



**State of Utah**  
 DEPARTMENT OF NATURAL RESOURCES  
 DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt  
 Governor

Ted Stewart  
 Executive Director

James W. Carter  
 Division Director

1594 West North Temple, Suite 1210

Box 145801

Salt Lake City, Utah 84114-5801

801-538-5340

801-359-3940 (Fax)

801-538-7223 (TDD)

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TO: Peter Hess, Reclamation Specialist

FROM: Steven M. Johnson, Reclamation Specialist 

RE: Spillway on Raw Water Pond, Willow Creek Mine, Cyprus Plateau Mining Corp, ACT/007/038, File #2, Carbon, County, Utah

I have reviewed the Willow Creek Mine Raw Water Pond and have found that this pond does not need an open channel sediment pond. The following three reasons justify my position.

- **The Raw Water Pond is not a sediment pond**
- **The is no surface drainage to the Raw Water Pond**
- **The Raw Water Pond contains the 100-year, 6-hour storm event**

**The Raw Water Pond is not a sediment pond**

The Raw Water Pond is an impoundment but it is not a sediment pond. Both have requirements for discharge structures and spillways, but the raw water pond will only be filled by manual operations, not by storm runoff.

**The is no surface drainage to the Raw Water Pond**

Surface drainage, as you have reported, comes only from the pond surface. There is no outside contributing drainage area.

**The Raw Water Pond contains the 100-year, 6-hour storm event**

Under the impoundment design regulation, R645-301-743.132 offers an alternative to an open channel spillway. This alternative is applicable when a pond can control runoff from the 100-year, 6-hour storm event (R645-301-742.225). Because the Raw Water Pond has no contributing watershed, the treatment depth required is only the depth of rainfall from the design storm event. This depth is less than 3 inches. Presumably, the pond depth is much greater than 3 inches.

The Raw Water Pond does not need a spillway beyond the closed pipe that runs under the road. Cyprus is in compliance.