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-144
Revised April 3, 2017

For temporary pits, below-grade tanks, and multi-well fluid management pits, submit to the appropriate NMOCD District Office.
For permanent pits submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.

Pit, Below-Grade Tank, or Proposed Alternative Method Permit or Closure Plan Application

Type of action:
- ☐ Below grade tank registration
- ☐ Permit of a pit or proposed alternative method
- ☒ Closure of a pit, below-grade tank, or proposed alternative method
- ☐ Modification to an existing permit/or registration
- ☐ Closure plan only submitted for an existing permitted or non-permitted pit, below-grade tank, or proposed alternative method

Instructions: Please submit one application (Form C-144) per individual pit, below-grade tank or alternative request

Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.

1.
Operator: DJR Operating, LLC OGRID #: 371838
Address: 1 Road 3263, Aztec, New Mexico, 87410
Facility or well name: West Bisti Coal 22 COM 1T
API Number: 30-045-33374 OCD Permit Number:
U/L or Qtr/Qtr SESE Section 22 Township 25N Range 13W County: San Juan
Center of Proposed Design: Latitude 36.382926 N Longitude 108.206424 W NAD83
Surface Owner: ☒ Federal ☐ State ☐ Private ☐ Tribal Trust or Indian Allotment

2.
☒ **Pit:** Subsection F, G or J of 19.15.17.11 NMAC
Temporary: ☒ Drilling ☐ Workover
☐ Permanent ☐ Emergency ☐ Cavitation ☐ P&A ☐ Multi-Well Fluid Management Low Chloride Drilling Fluid ☐ yes ☐ no
☒ Lined ☐ Unlined Liner type: Thickness 20 mil ☒ LLDPE ☐ HDPE ☐ PVC ☐ Other
☒ String-Reinforced
Liner Seams: ☒ Welded ☒ Factory ☐ Other Volume: 735 bbl Dimensions: L 60 ft x W 12 ft x D 8 ft

3.
☐ **Below-grade tank:** Subsection I of 19.15.17.11 NMAC
Volume: bbl Type of fluid:
Tank Construction material:
☐ Secondary containment with leak detection ☐ Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off
☐ Visible sidewalls and liner ☐ Visible sidewalls only ☐ Other
Liner type: Thickness mil ☐ HDPE ☐ PVC ☐ Other

4.
☐ **Alternative Method:**
Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

5.
Fencing: Subsection D of 19.15.17.11 NMAC *(Applies to permanent pits, temporary pits, and below-grade tanks)*
☐ Chain link, six feet in height, two strands of barbed wire at top *(Required if located within 1000 feet of a permanent residence, school, hospital, institution or church)*
☐ Four foot height, four strands of barbed wire evenly spaced between one and four feet
☒ Alternate. Please specify 36 inch hog wire topped with 1 strand of barbed wire = total of 48 inch high fence

12.
Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC
Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.

- ☐ Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC
- ☐ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC
- ☐ Climatological Factors Assessment
- ☐ Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC
- ☐ Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC
- ☐ Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC
- ☐ Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC
- ☐ Quality Control/Quality Assurance Construction and Installation Plan
- ☐ Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
- ☐ Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
- ☐ Nuisance or Hazardous Odors, including H_2S, Prevention Plan
- ☐ Emergency Response Plan
- ☐ Oil Field Waste Stream Characterization
- ☐ Monitoring and Inspection Plan
- ☐ Erosion Control Plan
- ☐ Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC

13.
Proposed Closure: 19.15.17.13 NMAC
Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.

Type: ☐ Drilling ☐ Workover ☐ Emergency ☐ Cavitation ☐ P&A ☐ Permanent Pit ☐ Below-grade Tank ☐ Multi-well Fluid Management Pit ☐ Alternative

Proposed Closure Method: ☐ Waste Excavation and Removal
☐ Waste Removal (Closed-loop systems only)
☐ On-site Closure Method (Only for temporary pits and closed-loop systems)
☐ In-place Burial ☐ On-site Trench Burial
☐ Alternative Closure Method

14.
Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) ***Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached.***

- ☐ Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC
- ☐ Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.13 NMAC
- ☐ Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings)
- ☐ Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
- ☐ Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
- ☐ Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC

15.
Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC
Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable source material are provided below. Requests regarding changes to certain siting criteria require justifications and/or demonstrations of equivalency. Please refer to 19.15.17.10 NMAC for guidance.

Ground water is less than 25 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☒ No ☐ NA
Ground water is between 25-50 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☒ No ☐ NA
Ground water is more than 100 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☒ Yes ☐ No ☐ NA
Within 100 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☒ No
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☒ No
Within 300 horizontal feet of a private, domestic fresh water well or spring used for domestic or stock watering purposes, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site	☐ Yes ☒ No
Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ☒ No
Within 300 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☒ No
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance	

adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ☒ No
Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes ☒ No
Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map	☐ Yes ☒ No
Within a 100-year floodplain. - FEMA map	☐ Yes ☒ No

16.
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) ***Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached.***

- ☐ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC
- ☐ Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection E of 19.15.17.13 NMAC
- ☐ Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of Subsection K of 19.15.17.11 NMAC
- ☐ Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19.15.17.11 NMAC
- ☐ Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC
- ☐ Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of 19.15.17.13 NMAC
- ☐ Waste Material Sampling Plan - based upon the appropriate requirements of 19.15.17.13 NMAC
- ☐ Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cannot be achieved)
- ☐ Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
- ☐ Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
- ☐ Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC

17.
Operator Application Certification:

I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and belief.

Name (Print): _____ Title: _____

Signature: _____ Date: _____

e-mail address: _____ Telephone: _____

18.
OCD Approval: ☐ Permit Application (including closure plan) ☐ Closure Plan (only) ☐ OCD Conditions (see attachment)

OCD Representative Signature: _____ **Approval Date:** _____

Title: _____ **OCD Permit Number:** _____

19.
Closure Report (required within 60 days of closure completion): 19.15.17.13 NMAC

Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting the closure report. The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not complete this section of the form until an approved closure plan has been obtained and the closure activities have been completed.

☒ **Closure Completion Date:** May 1, 2019

20.
Closure Method:

☐ Waste Excavation and Removal ☒ On-Site Closure Method ☐ Alternative Closure Method ☐ Waste Removal (Closed-loop systems only)
☐ If different from approved plan, please explain.

21.
Closure Report Attachment Checklist: ***Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check mark in the box, that the documents are attached.***

- ☐ Proof of Closure Notice (surface owner and division)
- ☐ Proof of Deed Notice (required for on-site closure for private land only)
- ☐ Plot Plan (for on-site closures and temporary pits)
- ☐ Confirmation Sampling Analytical Results (if applicable)
- ☒ Waste Material Sampling Analytical Results (required for on-site closure)
- ☐ Disposal Facility Name and Permit Number
- ☐ Soil Backfilling and Cover Installation
- ☐ Re-vegetation Application Rates and Seeding Technique
- ☐ Site Reclamation (Photo Documentation)

On-site Closure Location: Latitude _____ Longitude _____ NAD: ☐ 1927 ☐ 1983

22.

Operator Closure Certification:

I hereby certify that the information and attachments submitted with this closure report is true, accurate and complete to the best of my knowledge and belief. I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan.

Name (Print): Amy Archuleata Title: Regulatory Specialist

Signature: _____ Date: May 13, 2019

e-mail address: aarchuleta@drjllc.com Telephone: (505) 632-3476

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May 20, 2019 Project Number: 17035-0070

Ms. Amy Archuleta
DJR Operating, LLC.
1 Road 3263
Aztec, NM 87410

Email: aarchuleta@djrllc.com
Phone: (505) 632-3476

RE: DRILL PIT CLOSURE DOCUMENTATION FOR THE WEST BISTI COAL 22 COM 1T WELL SITE, API 30-045-33374, SAN JUAN COUNTY, NEW MEXICO

Dear Ms. Archuleta,

Envirotech, Inc. (Envirotech) of Farmington, New Mexico, was contracted by DJR Operating, LLC to complete drill pit closure sampling activities at the West Bisti Coal 22 COM 1T well site located in Unit P (SE ¼ SE ¼) Section 22, Township 25 North, Range 13 West, San Juan County, New Mexico, see **Figure 1**, ***Vicinity Map***. The following sections summarize the sampling activities and laboratory analytical results.

REGULATORY STANDARDS

Sampling of the drill pit contents was conducted in accordance with closure requirements set forth in *Paragraph 2(d) of Subsection F of 19.15.17.13 New Mexico Administration Code (NMAC), (2008).* The in-place closure plan was approved on September 18, 2008, as documented in the New Mexico Oil Conservation Division's (NMOCD) Form C-144 submitted August 25, 2008.

The closure requirements include the collection and analysis of a five-point composite sample of the drill pit contents in order to demonstrate that concentrations of contaminants of concern are below the following regulatory limits:

- Benzene per EPA Method 8021B or 8260B – 0.2 mg/kg;
- Benzene, toluene, ethyl-benzene and total xylenes (BTEX) per EPA Method 8021B or 8260B – 50 mg/kg;
- Gasoline and diesel range organics (GRO/DRO) per EPA Method 8015M – 500 mg/kg;
- Total petroleum hydrocarbons (TPH) per EPA Method 418.1 or 8015D – 2,500 mg/kg; and
- Chlorides per EPA Method 300.1 – 1,000 mg/kg

SITING CRITERIA

The siting criteria for the subject well was submitted and approved in the original 2008 C-144. The table below is an updated summary of the information:

Distance to Nearest Significant Watercourse
Unnamed intermittent stream approximately 0.8 miles northwest of the drill pit
Depth to Groundwater Determination
Nearest water well at a similar elevation and with depth to water information is 7 miles northeast of the drill pit. Depth to water in the water well, SJ 01716, is recorded at 210 feet. Depth to water at the subject drill pit is >100 feet.
Sensitive Receptor Determination
Yes ☐ No ☒ <300' of any continuously flowing watercourse or any other significant watercourse
Yes ☐ No ☒ <200' of any lakebed, sinkhole or playa lake (measured from the Ordinary High Water Mark)
Yes ☐ No ☒ <300' of an occupied permanent residence, school, hospital, institution or church
Yes ☐ No ☒ <1000' of any water well or spring
Yes ☐ No ☒ Within incorporated municipal boundaries or within a defined municipal fresh water well field
Yes ☐ No ☒ <500' of a wetland
Yes ☐ No ☒ Within the area overlying a subsurface mine
Yes ☐ No ☒ Within an unstable area
Yes ☐ No ☒ Within a 100-year floodplain

DRILL PIT SAMPLING

DJR Operating, LLC re-sampled the former drill pit at the request of NMOCD to provide proper closure documentation. On May 1, 2019, Envirotech personnel collected two 5-point composite samples from the former drill pit under witness and direction of Cory Smith, NMOCD Environmental Specialist.

A mini-excavator was used to pothole within the estimated extents of the former drill pit (60 ft x 12 ft x 8 ft depth). The soil aliquots were collected from approximately 4 to 7 feet below ground surface (bgs). Sample collection activities are illustrated in the attached ***Site Photography*** and sample locations are illustrated on ***Figure 2, Site Map***.

LABORATORY ANALYSIS AND RESULTS

Sample Analytical Procedures

The soil samples (*East Composite and West Composite*) were then collected into individual laboratory provided four (4)-ounce glass jars, capped headspace free, and transported on ice, under chain of custody, to Envirotech's NELAP certified analytical laboratory located in Farmington, New Mexico. The samples were analyzed as follows:

- Total Petroleum Hydrocarbons (TPH) as gasoline range organics (GRO), oil range organics (ORO), and diesel range organics (DRO) using EPA Method 8015D;
- Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX) using EPA Method 8021B; and
- Chloride using EPA Method 300.0/9056A.

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Laboratory Analytical Results

Concentrations of all contaminants of concern (COC) were below laboratory detection limits and/or applicable closure criteria in both soil samples. The analytical results are summarized in the table below and are provided in the attached ***Analytical Report***.

Sample Description	**Date**	EPA Method 8015			EPA Method 8021		EPA Method 300.0
		GRO (mg/kg)	**DRO (mg/kg)**	**TPH (mg/kg)**	**Benzene (mg/kg)**	**Total BTEX (mg/kg)**	**Chlorides (mg/kg)**
NMOCD Closure Criteria per 19.15.17.13 (F)(2)(d) NMAC (2008)		*500*		*2,500*	*0.2*	*50*	*1,000*
West Composite	5/1/2019	< 20	109	225	< 0.025	< 0.025	409
East Composite	5/1/2019	< 20	109	245	< 0.025	< 0.025	222

CONCLUSIONS AND RECOMMENDATIONS

Based on laboratory results of the former drill pit contents, Envirotech recommends *No Further Action* regarding the closure documentation for in-place burial. Furthermore, the subject well was not completed and is not in production. DJR Operating will reclaim the drill pit and well site once plugging and abandoning activities are completed for the well bore.

Should you have any questions or require additional information, please contact our office at (505) 632-0615.

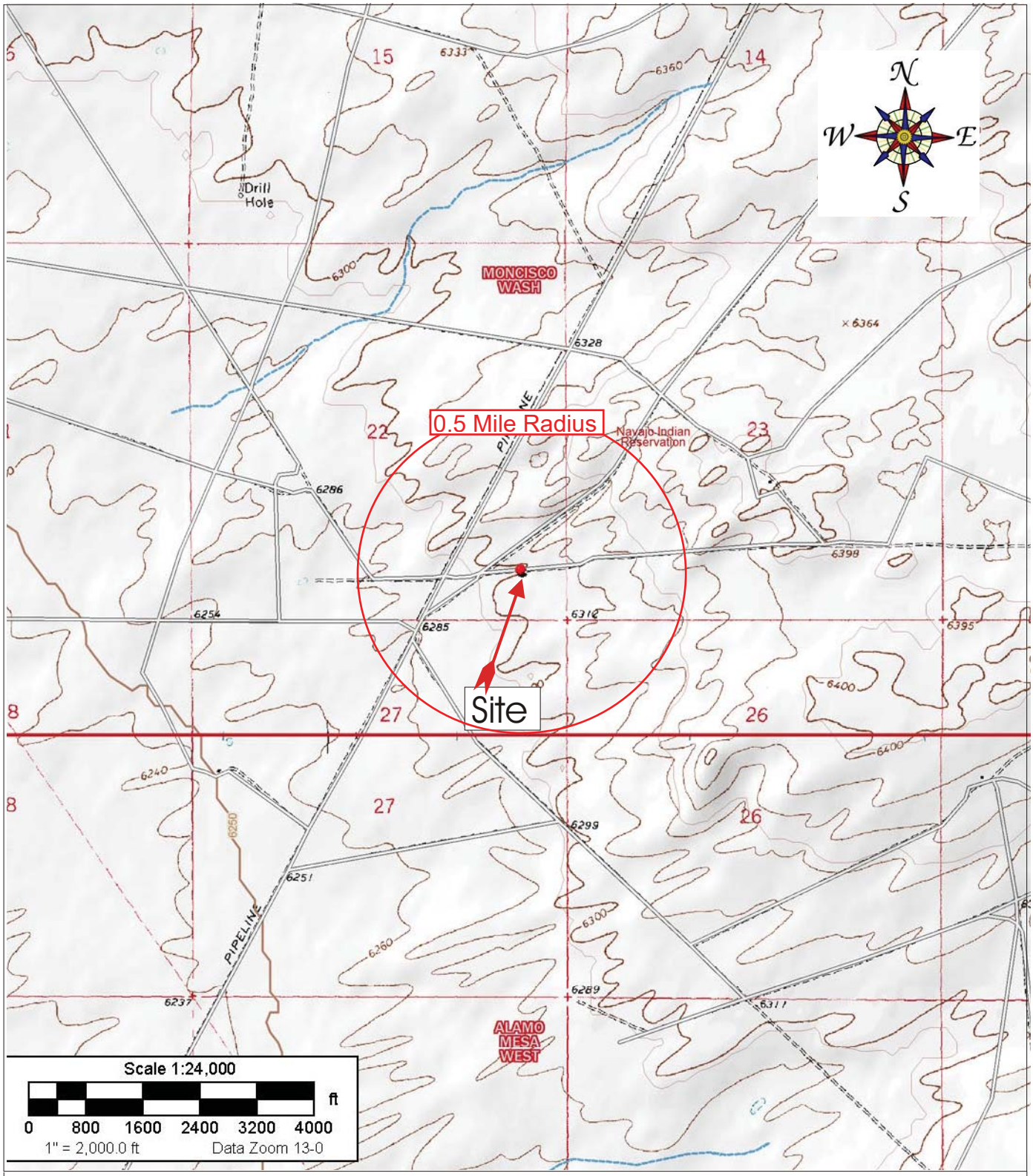
Respectfully submitted,
ENVIROTECH, INC.

Shane Pavey

Shane Pavey
Environmental Field Technician
spavey@envirotech-inc.com

Enclosure(s): Figure 1, Vicinity Map
Figure 2, Site Map
Site Photography
Field Notes
Analytical Report

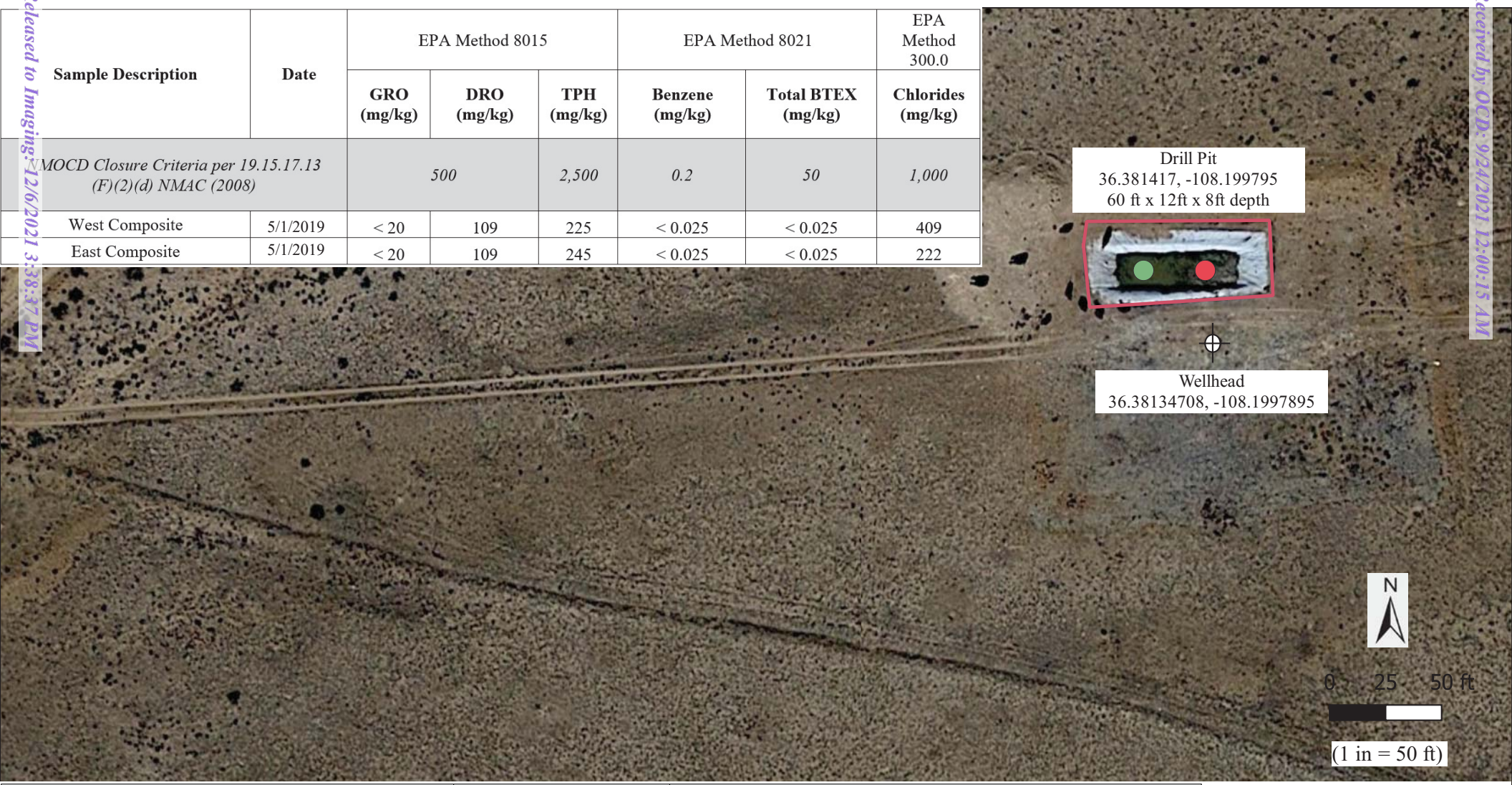
Cc: Client File Number 17035



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

DJR Operating, LLC West Bisti Coal 22 COM 1T API 30-045-33374 Section 22, Township 25N, Range 13W, San Juan County, New Mexico	envirotech ENVIRONMENTAL SCIENTISTS & ENGINEERS 5796 U.S. HIGHWAY 64 Farmington, New Mexico 87401 505.632.0615	Vicinity Map Figure 1	
Project Number: 17035-0070 / Date Drawn: 5/13/2019		DRAWN BY: Shane Pavey	PROJECT MANAGER: Felipe Aragon

Sample Description	Date	EPA Method 8015			EPA Method 8021		EPA Method 300.0
		GRO (mg/kg)	DRO (mg/kg)	TPH (mg/kg)	Benzene (mg/kg)	Total BTEX (mg/kg)	Chlorides (mg/kg)
NMOCD Closure Criteria per 19.15.17.13 (F)(2)(d) NMAC (2008)		*500*		*2,500*	*0.2*	*50*	*1,000*
West Composite	5/1/2019	< 20	109	225	< 0.025	< 0.025	409
East Composite	5/1/2019	< 20	109	245	< 0.025	< 0.025	222



envirotech
ENVIRONMENTAL SCIENTISTS & ENGINEERS
5796 U.S. HIGHWAY 64
Farmington, New Mexico 87401
505.632.0615

DRAWN BY: SP

DATE DRAWN: 5/13/2019

APPROVED BY: TK

DATE APPROVED: 5/14/2019

FIGURE 2: Site Map

DJR Operating, LLC
West Bisti Coal 22 COM 1T
API 30-045-33374
Unit P Section 22, Township 25N, Range 13W
San Juan County, New Mexico
N36.38134708,W108.1997895
Project 17035-0070

LEGEND

- East Composite
- West Composite
- Pit Boundary

Sample locations represent 5-point composite soil samples

SITE PHOTOGRAPHY - DRILL PIT CLOSURE REPORT
DJR OPERATING, LLC
WEST BISTI COAL 22 COM 1T, API 30-045-33374
SE ¼ SE ¼ SECTION 22, TOWNSHIP 25N, RANGE 13W
SAN JUAN COUNTY, NEW MEXICO
PROJECT NUMBER 17035-0070
MAY 1, 2019

Photo 1: Drill Pit and Wellhead

Photo 2: Drill Pit Contents

SITE PHOTOGRAPHY - DRILL PIT CLOSURE REPORT
DJR OPERATING, LLC
WEST BISTI COAL 22 COM 1T, API 30-045-33374
SE ¼ SE ¼ SECTION 22, TOWNSHIP 25N, RANGE 13W
SAN JUAN COUNTY, NEW MEXICO
PROJECT NUMBER 17035-0070
MAY 1, 2019

Photo 3: View of Test Hole

Photo 4: Backfilling Excavation

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Analytical Laboratory

Analytical Report

Report Summary

Client: DJR Operating, LLC

Samples Received: 5/1/2019
Job Number: 17035-0070
Work Order: P905006
Project Name/Location: West Bisti 22

Report Reviewed By: Walter Hinchman Date: 5/7/19

Walter Hinchman, Laboratory Director

NELAP ACCREDITED TNI LABORATORY

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, currently holds the appropriate and available Utah TNI certification NM009792018-1 for the data reported.

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Analytical Laboratory

DJR Operating, LLC	Project Name:	West Bisti 22	
1 Rd 3263	Project Number:	17035-0070	**Reported:**
Aztec NM, 87410	Project Manager:	Felipe Aragon	05/07/19 12:41

Analyical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
West Composite	P905006-01A	Soil	05/01/19	05/01/19	Glass Jar, 4 oz.
	P905006-01B	Soil	05/01/19	05/01/19	Glass Jar, 4 oz.
East Composite	P905006-02A	Soil	05/01/19	05/01/19	Glass Jar, 4 oz.
	P905006-02B	Soil	05/01/19	05/01/19	Glass Jar, 4 oz.

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Analytical Laboratory

DJR Operating, LLC	Project Name:	West Bisti 22	
1 Rd 3263	Project Number:	17035-0070	**Reported:**
Aztec NM, 87410	Project Manager:	Felipe Aragon	05/07/19 12:41

West Composite
P905006-01 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1918032	05/02/19	05/02/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1918032	05/02/19	05/02/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1918032	05/02/19	05/02/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1918032	05/02/19	05/02/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1918032	05/02/19	05/02/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1918032	05/02/19	05/02/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		*99.9 %*		*50-150*	*1918032*	*05/02/19*	*05/02/19*	*EPA 8021B*	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1918032	05/02/19	05/02/19	EPA 8015D	
Diesel Range Organics (C10-C28)	**109**	25.0	mg/kg	1	1918033	05/02/19	05/02/19	EPA 8015D	
Oil Range Organics (C28-C40)	**116**	50.0	mg/kg	1	1918033	05/02/19	05/02/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*95.8 %*		*50-150*	*1918032*	*05/02/19*	*05/02/19*	*EPA 8015D*	
Surrogate: n-Nonane		*89.4 %*		*50-200*	*1918033*	*05/02/19*	*05/02/19*	*EPA 8015D*	
Anions by 300.0/9056A									
Chloride	**409**	20.0	mg/kg	1	1918037	05/02/19	05/02/19	EPA 300.0/9056A	

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Analytical Laboratory

DJR Operating, LLC	Project Name:	West Bisti 22	
1 Rd 3263	Project Number:	17035-0070	**Reported:**
Aztec NM, 87410	Project Manager:	Felipe Aragon	05/07/19 12:41

East Composite
P905006-02 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1918032	05/02/19	05/02/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1918032	05/02/19	05/02/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1918032	05/02/19	05/02/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1918032	05/02/19	05/02/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1918032	05/02/19	05/02/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1918032	05/02/19	05/02/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		*101 %*		*50-150*	*1918032*	*05/02/19*	*05/02/19*	*EPA 8021B*	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1918032	05/02/19	05/02/19	EPA 8015D	
Diesel Range Organics (C10-C28)	**109**	25.0	mg/kg	1	1918033	05/02/19	05/02/19	EPA 8015D	
Oil Range Organics (C28-C40)	**136**	50.0	mg/kg	1	1918033	05/02/19	05/02/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*97.1 %*		*50-150*	*1918032*	*05/02/19*	*05/02/19*	*EPA 8015D*	
Surrogate: n-Nonane		*93.1 %*		*50-200*	*1918033*	*05/02/19*	*05/02/19*	*EPA 8015D*	
Anions by 300.0/9056A									
Chloride	**222**	20.0	mg/kg	1	1918037	05/02/19	05/02/19	EPA 300.0/9056A	

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Analytical Laboratory

DJR Operating, LLC	Project Name:	West Bisti 22	
1 Rd 3263	Project Number:	17035-0070	**Reported:**
Aztec NM, 87410	Project Manager:	Felipe Aragon	05/07/19 12:41

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
Batch 1918032 - Purge and Trap EPA 5030A										
Blank (1918032-BLK1)				Prepared: 05/01/19 1 Analyzed: 05/02/19 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	"							
Surrogate: 4-Bromochlorobenzene-PID	*8.26*		*"*	*8.00*		*103*	*50-150*			
LCS (1918032-BS1)				Prepared: 05/01/19 1 Analyzed: 05/02/19 1						
Benzene	4.66	0.0250	mg/kg	5.00		93.2	70-130			
Toluene	5.10	0.0250	"	5.00		102	70-130			
Ethylbenzene	5.13	0.0250	"	5.00		103	70-130			
p,m-Xylene	10.6	0.0500	"	10.0		106	70-130			
o-Xylene	5.13	0.0250	"	5.00		103	70-130			
Total Xylenes	15.7	0.0250	"	15.0		105	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*8.17*		*"*	*8.00*		*102*	*50-150*			
Matrix Spike (1918032-MS1)		**Source: P905005-01**		Prepared: 05/01/19 1 Analyzed: 05/02/19 1						
Benzene	4.49	0.0250	mg/kg	5.00	0.0309	89.1	54.3-133			
Toluene	5.37	0.0250	"	5.00	0.790	91.7	61.4-130			
Ethylbenzene	5.23	0.0250	"	5.00	0.315	98.3	61.4-133			
p,m-Xylene	16.0	0.0500	"	10.0	7.79	82.2	63.3-131			
o-Xylene	6.61	0.0250	"	5.00	2.10	90.3	63.3-131			
Total Xylenes	22.6	0.0250	"	15.0	9.89	84.9	63.3-131			
Surrogate: 4-Bromochlorobenzene-PID	*7.70*		*"*	*8.00*		*96.2*	*50-150*			
Matrix Spike Dup (1918032-MSD1)		**Source: P905005-01**		Prepared: 05/01/19 1 Analyzed: 05/02/19 1						
Benzene	4.40	0.0250	mg/kg	5.00	0.0309	87.4	54.3-133	1.87	20	
Toluene	5.30	0.0250	"	5.00	0.790	90.2	61.4-130	1.42	20	
Ethylbenzene	5.13	0.0250	"	5.00	0.315	96.3	61.4-133	1.97	20	
p,m-Xylene	15.5	0.0500	"	10.0	7.79	77.4	63.3-131	3.05	20	
o-Xylene	6.41	0.0250	"	5.00	2.10	86.3	63.3-131	3.05	20	
Total Xylenes	21.9	0.0250	"	15.0	9.89	80.3	63.3-131	3.05	20	
Surrogate: 4-Bromochlorobenzene-PID	*7.58*		*"*	*8.00*		*94.7*	*50-150*			

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DJR Operating, LLC	Project Name:	West Bisti 22	
1 Rd 3263	Project Number:	17035-0070	**Reported:**
Aztec NM, 87410	Project Manager:	Felipe Aragon	05/07/19 12:41

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1918032 - Purge and Trap EPA 5030A										
Blank (1918032-BLK1)				Prepared: 05/01/19 1 Analyzed: 05/02/19 1						
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.57*		*"*	*8.00*		*94.7*	*50-150*			
LCS (1918032-BS2)				Prepared: 05/01/19 1 Analyzed: 05/02/19 1						
Gasoline Range Organics (C6-C10)	48.8	20.0	mg/kg	50.0		97.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.70*		*"*	*8.00*		*96.2*	*50-150*			
Matrix Spike (1918032-MS2)		**Source: P905005-01**		Prepared: 05/01/19 1 Analyzed: 05/02/19 1						
Gasoline Range Organics (C6-C10)	138	20.0	mg/kg	50.0	123	30.3	70-130			SPK1
Surrogate: 1-Chloro-4-fluorobenzene-FID	*8.11*		*"*	*8.00*		*101*	*50-150*			
Matrix Spike Dup (1918032-MSD2)		**Source: P905005-01**		Prepared: 05/01/19 1 Analyzed: 05/02/19 1						
Gasoline Range Organics (C6-C10)	135	20.0	mg/kg	50.0	123	24.0	70-130	2.31	20	SPK1
Surrogate: 1-Chloro-4-fluorobenzene-FID	*8.18*		*"*	*8.00*		*102*	*50-150*			

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DJR Operating, LLC	Project Name:	West Bisti 22	
1 Rd 3263	Project Number:	17035-0070	**Reported:**
Aztec NM, 87410	Project Manager:	Felipe Aragon	05/07/19 12:41

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1918033 - DRO Extraction EPA 3570										
Blank (1918033-BLK1)				Prepared: 05/02/19 0 Analyzed: 05/02/19 1						
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0	"							
Surrogate: n-Nonane	*45.7*		*"*	*50.0*		*91.4*	*50-200*			
LCS (1918033-BS1)				Prepared: 05/02/19 0 Analyzed: 05/02/19 1						
Diesel Range Organics (C10-C28)	476	25.0	mg/kg	500		95.2	38-132			
Surrogate: n-Nonane	*44.4*		*"*	*50.0*		*88.9*	*50-200*			
Matrix Spike (1918033-MS1)	**Source: P905005-01**			Prepared: 05/02/19 0 Analyzed: 05/02/19 1						
Diesel Range Organics (C10-C28)	1180	25.0	mg/kg	500	767	81.6	38-132			
Surrogate: n-Nonane	*54.2*		*"*	*50.0*		*108*	*50-200*			
Matrix Spike Dup (1918033-MSD1)	**Source: P905005-01**			Prepared: 05/02/19 0 Analyzed: 05/02/19 1						
Diesel Range Organics (C10-C28)	1140	25.0	mg/kg	500	767	74.3	38-132	3.18	20	
Surrogate: n-Nonane	*51.5*		*"*	*50.0*		*103*	*50-200*			

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DJR Operating, LLC	Project Name:	West Bisti 22	
1 Rd 3263	Project Number:	17035-0070	**Reported:**
Aztec NM, 87410	Project Manager:	Felipe Aragon	05/07/19 12:41

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
Batch 1918037 - Anion Extraction EPA 300.0/9056A										
Blank (1918037-BLK1)				Prepared: 05/02/19 0 Analyzed: 05/02/19 1						
Chloride	ND	20.0	mg/kg							
LCS (1918037-BS1)				Prepared: 05/02/19 0 Analyzed: 05/02/19 1						
Chloride	243	20.0	mg/kg	250		97.1	90-110			
Matrix Spike (1918037-MS1)		**Source: P904133-01**		Prepared: 05/02/19 0 Analyzed: 05/02/19 1						
Chloride	437	20.0	mg/kg	250	186	101	80-120			
Matrix Spike Dup (1918037-MSD1)		**Source: P904133-01**		Prepared: 05/02/19 0 Analyzed: 05/02/19 1						
Chloride	440	20.0	mg/kg	250	186	102	80-120	0.718	20	

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DJR Operating, LLC	Project Name:	West Bisti 22	
1 Rd 3263	Project Number:	17035-0070	**Reported:**
Aztec NM, 87410	Project Manager:	Felipe Aragon	05/07/19 12:41

Notes and Definitions

SPK1	The spike recovery is outside of quality control limits.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference
**	Methods marked with ** are non-accredited methods.

Project Information | Chain of Custody | Page 1 of 1

Client:	DSR
Project:	West Bisti 22
Project Manager:	FAragon
Address:	
City, State, Zip	
Phone:	
Email:	FAragon@dsrvg.com

Report Attention

Report due by:	
Attention:	
Address:	
City, State, Zip	
Phone:	
Email:	

Lab Use Only

Lab WO#	Job Number
P905006	17035-0070

TAT: 1D | 3D

EPA Program: RCRA | CWA | SDWA

State: NM | CO | UT | AZ — NM: X

Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	TPH 418.1						Remarks
10:20	5/1	S	2	West Composite	1	X	X	X			X							
11:30	5/1	S	2	East Composite	2	X	X	X			X							

Additional Instructions: V,S ice in coolers

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: Shane Tavell

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 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Shane Tavell	5/1	15:08	Jessica Mafft	5.1.19	15:08
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

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 laboraotry is limited to the amount paid for on the report.

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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 51509

CONDITIONS

Operator: DJR OPERATING, LLC 1 Road 3263 Aztec, NM 87410	OGRID: 371838
	Action Number: 51509
	Action Type: [C-144] Temporary Pit Plan (C-144T)

CONDITIONS

Created By	Condition	Condition Date
cwhitehead	None	12/6/2021