Glendale Diversion Design Components - Matrix Evaluation Worksheet

Reliable water supply	100% capture of POSW releases	Maintain sediment conductivity in the river
Technically feasible	Harmonious with Truckee River Flood Project	Roughened or Nature-Like fish or river channel
Cost effective design	Environmentally sensitive design	Boater safety
Provide full capacity capture	Supported by the community	No hydraulic keeper holes
		Maintain existing trail access in park

Comments	Alternatives / Criteria	Location: Existing Location, 5.7 % slope	Existing Location, 4 % slope	Existing Location, 3 % slope	Existing Location, 2 % slope	Diversion at Approximately 700 ft upstream	Diversion at Approximately 2100 ft upstream with Pump station	Diversion at Approximately 2100 ft upstream with siphon
	Exposed shotcrete, tremied or formed Concrete							
	Loose Rock							
	Grouted Boulders							
	Any Manmade disturbance							
	Low flow notch and drought emergency damboards midstream							
	100-year Flood Profile Impact							
	Reduce impacts to bed and bank scour							
	Fish Passage – Anadromous							
	Fish Passage - Non-Anadromous							
	Fish Passage Water Depth - One foot of water cover depth at 250 cfs river flow							
	Non fish habitat preservation / creation							
	Fish Passable flows bracketed by 90 / 10 Exceedence Curve							
	Main Channel - Full Channel Fish Passage							
	Bypass Channel - Small Channel Around Diversion Structure							
	All Ages of fish provided passage							
	Adult fish passage only							
	All Ages of all Nine Native species of fish provided passage							
	On-Channel screens							
	Off-Channel screens							
	Best option screening							
	Passage for terrestrials							
	Choose only ESA listed Target Species for fish passage							
	Tabulate passage opportunity for identified species and ages							
	Protection of existing riparian canopy (shade trees)							
	Area disturbed for construction							
	Project river footprint (size and length)							
	Length of River subject to potential de-watering							
	Length of River subject to bank stabilization / restoration work							
	Potential for water temp increases due to rock mass installed in river							
	Visual Quality & Appearance Index (natural vs. structural appearance)							
	Riparian Water Table Restored							
	Maintain existing low flow riparian water table							
	Integrate with Pioneer and Eastman Ditch							
	Life Cycle Costs							
	Capital costs							
	Maintenance costs							
	Revegetation and Irrigation Costs							
	Non-TMWA funding sources applied to capital costs							
	Propose alternatives for design							
	Perform design cherrette							

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