

<i>Working Draft for Discussion -- Subject to Change</i>			
Preliminary Evaluations of the SDI Alternatives			
rev. 12/20/99 smb 2300 hr			
Impact	Technical		
Feasibility Issues	Issues to address	Alternative Ratings	
		Single Barrier Alternative	Multiple Barrier Alternative
4	Availability of Water for Flows to manage water quality. Sufficient flows for interior south Delta water quality	Questionable opportunity to acquire from 0 to more than 240 TAF needed to provide equivalent protection in wet to critically dry years, respectively. Alternative could be to use HOR to throttle flows from SJR.	not a component of this alternative
5	Manageability, Jurisdiction To Do the Work Components		
6	Dredge south Delta channels	Initial disposal of 3.5 - 4 million cubic yards of dredge spoils, plus disposal of maintenance dredging	Initial disposal of less than 1 million cubic yards is more manageable
7	Extend Ag diversions & add Fish Screens	Voluntary compliance with this component is questionable	same policy concern but fewer diversions may need to be extended, and likelihood of cooperation is greater. Option A, with no GLC will require the most ag diversion extensions. Option B is similar to A, because GLC barrier is open during peak irrigation period. Option C will require extension of diversion intakes west of barriers only.
12	Costs Components		
14	Dredge Old River and dispose of materials	Dredge less than 50,000 cubic yards (\$500,000). Price will vary with location of dredge disposal site. Potential to offset cost through sale of dredged materials for reuse elsewhere. (Northeast intake: Dredge an additional 150,000 cubic yards (\$1.5-million)).	same

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15	Dredge south Delta channels and dispose of materials	<p>Dredge interior south Delta channels (2 million cubic yards);</p> <p>Old River adjacent to CCF and Tracy PP intakes 500,000 cy;</p> <p>San Joaquin River (1.0-1.5 million cubic yards)</p> <p>Total: 3.5-4.0 million cubic yards; at cost of \$35-40 million</p>	<p>Dredge downstream of barriers (near DMC, & CCF intake 500,000 cubic yards).</p> <p>If GLC can not operate until August or is not installed, dredging will total approximately 350,000 cubic yards to protect ag lands not served by a flow structure needing additional protection (Grant Line Canal, Four Corners Area, Salmon Slough, Old River upstream of Tracy Blvd. to the Head of Old River.</p> <p>If GLC can operate from June through September, dredging downstream of Grant Line Canal eastern barrier site (75,000 cubic yards)</p> <p>Total: 575,000 - 850,000 cubic yards; at cost of \$6 - 9 million</p>
16	Extend Ag diversions & add Fish Screens to provide ag water supply	Consolidate, extend, and screen ag diversions in the south Delta as appropriate. Potentially 127 ag diversions in south Delta could be screened at an estimated cost of \$6,350,000, assuming all intakes are screened. Assume \$10,000/diversion per cfs diversion.	12 - 20 diversions would need to be extended, then screened. cost estimate is \$600,000 to \$1.0m
17	Flow Structures	Not Applicable	<p>Middle River: \$3.9 Million</p> <p>Old River at Tracy: \$7.8 Million</p> <p>Grant Line Canal (rubber dam): \$7 Million or Grant Line Canal (Radial Gates): \$15.6 Million</p>
18	Fish Structure at HOR	\$12.2 Million	same

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22	O & M	O&M costs for: - fish screens - dredging of south Delta Channels (Assuming 10% annual cost, \$4 m/yr) - intake facilities - HOR fish structure	O&M costs for: - fish screens, cost reduced compared to single barrier alt - dredging of south Delta Channels (Assuming 10% annual cost, \$0.9 m/yr) - flow control structures - intake facilities (same) - HOR fish structure (same)
23	San Joaquin Flow Augmentation	Assume \$100 per acre-foot Total acre-feet required: 0-240 TAF/yr Total cost: up to \$24 m/yr	Not Applicable
25	Mitigation for...	Intake and Screen construction HOR Structure construction Dredging Navigation and Recreation	Intake and Screens (same as single barrier alternative) HOR Structure (same as single barrier alternative) dredging (less than single barrier alternative) 2 - 3 flow control structures footprint impacts Operational impacts on fisheries due to barriers Navigation and recreation impacts greater than single barrier alternative, but impacts reduced for this alternative if GLC not installed.