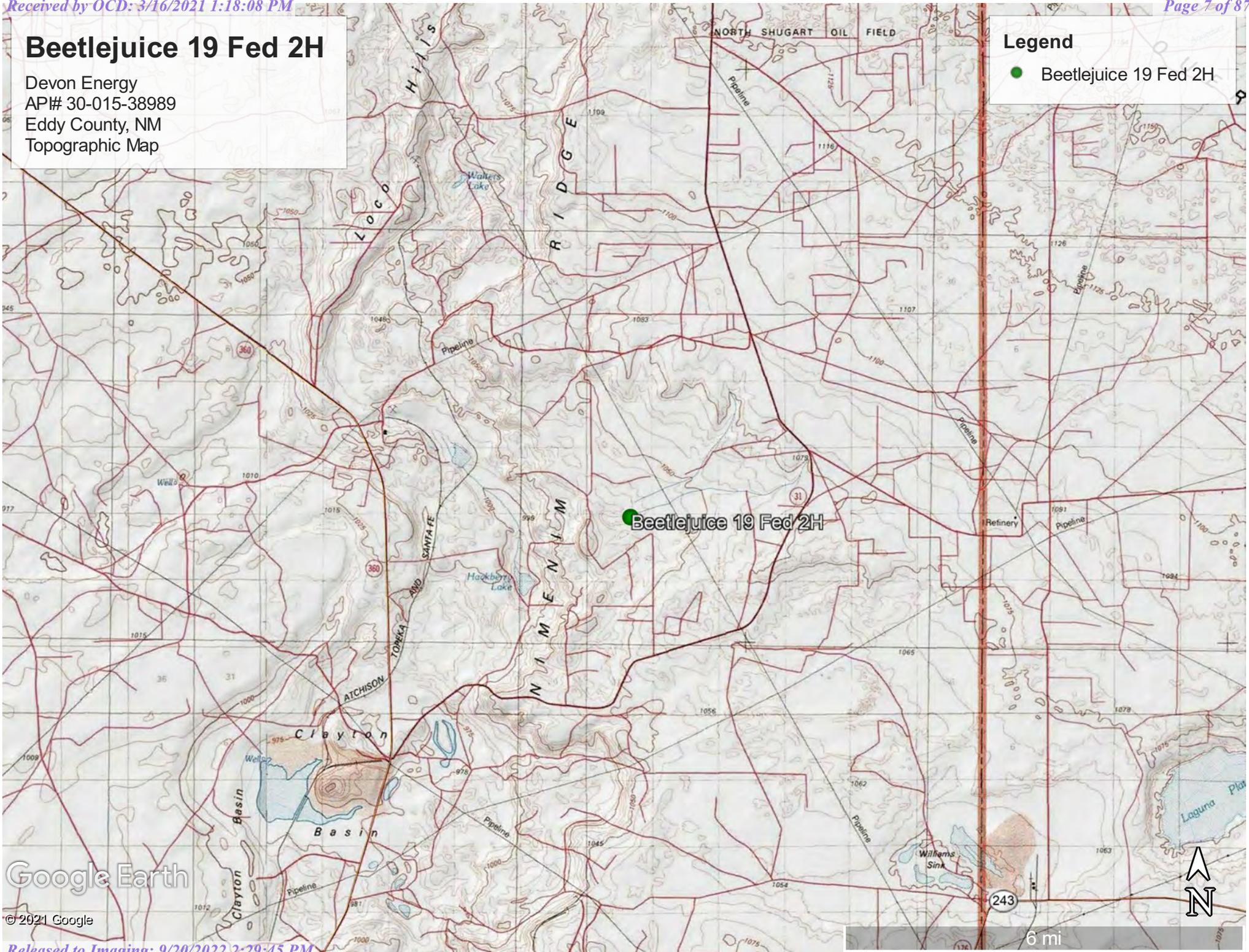
4 mi

Beetlejuice 19 Fed 2H

Devon Energy
API# 30-015-38989
Eddy County, NM
Topographic Map

Legend

- Beetlejuice 19 Fed 2H



Google Earth

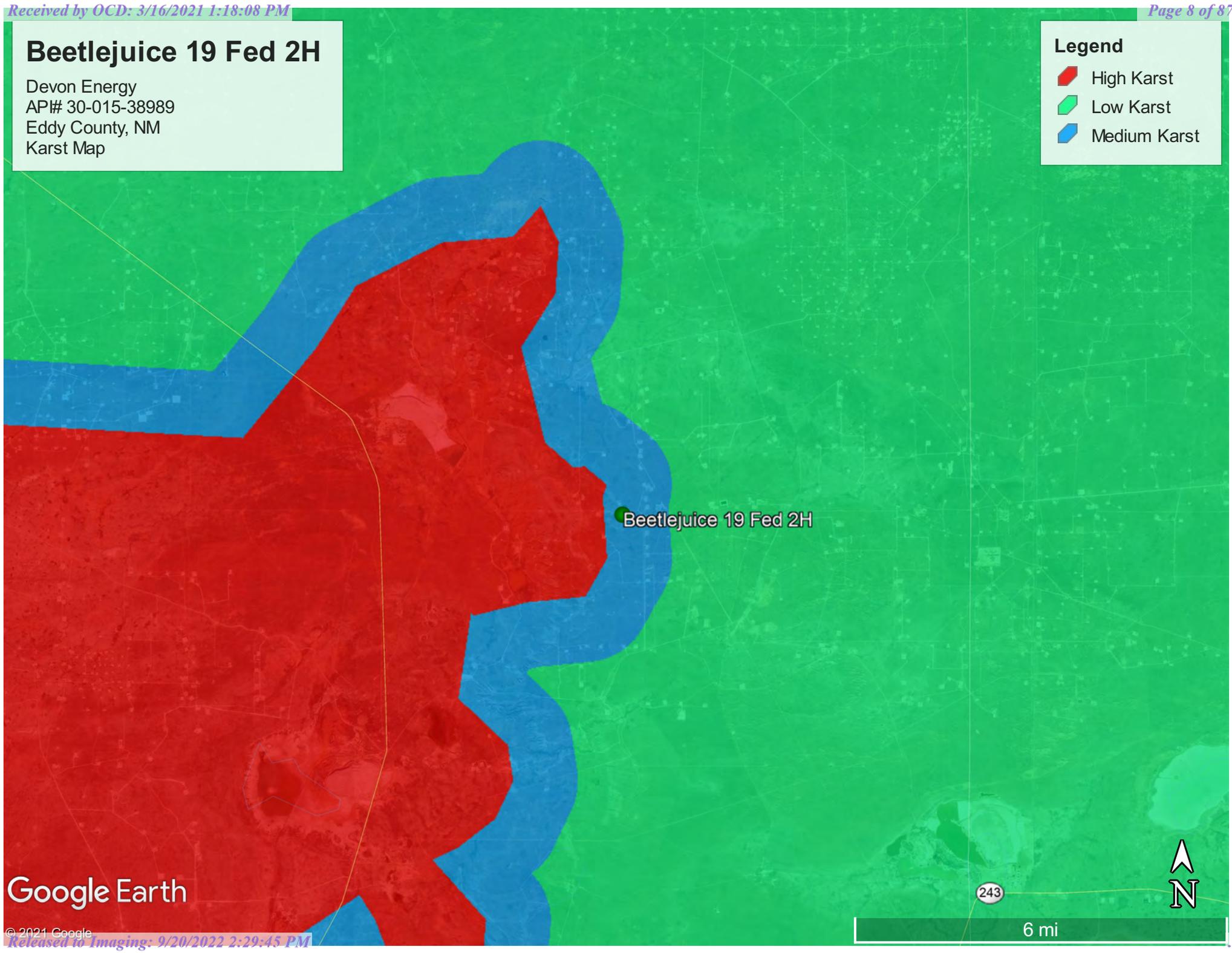
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Beetlejuice 19 Fed 2H

Devon Energy
API# 30-015-38989
Eddy County, NM
Karst Map

Legend

-  High Karst
-  Low Karst
-  Medium Karst



Beetlejuice 19 Fed 2H

243



6 mi

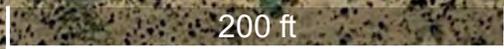
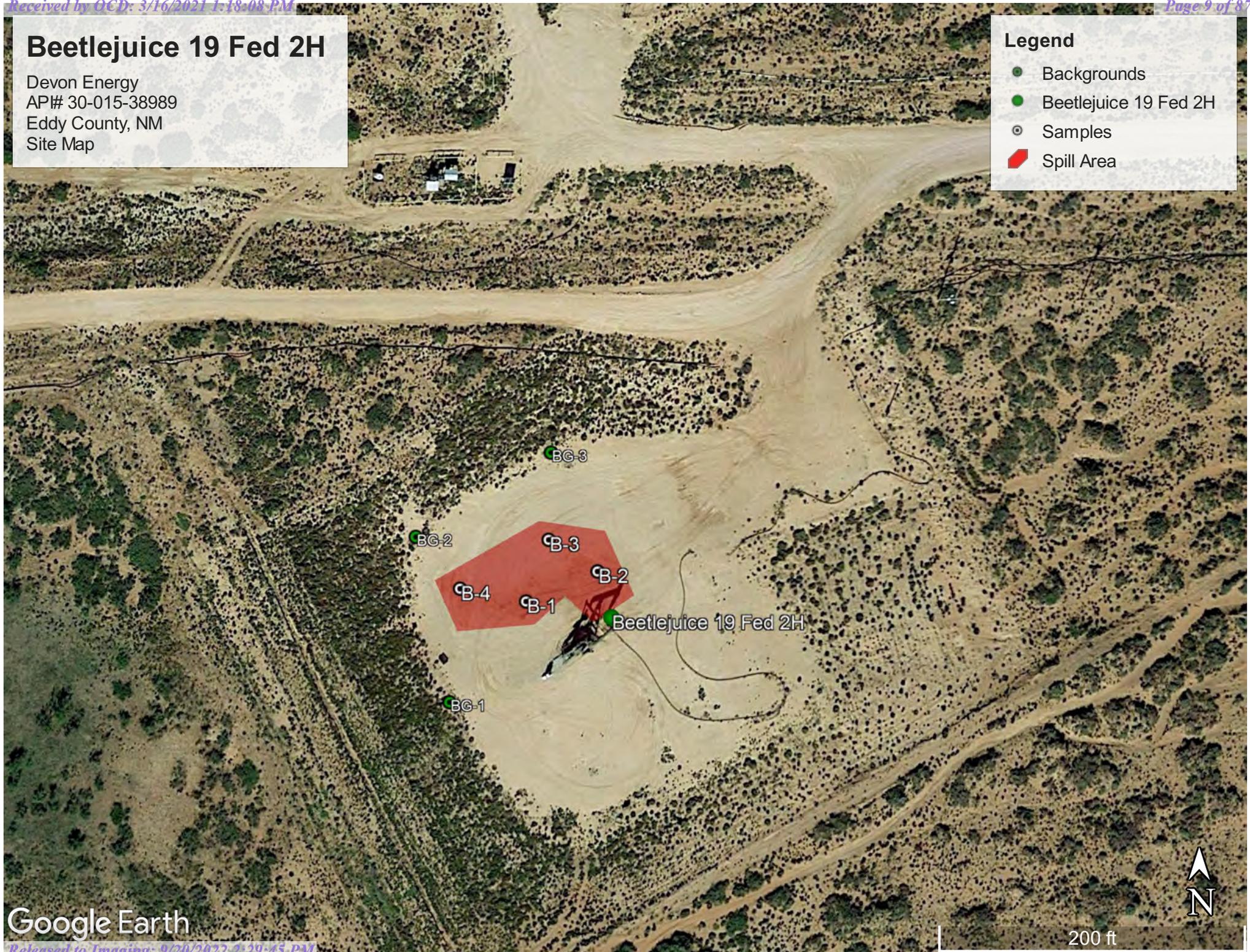
Google Earth

Beetlejuice 19 Fed 2H

Devon Energy
API# 30-015-38989
Eddy County, NM
Site Map

Legend

- Backgrounds
- Beetlejuice 19 Fed 2H
- Samples
- Spill Area





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Appendix A

Water Surveys:

OSE

USGS

Surface Water Map



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

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

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

(In feet)

POD Number	POD Code	Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
CP 00873 POD1		CP	LE	1	1	19	19S	31E		601772	3613147*	883	340	180	160
CP 00357 POD1		CP	ED	4	4	1	24	19S	30E	600667	3612631*	2083	630		
CP 00357 POD2		CP	ED	4	3	1	24	19S	30E	600265	3612627*	2469	630		
CP 00722 POD2		CP	ED	2	1	1	25	19S	30E	600276	3611620*	2896	350	65	285
CP 00829 POD1		CP	LE	2	4	16	19S	31E		606165	3614009*	3593	120		
CP 00725 POD1		CP	ED	1	3	3	28	19S	31E	604906	3610473*	3610	231		
CP 00722 POD1		CP	LE	4	3	3	28	19S	31E	605106	3610273*	3891	200		
CP 00722 POD1	R	CP	LE	4	3	3	28	19S	31E	605106	3610273*	3891	200		

Average Depth to Water: **122 feet**

Minimum Depth: **65 feet**

Maximum Depth: **180 feet**

Record Count: 8

UTMNAD83 Radius Search (in meters):

Easting (X): 602644.45

Northing (Y): 3613287.47

Radius: 4000

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

3/3/21 11:14 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER



USGS Home
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National Water Information System: Web Interface

USGS Water Resources

Data Category:

Groundwater

Geographic Area:

United States

GO

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- [Full News](#) 

Groundwater levels for the Nation

* IMPORTANT: [Next Generation Station Page](#)

Search Results -- 1 sites found

site_no list =

- 323730103524701

Minimum number of levels = 1

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

USGS 323730103524701 19S.31E.28.334133

Available data for this site

Groundwater: Field measurements

GO

Eddy County, New Mexico

Hydrologic Unit Code 13060011

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

Land-surface elevation 3,445 feet above NGVD29

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

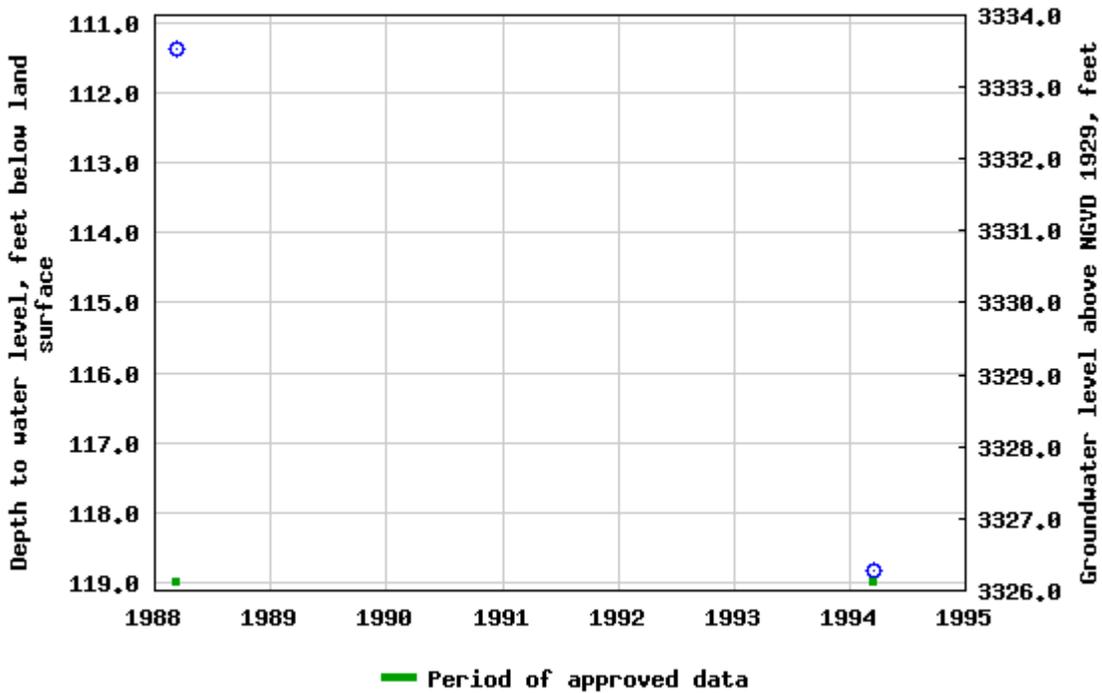
This well is completed in the Other aquifers (N9999OTHER) national aquifer.

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

Output formats

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

USGS 323730103524701 19S.31E.28.334133



Breaks in the plot represent a gap of at least one year between field measurements.
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Title: Groundwater for USA: Water Levels

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



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

Page Last Modified: 2021-03-03 13:17:50 EST

0.68 0.59 nadww02



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National Water Information System: Web Interface

USGS Water Resources

Data Category:

Groundwater ▼

Geographic Area:

United States ▼

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- [Full News](#) 

Groundwater levels for the Nation

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Search Results -- 1 sites found

site_no list =

- 323734103523901

Minimum number of levels = 1

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

USGS 323734103523901 19S.31E.28.33124

Available data for this site

Groundwater: Field measurements ▼

GO

Eddy County, New Mexico

Hydrologic Unit Code 13060011

Latitude 32°37'34", Longitude 103°52'39" NAD27

Land-surface elevation 3,473 feet above NAVD88

The depth of the well is 230 feet below land surface.

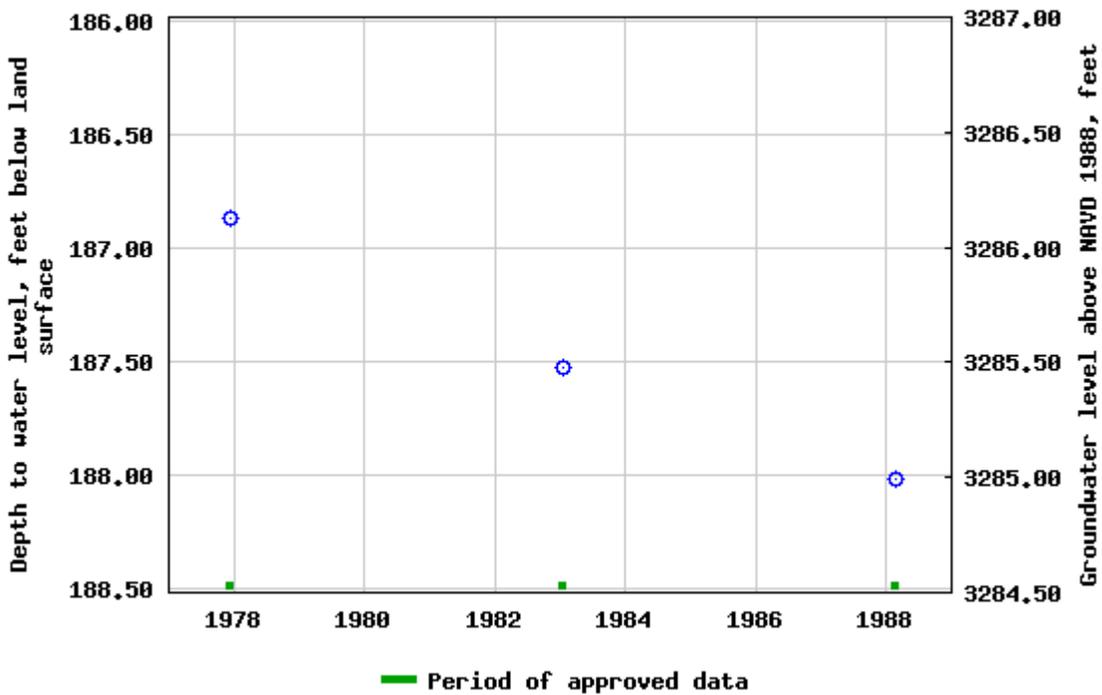
This well is completed in the Other aquifers (N9999OTHER) national aquifer.

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

Output formats

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

USGS 323734103523901 19S.31E.28.33124



Breaks in the plot represent a gap of at least one year between field measurements.
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Title: Groundwater for USA: Water Levels

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



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

Page Last Modified: 2021-03-03 13:18:20 EST

0.64 0.57 nadww02

Beetlejuice 19 Fed 2H

Devon Energy
API# 30-015-38989
Eddy County, NM
Surface Water Map

Legend

-  1.73 Miles
-  Beetlejuice 19 Fed 2H
-  Playa



Google Earth

1 mi





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Appendix B

Soil Survey & Geological Data

FEMA Flood Map

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

Eddy Area, New Mexico

BA—Berino loamy fine sand, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 1w42
Elevation: 2,000 to 5,700 feet
Mean annual precipitation: 6 to 14 inches
Mean annual air temperature: 57 to 70 degrees F
Frost-free period: 180 to 260 days
Farmland classification: Not prime farmland

Map Unit Composition

Berino and similar soils: 99 percent
Minor components: 1 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Berino

Setting

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

Typical profile

H1 - 0 to 12 inches: loamy fine sand
H2 - 12 to 58 inches: sandy clay loam
H3 - 58 to 60 inches: clay loam

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Natural drainage class: Well drained
Runoff class: Low
Capacity of the most limiting layer to transmit water (Ksat):
 Moderately high to high (0.60 to 2.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum in profile: 40 percent
Salinity, maximum in profile: Very slightly saline to slightly saline
 (2.0 to 4.0 mmhos/cm)
Sodium adsorption ratio, maximum in profile: 1.0
Available water storage in profile: Moderate (about 8.4 inches)

Interpretive groups

Land capability classification (irrigated): 3e
Land capability classification (nonirrigated): 7e
Hydrologic Soil Group: B

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

Ecological site: Loamy (R042XC007NM)
Hydric soil rating: No

Minor Components

Pajarito

Percent of map unit: 1 percent
Ecological site: Loamy Sand (R042XC003NM)
Hydric soil rating: No

Data Source Information

Soil Survey Area: Eddy Area, New Mexico
Survey Area Data: Version 15, Sep 15, 2019

National Flood Hazard Layer FIRMette



103°54'39"W 32°39'24"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**
 - Cross Sections with 1% Annual Chance Water Surface Elevation
 - Coastal Transect
 - Base Flood Elevation Line (BFE)
 - Limit of Study
 - Jurisdiction Boundary
 - Coastal Transect Baseline
 - Profile Baseline
 - Hydrographic Feature
 - MAP PANELS**
 - Digital Data Available
 - No Digital Data Available
 - Unmapped
- The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.



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

AUG 24 2017

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

RECEIVED

Release Notification and Corrective Action

NAB1724041654

OPERATOR

Initial Report Final Report

Name of Company Devon Energy Production Company <i>1137</i>	Contact Wesley Ryan-Production Foreman
Address 6488 Seven Rivers Hwy Artesia, NM 88210	Telephone No. 575-390-5436
Facility Name Beetle Juice 19 Federal 2H	Facility Type Oil

Surface Owner Federal	Mineral Owner Federal	API No 30-015-38989
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LOCATION OF RELEASE

Unit Letter B	Section 19	Township 19S	Range 31E	Feet from the 250	North/South Line FNL	Feet from the 1670	East/West Line FEL	County EDDY
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Latitude: 32.6524544

Longitude: -103.9055176

NATURE OF RELEASE

Type of Release Produced Water & Oil	Volume of Release 3 BBLS Produced Water & 2 BBLS Oil	Volume Recovered 2 BBLS Oil
Source of Release Pumping unit	Date and Hour of Occurrence August 11, 2017 8:20 AM	Date and Hour of Discovery August 11, 2017 8:20 AM
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? BLM- Shelly Tucker & OCD-Mike Bratcher	
By Whom? Leonard Aguilar-Assistant Production Foreman	Date and Hour BLM: August 11, 2017 12:08 PM OCD: August 11, 2017 12:15 PM	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse N/A	

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

Describe Cause of Problem and Remedial Action Taken.*

A stainless steel tube line from the pumping unit disconnected from the transducer. The well was immediately shut in to prevent any further release. The tube line has been repaired.

Describe Area Affected and Cleanup Action Taken.*

3 BBLS of Produce Water & 2 BBLS of Oil was released from stainless steel tube line that is usually connected to the transducer. A vacuum truck was dispatched and 2 BBLS of Oil was recovered. The release originated from the pumping unit that is located on well pad on the west side of the pumping unit. An area approximately 30 ft x 30 ft on well pad was affected by the release. None of the released fluid left pad. An environmental contractor will be contacted to assist with the delineation and 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>Jennifer Reyna</i>	OIL CONSERVATION DIVISION	
Printed Name: Jennifer Reyna	Approved by Environmental Specialist: <i>Crystal Wu</i>	
Title: Field Admin Support	Approval Date: <i>8/28/17</i>	Expiration Date: <i>N/A</i>
E-mail Address: <i>jennifer.reyna@dvn.com</i>	Conditions of Approval: <i>See attached</i>	Attached: <i>2 RP 4361</i>
Date: 8/14/2017 Phone: 575.746.5588		

Incident ID	NAB1724041654
District RP	2RP-4361
Facility ID	
Application ID	

Site Assessment/Characterization

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

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

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

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

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

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

State of New Mexico
Oil Conservation Division

Incident ID	NAB1724041654
District RP	2RP-4361
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: Lupe Carrasco Title: EHS Professional

Signature: *Lupe Carrasco* Date: 3/8/2021

email: lupe.carrasco@dvn.com Telephone: 575-725-0787

OCD Only

Received by: _____ Date: _____

Incident ID	NAB1724041654
District RP	2RP-4361
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: Lupe Carrasco Title: EHS Professional
 Signature: *Lupe Carrasco* Date: 3/8/2021
 email: lupe.carrasco@dvn.com Telephone: 575-725-0787

OCD Only

Received by: OCD Date: 3/16/2021

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

Closure Approved by: *Ashley Maxwell* Date: 9/20/2022
 Printed Name: Ashley Maxwell Title: Environmental Specialist



Pima Environmental Services

Appendix D

Photographic Documentation



Artesia, NM 88210, USA
 Latitude Longitude
 32.6524910° 3.905571°
 LOCAL 11 MONDAY 08.24.2020
 GMT 17 ALTITUDE 1029 METER

Artesia, NM 88210, USA
 Latitude Longitude
 32.6523710° 3.905754°
 LOCAL 11 MONDAY 08.24.2020
 GMT 17 ALTITUDE 1019 METER



Artesia, NM 88210, USA
 Latitude Longitude
 32.6525910° 3.905376°
 LOCAL 11 MONDAY 08.24.2020
 GMT 17 ALTITUDE 1016 METER

Artesia, NM 88210, USA
 Latitude Longitude
 32.6525710° 3.905296°
 LOCAL 11 MONDAY 08.24.2020
 GMT 17 ALTITUDE 1016 METER



Artesia, NM 88210, USA
 Latitude Longitude
 32.652491° 103.905350°
 LOCAL 11 MONDAY 08.24.2020
 GMT 17 ALTITUDE 1016 METER

Artesia, NM 88210, USA
 Latitude Longitude
 32.652551° 103.905534°
 LOCAL 11 MONDAY 08.24.2020
 GMT 17 ALTITUDE 1012 METER



Artesia, NM 88210, USA
 Latitude Longitude
 32.652551° 103.905566°
 LOCAL 11 MONDAY 08.24.2020
 GMT 17 ALTITUDE 1037 METER



Pima Environmental Services

Appendix E

Laboratory Reports



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

July 29, 2020

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

RE: Beetle Juice 2H

OrderNo.: 2007A05

Dear Chris Jones:

Hall Environmental Analysis Laboratory received 38 sample(s) on 7/21/2020 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 **2007A05**

Date Reported: **7/29/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: B1-0-6"

Project: Beetle Juice 2H

Collection Date: 7/20/2020 8:20:00 AM

Lab ID: 2007A05-001

Matrix: SOIL

Received Date: 7/21/2020 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: CLP
Diesel Range Organics (DRO)	2000	100		mg/Kg	10	7/22/2020 9:19:02 AM
Motor Oil Range Organics (MRO)	6900	500		mg/Kg	10	7/22/2020 9:19:02 AM
Surr: DNOP	0	55.1-146	S	%Rec	10	7/22/2020 9:19:02 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	7/22/2020 5:54:50 PM
Surr: BFB	90.7	66.6-105		%Rec	1	7/22/2020 5:54:50 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	7/22/2020 5:54:50 PM
Toluene	ND	0.047		mg/Kg	1	7/22/2020 5:54:50 PM
Ethylbenzene	ND	0.047		mg/Kg	1	7/22/2020 5:54:50 PM
Xylenes, Total	ND	0.094		mg/Kg	1	7/22/2020 5:54:50 PM
Surr: 4-Bromofluorobenzene	100	80-120		%Rec	1	7/22/2020 5:54:50 PM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	310	60		mg/Kg	20	7/23/2020 8:48:07 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 **2007A05**

Date Reported: **7/29/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: B1-1'

Project: Beetle Juice 2H

Collection Date: 7/20/2020 8:23:00 AM

Lab ID: 2007A05-002

Matrix: SOIL

Received Date: 7/21/2020 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: CLP
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	7/22/2020 9:42:59 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/22/2020 9:42:59 AM
Surr: DNOP	114	55.1-146		%Rec	1	7/22/2020 9:42:59 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/22/2020 7:05:06 PM
Surr: BFB	91.9	66.6-105		%Rec	1	7/22/2020 7:05:06 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	7/22/2020 7:05:06 PM
Toluene	ND	0.048		mg/Kg	1	7/22/2020 7:05:06 PM
Ethylbenzene	ND	0.048		mg/Kg	1	7/22/2020 7:05:06 PM
Xylenes, Total	ND	0.096		mg/Kg	1	7/22/2020 7:05:06 PM
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	1	7/22/2020 7:05:06 PM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	61	60		mg/Kg	20	7/23/2020 9:00:28 PM

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

Qualifiers:	* Value exceeds Maximum Contaminant Level.	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 **2007A05**

Date Reported: **7/29/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: B1-2'

Project: Beetle Juice 2H

Collection Date: 7/20/2020 8:26:00 AM

Lab ID: 2007A05-003

Matrix: SOIL

Received Date: 7/21/2020 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: CLP
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	7/22/2020 10:06:54 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/22/2020 10:06:54 AM
Surr: DNOP	103	55.1-146		%Rec	1	7/22/2020 10:06:54 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/22/2020 8:15:24 PM
Surr: BFB	93.5	66.6-105		%Rec	1	7/22/2020 8:15:24 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	7/22/2020 8:15:24 PM
Toluene	ND	0.048		mg/Kg	1	7/22/2020 8:15:24 PM
Ethylbenzene	ND	0.048		mg/Kg	1	7/22/2020 8:15:24 PM
Xylenes, Total	ND	0.096		mg/Kg	1	7/22/2020 8:15:24 PM
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	1	7/22/2020 8:15:24 PM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	ND	60		mg/Kg	20	7/23/2020 9:12:50 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 **2007A05**

Date Reported: **7/29/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: B1-3

Project: Beetle Juice 2H

Collection Date: 7/20/2020 8:29:00 AM

Lab ID: 2007A05-004

Matrix: SOIL

Received Date: 7/21/2020 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: CLP
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	7/22/2020 10:30:49 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/22/2020 10:30:49 AM
Surr: DNOP	99.5	55.1-146		%Rec	1	7/22/2020 10:30:49 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/22/2020 8:38:51 PM
Surr: BFB	92.7	66.6-105		%Rec	1	7/22/2020 8:38:51 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	7/22/2020 8:38:51 PM
Toluene	ND	0.050		mg/Kg	1	7/22/2020 8:38:51 PM
Ethylbenzene	ND	0.050		mg/Kg	1	7/22/2020 8:38:51 PM
Xylenes, Total	ND	0.10		mg/Kg	1	7/22/2020 8:38:51 PM
Surr: 4-Bromofluorobenzene	102	80-120		%Rec	1	7/22/2020 8:38:51 PM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	ND	60		mg/Kg	20	7/23/2020 9:25:10 PM

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

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

Analytical Report

Lab Order **2007A05**

Date Reported: **7/29/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: B2-1'

Project: Beetle Juice 2H

Collection Date: 7/20/2020 8:32:00 AM

Lab ID: 2007A05-005

Matrix: SOIL

Received Date: 7/21/2020 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: CLP
Diesel Range Organics (DRO)	25	9.3		mg/Kg	1	7/22/2020 10:54:48 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	7/22/2020 10:54:48 AM
Surr: DNOP	81.7	55.1-146		%Rec	1	7/22/2020 10:54:48 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/22/2020 9:02:17 PM
Surr: BFB	94.6	66.6-105		%Rec	1	7/22/2020 9:02:17 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	7/22/2020 9:02:17 PM
Toluene	ND	0.048		mg/Kg	1	7/22/2020 9:02:17 PM
Ethylbenzene	ND	0.048		mg/Kg	1	7/22/2020 9:02:17 PM
Xylenes, Total	ND	0.096		mg/Kg	1	7/22/2020 9:02:17 PM
Surr: 4-Bromofluorobenzene	103	80-120		%Rec	1	7/22/2020 9:02:17 PM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	460	60		mg/Kg	20	7/23/2020 9:37:31 PM

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

Qualifiers:	* Value exceeds Maximum Contaminant Level.	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 **2007A05**

Date Reported: **7/29/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: B2-2'

Project: Beetle Juice 2H

Collection Date: 7/20/2020 8:35:00 AM

Lab ID: 2007A05-006

Matrix: SOIL

Received Date: 7/21/2020 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: CLP
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	7/22/2020 11:42:48 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/22/2020 11:42:48 AM
Surr: DNOP	117	55.1-146		%Rec	1	7/22/2020 11:42:48 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/22/2020 9:25:48 PM
Surr: BFB	93.9	66.6-105		%Rec	1	7/22/2020 9:25:48 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	7/22/2020 9:25:48 PM
Toluene	ND	0.048		mg/Kg	1	7/22/2020 9:25:48 PM
Ethylbenzene	ND	0.048		mg/Kg	1	7/22/2020 9:25:48 PM
Xylenes, Total	ND	0.096		mg/Kg	1	7/22/2020 9:25:48 PM
Surr: 4-Bromofluorobenzene	99.7	80-120		%Rec	1	7/22/2020 9:25:48 PM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	260	59		mg/Kg	20	7/23/2020 9:49:52 PM

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

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

Analytical Report

Lab Order **2007A05**

Date Reported: **7/29/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: B2-3'

Project: Beetle Juice 2H

Collection Date: 7/20/2020 8:38:00 AM

Lab ID: 2007A05-007

Matrix: SOIL

Received Date: 7/21/2020 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: CLP
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	7/22/2020 12:06:49 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/22/2020 12:06:49 PM
Surr: DNOP	97.6	55.1-146		%Rec	1	7/22/2020 12:06:49 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/22/2020 9:49:16 PM
Surr: BFB	97.4	66.6-105		%Rec	1	7/22/2020 9:49:16 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	7/22/2020 9:49:16 PM
Toluene	ND	0.050		mg/Kg	1	7/22/2020 9:49:16 PM
Ethylbenzene	ND	0.050		mg/Kg	1	7/22/2020 9:49:16 PM
Xylenes, Total	ND	0.099		mg/Kg	1	7/22/2020 9:49:16 PM
Surr: 4-Bromofluorobenzene	104	80-120		%Rec	1	7/22/2020 9:49:16 PM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	160	60		mg/Kg	20	7/23/2020 10:02:13 PM

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

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

Analytical Report

Lab Order **2007A05**

Date Reported: **7/29/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: B2-4'

Project: Beetle Juice 2H

Collection Date: 7/20/2020 8:41:00 AM

Lab ID: 2007A05-008

Matrix: SOIL

Received Date: 7/21/2020 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: CLP
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	7/22/2020 12:30:44 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/22/2020 12:30:44 PM
Surr: DNOP	99.7	55.1-146		%Rec	1	7/22/2020 12:30:44 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/22/2020 10:12:39 PM
Surr: BFB	96.1	66.6-105		%Rec	1	7/22/2020 10:12:39 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	7/22/2020 10:12:39 PM
Toluene	ND	0.048		mg/Kg	1	7/22/2020 10:12:39 PM
Ethylbenzene	ND	0.048		mg/Kg	1	7/22/2020 10:12:39 PM
Xylenes, Total	ND	0.095		mg/Kg	1	7/22/2020 10:12:39 PM
Surr: 4-Bromofluorobenzene	102	80-120		%Rec	1	7/22/2020 10:12:39 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	ND	60		mg/Kg	20	7/24/2020 1:25:44 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 **2007A05**

Date Reported: **7/29/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: B2-5'

Project: Beetle Juice 2H

Collection Date: 7/20/2020 8:44:00 AM

Lab ID: 2007A05-009

Matrix: SOIL

Received Date: 7/21/2020 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: CLP
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	7/22/2020 1:18:40 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	7/22/2020 1:18:40 PM
Surr: DNOP	100	55.1-146		%Rec	1	7/22/2020 1:18:40 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/23/2020 12:33:31 AM
Surr: BFB	92.6	66.6-105		%Rec	1	7/23/2020 12:33:31 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	7/23/2020 12:33:31 AM
Toluene	ND	0.048		mg/Kg	1	7/23/2020 12:33:31 AM
Ethylbenzene	ND	0.048		mg/Kg	1	7/23/2020 12:33:31 AM
Xylenes, Total	ND	0.097		mg/Kg	1	7/23/2020 12:33:31 AM
Surr: 4-Bromofluorobenzene	102	80-120		%Rec	1	7/23/2020 12:33:31 AM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	ND	60		mg/Kg	20	7/24/2020 1:38:08 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 **2007A05**

Date Reported: **7/29/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: B2-6'

Project: Beetle Juice 2H

Collection Date: 7/20/2020 8:47:00 AM

Lab ID: 2007A05-010

Matrix: SOIL

Received Date: 7/21/2020 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: CLP
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	7/22/2020 2:06:27 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/22/2020 2:06:27 PM
Surr: DNOP	103	55.1-146		%Rec	1	7/22/2020 2:06:27 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/23/2020 12:57:02 AM
Surr: BFB	93.2	66.6-105		%Rec	1	7/23/2020 12:57:02 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	7/23/2020 12:57:02 AM
Toluene	ND	0.049		mg/Kg	1	7/23/2020 12:57:02 AM
Ethylbenzene	ND	0.049		mg/Kg	1	7/23/2020 12:57:02 AM
Xylenes, Total	ND	0.098		mg/Kg	1	7/23/2020 12:57:02 AM
Surr: 4-Bromofluorobenzene	102	80-120		%Rec	1	7/23/2020 12:57:02 AM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	ND	60		mg/Kg	20	7/24/2020 2:15:22 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 **2007A05**

Date Reported: **7/29/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: B2-7'

Project: Beetle Juice 2H

Collection Date: 7/20/2020 8:50:00 AM

Lab ID: 2007A05-011

Matrix: SOIL

Received Date: 7/21/2020 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: CLP
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	7/22/2020 2:30:25 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	7/22/2020 2:30:25 PM
Surr: DNOP	119	55.1-146		%Rec	1	7/22/2020 2:30:25 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	7/23/2020 1:20:36 AM
Surr: BFB	94.2	66.6-105		%Rec	1	7/23/2020 1:20:36 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	7/23/2020 1:20:36 AM
Toluene	ND	0.046		mg/Kg	1	7/23/2020 1:20:36 AM
Ethylbenzene	ND	0.046		mg/Kg	1	7/23/2020 1:20:36 AM
Xylenes, Total	ND	0.093		mg/Kg	1	7/23/2020 1:20:36 AM
Surr: 4-Bromofluorobenzene	102	80-120		%Rec	1	7/23/2020 1:20:36 AM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	ND	60		mg/Kg	20	7/24/2020 2:27:47 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 **2007A05**

Date Reported: **7/29/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: B2-8'

Project: Beetle Juice 2H

Collection Date: 7/20/2020 8:53:00 AM

Lab ID: 2007A05-012

Matrix: SOIL

Received Date: 7/21/2020 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: CLP
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	7/22/2020 2:54:24 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/22/2020 2:54:24 PM
Surr: DNOP	108	55.1-146		%Rec	1	7/22/2020 2:54:24 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/23/2020 1:44:10 AM
Surr: BFB	95.9	66.6-105		%Rec	1	7/23/2020 1:44:10 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	7/23/2020 1:44:10 AM
Toluene	ND	0.049		mg/Kg	1	7/23/2020 1:44:10 AM
Ethylbenzene	ND	0.049		mg/Kg	1	7/23/2020 1:44:10 AM
Xylenes, Total	ND	0.097		mg/Kg	1	7/23/2020 1:44:10 AM
Surr: 4-Bromofluorobenzene	102	80-120		%Rec	1	7/23/2020 1:44:10 AM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	ND	59		mg/Kg	20	7/24/2020 2:40:12 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 **2007A05**

Date Reported: **7/29/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: B2-9'

Project: Beetle Juice 2H

Collection Date: 7/20/2020 8:57:00 AM

Lab ID: 2007A05-013

Matrix: SOIL

Received Date: 7/21/2020 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: CLP
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	7/22/2020 3:18:28 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	7/22/2020 3:18:28 PM
Surr: DNOP	129	55.1-146		%Rec	1	7/22/2020 3:18:28 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/23/2020 2:07:45 AM
Surr: BFB	91.1	66.6-105		%Rec	1	7/23/2020 2:07:45 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	7/23/2020 2:07:45 AM
Toluene	ND	0.049		mg/Kg	1	7/23/2020 2:07:45 AM
Ethylbenzene	ND	0.049		mg/Kg	1	7/23/2020 2:07:45 AM
Xylenes, Total	ND	0.099		mg/Kg	1	7/23/2020 2:07:45 AM
Surr: 4-Bromofluorobenzene	100	80-120		%Rec	1	7/23/2020 2:07:45 AM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	ND	60		mg/Kg	20	7/24/2020 2:52:36 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 **2007A05**

Date Reported: **7/29/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: B3-0-6"

Project: Beetle Juice 2H

Collection Date: 7/20/2020 9:00:00 AM

Lab ID: 2007A05-014

Matrix: SOIL

Received Date: 7/21/2020 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: CLP
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	7/22/2020 3:42:37 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/22/2020 3:42:37 PM
Surr: DNOP	139	55.1-146		%Rec	1	7/22/2020 3:42:37 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/23/2020 2:31:23 AM
Surr: BFB	92.9	66.6-105		%Rec	1	7/23/2020 2:31:23 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	7/23/2020 2:31:23 AM
Toluene	ND	0.050		mg/Kg	1	7/23/2020 2:31:23 AM
Ethylbenzene	ND	0.050		mg/Kg	1	7/23/2020 2:31:23 AM
Xylenes, Total	ND	0.10		mg/Kg	1	7/23/2020 2:31:23 AM
Surr: 4-Bromofluorobenzene	102	80-120		%Rec	1	7/23/2020 2:31:23 AM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	ND	60		mg/Kg	20	7/24/2020 3:29:50 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 **2007A05**

Date Reported: **7/29/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: B3-1'

Project: Beetle Juice 2H

Collection Date: 7/20/2020 9:03:00 AM

Lab ID: 2007A05-015

Matrix: SOIL

Received Date: 7/21/2020 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: CLP
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	7/22/2020 4:06:46 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/22/2020 4:06:46 PM
Surr: DNOP	126	55.1-146		%Rec	1	7/22/2020 4:06:46 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/23/2020 2:54:53 AM
Surr: BFB	90.1	66.6-105		%Rec	1	7/23/2020 2:54:53 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	7/23/2020 2:54:53 AM
Toluene	ND	0.049		mg/Kg	1	7/23/2020 2:54:53 AM
Ethylbenzene	ND	0.049		mg/Kg	1	7/23/2020 2:54:53 AM
Xylenes, Total	ND	0.098		mg/Kg	1	7/23/2020 2:54:53 AM
Surr: 4-Bromofluorobenzene	99.5	80-120		%Rec	1	7/23/2020 2:54:53 AM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	65	60		mg/Kg	20	7/24/2020 3:42:14 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 **2007A05**

Date Reported: **7/29/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: B3-2'

Project: Beetle Juice 2H

Collection Date: 7/20/2020 9:06:00 AM

Lab ID: 2007A05-016

Matrix: SOIL

Received Date: 7/21/2020 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: CLP
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	7/22/2020 4:30:56 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/22/2020 4:30:56 PM
Surr: DNOP	102	55.1-146		%Rec	1	7/22/2020 4:30:56 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/23/2020 3:18:22 AM
Surr: BFB	88.6	66.6-105		%Rec	1	7/23/2020 3:18:22 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	7/23/2020 3:18:22 AM
Toluene	ND	0.050		mg/Kg	1	7/23/2020 3:18:22 AM
Ethylbenzene	ND	0.050		mg/Kg	1	7/23/2020 3:18:22 AM
Xylenes, Total	ND	0.099		mg/Kg	1	7/23/2020 3:18:22 AM
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	1	7/23/2020 3:18:22 AM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	64	59		mg/Kg	20	7/24/2020 3:54:38 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 **2007A05**

Date Reported: **7/29/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: B3-3'

Project: Beetle Juice 2H

Collection Date: 7/20/2020 9:09:00 AM

Lab ID: 2007A05-017

Matrix: SOIL

Received Date: 7/21/2020 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: CLP
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	7/22/2020 4:55:06 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/22/2020 4:55:06 PM
Surr: DNOP	104	55.1-146		%Rec	1	7/22/2020 4:55:06 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/23/2020 3:41:48 AM
Surr: BFB	92.6	66.6-105		%Rec	1	7/23/2020 3:41:48 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	7/23/2020 3:41:48 AM
Toluene	ND	0.049		mg/Kg	1	7/23/2020 3:41:48 AM
Ethylbenzene	ND	0.049		mg/Kg	1	7/23/2020 3:41:48 AM
Xylenes, Total	ND	0.097		mg/Kg	1	7/23/2020 3:41:48 AM
Surr: 4-Bromofluorobenzene	102	80-120		%Rec	1	7/23/2020 3:41:48 AM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	ND	60		mg/Kg	20	7/24/2020 4:07:03 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 **2007A05**

Date Reported: **7/29/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: B3-4'

Project: Beetle Juice 2H

Collection Date: 7/20/2020 9:12:00 AM

Lab ID: 2007A05-018

Matrix: SOIL

Received Date: 7/21/2020 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: CLP
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	7/22/2020 5:19:09 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	7/22/2020 5:19:09 PM
Surr: DNOP	104	55.1-146		%Rec	1	7/22/2020 5:19:09 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/23/2020 4:05:15 AM
Surr: BFB	92.0	66.6-105		%Rec	1	7/23/2020 4:05:15 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	7/23/2020 4:05:15 AM
Toluene	ND	0.050		mg/Kg	1	7/23/2020 4:05:15 AM
Ethylbenzene	ND	0.050		mg/Kg	1	7/23/2020 4:05:15 AM
Xylenes, Total	ND	0.10		mg/Kg	1	7/23/2020 4:05:15 AM
Surr: 4-Bromofluorobenzene	105	80-120		%Rec	1	7/23/2020 4:05:15 AM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	ND	60		mg/Kg	20	7/24/2020 4:19:28 PM

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

Qualifiers:	* Value exceeds Maximum Contaminant Level.	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 **2007A05**

Date Reported: **7/29/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: B3-5'

Project: Beetle Juice 2H

Collection Date: 7/20/2020 9:15:00 AM

Lab ID: 2007A05-019

Matrix: SOIL

Received Date: 7/21/2020 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: CLP
Diesel Range Organics (DRO)	ND	9.0		mg/Kg	1	7/22/2020 5:43:08 PM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	7/22/2020 5:43:08 PM
Surr: DNOP	105	55.1-146		%Rec	1	7/22/2020 5:43:08 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	7/23/2020 4:52:12 AM
Surr: BFB	93.4	66.6-105		%Rec	1	7/23/2020 4:52:12 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	7/23/2020 4:52:12 AM
Toluene	ND	0.046		mg/Kg	1	7/23/2020 4:52:12 AM
Ethylbenzene	ND	0.046		mg/Kg	1	7/23/2020 4:52:12 AM
Xylenes, Total	ND	0.093		mg/Kg	1	7/23/2020 4:52:12 AM
Surr: 4-Bromofluorobenzene	102	80-120		%Rec	1	7/23/2020 4:52:12 AM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	ND	60		mg/Kg	20	7/24/2020 4:31:53 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 **2007A05**

Date Reported: **7/29/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: B3-6'

Project: Beetle Juice 2H

Collection Date: 7/20/2020 9:18:00 AM

Lab ID: 2007A05-020

Matrix: SOIL

Received Date: 7/21/2020 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: CLP
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	7/22/2020 6:07:09 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/22/2020 6:07:09 PM
Surr: DNOP	110	55.1-146		%Rec	1	7/22/2020 6:07:09 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/23/2020 5:15:50 AM
Surr: BFB	92.7	66.6-105		%Rec	1	7/23/2020 5:15:50 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	7/23/2020 5:15:50 AM
Toluene	ND	0.048		mg/Kg	1	7/23/2020 5:15:50 AM
Ethylbenzene	ND	0.048		mg/Kg	1	7/23/2020 5:15:50 AM
Xylenes, Total	ND	0.096		mg/Kg	1	7/23/2020 5:15:50 AM
Surr: 4-Bromofluorobenzene	103	80-120		%Rec	1	7/23/2020 5:15:50 AM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	ND	60		mg/Kg	20	7/24/2020 5:09:07 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 **2007A05**

Date Reported: **7/29/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: B3-7'

Project: Beetle Juice 2H

Collection Date: 7/20/2020 9:21:00 AM

Lab ID: 2007A05-021

Matrix: SOIL

Received Date: 7/21/2020 9:30:00 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	7/23/2020 11:21:30 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	7/23/2020 11:21:30 AM
Surr: DNOP	108	55.1-146		%Rec	1	7/23/2020 11:21:30 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	7/23/2020 8:52:04 PM
Surr: BFB	91.0	66.6-105		%Rec	1	7/23/2020 8:52:04 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	7/23/2020 8:52:04 PM
Toluene	ND	0.046		mg/Kg	1	7/23/2020 8:52:04 PM
Ethylbenzene	ND	0.046		mg/Kg	1	7/23/2020 8:52:04 PM
Xylenes, Total	ND	0.093		mg/Kg	1	7/23/2020 8:52:04 PM
Surr: 4-Bromofluorobenzene	103	80-120		%Rec	1	7/23/2020 8:52:04 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	ND	60		mg/Kg	20	7/24/2020 6:11:09 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 **2007A05**

Date Reported: **7/29/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: B4-0-6"

Project: Beetle Juice 2H

Collection Date: 7/20/2020 9:24:00 AM

Lab ID: 2007A05-022

Matrix: SOIL

Received Date: 7/21/2020 9:30:00 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	7/23/2020 11:51:04 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/23/2020 11:51:04 AM
Surr: DNOP	112	55.1-146		%Rec	1	7/23/2020 11:51:04 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/23/2020 10:02:28 PM
Surr: BFB	93.3	66.6-105		%Rec	1	7/23/2020 10:02:28 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	7/23/2020 10:02:28 PM
Toluene	ND	0.049		mg/Kg	1	7/23/2020 10:02:28 PM
Ethylbenzene	ND	0.049		mg/Kg	1	7/23/2020 10:02:28 PM
Xylenes, Total	ND	0.099		mg/Kg	1	7/23/2020 10:02:28 PM
Surr: 4-Bromofluorobenzene	104	80-120		%Rec	1	7/23/2020 10:02:28 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	180	59		mg/Kg	20	7/24/2020 6:23:33 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 **2007A05**

Date Reported: **7/29/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: B4-1'

Project: Beetle Juice 2H

Collection Date: 7/20/2020 9:27:00 AM

Lab ID: 2007A05-023

Matrix: SOIL

Received Date: 7/21/2020 9:30:00 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	7/23/2020 12:00:57 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/23/2020 12:00:57 PM
Surr: DNOP	134	55.1-146		%Rec	1	7/23/2020 12:00:57 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/23/2020 11:12:43 PM
Surr: BFB	94.3	66.6-105		%Rec	1	7/23/2020 11:12:43 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	7/23/2020 11:12:43 PM
Toluene	ND	0.049		mg/Kg	1	7/23/2020 11:12:43 PM
Ethylbenzene	ND	0.049		mg/Kg	1	7/23/2020 11:12:43 PM
Xylenes, Total	ND	0.099		mg/Kg	1	7/23/2020 11:12:43 PM
Surr: 4-Bromofluorobenzene	103	80-120		%Rec	1	7/23/2020 11:12:43 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	130	60		mg/Kg	20	7/24/2020 6:35:58 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 **2007A05**

Date Reported: **7/29/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: B4-2'

Project: Beetle Juice 2H

Collection Date: 7/20/2020 9:30:00 AM

Lab ID: 2007A05-024

Matrix: SOIL

Received Date: 7/21/2020 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: BRM
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	7/23/2020 12:10:50 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/23/2020 12:10:50 PM
Surr: DNOP	164	55.1-146	S	%Rec	1	7/23/2020 12:10:50 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	7/23/2020 11:36:19 PM
Surr: BFB	92.2	66.6-105		%Rec	1	7/23/2020 11:36:19 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	7/23/2020 11:36:19 PM
Toluene	ND	0.046		mg/Kg	1	7/23/2020 11:36:19 PM
Ethylbenzene	ND	0.046		mg/Kg	1	7/23/2020 11:36:19 PM
Xylenes, Total	ND	0.093		mg/Kg	1	7/23/2020 11:36:19 PM
Surr: 4-Bromofluorobenzene	104	80-120		%Rec	1	7/23/2020 11:36:19 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	140	60		mg/Kg	20	7/24/2020 6:48:23 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 **2007A05**

Date Reported: **7/29/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: B4-3'

Project: Beetle Juice 2H

Collection Date: 7/20/2020 9:33:00 AM

Lab ID: 2007A05-025

Matrix: SOIL

Received Date: 7/21/2020 9:30:00 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	7/23/2020 12:20:44 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	7/23/2020 12:20:44 PM
Surr: DNOP	101	55.1-146		%Rec	1	7/23/2020 12:20:44 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/23/2020 11:59:48 PM
Surr: BFB	95.1	66.6-105		%Rec	1	7/23/2020 11:59:48 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	7/23/2020 11:59:48 PM
Toluene	ND	0.048		mg/Kg	1	7/23/2020 11:59:48 PM
Ethylbenzene	ND	0.048		mg/Kg	1	7/23/2020 11:59:48 PM
Xylenes, Total	ND	0.095		mg/Kg	1	7/23/2020 11:59:48 PM
Surr: 4-Bromofluorobenzene	104	80-120		%Rec	1	7/23/2020 11:59:48 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	70	60		mg/Kg	20	7/24/2020 7:00:47 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 **2007A05**

Date Reported: **7/29/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: B4-4'

Project: Beetle Juice 2H

Collection Date: 7/20/2020 9:37:00 AM

Lab ID: 2007A05-026

Matrix: SOIL

Received Date: 7/21/2020 9:30:00 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	7/23/2020 12:30:39 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/23/2020 12:30:39 PM
Surr: DNOP	60.9	55.1-146		%Rec	1	7/23/2020 12:30:39 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/24/2020 12:23:17 AM
Surr: BFB	90.2	66.6-105		%Rec	1	7/24/2020 12:23:17 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	7/24/2020 12:23:17 AM
Toluene	ND	0.048		mg/Kg	1	7/24/2020 12:23:17 AM
Ethylbenzene	ND	0.048		mg/Kg	1	7/24/2020 12:23:17 AM
Xylenes, Total	ND	0.095		mg/Kg	1	7/24/2020 12:23:17 AM
Surr: 4-Bromofluorobenzene	103	80-120		%Rec	1	7/24/2020 12:23:17 AM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	70	61		mg/Kg	20	7/24/2020 7:13:11 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 **2007A05**

Date Reported: **7/29/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: B4-5'

Project: Beetle Juice 2H

Collection Date: 7/20/2020 9:40:00 AM

Lab ID: 2007A05-027

Matrix: SOIL

Received Date: 7/21/2020 9:30:00 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	7/23/2020 12:40:36 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	7/23/2020 12:40:36 PM
Surr: DNOP	72.2	55.1-146		%Rec	1	7/23/2020 12:40:36 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	7/24/2020 12:46:44 AM
Surr: BFB	92.1	66.6-105		%Rec	1	7/24/2020 12:46:44 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	7/24/2020 12:46:44 AM
Toluene	ND	0.047		mg/Kg	1	7/24/2020 12:46:44 AM
Ethylbenzene	ND	0.047		mg/Kg	1	7/24/2020 12:46:44 AM
Xylenes, Total	ND	0.094		mg/Kg	1	7/24/2020 12:46:44 AM
Surr: 4-Bromofluorobenzene	103	80-120		%Rec	1	7/24/2020 12:46:44 AM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	ND	60		mg/Kg	20	7/24/2020 7:25:36 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 **2007A05**

Date Reported: **7/29/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: B4-6'

Project: Beetle Juice 2H

Collection Date: 7/20/2020 9:43:00 AM

Lab ID: 2007A05-028

Matrix: SOIL

Received Date: 7/21/2020 9:30:00 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	7/23/2020 12:50:34 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/23/2020 12:50:34 PM
Surr: DNOP	98.3	55.1-146		%Rec	1	7/23/2020 12:50:34 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/24/2020 1:10:11 AM
Surr: BFB	92.5	66.6-105		%Rec	1	7/24/2020 1:10:11 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	7/24/2020 1:10:11 AM
Toluene	ND	0.049		mg/Kg	1	7/24/2020 1:10:11 AM
Ethylbenzene	ND	0.049		mg/Kg	1	7/24/2020 1:10:11 AM
Xylenes, Total	ND	0.097		mg/Kg	1	7/24/2020 1:10:11 AM
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	1	7/24/2020 1:10:11 AM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	110	60		mg/Kg	20	7/24/2020 7:38:01 PM

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

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

Analytical Report

Lab Order **2007A05**

Date Reported: **7/29/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: B5-0-6"

Project: Beetle Juice 2H

Collection Date: 7/20/2020 9:47:00 AM

Lab ID: 2007A05-029

Matrix: SOIL

Received Date: 7/21/2020 9:30:00 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	7/23/2020 1:00:33 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	7/23/2020 1:00:33 PM
Surr: DNOP	81.8	55.1-146		%Rec	1	7/23/2020 1:00:33 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/24/2020 1:33:43 AM
Surr: BFB	91.6	66.6-105		%Rec	1	7/24/2020 1:33:43 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	7/24/2020 1:33:43 AM
Toluene	ND	0.048		mg/Kg	1	7/24/2020 1:33:43 AM
Ethylbenzene	ND	0.048		mg/Kg	1	7/24/2020 1:33:43 AM
Xylenes, Total	ND	0.095		mg/Kg	1	7/24/2020 1:33:43 AM
Surr: 4-Bromofluorobenzene	102	80-120		%Rec	1	7/24/2020 1:33:43 AM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	ND	60		mg/Kg	20	7/24/2020 8:15:15 PM

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

Qualifiers:	* Value exceeds Maximum Contaminant Level.	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 **2007A05**

Date Reported: **7/29/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: B5-1'

Project: Beetle Juice 2H

Collection Date: 7/20/2020 9:50:00 AM

Lab ID: 2007A05-030

Matrix: SOIL

Received Date: 7/21/2020 9:30:00 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	7/23/2020 1:10:33 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	7/23/2020 1:10:33 PM
Surr: DNOP	58.9	55.1-146		%Rec	1	7/23/2020 1:10:33 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	7/24/2020 1:57:12 AM
Surr: BFB	96.3	66.6-105		%Rec	1	7/24/2020 1:57:12 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	7/24/2020 1:57:12 AM
Toluene	ND	0.047		mg/Kg	1	7/24/2020 1:57:12 AM
Ethylbenzene	ND	0.047		mg/Kg	1	7/24/2020 1:57:12 AM
Xylenes, Total	ND	0.093		mg/Kg	1	7/24/2020 1:57:12 AM
Surr: 4-Bromofluorobenzene	104	80-120		%Rec	1	7/24/2020 1:57:12 AM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	ND	60		mg/Kg	20	7/24/2020 8:27:40 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 **2007A05**

Date Reported: **7/29/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: B5-2'

Project: Beetle Juice 2H

Collection Date: 7/20/2020 9:53:00 AM

Lab ID: 2007A05-031

Matrix: SOIL

Received Date: 7/21/2020 9:30:00 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	7/23/2020 1:20:36 PM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	7/23/2020 1:20:36 PM
Surr: DNOP	54.0	55.1-146	S	%Rec	1	7/23/2020 1:20:36 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/24/2020 3:07:39 AM
Surr: BFB	90.5	66.6-105		%Rec	1	7/24/2020 3:07:39 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	7/24/2020 3:07:39 AM
Toluene	ND	0.049		mg/Kg	1	7/24/2020 3:07:39 AM
Ethylbenzene	ND	0.049		mg/Kg	1	7/24/2020 3:07:39 AM
Xylenes, Total	ND	0.098		mg/Kg	1	7/24/2020 3:07:39 AM
Surr: 4-Bromofluorobenzene	103	80-120		%Rec	1	7/24/2020 3:07:39 AM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	ND	60		mg/Kg	20	7/24/2020 8:40:04 PM

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

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

Analytical Report

Lab Order **2007A05**

Date Reported: **7/29/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: B5-3'

Project: Beetle Juice 2H

Collection Date: 7/20/2020 10:00:00 AM

Lab ID: 2007A05-032

Matrix: SOIL

Received Date: 7/21/2020 9:30:00 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	7/23/2020 1:30:41 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/23/2020 1:30:41 PM
Surr: DNOP	62.1	55.1-146		%Rec	1	7/23/2020 1:30:41 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/24/2020 3:31:08 AM
Surr: BFB	91.2	66.6-105		%Rec	1	7/24/2020 3:31:08 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	7/24/2020 3:31:08 AM
Toluene	ND	0.049		mg/Kg	1	7/24/2020 3:31:08 AM
Ethylbenzene	ND	0.049		mg/Kg	1	7/24/2020 3:31:08 AM
Xylenes, Total	ND	0.098		mg/Kg	1	7/24/2020 3:31:08 AM
Surr: 4-Bromofluorobenzene	102	80-120		%Rec	1	7/24/2020 3:31:08 AM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	ND	60		mg/Kg	20	7/24/2020 8:52:29 PM

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

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

Analytical Report

Lab Order **2007A05**

Date Reported: **7/29/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: B5-4'

Project: Beetle Juice 2H

Collection Date: 7/20/2020 10:03:00 AM

Lab ID: 2007A05-033

Matrix: SOIL

Received Date: 7/21/2020 9:30:00 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	7/23/2020 1:40:46 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	7/23/2020 1:40:46 PM
Surr: DNOP	50.9	55.1-146	S	%Rec	1	7/23/2020 1:40:46 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/24/2020 3:54:36 AM
Surr: BFB	91.1	66.6-105		%Rec	1	7/24/2020 3:54:36 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	7/24/2020 3:54:36 AM
Toluene	ND	0.048		mg/Kg	1	7/24/2020 3:54:36 AM
Ethylbenzene	ND	0.048		mg/Kg	1	7/24/2020 3:54:36 AM
Xylenes, Total	ND	0.097		mg/Kg	1	7/24/2020 3:54:36 AM
Surr: 4-Bromofluorobenzene	103	80-120		%Rec	1	7/24/2020 3:54:36 AM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	ND	60		mg/Kg	20	7/24/2020 9:04:53 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 **2007A05**

Date Reported: **7/29/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: B5-5'

Project: Beetle Juice 2H

Collection Date: 7/20/2020 10:05:00 AM

Lab ID: 2007A05-034

Matrix: SOIL

Received Date: 7/21/2020 9:30:00 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	7/23/2020 1:50:53 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/23/2020 1:50:53 PM
Surr: DNOP	70.2	55.1-146		%Rec	1	7/23/2020 1:50:53 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/24/2020 4:18:02 AM
Surr: BFB	89.5	66.6-105		%Rec	1	7/24/2020 4:18:02 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	7/24/2020 4:18:02 AM
Toluene	ND	0.049		mg/Kg	1	7/24/2020 4:18:02 AM
Ethylbenzene	ND	0.049		mg/Kg	1	7/24/2020 4:18:02 AM
Xylenes, Total	ND	0.098		mg/Kg	1	7/24/2020 4:18:02 AM
Surr: 4-Bromofluorobenzene	100	80-120		%Rec	1	7/24/2020 4:18:02 AM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	ND	60		mg/Kg	20	7/24/2020 9:17:17 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 **2007A05**

Date Reported: **7/29/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: B5-6'

Project: Beetle Juice 2H

Collection Date: 7/20/2020 10:08:00 AM

Lab ID: 2007A05-035

Matrix: SOIL

Received Date: 7/21/2020 9:30:00 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	7/23/2020 2:01:13 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/23/2020 2:01:13 PM
Surr: DNOP	88.1	55.1-146		%Rec	1	7/23/2020 2:01:13 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/24/2020 4:41:26 AM
Surr: BFB	89.2	66.6-105		%Rec	1	7/24/2020 4:41:26 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	7/24/2020 4:41:26 AM
Toluene	ND	0.049		mg/Kg	1	7/24/2020 4:41:26 AM
Ethylbenzene	ND	0.049		mg/Kg	1	7/24/2020 4:41:26 AM
Xylenes, Total	ND	0.098		mg/Kg	1	7/24/2020 4:41:26 AM
Surr: 4-Bromofluorobenzene	100	80-120		%Rec	1	7/24/2020 4:41:26 AM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	72	60		mg/Kg	20	7/24/2020 9:29:41 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 **2007A05**

Date Reported: **7/29/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: BG1

Project: Beetle Juice 2H

Collection Date: 7/20/2020 10:14:00 AM

Lab ID: 2007A05-036

Matrix: SOIL

Received Date: 7/21/2020 9:30:00 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	7/23/2020 2:11:32 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	7/23/2020 2:11:32 PM
Surr: DNOP	64.2	55.1-146		%Rec	1	7/23/2020 2:11:32 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	7/24/2020 5:05:02 AM
Surr: BFB	89.6	66.6-105		%Rec	1	7/24/2020 5:05:02 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	7/24/2020 5:05:02 AM
Toluene	ND	0.046		mg/Kg	1	7/24/2020 5:05:02 AM
Ethylbenzene	ND	0.046		mg/Kg	1	7/24/2020 5:05:02 AM
Xylenes, Total	ND	0.091		mg/Kg	1	7/24/2020 5:05:02 AM
Surr: 4-Bromofluorobenzene	98.9	80-120		%Rec	1	7/24/2020 5:05:02 AM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	ND	60		mg/Kg	20	7/24/2020 9:42:06 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 **2007A05**

Date Reported: **7/29/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: BG2

Project: Beetle Juice 2H

Collection Date: 7/20/2020 10:17:00 AM

Lab ID: 2007A05-037

Matrix: SOIL

Received Date: 7/21/2020 9:30:00 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	7/23/2020 2:21:51 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	7/23/2020 2:21:51 PM
Surr: DNOP	49.0	55.1-146	S	%Rec	1	7/23/2020 2:21:51 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	7/24/2020 5:28:49 AM
Surr: BFB	92.2	66.6-105		%Rec	1	7/24/2020 5:28:49 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	7/24/2020 5:28:49 AM
Toluene	ND	0.046		mg/Kg	1	7/24/2020 5:28:49 AM
Ethylbenzene	ND	0.046		mg/Kg	1	7/24/2020 5:28:49 AM
Xylenes, Total	ND	0.092		mg/Kg	1	7/24/2020 5:28:49 AM
Surr: 4-Bromofluorobenzene	102	80-120		%Rec	1	7/24/2020 5:28:49 AM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	ND	60		mg/Kg	20	7/24/2020 9:54:31 PM

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

Qualifiers:	* Value exceeds Maximum Contaminant Level.	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 **2007A05**

Date Reported: **7/29/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: BG3

Project: Beetle Juice 2H

Collection Date: 7/20/2020 10:20:00 AM

Lab ID: 2007A05-038

Matrix: SOIL

Received Date: 7/21/2020 9:30:00 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	7/23/2020 2:32:11 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	7/23/2020 2:32:11 PM
Surr: DNOP	30.6	55.1-146	S	%Rec	1	7/23/2020 2:32:11 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	7/24/2020 5:52:32 AM
Surr: BFB	92.5	66.6-105		%Rec	1	7/24/2020 5:52:32 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	7/24/2020 5:52:32 AM
Toluene	ND	0.047		mg/Kg	1	7/24/2020 5:52:32 AM
Ethylbenzene	ND	0.047		mg/Kg	1	7/24/2020 5:52:32 AM
Xylenes, Total	ND	0.094		mg/Kg	1	7/24/2020 5:52:32 AM
Surr: 4-Bromofluorobenzene	106	80-120		%Rec	1	7/24/2020 5:52:32 AM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	ND	60		mg/Kg	20	7/24/2020 10:06:56 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#: 2007A05

29-Jul-20

Client: Pima Environmental Services LLC

Project: Beetle Juice 2H

Sample ID: MB-53917	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 53917	RunNo: 70560								
Prep Date: 7/23/2020	Analysis Date: 7/23/2020	SeqNo: 2455116	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-53917	SampType: ics	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 53917	RunNo: 70560								
Prep Date: 7/23/2020	Analysis Date: 7/23/2020	SeqNo: 2455117	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	91.6	90	110			

Sample ID: MB-53936	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 53936	RunNo: 70587								
Prep Date: 7/24/2020	Analysis Date: 7/24/2020	SeqNo: 2456086	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-53936	SampType: ics	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 53936	RunNo: 70587								
Prep Date: 7/24/2020	Analysis Date: 7/24/2020	SeqNo: 2456087	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	91.8	90	110			

Sample ID: MB-53940	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 53940	RunNo: 70587								
Prep Date: 7/24/2020	Analysis Date: 7/24/2020	SeqNo: 2456116	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-53940	SampType: ics	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 53940	RunNo: 70587								
Prep Date: 7/24/2020	Analysis Date: 7/24/2020	SeqNo: 2456117	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	91.2	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#: 2007A05

29-Jul-20

Client: Pima Environmental Services LLC

Project: Beetle Juice 2H

Sample ID: MB-53876	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 53876	RunNo: 70516								
Prep Date: 7/21/2020	Analysis Date: 7/22/2020	SeqNo: 2452843			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		122	55.1	146			

Sample ID: LCS-53876	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 53876	RunNo: 70516								
Prep Date: 7/21/2020	Analysis Date: 7/22/2020	SeqNo: 2452853			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	60	10	50.00	0	119	70	130			
Surr: DNOP	6.0		5.000		120	55.1	146			

Sample ID: LCS-53891	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 53891	RunNo: 70548								
Prep Date: 7/22/2020	Analysis Date: 7/23/2020	SeqNo: 2454065			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	62	10	50.00	0	124	70	130			
Surr: DNOP	6.8		5.000		135	55.1	146			

Sample ID: MB-53891	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 53891	RunNo: 70548								
Prep Date: 7/22/2020	Analysis Date: 7/23/2020	SeqNo: 2454066			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	13		10.00		134	55.1	146			

Sample ID: 2007A05-021AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: B3-7'	Batch ID: 53891	RunNo: 70548								
Prep Date: 7/22/2020	Analysis Date: 7/23/2020	SeqNo: 2454523			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	51	9.6	48.22	2.794	100	47.4	136			
Surr: DNOP	5.3		4.822		109	55.1	146			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2007A05

29-Jul-20

Client: Pima Environmental Services LLC

Project: Beetle Juice 2H

Sample ID: 2007A05-021AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: B3-7'	Batch ID: 53891	RunNo: 70548								
Prep Date: 7/22/2020	Analysis Date: 7/23/2020	SeqNo: 2454524	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	55	9.5	47.66	2.794	110	47.4	136	7.14	43.4	
Surr: DNOP	5.9		4.766		123	55.1	146	0	0	

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2007A05

29-Jul-20

Client: Pima Environmental Services LLC

Project: Beetle Juice 2H

Sample ID: mb-53873	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: 53873		RunNo: 70520							
Prep Date: 7/21/2020	Analysis Date: 7/22/2020		SeqNo: 2453518		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	970		1000		96.7	66.6	105			

Sample ID: ics-53873	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: 53873		RunNo: 70520							
Prep Date: 7/21/2020	Analysis Date: 7/22/2020		SeqNo: 2453519		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	78.2	72.5	106			
Surr: BFB	1000		1000		101	66.6	105			

Sample ID: 2007a05-001ams	SampType: MS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: B1-0-6"	Batch ID: 53873		RunNo: 70520							
Prep Date: 7/21/2020	Analysis Date: 7/22/2020		SeqNo: 2453521		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	4.7	23.70	0	89.6	61.3	114			
Surr: BFB	960		947.9		102	66.6	105			

Sample ID: 2007A05-001AMSD	SampType: MSD		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: B1-0-6"	Batch ID: 53873		RunNo: 70520							
Prep Date: 7/21/2020	Analysis Date: 7/22/2020		SeqNo: 2453522		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	24.75	0	89.5	61.3	114	4.22	20	
Surr: BFB	1000		990.1		105	66.6	105	0	0	

Sample ID: 2007a05-022ams	SampType: MS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: B4-0-6"	Batch ID: 53885		RunNo: 70543							
Prep Date: 7/21/2020	Analysis Date: 7/23/2020		SeqNo: 2454971		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	18	4.8	23.76	0	76.7	61.3	114			
Surr: BFB	970		950.6		102	66.6	105			

Sample ID: 2007a05-022amsd	SampType: MSD		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: B4-0-6"	Batch ID: 53885		RunNo: 70543							
Prep Date: 7/21/2020	Analysis Date: 7/23/2020		SeqNo: 2454972		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#: 2007A05

29-Jul-20

Client: Pima Environmental Services LLC

Project: Beetle Juice 2H

Sample ID: 2007a05-022amsd	SampType: MSD	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: B4-0-6"	Batch ID: 53885	RunNo: 70543								
Prep Date: 7/21/2020	Analysis Date: 7/23/2020	SeqNo: 2454972	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	19	4.9	24.27	0	78.0	61.3	114	3.72	20	
Surr: BFB	980		970.9		100	66.6	105	0	0	

Sample ID: ics-53885	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 53885	RunNo: 70543								
Prep Date: 7/21/2020	Analysis Date: 7/23/2020	SeqNo: 2455013	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	82.6	72.5	106			
Surr: BFB	1000		1000		104	66.6	105			

Sample ID: mb-53885	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 53885	RunNo: 70543								
Prep Date: 7/21/2020	Analysis Date: 7/23/2020	SeqNo: 2455015	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	910		1000		91.0	66.6	105			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2007A05

29-Jul-20

Client: Pima Environmental Services LLC

Project: Beetle Juice 2H

Sample ID: mb-53873	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 53873	RunNo: 70520								
Prep Date: 7/21/2020	Analysis Date: 7/22/2020	SeqNo: 2453605	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	1.1		1.000		106	80	120			

Sample ID: LCS-53873	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 53873	RunNo: 70520								
Prep Date: 7/21/2020	Analysis Date: 7/22/2020	SeqNo: 2453610	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.025	1.000	0	91.7	80	120			
Toluene	0.93	0.050	1.000	0	92.7	80	120			
Ethylbenzene	0.93	0.050	1.000	0	93.4	80	120			
Xylenes, Total	2.9	0.10	3.000	0	95.1	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		103	80	120			

Sample ID: 2007a05-002ams	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: B1-1'	Batch ID: 53873	RunNo: 70520								
Prep Date: 7/21/2020	Analysis Date: 7/22/2020	SeqNo: 2453625	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	0.9891	0	103	78.5	119			
Toluene	1.0	0.049	0.9891	0.01029	105	75.7	123			
Ethylbenzene	1.1	0.049	0.9891	0	108	74.3	126			
Xylenes, Total	3.2	0.099	2.967	0.01673	108	72.9	130			
Surr: 4-Bromofluorobenzene	1.0		0.9891		103	80	120			

Sample ID: 2007A05-002AMSD	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: B1-1'	Batch ID: 53873	RunNo: 70520								
Prep Date: 7/21/2020	Analysis Date: 7/22/2020	SeqNo: 2453631	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.023	0.9372	0	99.4	78.5	119	8.57	20	
Toluene	0.95	0.047	0.9372	0.01029	101	75.7	123	9.28	20	
Ethylbenzene	0.97	0.047	0.9372	0	103	74.3	126	9.68	20	
Xylenes, Total	2.9	0.094	2.812	0.01673	104	72.9	130	9.05	20	
Surr: 4-Bromofluorobenzene	0.96		0.9372		103	80	120	0	0	

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2007A05

29-Jul-20

Client: Pima Environmental Services LLC

Project: Beetle Juice 2H

Sample ID: 2007a05-021ams	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: B3-7'	Batch ID: 53885	RunNo: 70543								
Prep Date: 7/21/2020	Analysis Date: 7/23/2020	SeqNo: 2455037	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.87	0.025	0.9804	0	89.2	78.5	119			
Toluene	0.89	0.049	0.9804	0	90.6	75.7	123			
Ethylbenzene	0.90	0.049	0.9804	0	92.0	74.3	126			
Xylenes, Total	2.7	0.098	2.941	0.01576	92.9	72.9	130			
Surr: 4-Bromofluorobenzene	1.0		0.9804		103	80	120			

Sample ID: 2007a05-021amsd	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: B3-7'	Batch ID: 53885	RunNo: 70543								
Prep Date: 7/21/2020	Analysis Date: 7/23/2020	SeqNo: 2455038	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.84	0.024	0.9794	0	86.2	78.5	119	3.58	20	
Toluene	0.86	0.049	0.9794	0	87.6	75.7	123	3.47	20	
Ethylbenzene	0.87	0.049	0.9794	0	89.2	74.3	126	3.15	20	
Xylenes, Total	2.7	0.098	2.938	0.01576	90.1	72.9	130	3.14	20	
Surr: 4-Bromofluorobenzene	1.0		0.9794		104	80	120	0	0	

Sample ID: LCS-53885	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 53885	RunNo: 70543								
Prep Date: 7/21/2020	Analysis Date: 7/23/2020	SeqNo: 2455067	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.025	1.000	0	91.0	80	120			
Toluene	0.92	0.050	1.000	0	91.8	80	120			
Ethylbenzene	0.93	0.050	1.000	0	92.9	80	120			
Xylenes, Total	2.8	0.10	3.000	0	93.6	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		106	80	120			

Sample ID: mb-53885	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 53885	RunNo: 70543								
Prep Date: 7/21/2020	Analysis Date: 7/23/2020	SeqNo: 2455069	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		103	80	120			

Qualifiers:

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



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

Sample Log-In Check List

Client Name: Pima Environmental Services LLC

Work Order Number: 2007A05

RcptNo: 1

Received By: Cheyenne Cason 7/21/2020 9:30:00 AM

Completed By: Juan Rojas 7/21/2020 9:47:03 AM

Reviewed By: *LB* *7/21/20*

[Signature]

Chain of Custody

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

Log In

3. Was an attempt made to cool the samples? Yes No NA
4. Were all samples received at a temperature of >0° C to 6.0°C Yes No NA
5. Sample(s) in proper container(s)? Yes No
6. Sufficient sample volume for indicated test(s)? Yes No
7. Are samples (except VOA and ONG) properly preserved? Yes No
8. Was preservative added to bottles? Yes No NA
9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes No NA
10. Were any sample containers received broken? Yes No
11. Does paperwork match bottle labels? Yes No
 (Note discrepancies on chain of custody)
12. Are matrices correctly identified on Chain of Custody? Yes No
13. Is it clear what analyses were requested? Yes No
14. Were all holding times able to be met? Yes No
 (If no, notify customer for authorization.)

of preserved bottles checked for pH: _____
 (<2 or >12 unless noted)
 Adjusted? _____
 Checked by: SPA 7.21.20

Special Handling (if applicable)

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

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

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	5.8	Good				
2	1.7	Good				

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: Beetle Juice 2H

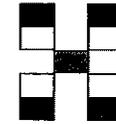
Project #: 20869481

Project Manager: Chris Jones

Sampler:
 On Ice: Yes No

of Coolers: 2

Cooler Temp (including CF): see remarks (°C)



HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	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)	Chloride	
7/20/20	820		B1 - 0-6"	GLASS	ICE	2007A05												
	823		B1 - 1'			-002												
	826		B1 - 2'			-003												
	829		B1 - 3'			-004												
	832		B2 - 1'			-005												
	835		B2 - 2'			-006												
	838		B2 - 3'			-007												
	841		B2 - 4'			-008												
	844		B2 - 5'			-009												
	847		B2 - 6'			-010												
	850		B2 - 7'			-011												
	853		B2 - 8'			-012												

Date: 7/20/20 Time: 1500 Relinquished by: [Signature]

Date: 7/20/20 Time: 1900 Relinquished by: [Signature]

Received by: [Signature] Via: _____ Date: 7/20/20 Time: 1500

Received by: [Signature] Via: Courier Date: 7/21/20 Time: 0930

Remarks: 56 + 0.2 = 25.80
1.5 + 0.2 = 1.70
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: Beetle Juice 2H

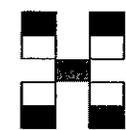
Project #: 20869481

Project Manager: Chris Jones

Sampler:
 On Ice: Yes No

of Coolers: 2

Cooler Temp (including CF): See Remark (°C)



HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	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)	Chloride
7/20/20	857		B2-9'	GLASS	ICE	7007A05											
	8:00		B3-0-6"			-014											
	9:03		B3-1'			-015											
	9:06		B3-2'			-016											
	9:09		B3-3'			-017											
	9:12		B3-4'			-018											
	9:15		B3-5"			-019											
	9:18		B3-6'			-020											
	9:21		B3-7'			-021											
	9:24		B4-0-6'			-022											
	9:27		B4-1'			-023											
	9:30		B4-2'			-024											

Date: 7/20/20 Time: 1500 Relinquished by: [Signature]

Date: 7/20/20 Time: 1500 Received by: [Signature] Via: _____

Date: 7/20/20 Time: 1900 Relinquished by: [Signature]

Date: 7/20/20 Time: 0930 Received by: Chris Carrier Via: _____

Remarks: 5.6 + 0.2 = 5.8
1.5 + 0.2 = 1.7

Bill to Devon

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



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

October 27, 2020

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

RE: Beetle Juice 2H

OrderNo.: 2010A37

Dear Chris Jones:

Hall Environmental Analysis Laboratory received 1 sample(s) on 10/22/2020 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 white background.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order **2010A37**

Date Reported: **10/27/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: B-1 0-6"

Project: Beetle Juice 2H

Collection Date: 10/21/2020 2:40:00 PM

Lab ID: 2010A37-001

Matrix: SOIL

Received Date: 10/22/2020 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	10/23/2020 12:51:20 PM	55992
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/23/2020 12:51:20 PM	55992
Surr: DNOP	78.1	30.4-154		%Rec	1	10/23/2020 12:51:20 PM	55992
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	10/24/2020 6:52:38 AM	55990
Surr: BFB	93.6	75.3-105		%Rec	1	10/24/2020 6:52:38 AM	55990

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#: 2010A37

27-Oct-20

Client: Pima Environmental Services LLC

Project: Beetle Juice 2H

Sample ID: LCS-55992	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 55992	RunNo: 72876								
Prep Date: 10/22/2020	Analysis Date: 10/23/2020	SeqNo: 2562831	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	10	50.00	0	94.8	70	130			
Surr: DNOP	4.7		5.000		93.4	30.4	154			

Sample ID: MB-55992	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 55992	RunNo: 72876								
Prep Date: 10/22/2020	Analysis Date: 10/23/2020	SeqNo: 2562833	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	9.3		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#: 2010A37

27-Oct-20

Client: Pima Environmental Services LLC

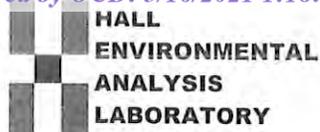
Project: Beetle Juice 2H

Sample ID: ics-55990	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 55990	RunNo: 72897								
Prep Date: 10/22/2020	Analysis Date: 10/24/2020	SeqNo: 2562395	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	85.0	72.5	106			
Surr: BFB	1100		1000		107	75.3	105			S

Sample ID: mb-55990	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 55990	RunNo: 72897								
Prep Date: 10/22/2020	Analysis Date: 10/24/2020	SeqNo: 2562397	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	960		1000		96.1	75.3	105			

Qualifiers:

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



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: 2010A37
RcptNo: 1

Received By: Isaiah Ortiz 10/22/2020 7:40:00 AM

Completed By: Emily Mocho 10/22/2020 9:03:37 AM

Reviewed By: [Signature] 10/22/2020

IL OX

Chain of Custody

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

Log In

- 3. Was an attempt made to cool the samples? Yes [checked] No [] NA []
4. Were all samples received at a temperature of >0° C to 6.0° C? Yes [checked] No [] NA []
5. Sample(s) in proper container(s)? Yes [checked] No []
6. Sufficient sample volume for indicated test(s)? Yes [checked] No []
7. Are samples (except VOA and ONG) properly preserved? Yes [checked] No []
8. Was preservative added to bottles? Yes [] No [checked] NA []
9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes [] No [] NA [checked]
10. Were any sample containers received broken? Yes [] No [checked]
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes [checked] No []
12. Are matrices correctly identified on Chain of Custody? Yes [checked] No []
13. Is it clear what analyses were requested? Yes [checked] No []
14. Were all holding times able to be met? (If no, notify customer for authorization.) Yes [checked] No []

of preserved bottles checked for pH: (<2 or >12 unless noted)

Adjusted?

Checked by: JR 10/22/20

Special Handling (if applicable)

- 15. Was client notified of all discrepancies with this order? Yes [] No [] NA [checked]

Person Notified: [] Date: []
By Whom: [] Via: [] eMail [] Phone [] Fax [] In Person []
Regarding: []
Client Instructions: []

16. Additional remarks:

17. Cooler Information

Table with 7 columns: Cooler No, Temp °C, Condition, Seal Intact, Seal No, Seal Date, Signed By. Row 1: 1, 1.8, Good, Not Present, [], [], []

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 20939

CONDITIONS

Operator: Pima Environmental Services, LLC 5614 N Lovington Hwy Hobbs, NM 88240	OGRID: 329999
	Action Number: 20939
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	None	9/20/2022