

Alternatives Evaluation Matrix

Evaluation Criteria	No Action:	Alternative 1: RESTORE DAM & DECOMMISSION DIVERSION:	Alternative 2: RESTORE LAKE SEVENTEEN DAM AND LITTLE SUCTION CREEK DIVERSION:	Option A: Enhance wildlife habitat and recreation opportunities as a primary focus.	Option B: Make onsite agricultural water management potential a primary focus.	Option C: Make offsite agricultural water management potential a primary focus.
	Allow the dam to breach and downstream channel to headcut the reservoir so it reverts back into a prairie pothole	Dam restoration following NRCS plans. Diversion decommissioned and footprint restored to a natural intermittent stream channel.	Dam restoration following NRCS plans. Diversion restoration following NRCS plans.	Utilizing habitat buffers strategically around Lake 17.	Providing water for potential agricultural uses around the reservoir.	Focus on collection and delivery of water for potential downstream beneficial agricultural use.

ENGINEERING

Constructability and Implementation	N/A	Good	Good	Good	Good	Fair
Relative Construction Costs	N/A	Fair	Fair	Good	Good	Fair
Property Acquisition Needs	N/A	Good	Good	Fair	Good	Good
System Resiliency	N/A	Good	Good	Good	Fair	Fair
O&M Resources Required	N/A	Good	Fair	Good	Fair	Poor

ENVIRONMENTAL AND SOCIOECONOMIC

SOILS						
Sedimentation	Poor	Fair	Good	Good	Fair	Fair
WATER						
Surface Water Quality	Poor	Fair	Good	Good	Good	Good
Surface Water Quantity	Poor	Fair	Good	Good	Good	Fair
Clean Water Act Implications	Good	Fair	Fair	Good	Fair	Fair
Water Rights	Poor	Fair	Good	Fair	Good	Good
Wetland Impacts	Poor	Fair	Good	Good	Fair	Fair
PLANTS						
Endangered and Threatened Plant Species	Poor	Good	Good	Good	Fair	Fair
Riparian Habitat	Poor	Fair	Good	Good	Fair	Fair
Wildlife Habitat	Poor	Fair	Good	Good	Fair	Good
ANIMALS						
Impacts to Fisheries	Poor	Fair	Good	Good	Fair	Fair
Impacts to Wildlife and Migratory Species	Poor	Good	Good	Good	Good	Good
Impacts to Tribal Sensitive Species	Poor	Fair	Good	Good	Fair	Good
Endangered and Threatened Animal Species	Poor	Fair	Good	Good	Fair	Fair
HUMANS/SOCIOECONOMICS						
Cost to Sponsor (Tribe)	Good	Fair	Fair	Fair	Fair	Poor
Public Health and Safety	Good	Good	Good	Good	Good	Good
CULTURAL RESOURCES	Good	Good	Good	Good	Good	Fair
LAND USE IMPACTS						
Impacts to Adjacent lands	Poor	Good	Good	Fair	Good	Good
Agricultural Use & Developments	Poor	Poor	Good	Fair	Good	Good
Conservation Easement Impacts	Poor	Fair	Good	Good	Fair	Fair
Permits and Compliance Requirements	Good	Fair	Fair	Good	Fair	Fair
Meets Purpose and Need	Poor	Fair	Good	Good	Good	Good

Good = Lowest likely impacts; addresses criteria as defined; good conformance to the Purpose and Need
Fair = Middle range of impacts; somewhat addresses criteria as defined; somewhat conforms to the Purpose and Need
Poor = Highest likely impacts; would not address criteria as defined; minimally or would not conform to the Purpose and Need