

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	NCS1923948481
District RP	
Facility ID	
Application ID	

## Release Notification

JEPO Approved No Further Action,  
ACCEPTED FOR RECORD, Does not  
MEET NMOCD Requirements.  
No Further Actions Required at this time.

## Responsible Party

Responsible Party: DJR Operating LLC	OGRID: 371838
Contact Name: Dave Brown	Contact Telephone: 505-632-3476
Contact email: dbrown@djrlc.com	Incident # (assigned by OCD)
Contact mailing address: 1 Road 3263; Aztec, NM 87410	NCS1923948481

## Location of Release Source

Latitude 36.22161 \_\_\_\_\_ Longitude 107.05193 \_\_\_\_\_  
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Pubco Apache-3	Site Type: Gas Well
Date Release Discovered: 8/13/2019	API# (if applicable) 30-039-05063

Unit Letter	Section	Township	Range	County
320431	16	T23N	R2W	Rio Arriba

Surface Owner:  State  Federal  Tribal  Private (Name: Jicarilla Nation)

## Nature and Volume of Release

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

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 6.4	Volume Recovered (bbls) 0
	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 valve was left open on the drip to the meter.

State of New Mexico  
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
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*

- X The source of the release has been stopped.
- X The impacted area has been secured to protect human health and the environment.
- X Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
- X All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not 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: David R. Brown Title: Manager of Government and Regulatory Affairs

Signature:  Date: 8/26/2019

email: dbrown@djrlc.com Telephone: 505-632-3476

**OCD Only**

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

## Alice Mascarenas

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**From:** OCDOnline@state.nm.us  
**Sent:** Tuesday, August 27, 2019 1:31 PM  
**To:** Shaw Ford  
**Subject:** New Mexico OCD Application Submission was Approved by the OCD

The Oil Conservation Division (OCD) has approved the application PO: KTJU2-190826-C-1410.  
The original application was submitted by Shaw Crues for DJR OPERATING, LLC.

The user added the additional comment:

"NCS1923948481 PUBCO #003 @ 30-039-05063 General Incident Information Edit Site Name: PUBCO #003 Well: [30-039-05063] PUBCO #003 Facility: Operator: [371838] DJR OPERATING, LLC Status: Closure Not Approved Type: Produced Water Release District: Aztec Severity: Minor Surface Owner: Jicarilla County: Rio Arriba (39) Incident Location: A-16-23N-02W Lot: 0 FNL 0 FEL Lat/Long: 36.22161,-107.05193 NAD83 ".

If you are concerned about receiving this email or have any other questions, please feel free to contact our Santa Fe OCD office.

**New Mexico Energy, Minerals and Natural Resources Department**  
1220 South St. Francis Drive  
Santa Fe, NM 87505

Incident ID	
District RP	
Facility ID	
Application ID	

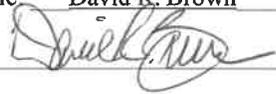
## Closure

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: David R. Brown Title: Manager of Government and Regulatory Affairs  
 Signature:  Date: 9-28-19  
 email: dbrown@djrlc.com Telephone: 505-632-3476

**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: JEPO Approved No Further Action, ACCEPTED FOR RECORD, Does not MEET NMOCD Requirements. Date: \_\_\_\_\_  
 Printed Name: No Further Actions Required at this time. Title: \_\_\_\_\_



September 23, 2019

Project #17035-0112

Mr. Dave Brown  
DJR Operating, LLC  
1 Road 3263  
Aztec, New Mexico 87410

Phone:(303) 887-3695  
E-mail: [dbrown@djrlc.com](mailto:dbrown@djrlc.com)

**RE: Release Closure Report for the Pubco #003 Well Site Located in Section 16, Township 23N, Range 2W, Rio Arriba County New Mexico**

Dear Mr. Brown:

Envirotech, Inc. (Envirotech) of Farmington, New Mexico, was contracted by DJR Operating, LLC (DJR) to provide confirmation sampling activities for the closure of a produced water release at the Pubco #003 well site (API: 30-039-05063) located within Section 16, Township 23 North, Range 2 West in Rio Arriba County, New Mexico; see **Figure 1, Vicinity Map**.

On August 21, 2019, Envirotech personnel arrived on site and collected confirmation soil samples from the spill path. Sampling activities were witnessed by Mr. Hobson Sandoval, Jicarilla Apache Nation Oil and Gas (JOGA) representative.

**CONFIRMATION LABORATORY ANALYSIS**

The soil samples were placed into individual laboratory provided 4-ounce jars, capped head space free, and transported on ice to Envirotech’s analytical laboratory. The soil samples were analyzed per closure criteria provided in *19.15.29.12 (E) New Mexico Administrative Code (NMAC)*. Soil sample locations are illustrated in **Figure 2, Site Map** and in the attached **Site Photography**.

Based on the sitting criteria and C-144 approved by the New Mexico Oil Conservation Division (NMOCD) on August 26, 2019, the following closure criteria from *19.15.29.12 (E) NMAC* was used:

DEPTH TO GROUNDWATER	CONSTITUENT	METHOD	LIMIT
>100 feet	Chloride	EPA 300.0	20,000 mg/kg
	Total Petroleum Hydrocarbons (TPH)	EPA Method 8015D	2,500 mg/kg
	Gasoline + Diesel Range Organics (GRO+DRO)	EPA Method 8015D	1,000 mg/kg
	Benzene, Toluene, Ethylbenzene, Total Xylenes (BTEX)	EPA Method 8021B	50 mg/kg
	Benzene	EPA Method 8021B	10 mg/kg



### SUMMARY AND CONCLUSIONS

On August 21, 2019, Envirotech personnel completed confirmation sampling of soil along the release path at the Pubco #003 well site, Rio Arriba County, New Mexico. The soil samples collected for laboratory analysis returned results below the laboratory detection limits for BTEX and TPH except DRO which returned results of 27.6 mg/kg in the spill path composite sample. Chloride was detected in all the samples analyzed. The spill path composite returned results of 3,660 mg/Kg for chlorides, the spill path grab returned results of 3,900 mg/Kg for chlorides, and the source composite returned results of 10,000 mg/Kg for chlorides. Analytical results are summarized in the attached **Laboratory Analytical Report** and **Table 1, Summary of Soil Analytical Results**.

Based on the final laboratory analytical results, TPH, BTEX, benzene, and chlorides were below the applicable NMOCD and JOGA Closure Criteria for a release. It is Envirotech's opinion that the release can be closed in place and **No Further Action** is needed regarding the subject 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 subject well site. 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.

Handwritten signature of Brittany Hall in blue ink.

Brittany Hall  
Environmental Field Technician  
[bhall@envirotech-inc.com](mailto:bhall@envirotech-inc.com)

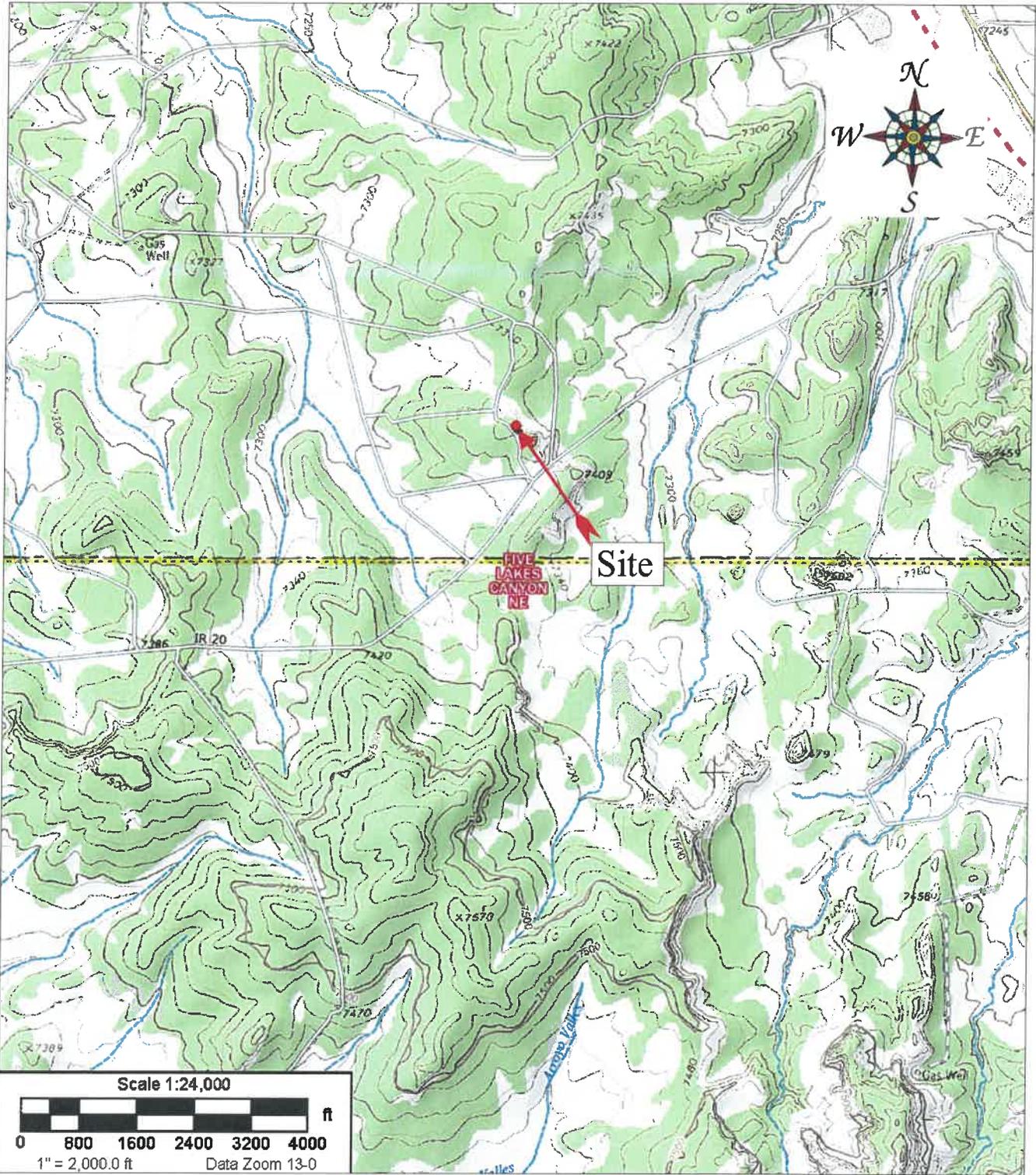
Reviewed by:

Handwritten signature of Felipe Aragon in blue ink.

Felipe Aragon, CHMM, CES  
Environmental Assistant Manager  
[faragon@envirotech-inc.com](mailto:faragon@envirotech-inc.com)

Enclosures: Figure 1, *Vicinity Map*  
Figure 2, *Site Map*  
*Site Photography*  
Table 1, *Summary of Soil Analytical Results Laboratory Analytical Report*  
*Field Notes*

Cc: Client File 17035



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

DJR Operating  
 Pubco #003  
 Section 16, Township 23N, Range 2W  
 Rio Arriba County, New Mexico  
 36.22161, -107.05193



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

Vicinity Map

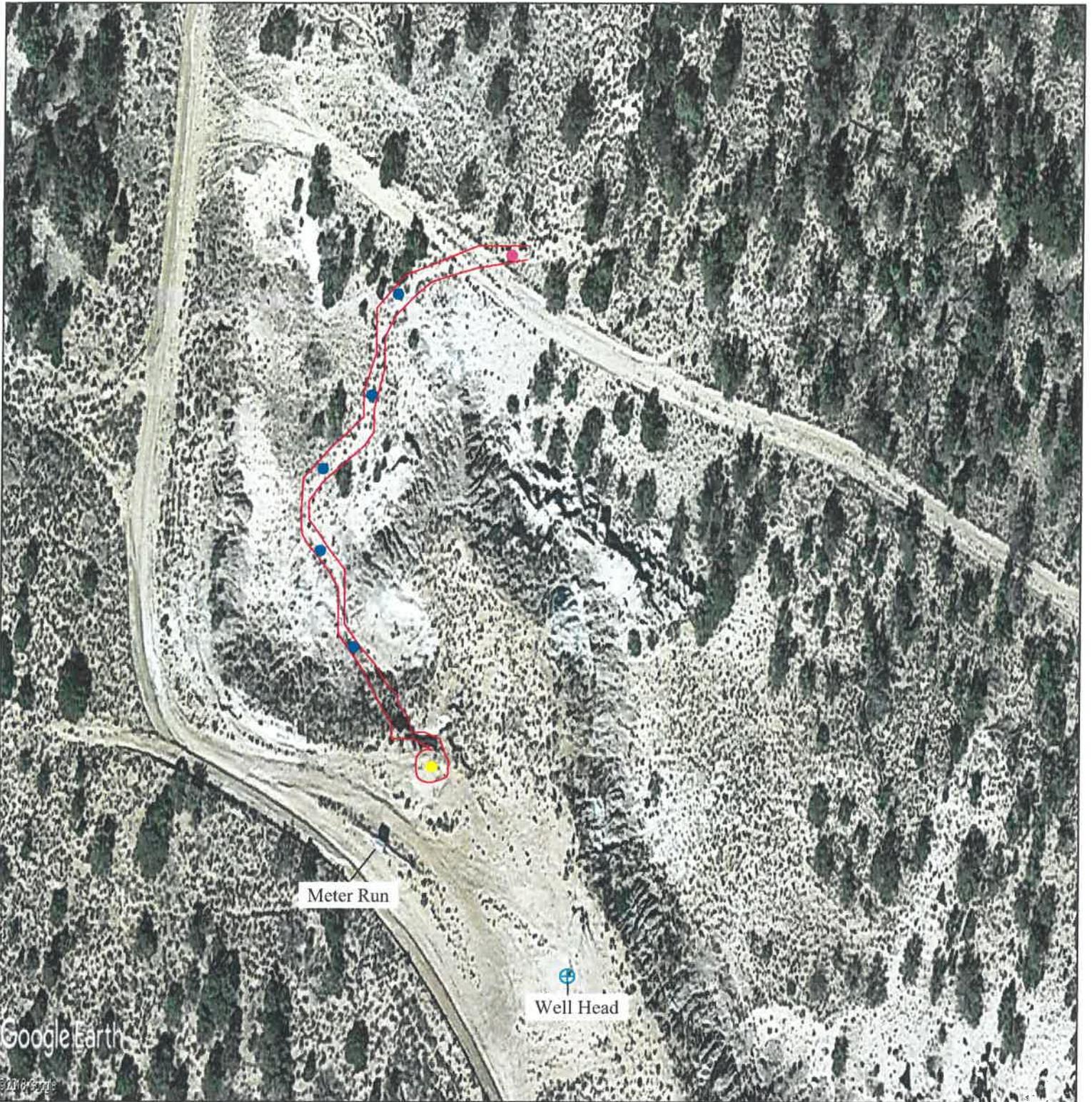
Figure #1

Project Number: 17035-0112

Date Drawn: 9/23/2019

DRAWN BY:  
 Brittany Hall

PROJECT MANAGER:  
 Felipe Aragon



Google Earth

Legend

- - Source Composite
- - Spill Path Composite
- - Spill Path Grab
- - Source Composite



MAP DRAWN BY:  
BAH  
9/23/2019

REVISIONS BY:  
BAH  
9/23/2019

APPROVED BY:  
FRA  
9/23/2019

Scale  
1" = 80'



## Figure 2, Site Map

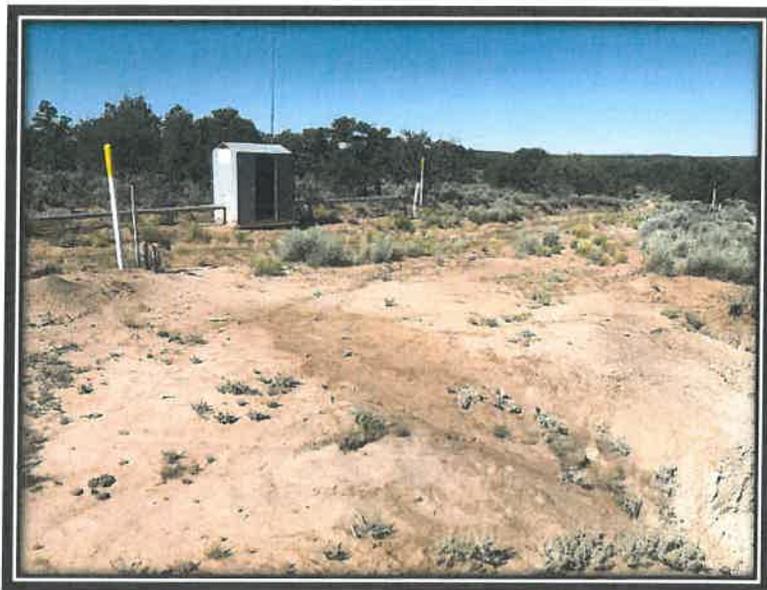
DJR Operating, LLC.  
Pubco #003 Well Site  
API: 30-039-05063

Release Closure Report  
Section 16, Township 23N, Range 2W  
36.22161, -107.05193  
Rio Arriba County, New Mexico  
Project #17035-0112



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

**SITE PHOTOGRAPHY  
RELEASE CLOSURE REPORT  
DJR OPERATING  
PUBCO #003  
PROJECT #17035-0112  
AUGUST 2019**



Picture 1: Source Area



Picture 2: Spill Path

**SITE PHOTOGRAPHY  
RELEASE CLOSURE REPORT  
DJR OPERATING  
PUBCO #003  
PROJECT #17035-0112  
AUGUST 2019**



Picture 3: Spill Path looking North



Picture 4: Terminal End of Spill

Table 1, Summary of Soil Analytical Results  
 DJR Operating, LLC  
 Release Closure Report  
 Pubco #003; API: 30-039-05063  
 Section 16, Township 23N, Range 2W  
 Rio Arriba County, New Mexico  
 Project #17035-0112

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)
<i>NMOCD Closure Criteria: Table 1 -19.15.29.12 (E)</i>			<i>1,000 mg/kg</i>			<i>10 mg/kg</i>	<i>50 mg/kg</i>	<i>20,000 mg/kg</i>
			<i>2,500 mg/kg</i>					
Spill Path Composite*	8/21/2019	0.5 feet	<20.0	27.6	<50.0	<0.0250	<1.00	3.660
Spill Path Grab	8/21/2019	0.5 feet	<20.0	<25.0	<50.0	<0.0250	<1.00	3.900
Source Composite*	8/21/2019	0.5 feet	<20.0	<25.0	<50.0	<0.0250	<1.00	10,000

\*5-point composite soil sample



Practical Solutions for a Better Tomorrow

<b>Site Name:</b>	Pubco No. 003			
<b>API #:</b>	30-039-05063			
<b>Lat/Long:</b>	36.22161,-107.05193			
<b>TRS:</b>	Section 16 T23N R2W			
<b>Land Jurisdiction:</b>	Jicarilla Apache Nation			
<b>County:</b>	Rio Arriba			
<b>Wellhead Protection Area Assessment</b>				
<b>Water Source Type (well/spring/stock pond)</b>	<b>ID</b>	<b>Latitude</b>	<b>Longitude</b>	<b>Distance</b>
None				
<b>Distance to Nearest Significant Watercourse</b>				
1,000 ft North - Chacon Canyon				
<b>Depth to Groundwater Determination</b>				
Cathodic Report/Site Specific Hydrogeology	Not available			
Elevation Differential	131 feet higher than Canada Larga; 100 feet higher			
Water Wells	Not available			
<b>Sensitive Receptor Determination</b>				
<300' of any continuously flowing watercourse or any other significant watercourse	No			
<200' of any lakebed, sinkhole or playa lake (measured from the Ordinary High Water	No			
<300' of an occupied permanent residence, school, hospital, institution or church	No			
<500' of a spring or private/domestic water well used by <5 households for domestic or stock watering purposes	No			
<1000' of any water well or spring	No			
Within incorporated municipal boundaries or within a defined municipal fresh water well	No			
<300' of a wetland	No			
Within the area overlying a subsurface mine	No			
Within an unstable area	No			
Within a 100-year floodplain	No			
<b>DTW Determination</b>	<b>&lt;=50 <input type="checkbox"/></b>	<b>50-100 <input type="checkbox"/></b>	<b>&gt;100 <input checked="" type="checkbox"/></b>	
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	



Practical Solutions of a Better Tomorrow



## Analytical Report

### Report Summary

Client: DJR Operating, LLC

Samples Received: 8/21/2019

Job Number: 17035-0112

Work Order: P908061

Project Name/Location: Pubco Apache #3

Report Reviewed By:

Date: 8/28/19

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.  
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.  
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: Pubco Apache #3 Project Number: 17035-0112 Project Manager: Felipe Aragon	Reported: 08/28/19 14:48
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### Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Spill Path Composite	P908061-01A	Soil	08/21/19	08/21/19	Glass Jar, 4 oz.
	P908061-01B	Soil	08/21/19	08/21/19	Glass Jar, 4 oz.
Spill Path Grab	P908061-02A	Soil	08/21/19	08/21/19	Glass Jar, 4 oz.
	P908061-02B	Soil	08/21/19	08/21/19	Glass Jar, 4 oz.
Source Composite	P908061-03A	Soil	08/21/19	08/21/19	Glass Jar, 4 oz.
	P908061-03B	Soil	08/21/19	08/21/19	Glass Jar, 4 oz.

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DJR Operating, LLC 1 Rd 3263 Aztec NM, 87410	Project Name: Pubco Apache #3 Project Number: 17035-0112 Project Manager: Felipe Aragon	Reported: 08/28/19 14:48
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**Spill Path Composite  
P908061-01 (Solid)**

Analyte	Reporting							
	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method

**Volatile Organics by EPA 8021**

Benzene	ND	0.0250	mg/kg	1	1934048	08/22/19	08/23/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1934048	08/22/19	08/23/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1934048	08/22/19	08/23/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1934048	08/22/19	08/23/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1934048	08/22/19	08/23/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1934048	08/22/19	08/23/19	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		110 %		50-150	1934048	08/22/19	08/23/19	EPA 8021B	

**Nonhalogenated Organics by 8015 - DRO/ORO**

Diesel Range Organics (C10-C28)	27.6	25.0	mg/kg	1	1934056	08/22/19	08/23/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1934056	08/22/19	08/23/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		109 %		50-200	1934056	08/22/19	08/23/19	EPA 8015D	

**Nonhalogenated Organics by 8015 - GRO**

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1934048	08/22/19	08/23/19	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		95.6 %		50-150	1934048	08/22/19	08/23/19	EPA 8015D	

**Anions by 300.0/9056A**

Chloride	3660	40.0	mg/kg	2	1934053	08/22/19	08/26/19	EPA 300.0/9056A	
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DJR Operating, LLC 1 Rd 3263 Aztec NM, 87410	Project Name: Pubco Apache #3 Project Number: 17035-0112 Project Manager: Felipe Aragon	Reported: 08/28/19 14:48
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**Spill Path Grab  
P908061-02 (Solid)**

Analyte	Reporting							
	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method

**Volatile Organics by EPA 8021**

Benzene	ND	0.0250	mg/kg	1	1934048	08/22/19	08/24/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1934048	08/22/19	08/24/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1934048	08/22/19	08/24/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1934048	08/22/19	08/24/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1934048	08/22/19	08/24/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1934048	08/22/19	08/24/19	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		112 %		50-150	1934048	08/22/19	08/24/19	EPA 8021B	

**Nonhalogenated Organics by 8015 - DRO/ORO**

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1934056	08/22/19	08/23/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1934056	08/22/19	08/23/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		105 %		50-200	1934056	08/22/19	08/23/19	EPA 8015D	

**Nonhalogenated Organics by 8015 - GRO**

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1934048	08/22/19	08/24/19	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		94.2 %		50-150	1934048	08/22/19	08/24/19	EPA 8015D	

**Anions by 300.0/9056A**

Chloride	<b>3900</b>	40.0	mg/kg	2	1934053	08/22/19	08/26/19	EPA 300.0/9056A	
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DJR Operating, LLC 1 Rd 3263 Aztec NM, 87410	Project Name: Pubco Apache #3 Project Number: 17035-0112 Project Manager: Felipe Aragon	Reported: 08/28/19 14:48
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**Source Composite  
P908061-03 (Solid)**

Analyte	Reporting								
	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

**Volatile Organics by EPA 8021**

Benzene	ND	0.0250	mg/kg	1	1934048	08/22/19	08/24/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1934048	08/22/19	08/24/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1934048	08/22/19	08/24/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1934048	08/22/19	08/24/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1934048	08/22/19	08/24/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1934048	08/22/19	08/24/19	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		113 %		50-150	1934048	08/22/19	08/24/19	EPA 8021B	

**Nonhalogenated Organics by 8015 - DRO/ORO**

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1934056	08/22/19	08/23/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1934056	08/22/19	08/23/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		114 %		50-200	1934056	08/22/19	08/23/19	EPA 8015D	

**Nonhalogenated Organics by 8015 - GRO**

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1934048	08/22/19	08/24/19	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		93.4 %		50-150	1934048	08/22/19	08/24/19	EPA 8015D	

**Anions by 300.0/9056A**

Chloride	10000	40.0	mg/kg	2	1934053	08/22/19	08/26/19	EPA 300.0/9056A	
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DJR Operating, LLC  
 1 Rd 3263  
 Aztec NM, 87410

 Project Name: Pubco Apache #3  
 Project Number: 17035-0112  
 Project Manager: Felipe Aragon

 Reported:  
 08/28/19 14:48

**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 1934048 - Purge and Trap EPA 5030A**
**Blank (1934048-BLK1)**

Prepared: 08/22/19 0 Analyzed: 08/23/19 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	"							
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	8.88		"	8.00		111	50-150			

**LCS (1934048-BS1)**

Prepared: 08/22/19 0 Analyzed: 08/23/19 1

Benzene	4.66	0.0250	mg/kg	5.00		93.1	70-130			
Toluene	4.66	0.0250	"	5.00		93.2	70-130			
Ethylbenzene	4.66	0.0250	"	5.00		93.2	70-130			
p,m-Xylene	9.48	0.0500	"	10.0		94.8	70-130			
o-Xylene	4.65	0.0250	"	5.00		92.9	70-130			
Total Xylenes	14.1	0.0250	"	15.0		94.2	70-130			
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	8.84		"	8.00		110	50-150			

**Matrix Spike (1934048-MS1)**

Source: P908055-01

Prepared: 08/22/19 0 Analyzed: 08/23/19 1

Benzene	4.65	0.0250	mg/kg	5.00	ND	93.0	54.3-133			
Toluene	4.64	0.0250	"	5.00	ND	92.7	61.4-130			
Ethylbenzene	4.65	0.0250	"	5.00	ND	93.1	61.4-133			
p,m-Xylene	9.48	0.0500	"	10.0	ND	94.8	63.3-131			
o-Xylene	4.65	0.0250	"	5.00	ND	93.1	63.3-131			
Total Xylenes	14.1	0.0250	"	15.0	ND	94.2	63.3-131			
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	8.87		"	8.00		111	50-150			

**Matrix Spike Dup (1934048-MSD1)**

Source: P908055-01

Prepared: 08/22/19 0 Analyzed: 08/23/19 1

Benzene	4.49	0.0250	mg/kg	5.00	ND	89.7	54.3-133	3.55	20	
Toluene	4.48	0.0250	"	5.00	ND	89.6	61.4-130	3.41	20	
Ethylbenzene	4.50	0.0250	"	5.00	ND	89.9	61.4-133	3.48	20	
p,m-Xylene	9.16	0.0500	"	10.0	ND	91.6	63.3-131	3.42	20	
o-Xylene	4.49	0.0250	"	5.00	ND	89.8	63.3-131	3.62	20	
Total Xylenes	13.7	0.0250	"	15.0	ND	91.0	63.3-131	3.48	20	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	8.83		"	8.00		110	50-150			

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DJR Operating, LLC 1 Rd 3263 Aztec NM, 87410	Project Name: Pubco Apache #3 Project Number: 17035-0112 Project Manager: Felipe Aragon	Reported: 08/28/19 14:48
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**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 1934056 - DRO Extraction EPA 3570**
**Blank (1934056-BLK1)**

Prepared: 08/22/19 1 Analyzed: 08/23/19 1

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0	"							
Surrogate: n-Nonane	54.9		"	50.0		110	50-200			

**LCS (1934056-BS1)**

Prepared: 08/22/19 1 Analyzed: 08/23/19 1

Diesel Range Organics (C10-C28)	595	25.0	mg/kg	500		119	38-132			
Surrogate: n-Nonane	54.4		"	50.0		109	50-200			

**Matrix Spike (1934056-MS1)**

Source: P908061-01

Prepared: 08/22/19 1 Analyzed: 08/27/19 0

Diesel Range Organics (C10-C28)	642	25.0	mg/kg	500	27.6	123	38-132			
Surrogate: n-Nonane	53.6		"	50.0		107	50-200			

**Matrix Spike Dup (1934056-MSD1)**

Source: P908061-01

Prepared: 08/22/19 1 Analyzed: 08/23/19 1

Diesel Range Organics (C10-C28)	670	25.0	mg/kg	500	27.6	128	38-132	4.23	20	
Surrogate: n-Nonane	54.6		"	50.0		109	50-200			

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DJR Operating, LLC 1 Rd 3263 Aztec NM, 87410	Project Name: Pubco Apache #3 Project Number: 17035-0112 Project Manager: Felipe Aragon	Reported: 08/28/19 14:48
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**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 1934048 - Purge and Trap EPA 5030A**

**Blank (1934048-BLK1)**

Prepared: 08/22/19 0 Analyzed: 08/23/19 1

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.48		"	8.00		93.5	50-150			

**LCS (1934048-BS2)**

Prepared: 08/22/19 0 Analyzed: 08/23/19 1

Gasoline Range Organics (C6-C10)	40.9	20.0	mg/kg	50.0		81.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.66		"	8.00		95.8	50-150			

**Matrix Spike (1934048-MS2)**

Source: P908055-01

Prepared: 08/22/19 0 Analyzed: 08/23/19 1

Gasoline Range Organics (C6-C10)	41.6	20.0	mg/kg	50.0	ND	83.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.71		"	8.00		96.4	50-150			

**Matrix Spike Dup (1934048-MSD2)**

Source: P908055-01

Prepared: 08/22/19 0 Analyzed: 08/23/19 1

Gasoline Range Organics (C6-C10)	37.8	20.0	mg/kg	50.0	ND	75.5	70-130	9.66	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.70		"	8.00		96.2	50-150			

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DJR Operating, LLC 1 Rd 3263 Aztec NM, 87410	Project Name: Pubco Apache #3 Project Number: 17035-0112 Project Manager: Felipe Aragon	Reported: 08/28/19 14:48
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**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 1934053 - Anion Extraction EPA 300.0/9056A**

<b>Blank (1934053-BLK1)</b>				Prepared: 08/22/19 1 Analyzed: 08/26/19 1						
Chloride	ND	20.0	mg/kg							
<b>LCS (1934053-BS1)</b>				Prepared: 08/22/19 1 Analyzed: 08/26/19 1						
Chloride	256	20.0	mg/kg	250		102	90-110			
<b>Matrix Spike (1934053-MS1)</b>				Source: P908061-01 Prepared: 08/22/19 1 Analyzed: 08/26/19 1						
Chloride	4080	40.0	mg/kg	250	3660	171	80-120			SPK2
<b>Matrix Spike Dup (1934053-MSD1)</b>				Source: P908061-01 Prepared: 08/22/19 1 Analyzed: 08/26/19 1						
Chloride	4880	40.0	mg/kg	250	3660	487	80-120	17.7	20	SPK2

**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 1 Rd 3263 Aztec NM, 87410	Project Name: Pubco Apache #3 Project Number: 17035-0112 Project Manager: Felipe Aragon	<b>Reported:</b> 08/28/19 14:48
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**Notes and Definitions**

- SPK2 The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to native analyte concentration at 4 times or greater than the spike concentration.
- 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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Project Information

Chain of Custody

<b>Client: DJR</b> <b>Project: Pubco Apache #3</b> <b>Project Manager: F. Aragon</b> <b>Address:</b> <b>City, State, Zip</b> <b>Phone:</b> <b>Email: f.aragon, dbrown@dirllc.com</b>				<b>Report Attention</b> <b>Report due by:</b> <b>Address:</b> <b>City, State, Zip</b> <b>Phone:</b>				<b>Lab Use Only</b> <b>Lab WO#</b> P908061 <b>Job Number</b> 17035-0112				<b>TAT</b> 1D 3D		<b>EPA Program</b> RCRA CWA SDWA		
<b>Analysis and Method</b>										<b>State</b> NM CO UT AZ						
Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	GRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Total RCRA 8 Metals 6010	Chlorides 300.0	8270S/M	Paint Filter	TDS	Remarks	
11:40	8/21/2019	s	2	Spill Path Composite	1	X		X		X						
11:45	8/21/2019	s	2	Spill Path Grab	2	X		X		X						
12:15	8/21/2019	s	2	Source Composite	3	X		X		X						
<b>Additional Instructions:</b>																
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: <i>Felipe Aragon</i>										Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 5 °C on subsequent days.						
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only Received on ice: Y/ N T1 T2 T3 AVG Temp °C 4								
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time									
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other								Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA								
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																



5796 US Highway 64 Farmington, NH 07401  
 Three Springs • 65 Mercado Street Suite 115 Durango CO 81301

Ph (505) 632-0615 Fx (505) 632-1865  
 Ph (970) 259 0615 Fx (800) 362 1879

Unit Name	Unit Serial #	Unit Participating Area Serial #	Applicable Oil Pool	NMOCD Pool Code	Applicable NMOCD Order
Nageezi Unit	NMNM 132981X	NMNM 132981A	Nageezi Unit Mancos Oil Pool	98080	R-13856, R-13856A
Venado Canyon Unit	NMNM 135367X	NMNM 135367A	Lybrook Gallup Oil Pool	42289	R-14067, R-14067A
North Alamito Unit	NMNM 135229X	NMNM 135229A	North Alamito Unit Mancos Oil Pool	98174	R-14081, R-14081A
Good Times Unit	NMNM 136924X	NMNM 136924A	Good Times Unit Mancos Oil Pool	98193	R-14094
Gallo Canyon Unit	NMNM-131017X	NMNM-131017A	Counselors Gallup – Dakota Pool	13379	R-13718A
Crow Canyon Unit	NMNM 135203X	NMNM 135203A	Crow Canyon Mancos Oil Pool	98194	R-14090, R-14090A
Corrales Canyon Unit	NMNM 135852X	NMNM 135852A	Lybrook Gallup Oil Pool	42289	R-14186
Blanco Wash Unit	NMNM 137065X	NMNM 137065A	Blanco Wash Unit Oil Pool	98173	R-13931
Betonie Tsose Wash Unit	NMNM 135219X	NMNM 135219A	Betonie Tsose Wash Unit Mancos Oil Pool	98175	R-13930, R-13930A
Escrito Gallup Unit	NMNM 078390X	NMNM 078390A	Bisti Lower Gallup		