

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 Department

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: DJR Operating, LLC	OGRID 371838
Contact Name: Larissa Farrell	Contact Telephone: (505) 444-0289
Contact email: lfarrell@djrlc.com	Incident # (assigned by OCD)
Contact mailing address: 1 Road 3263 Aztec, NM 87410	

Location of Release Source

Latitude 36.27968 _____ Longitude -107.39692 _____
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Jicarilla Apache B 15E	Site Type: Well site
Date Release Discovered: 5/19/2020	API# (if applicable) 30-039-27724

Unit Letter	Section	Township	Range	County
P	30	24N	5W	Rio Arriba

Surface Owner: ☐ State ☐ Federal ☒ Tribal ☐ Private (Name: _____)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls) 3.73 bbls	Volume Recovered (bbls) 0 bbls
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls): 8.37 bbls	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

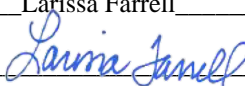
Cause of Release: A small hole in tank was discovered 4" above the bottom of the tank.

Incident ID	
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Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

<input checked="" type="checkbox"/> The source of the release has been stopped.	
<input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment.	
<input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.	
<input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
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: <u>Larissa Farrell</u>	Title: <u>Regulatory Specialist</u>
Signature: <u></u>	Date: <u>5/29/2020</u>
email: <u>lfarrell@djrlc.com</u>	Telephone: <u>(505)444-0289</u>
<u>OCD Only</u>	
Received by: _____	Date: _____

Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>>100</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas 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

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Incident ID	
District RP	
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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: Larissa Farrell Title: Regulatory Specialist

Signature:  Date: 08/13/2020

email: lfarrell@djrlc.com Telephone: 505-444-0289

OCD Only

Received by: _____ Date: _____

Incident ID	
District RP	
Facility ID	
Application ID	

Closure


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

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

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

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

Printed Name: Larissa Farrell _____ Title: ___Regulatory Specialist_____

Signature:  Date: _8/13/2020_____

email: _lfarrell@djrlc.com_____ Telephone: __505-444-0289_____

OCD Only

Received by: _____ Date: _____

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

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____



June 4, 2020

Project #17035-0219
NMOCD Incident #nCS1917731471

Ms. Larissa Farrell
DJR Operating, LLC.
PO Box 156
Bloomfield, New Mexico 87413

Phone: (505) 632-3476
Email: lfarrell@djrlc.com

RE: CLOSURE REPORT FOR A RELEASE OF PRODUCED WATER LOCATED AT THE JICARILLA APACHE B 15E WELL SITE (API: 30-039-27724), RIO ARriba COUNTY, NEW MEXICO

Dear Ms. Farrell,

Enclosed please find the *Release Closure Report* detailing confirmation soil sampling activities conducted at the Jicarilla Apache B 15E well site, located in Section 30, Township 24N, Range 5W, Rio Arriba County, New Mexico.

We appreciate the opportunity to be of service. If you have any questions or require additional information, please contact our office at (505) 632-0615.

Respectfully Submitted,
ENVIROTECH, INC.

A handwritten signature in blue ink that reads 'Brittany Hall'.

Brittany Hall
Environmental Field Technician
bhall@envirotech-inc.com

Enclosure: *Release Closure Report*

Cc: Client File Number 17035



RELEASE CLOSURE REPORT

LOCATION:
JICARILLA APACHE B 15E WELL SITE
SECTION 30, TOWNSHIP 24N, RANGE 5W
RIO ARRIBA COUNTY, NEW MEXICO

CONTRACTED BY:
MS. LARISSA FARRELL
DJR OPERATING, LLC.
PO BOX 156
BLOOMFIELD, NEW MEXICO 87413

PROJECT #17035-0219
NMOCD INCIDENT #NCS1917731471
JUNE 4, 2020

DJR OPERATING, LLC
RELEASE CLOSURE REPORT
JICARILLA APACHE B15E; API: 30-039-27724
SECTION 30, TOWNSHIP 24N, RANGE 5W
RIO ARRIBA COUNTY, NEW MEXICO
PROJECT #17035-0219

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Tables:	Table 1, <i>Summary of Soil Analytical Results</i>
Appendices:	Appendix A, <i>Site Photography</i> Appendix B, <i>Siting Criteria Documentation</i> Appendix C, <i>Laboratory Analytical Report</i>



Practical Solutions for a Better Tomorrow



DJR Operating, LLC
Release Closure Report
Jicarilla Apache B15E Well Site
Project #17035-0219
May 2020
Page 1

Introduction

Envirotech, Inc. (Envirotech) of Farmington, New Mexico, was contracted by DJR Operating, LLC (DJR) to provide confirmation sampling activities for a produced water release excavation at the Jicarilla Apache B15E well site (API:30-039-27724) located in Section 30, Township 24 North, Range 5 West in Rio Arriba County, New Mexico; see **Figure 1, Vicinity Map**.

Confirmation Soil Sample Collection

Prior to Envirotech's arrival, DJR had removed the produced water tank and excavated the contaminated soil. Excavation dimensions were approximately 15 feet by 12 feet by 9 feet total depth. Confirmation soil samples were collected under witness of Orson Sandoval, Jicarilla Apache Nation Oil and Gas (JOGA) representative, on May 22, 2020.

One (1) five-point composite sample was collected from the north wall, east wall, west wall, and base for a total of four (4) soil samples. A sample was not collected from the south wall since it consisted of a clean overburden ramp built to access the excavation. Samples were placed into individual laboratory provided 4-ounce jars, capped head space free, and transported on ice to Envirotech Analytical Laboratory. Soil samples were analyzed for total petroleum hydrocarbons (TPH) as gasoline, diesel, and oil range organics (GRO/DRO/ORO) using EPA Method 8015D; benzene, toluene, ethylbenzene, and total xylenes (BTEX) using EPA Method 8021B; and chlorides using EPA Method 300.0. Soil sample locations are illustrated in **Figure 2, Site Map and Appendix A, Site Photography**.

Laboratory Analytical Results

The following New Mexico Oil Conservation Division (NMOCD) closure criteria from *Table 1 in 19.15.29.12 New Mexico Administrative Code (NMAC)* was used as the release closure criteria:

- Chloride – 20,000 mg/kg
- TPH (GRO+DRO) – 1,000 mg/kg
- TPH (GRO+DRO+ORO) – 2,500 mg/kg
- BTEX - 50 mg/kg
- Benzene - 10 mg/kg

Siting criteria documentation is provided in **Appendix B, Siting Criteria Documentation**.



DJR Operating, LLC
Release Closure Report
Jicarilla Apache B15E Well Site
Project #17035-0219
May 2020
Page 2

All soil samples collected for laboratory analysis returned results below the laboratory detection limits for BTEX and TPH except DRO which returned results of 151 mg/kg in the base and 43.1 mg/kg in the north wall. Chloride was detected in all samples analyzed and returned concentrations of 60.6 mg/kg in base, 46.2 mg/kg in the north wall, 105 mg/kg in the east wall, and 60.7 mg/kg in the west wall. Analytical results are summarized in **Appendix C, Laboratory Analytical Report** and **Table 1, Summary of Soil Analytical Results**.

Summary and Conclusions

On May 22, 2020, Envirotech personnel completed confirmation sampling of soil impacted by produced water due to a hole in the produced water tank at the Jicarilla Apache B15E well site, Rio Arriba County, New Mexico.

Based on the final laboratory analytical results of the excavation at the location, GRO, DRO, ORO, BTEX, and chlorides were below the applicable NMOCD and (JOGA) Closure Criteria for Soils Impacted by a Release. DJR Operating will place an above ground tank back in operation at the location; therefore, reclamation will not be required at this time. Envirotech recommends **No Further Action** regarding the subject release site.

Statement of Limitations

The work and services provided by Envirotech were in accordance with NMOCD and JOGA standards. All observations and conclusions provided here are based on the information and current site conditions found at the site of the incident. This work has been conducted and reported in accordance with generally accepted professional practices in geology, engineering, environmental chemistry, and hydrogeology.

We appreciate the opportunity to be of service. If you have any questions or require additional information, please contact our office at (505) 632-0615.

Respectfully submitted,
ENVIROTECH, INC.

Reviewed by:

A handwritten signature in blue ink that reads 'Brittany Hall'.

Brittany Hall
Environmental Field Technician
bhall@envirotech-inc.com

A handwritten signature in blue ink that reads 'Felipe Aragon'.

Felipe Aragon, CHMM, CES
Environmental Assistant Manager
faragon@envirotech-inc.com

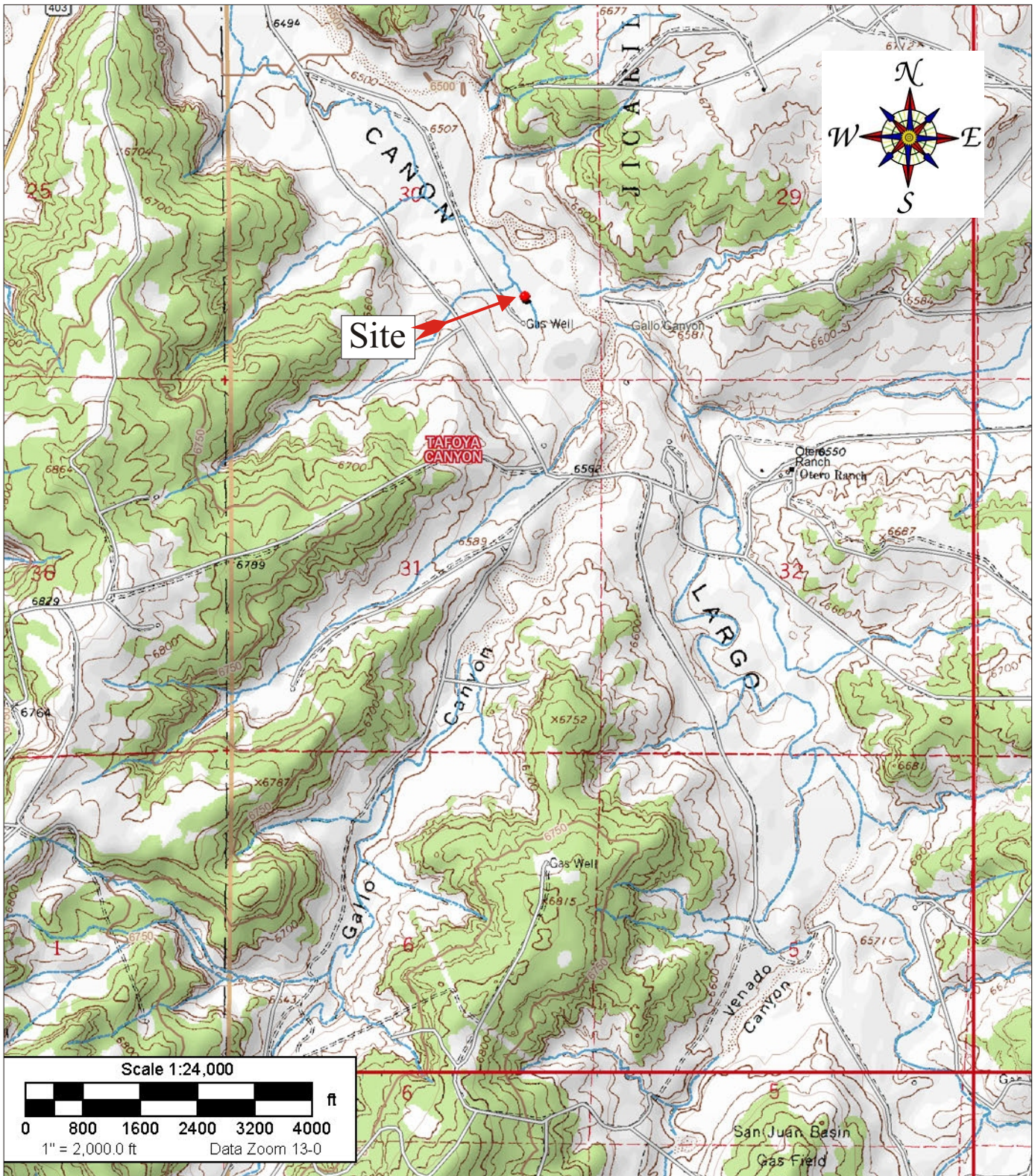
FIGURES

Figure 1, *Vicinity Map*

Figure 2, *Site Map*



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Source: 7.5 Minute, Tafoya Canyon, New Mexico U.S.G.S. Topographic Quadrangle Map
 Scale: 1:24,000 1" = 2,000

DJR Operating, LLC.
 Jicarilla Apache B 15E Well Site
 API Number 43-037-50077
 Section 30, Township 24N, Range 5W
 Rio Arriba County, New Mexico
 NMOCD Incident #nCS1917731471



5796 U.S. HIGHWAY 64
 Farmington, New Mexico 87401
 505.632.0615

Vicinity Map

Figure #1

DRAWN BY:
 Brittany Hall

PROJECT MANAGER:
 Felipe Aragon

Excavation Dimensions:
15' long by 12' wide by 9' bgs



Google Earth

©2020 Google

Legend

- ▽ - Excavation
- - North Wall
- - East Wall
- - Base
- - West Wall

* Sample Location are Representative of 5-Point Composite Soil Samples



MAP DRAWN BY:

BAH
6/2/2020

REVISIONS BY:

NAME
DATE

APPROVED BY:

NAME
DATE

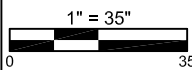


Figure 2, Site Map

DJR Operating, LLC.
Confirmation Sampling Report
Jicarilla Apache B15E Well Site
API: 30-039-27724

Section 30, Township 24N, Range 5W
Rio Arriba County, New Mexico

Project #17035-0219

NMOCD Incident #nCS1917731471



envirotech

TABLES

Table 1, *Summary of Soil Analytical Results*



Practical Solutions for a Better Tomorrow

Table 1, Summary of Soil Analytical Results
 DJR Operating, LLC
 Release Closure Report
 Jicarilla Apache B15E; API: 30-039-27724
 Section 30, Township 24N, Range 5W
 Rio Arriba County, New Mexico
 Project #17035-0219

Sample Description*	Date	Sample Depth	EPA Method 8015			EPA Method 8021		EPA Method 300.0
			GRO (mg/kg)	DRO (mg/kg)	ORO (mg/kg)	Benzene (mg/kg)	Total BTEX (mg/kg)	Chlorides (mg/kg)
NMOCD Closure Criteria for Soils Impacted by a Release [Table 1 -19.15.29.12 NMAC]			1,000 mg/kg			10 mg/kg	50 mg/kg	20,000 mg/kg
			2,500 mg/kg					
Base	5/22/2020	9 feet	<20.0	151	<50.0	<0.025	<0.100	60.6
North Wall	5/22/2020	1 - 8 feet	<20.0	43.1	<50.0	<0.025	<0.100	46.2
East Wall	5/22/2020	1 - 8 feet	<20.0	<25.0	<50.0	<0.025	<0.0100	105
West Wall	5/22/2020	1 - 8 feet	<20.0	<25.0	<50.0	<0.025	<0.100	60.7

*5-point composite soil samples



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APPENDIX A

Site Photography



Practical Solutions for a Better Tomorrow

**SITE PHOTOGRAPHY
RELEASE CLOSURE REPORT
DJR OPERATING, LLC.
JICARILLA APACHE B 15E WELL SITE
PROJECT NUMBER 17035-0219
MAY 2020**



Picture 1: Well Site Sign



Picture 2: View of Release

**SITE PHOTOGRAPHY
RELEASE CLOSURE REPORT
DJR OPERATING, LLC.
JICARILLA APACHE B 15E WELL SITE
PROJECT NUMBER 17035-0219
MAY 2020**



Picture 3: View of Excavation Looking North



Picture 4: Subsequent Backfill of Release Site

APPENDIX B

Siting Criteria Documentation



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Site Name: Jicarilla Apache B 15 E
API #:
Lat/Long: 36.27968, -107.39682
TRS: Unit P SE/SE Section 10 T24N R5W
Land Jurisdiction: Jicarilla Apache Nation
County: Rio Arriba

Wellhead Protection Area Assessment				
Determine the horizontal distance from all known water sources within 1/2 mile of the release including private and domestic water sources. Water sources are wells, springs or other sources of fresh water extraction . Private and domestic water sources are those water sources used by less than five households for domestic or stock purposes. (NMAC 19.15.29.11A.3)				
Water Source Type (well/spring/stock pond)	ID (if available)	Latitude	Longitude	Distance
None reported within 1,000 feet of BGT				
Distance to Nearest Significant Watercourse (NMAC 19.15.29.11A.4)				
'Significant watercourse' means a watercourse with a defined bed and bank either named or identified by a dashed blue line on a USGS 7.5 minute quadrangle map or the next lower order tributary with a defined bed and bank of such watercourse.				
490 ft to east, 397 ft to west - unnamed tributaries of Largo Wash; measurements taken from Google Earth aerial images from BGT				
Depth to Groundwater Determination (NMAC 19.15.29.11A.2)				
Cathodic Report/Site Specific Hydrogeology	None Available			
Elevation Differential	46 ft higher elevation than SJ-00074 (similar proximity to unnamed			
Water Wells	SJ-00074 reports depth to water at 216 feet			
Cathodic Report Nearby Wells	None Available			
Sensitive Receptor Determination			Yes	No
**If a release occurs within the following areas, the RP must treat the release as if it occurred less than 50 ft to Groundwater (NMAC 19.15.29.12C.4):				
<300' of any continuously flowing watercourse or any other significant watercourse			<input type="checkbox"/>	<input checked="" type="checkbox"/>
<200' of any lakebed, sinkhole or playa lake (measured from the Ordinary High Water Mark)			<input type="checkbox"/>	<input checked="" type="checkbox"/>
<300' of an occupied permanent residence, school, hospital, institution or church			<input type="checkbox"/>	<input checked="" type="checkbox"/>
<500' of a spring or private/domestic water well used by <5 households for domestic or stock watering purposes			<input type="checkbox"/>	<input checked="" type="checkbox"/>
<1000' of any water well or spring			<input type="checkbox"/>	<input checked="" type="checkbox"/>
Within incorporated municipal boundaries or within a defined municipal fresh water well field			<input type="checkbox"/>	<input checked="" type="checkbox"/>
<300' of a wetland			<input type="checkbox"/>	<input checked="" type="checkbox"/>
Within the area overlying a subsurface mine			<input type="checkbox"/>	<input checked="" type="checkbox"/>
Within an unstable area			<input type="checkbox"/>	<input checked="" type="checkbox"/>
Within a 100-year floodplain			<input type="checkbox"/>	<input checked="" type="checkbox"/>
Explain any 'Yes' Marks:				

Actual Depth to Groundwater is: ≤50 ☐ 50-100 ☐ >100 ☒

**Treat Depth to Groundwater as if it's ≤ 50 ft? Yes ☐ No ☒

	≤50	50-100	>100
Release Action Levels are... Benzene	10	10	10
BTEX (mg/kg)	50	50	50
8015 TPH (GRO/DRO) (mg/kg)	Not Applicable	1,000	1,000
8015 TPH (GRO/DRO/MRO) (mg/kg)	100	2,500	2,500
Chlorides (mg/kg)	600	10,000	20,000





Figure 3, Siting Criteria Map

DJR Operating, LLC.
BGT Release Closure Report
Jicarilla Apache B15E Well Site
API: 30-039-27724
Section 30, Township 24N, Range 5N
Rio Arriba County, New Mexico
Project #17035-0090



5796 U.S. HIGHWAY 64, FARMINGTON, NM 87401 505-632-0615

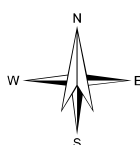
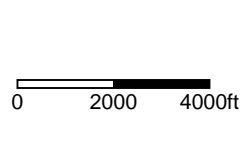
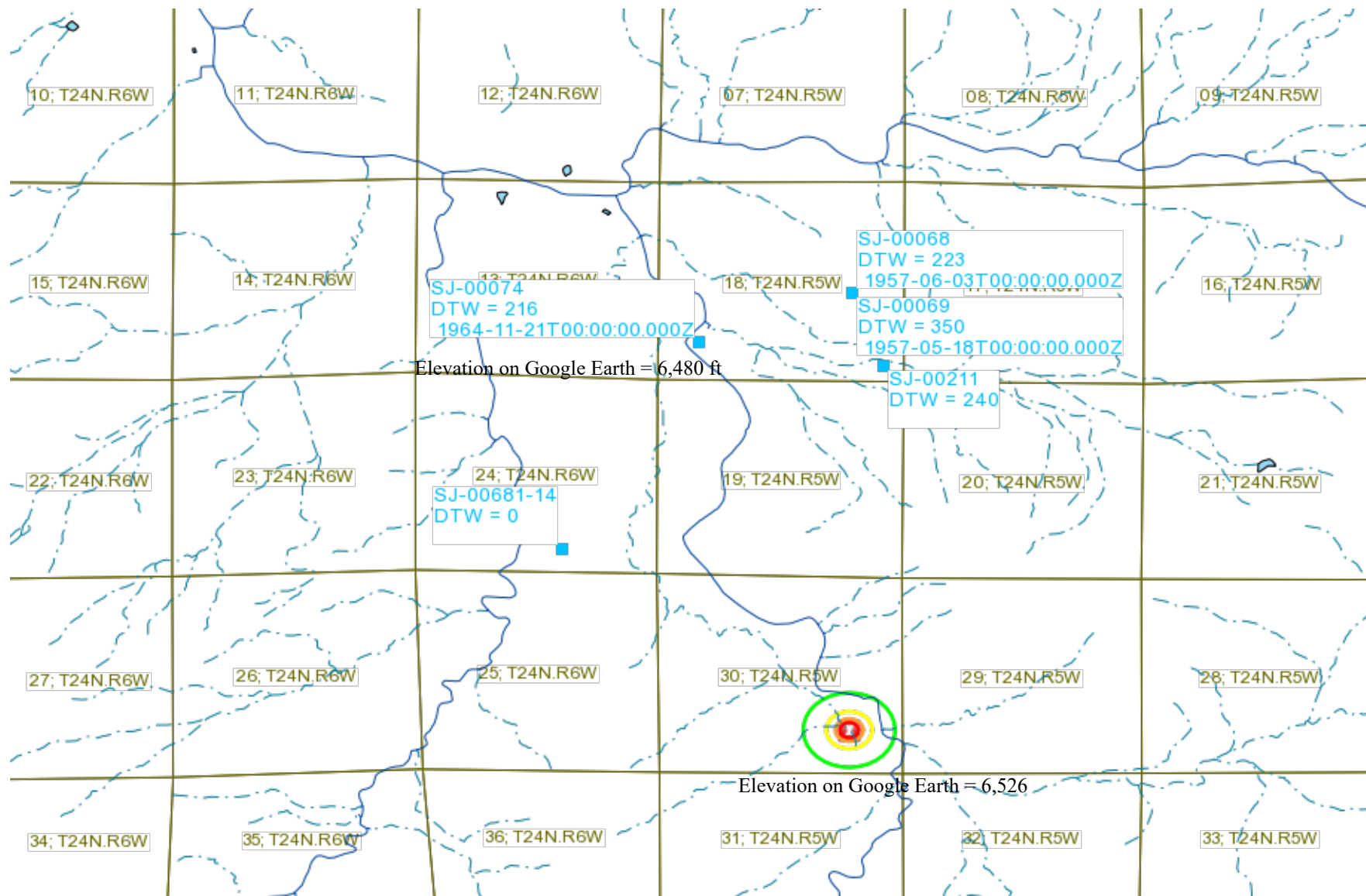
MAP DRAWN BY: NAME	DATE DRAWN: DATE
REVISIONS BY: NAME	DATE REVISED: DATE
APPROVED BY: NAME	DATE APPROVED: DATE

LEGEND

- B15E Area #1
- B15E Area #2
- Excavation

Sample locations represent 5-point composite samples
caollected along the excavation walls and base





Petroleum Recovery
Research Center

SJ-00074

Depth to Groundwater Siting Documentation

Figure:
Jicarilla
Apache B-15E
Jul 16, 2019



New Mexico Office of the State Engineer

Point of Diversion Summary

Well Tag	POD Number	(quarters are 1=NW 2=NE 3=SW 4=SE)						(NAD83 UTM in meters)	
		(quarters are smallest to largest)						X	Y
		Q64	Q16	Q4	Sec	Tw	Rng		
	SJ 00074	2	3	3	18	24N	05W	283811	4020835*

Driller License:		Driller Company:	
Driller Name:		MCDONALD & JOHNSON	
Drill Start Date:	11/21/1964	Drill Finish Date:	01/28/1965
Log File Date:	11/29/1965	PCW Rcv Date:	
Pump Type:		Pipe Discharge Size:	
Casing Size:	10.75	Depth Well:	1004 feet

Water Bearing Stratifications:	Top	Bottom	Description
	960	990	Sandstone/Gravel/Conglomerate
Casing Perforations:	Top	Bottom	
	945	995	

*UTM location was derived from PLSS - see Help

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

7/16/19 12:17 PM

POINT OF DIVERSION SUMMARY

APPENDIX C

Laboratory Analytical Report



Practical Solutions for a Better Tomorrow



Analytical Report

Report Summary

Client: DJR Operating, LLC

Samples Received: 5/22/2020

Job Number: 17035-0028

Work Order: P005075

Project Name/Location: Jicarilla Apache B 15E

Report Reviewed By:

A handwritten signature in black ink, appearing to read 'Walter Hinchman', is written over a light blue rectangular background.

Date: 5/27/20

Walter Hinchman, Laboratory Director



Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted otherwise.
Statement of Data Authenticity: Envirotech, Inc, attests the data reported has not been altered in any way.
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Envirotech, Inc, holds the Utah TNI certification NM009792018-1 for the data reported.
Envirotech, Inc, holds the Texas TNI certification T104704557-19-2 for the data reported.



DJR Operating, LLC
1 Rd 3263
Aztec NM, 87410

Project Name: Jicarilla Apache B 15E
Project Number: 17035-0028
Project Manager: Felipe Aragon

Reported:
05/27/20 11:54

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Base	P005075-01A	Soil	05/22/20	05/22/20	Glass Jar, 4 oz.
	P005075-01B	Soil	05/22/20	05/22/20	Glass Jar, 4 oz.
North Wall	P005075-02A	Soil	05/22/20	05/22/20	Glass Jar, 4 oz.
	P005075-02B	Soil	05/22/20	05/22/20	Glass Jar, 4 oz.
East Wall	P005075-03A	Soil	05/22/20	05/22/20	Glass Jar, 4 oz.
	P005075-03B	Soil	05/22/20	05/22/20	Glass Jar, 4 oz.
West Wall	P005075-04A	Soil	05/22/20	05/22/20	Glass Jar, 4 oz.
	P005075-04B	Soil	05/22/20	05/22/20	Glass Jar, 4 oz.

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DJR Operating, LLC	Project Name:	Jicarilla Apache B 15E	Reported: 05/27/20 11:54
1 Rd 3263	Project Number:	17035-0028	
Aztec NM, 87410	Project Manager:	Felipe Aragon	

Base
P005075-01 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	2022001	05/26/20	05/26/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2022001	05/26/20	05/26/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2022001	05/26/20	05/26/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2022001	05/26/20	05/26/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2022001	05/26/20	05/26/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2022001	05/26/20	05/26/20	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		105 %		50-150	2022001	05/26/20	05/26/20	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	151	25.0	mg/kg	1	2022003	05/26/20	05/26/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2022003	05/26/20	05/26/20	EPA 8015D	
<i>Surrogate: n-Nonane</i>		82.9 %		50-200	2022003	05/26/20	05/26/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2022001	05/26/20	05/26/20	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		91.5 %		50-150	2022001	05/26/20	05/26/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	60.6	20.0	mg/kg	1	2022002	05/26/20	05/26/20	EPA 300.0/9056A	
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DJR Operating, LLC	Project Name:	Jicarilla Apache B 15E	Reported: 05/27/20 11:54
1 Rd 3263	Project Number:	17035-0028	
Aztec NM, 87410	Project Manager:	Felipe Aragon	

North Wall
P005075-02 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	2022001	05/26/20	05/26/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2022001	05/26/20	05/26/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2022001	05/26/20	05/26/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2022001	05/26/20	05/26/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2022001	05/26/20	05/26/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2022001	05/26/20	05/26/20	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		104 %		50-150	2022001	05/26/20	05/26/20	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	43.1	25.0	mg/kg	1	2022003	05/26/20	05/26/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2022003	05/26/20	05/26/20	EPA 8015D	
<i>Surrogate: n-Nonane</i>		95.1 %		50-200	2022003	05/26/20	05/26/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2022001	05/26/20	05/26/20	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		91.7 %		50-150	2022001	05/26/20	05/26/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	46.2	20.0	mg/kg	1	2022002	05/26/20	05/26/20	EPA 300.0/9056A	
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DJR Operating, LLC	Project Name:	Jicarilla Apache B 15E	Reported: 05/27/20 11:54
1 Rd 3263	Project Number:	17035-0028	
Aztec NM, 87410	Project Manager:	Felipe Aragon	

East Wall
P005075-03 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	2022001	05/26/20	05/26/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2022001	05/26/20	05/26/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2022001	05/26/20	05/26/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2022001	05/26/20	05/26/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2022001	05/26/20	05/26/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2022001	05/26/20	05/26/20	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		103 %		50-150	2022001	05/26/20	05/26/20	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2022003	05/26/20	05/26/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2022003	05/26/20	05/26/20	EPA 8015D	
<i>Surrogate: n-Nonane</i>		86.4 %		50-200	2022003	05/26/20	05/26/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2022001	05/26/20	05/26/20	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		92.2 %		50-150	2022001	05/26/20	05/26/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	105	20.0	mg/kg	1	2022002	05/26/20	05/26/20	EPA 300.0/9056A	
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DJR Operating, LLC	Project Name:	Jicarilla Apache B 15E	Reported: 05/27/20 11:54
1 Rd 3263	Project Number:	17035-0028	
Aztec NM, 87410	Project Manager:	Felipe Aragon	

West Wall
P005075-04 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	2022001	05/26/20	05/26/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2022001	05/26/20	05/26/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2022001	05/26/20	05/26/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2022001	05/26/20	05/26/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2022001	05/26/20	05/26/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2022001	05/26/20	05/26/20	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		104 %		50-150	2022001	05/26/20	05/26/20	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2022003	05/26/20	05/26/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2022003	05/26/20	05/26/20	EPA 8015D	
<i>Surrogate: n-Nonane</i>		91.4 %		50-200	2022003	05/26/20	05/26/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2022001	05/26/20	05/26/20	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		92.0 %		50-150	2022001	05/26/20	05/26/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	60.7	20.0	mg/kg	1	2022002	05/26/20	05/26/20	EPA 300.0/9056A	
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DJR Operating, LLC	Project Name:	Jicarilla Apache B 15E	Reported: 05/27/20 11:54
1 Rd 3263	Project Number:	17035-0028	
Aztec NM, 87410	Project Manager:	Felipe Aragon	

Volatile Organics by EPA 8021 - Quality Control**Envirotech Analytical Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2022001 - Purge and Trap EPA 5030A**Blank (2022001-BLK1)**

Prepared: 05/26/20 0 Analyzed: 05/26/20 1

Benzene	ND	0.0250	mg/kg							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
p,m-Xylene	ND	0.0500	"							
o-Xylene	ND	0.0250	"							
Total Xylenes	ND	0.0250	"							
Surrogate: 4-Bromochlorobenzene-PID	8.33		"	8.00		104	50-150			

LCS (2022001-BS1)

Prepared: 05/26/20 0 Analyzed: 05/26/20 1

Benzene	5.09	0.0250	mg/kg	5.00		102	70-130			
Toluene	5.09	0.0250	"	5.00		102	70-130			
Ethylbenzene	5.07	0.0250	"	5.00		101	70-130			
p,m-Xylene	10.1	0.0500	"	10.0		101	70-130			
o-Xylene	5.08	0.0250	"	5.00		102	70-130			
Total Xylenes	15.2	0.0250	"	15.0		101	0-200			
Surrogate: 4-Bromochlorobenzene-PID	8.50		"	8.00		106	50-150			

Matrix Spike (2022001-MS1)

Source: P005075-04

Prepared: 05/26/20 0 Analyzed: 05/26/20 1

Benzene	5.09	0.0250	mg/kg	5.00	ND	102	54.3-133			
Toluene	5.08	0.0250	"	5.00	ND	102	61.4-130			
Ethylbenzene	5.05	0.0250	"	5.00	ND	101	61.4-133			
p,m-Xylene	10.1	0.0500	"	10.0	ND	101	63.3-131			
o-Xylene	5.06	0.0250	"	5.00	ND	101	63.3-131			
Total Xylenes	15.1	0.0250	"	15.0	ND	101	0-200			
Surrogate: 4-Bromochlorobenzene-PID	8.49		"	8.00		106	50-150			

Matrix Spike Dup (2022001-MSD1)

Source: P005075-04

Prepared: 05/26/20 0 Analyzed: 05/26/20 1

Benzene	4.92	0.0250	mg/kg	5.00	ND	98.4	54.3-133	3.40	20	
Toluene	4.89	0.0250	"	5.00	ND	97.8	61.4-130	3.76	20	
Ethylbenzene	4.87	0.0250	"	5.00	ND	97.4	61.4-133	3.66	20	
p,m-Xylene	9.73	0.0500	"	10.0	ND	97.3	63.3-131	3.61	20	
o-Xylene	4.87	0.0250	"	5.00	ND	97.5	63.3-131	3.76	20	
Total Xylenes	14.6	0.0250	"	15.0	ND	97.3	0-200	3.66	200	
Surrogate: 4-Bromochlorobenzene-PID	8.31		"	8.00		104	50-150			

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DJR Operating, LLC	Project Name:	Jicarilla Apache B 15E	Reported: 05/27/20 11:54
1 Rd 3263	Project Number:	17035-0028	
Aztec NM, 87410	Project Manager:	Felipe Aragon	

Nonhalogenated Organics by 8015 - DRO/ORO - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2022003 - DRO Extraction EPA 3570

Blank (2022003-BLK1)

Prepared: 05/26/20 0 Analyzed: 05/26/20 1

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0	"							
Surrogate: n-Nonane	51.0		"	50.0		102	50-200			

LCS (2022003-BS1)

Prepared: 05/26/20 0 Analyzed: 05/26/20 1

Diesel Range Organics (C10-C28)	417	25.0	mg/kg	500		83.4	38-132			
Surrogate: n-Nonane	46.4		"	50.0		92.8	50-200			

Matrix Spike (2022003-MS1)

Source: P005074-01

Prepared: 05/26/20 0 Analyzed: 05/26/20 1

Diesel Range Organics (C10-C28)	14400	2500	mg/kg	500	13500	172	38-132			M4
Surrogate: n-Nonane	0.00		"	50.0			50-200			S6

Matrix Spike Dup (2022003-MSD1)

Source: P005074-01

Prepared: 05/26/20 0 Analyzed: 05/26/20 1

Diesel Range Organics (C10-C28)	14800	2500	mg/kg	500	13500	249	38-132	2.64	20	M4
Surrogate: n-Nonane	0.00		"	50.0			50-200			S6

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DJR Operating, LLC	Project Name:	Jicarilla Apache B 15E	Reported: 05/27/20 11:54
1 Rd 3263	Project Number:	17035-0028	
Aztec NM, 87410	Project Manager:	Felipe Aragon	

Nonhalogenated Organics by 8015 - GRO - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2022001 - Purge and Trap EPA 5030A

Blank (2022001-BLK1)

Prepared: 05/26/20 0 Analyzed: 05/26/20 1

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.30		"	8.00		91.3	50-150			

LCS (2022001-BS2)

Prepared: 05/26/20 0 Analyzed: 05/26/20 1

Gasoline Range Organics (C6-C10)	46.0	20.0	mg/kg	50.0		92.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.52		"	8.00		94.0	50-150			

Matrix Spike (2022001-MS2)

Source: P005075-04

Prepared: 05/26/20 0 Analyzed: 05/26/20 1

Gasoline Range Organics (C6-C10)	48.7	20.0	mg/kg	50.0	ND	97.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.38		"	8.00		92.2	50-150			

Matrix Spike Dup (2022001-MSD2)

Source: P005075-04

Prepared: 05/26/20 0 Analyzed: 05/26/20 1

Gasoline Range Organics (C6-C10)	45.4	20.0	mg/kg	50.0	ND	90.9	70-130	6.92	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.32		"	8.00		91.5	50-150			

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DJR Operating, LLC	Project Name:	Jicarilla Apache B 15E	Reported: 05/27/20 11:54
1 Rd 3263	Project Number:	17035-0028	
Aztec NM, 87410	Project Manager:	Felipe Aragon	

Anions by 300.0/9056A - Quality Control**Envirotech Analytical Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2022002 - Anion Extraction EPA 300.0/9056A**Blank (2022002-BLK1)**

Prepared: 05/26/20 0 Analyzed: 05/26/20 1

Chloride	ND	20.0	mg/kg							
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LCS (2022002-BS1)

Prepared: 05/26/20 0 Analyzed: 05/26/20 1

Chloride	254	20.0	mg/kg	250		102	90-110			
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Matrix Spike (2022002-MS1)**Source: P005076-01**

Prepared: 05/26/20 0 Analyzed: 05/26/20 1

Chloride	261	20.0	mg/kg	250	ND	105	80-120			
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Matrix Spike Dup (2022002-MSD1)**Source: P005076-01**

Prepared: 05/26/20 0 Analyzed: 05/26/20 1

Chloride	260	20.0	mg/kg	250	ND	104	80-120	0.537	20	
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QC Summary Report**Comment:**

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

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DJR Operating, LLC	Project Name:	Jicarilla Apache B 15E	
1 Rd 3263	Project Number:	17035-0028	Reported:
Aztec NM, 87410	Project Manager:	Felipe Aragon	05/27/20 11:54

Notes and Definitions

- S6 Surrogate was diluted out due to high concentrations of target and/or non-target analytes and does not provide useful information. The associated LCS spike recovery was acceptable.
- M4 Matrix spike recovery value is suspect since the analyte concentration in the sample is disproportionate to the spike level. The associated LCS spike recovery was acceptable.
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- ** Methods marked with ** are non-accredited methods.

Soil data is reported on an "as received" weight basis, unless reported otherwise.

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Page 1 of 1



envirotech
Analytical Laboratory

Laboratory & Field Technology

From: [Hobson Sandoval](#)
To: [Larissa Farrell](#)
Cc: [Dave Brown](#)
Subject: Re: FW: Jicarilla Apache B 15E
Date: Wednesday, May 27, 2020 7:49:19 PM
Attachments: [image001.png](#)
[image001.png](#)

Yes, I approve your request. Go ahead and back fill with the soil that is on location. The lab results are all Non Detect for the walls and base. You have done a good job remediating the site.

On Wed, May 27, 2020, 4:35 PM Larissa Farrell <lfarrell@djrlc.com> wrote:

Hi Hobson,

Attached are the results from the confirmation sampling that Envirotech conducted. All constituents are under the NMOCD Table I thresholds and we are requesting approval to backfill this area? We would like to use the soil/sand that has accumulated on location for backfill. Please let me know if you approve.

Thank you,

Larissa Farrell

Regulatory Specialist

(505)444-0289

lfarrell@djrlc.com



From: Larissa Farrell
Sent: Wednesday, May 20, 2020 1:27 PM
To: Hobson Sandoval <hsandoval2012@gmail.com>
Cc: Dave Brown <DBrown@djrlc.com>
Subject: Jicarilla Apache B 15E

Hi Hobson,

Here are the details of the release that was discovered yesterday at the Jicarilla Apache B 15E. Approximately 12.1 BBLS of fluid left the tank through a hole that was about 4" above the ground. Of the 12.1 BBLS, it is estimated that 3.73 BBLS was hydrocarbons and the remaining 8.398 was produced water. The remaining contents of the tank was removed and is being stored in another tank. There will be a crew onsite tomorrow, May 21, 2020 to begin excavation. We will obtain composite samples of the excavated area and meet NMOCD Table I thresholds. All contaminated soil will be transported to Envirotech Landfarm for remediation.

Jicarilla Apache B 15E

30-039-27724

UL-P, Section 30, T24N, R5W

36.27968, -107.39692

Please let me know if you have any questions.

Thank you,

Larissa Farrell

Regulatory Specialist

(505)444-0289

lfarrell@djrlc.com



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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 9685

CONDITIONS

Operator: DJR OPERATING, LLC 1 Road 3263 Aztec, NM 87410	OGRID: 371838
	Action Number: 9685
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
nvelez	Closure accepted for the record based on Jicarilla EPO approval.	3/7/2023