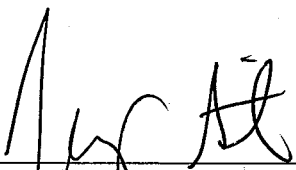
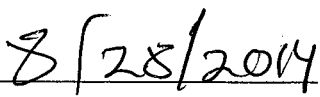




ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY  
DISCHARGE AUTHORIZATION  
TYPE 3.04 GENERAL AQUIFER PROTECTION PERMIT

Inventory No. 100333  
LTF No.: 60849  
USAS No. 030032-02

Permittee Information:			
Name:	Energy Fuels Resources (USA) Inc.		
Address:	225 Union Blvd., Suite 600 Lakewood, CO 80228		
Permitted Facility Information(if different from above):			
Name:	Canyon Mine Non-Stormwater Impoundment		
Address:	Tusayan, AZ		
Latitude:	35° 52' 59.39" North	Longitude:	112° 05' 46.23" West
Determination is based on the Notice of Intent (NOI) dated 6/10/2009 and Renewal Form dated 7/16/2014.			
<p><b>Discharge Authorization.</b> Your submittal satisfies the requirements in Arizona Administrative Code (A.A.C.) R18-9-A301(A)(3) and R18-9-A301(B). This Discharge Authorization is No. <b>P-100333</b>. Effective on the date of signature, the permittee is authorized to discharge from the facility at the location specified in the NOI under the terms of A.A.C. R18-9-D304. The permittee shall comply with all design, installation, operation, monitoring, recordkeeping, reporting and closure requirements specified in this general permit and the attachments to this discharge authorization. The permittee shall also comply with all other applicable requirements of 49 A.R.S. 2, and 18 A.A.C. 9, including the General Provisions of Article 3. This Authorization expires on <b>August 31, 2019</b>. If you wish to renew this Discharge Authorization and no changes have been made to the discharging facility, an NOI must be submitted no later than 30 days before <b>August 31, 2019</b> otherwise, the authorization to discharge will expire (see R18-9-A303(B) and (C)).</p> <p>This authorization can be revoked and an individual permit required in the event the permittee fails to comply with the terms of the general permit described in the rules or if the discharge activity causes or contributes to the violation of an Aquifer Water Quality Standard at the applicable point of compliance.</p>			
			
Jerry H. Smit, Manager Groundwater Section Water Quality Division		Date	

In addition to the requirements of the 3.04 General Permit in A.A.C. R18-9-D304, the permittee has agreed to the following voluntary conditions:

**1. Mine Water Control**

- i. The working shaft sumps and final shaft and vent sumps shall be continuously dewatered to allow the minimum practicable water accumulation.
- ii. The permittee shall conduct a Klinkenberg (or equivalent) permeability test on rock samples taken from the bottom of the final shaft and the vent sumps and survey the sumps to identify any features (i.e., fractures, joints, faults, or bedding planes) which may convey fluids out of sumps, prior to use. If permeability tests indicate that the permeability of the rock mass is greater than  $1.0 \times 10^{-7}$  cm/sec the permittee shall provide notice to ADEQ Groundwater Section and initiate within 30 days, line the sumps with bentonite clay or seal any identified feature that may convey fluids out of the sumps.

All documents required by this permit to be submitted to the Groundwater Section shall be directed to:

Arizona Department of Environmental Quality  
Groundwater Section  
Mail Code: 5415B-3  
1110 W. Washington Street  
Phoenix, AZ 85007  
Phone (602) 771-4428

**2. Mine Shaft Sump Monitoring**

- i. EFR agrees to measure the daily volume of water pumped from the underground mining areas, and conduct periodic sampling of water pumped from the underground mining areas as follows:

EFR will sample water pumped from the underground mining areas at the point the water discharges to the non-stormwater impoundment on a quarterly basis for the parameters set forth in Table 1 below. If there is no water pumped during a particular quarter, then no sample will be required. EFR will report to ADEQ the results of the daily volume of water pumped and quarterly sampling within 30 days of the end of each of the first two quarters of operation, and on an annual basis thereafter.

- ii. If the sampling results suggest that aquifer water quality standards could be exceeded in groundwater beneath the mine given the depth to groundwater at the mine, EFR will increase the frequency of pumping to mitigate any risk to groundwater.

**3. Financial Capability**

The permittee has demonstrated financial capability under A.R.S. § 49-243(N) and A.A.C. R18-9-A203. The permittee shall maintain financial capability throughout the life of the facility. The estimated closure and post-closure cost is \$52,467 and has been demonstrated pursuant to A.A.C. R18-9-A203(C)(2). The closure and post-closure costs shall be evaluated and financial capability updated, if necessary, with each 5-year renewal.

**TABLE 1  
DISCHARGE MONITORING/MINE SHAFT SUMP MONITORING**

pH (S.U.)	Total Dissolved Solids (mg/L)	Alkalinity – Total (mg/L)	Specific Conductance (umhos/cm)	Sulfate (mg/L)
Fluoride (mg/L)	Calcium (mg/L)	Magnesium <sup>1</sup> (mg/L)	Potassium <sup>1</sup> (mg/L)	Sodium <sup>1</sup> (mg/L)
Iron <sup>1</sup> (mg/L)	Antimony <sup>1</sup> (mg/L)	Arsenic <sup>1</sup> (mg/L)	Barium <sup>1</sup> (mg/L)	Beryllium <sup>1</sup> (mg/L)
Cadmium <sup>1</sup> (mg/L)	Chromium <sup>1</sup> (mg/L)	Copper <sup>1</sup> (mg/L)	Lead <sup>1</sup> (mg/L)	Manganese <sup>1</sup> (mg/L)
Mercury <sup>1</sup> (mg/L)	Nickel <sup>1</sup> (mg/L)	Selenium <sup>1</sup> (mg/L)	Thallium <sup>1</sup> (mg/L)	Zinc <sup>1</sup> (mg/L)
Gross Alpha Particle Activity (pCi/L)	Radium 226 (pCi/L)	Radium 228 (pCi/L)	Uranium-Isotopes (pCi/L)	Uranium (mg/L)
	Vanadium <sup>1</sup> (mg/L)			

<sup>1</sup> Metals shall be analyzed as total recoverable metals.