SECTION VIII – CANDIDATE MEASURE EVALUATION

Each of the candidate measures identified in Section 7 is brought forward to this section and evaluated against a set of evaluation criteria to determine which should be adopted into the implementation plan.

Evaluation Criteria

Each of the candidate measures will be evaluated based on three factors: 1) Projected Benefits, 2) Impacts or Constraints, and 3) Cost.

Projected Benefits

Water Conservation Efficiency (WCE) is the degree to which implementation of the measure would improve the efficiency of the system and conserve water. Operation and Maintenance (O&M) is the degree to which implementation would improve operation and maintenance efficiency or reduce costs. Safety and Liability (S/L) is the degree to which implementation would affect the safety and/or liability of the structure.

The criteria for each of the three categories of benefits range from a "-" rating which indicates a negative benefit to a "+++" which indicates a substantially positive benefit. A "0" rating indicates no benefit or an unknown benefit. An example of a "+" benefit would be a measure that adds overall efficiency, but no specific water conservation improvement can be quantified. Whereas a "++" or a "+++" rating would indicate some quantifiable conservation amount would be anticipated in addition to the overall efficiency improvement.

Impacts or Constraints

Impacts or constraints include "Environmental Impacts (EI)", and "Legal and Institutional Constraints (L/IC)". The criteria range from a "-1" indicating a negative impact to a "3" which indicates a substantially positive impact. A "0" rating indicates no known impact. The ratings, in addition to portraying the degree of anticipated impact, also indicate the degree of control the Association has with respect to implementation. For example, a "0" rating indicates full control by the Association to implement the measure without needs for outside permits or approvals. A "3", on the other hand, would indicate a measure that has significant public interest and could require numerous permits and approvals.

Cost

Appraisal-level costs have been estimated for each of the measures. These are capital costs for design and construction only, and do not include costs of financing, or other soft costs.

Summary

Table 8-1 summarizes the evaluation criteria ratings.

Table 8-1
Evaluation Criteria Summary

Factor	Negative	No Change	Positive		
			Minor	Moderate	Substantial
Projected Benefits • Water Conservation Efficiency • Operation and Maintenance • Safety and Liability	--	0	+	++	+++
Potential Impacts or Constraints • Environmental • Legal and Institutional	-1	0	1	2	3

Candidate Measure Evaluation

Table 8-2 summarizes the evaluation of each of the candidate measures against the evaluation criteria mentioned above.

Table 8-2
Candidate Measure Evaluation Summary

Candidate Measure	Projected Benefits			Potential Impacts		Costs ($)
	WCE	O&M	S/L	EI	L/IC	
CM-1. Rehabilitate and upgrade diversion structures	+	+++	0	1	1	315,000
CM-2. Upgrade creek crossings.	0	0	++	1	1	35,000
CM-3. Upgrade PRV structures.	0	0	++	1	1	24,000
CM-4. Investigate feasibility of constructing new storage (Freeman-Allred pond).	0/++	0	0	0	0	15,000
CM-5. Rehabilitate existing regulating ponds.	++	++	0	2	1	540,000
CM-6. Concrete-lined canal on the Flat	++	+	+	1	1	218,000
CM-7. Chimney System flume ditch	++	+	0	1	1	23,000
CM-8. Last Chance System open ditch (pond inlet).	++	+	+	1	1	145,000
CM-9. Develop a plan for dealing with City System use issues.	0/++	+	0	0	0	7,000
CM-10. Install meters within the City System.	+++	+	0	1	1	125,000
CM-11. Investigate feasibility of separating City/South Field pond into two systems with two ponds, one for each system.	0/++	+	0	0	0	15,000
CM-12. Acquire necessary easements.	0	+	+++	0	2	15,000
CM-13. Determine user interest and support for pressurized sprinkler system.	0/+++	0/++	0	0	0	4,000
CM-14. Determine cost feasibility for conversion to pressurized sprinkler system.	0/+++	0/++	0	0	0	12,000
CM-15. Complete pressure irrigation system acreage audits.	++	++	0	0	0	2,000
CM-16. Establish procedures for better management of Class B water-use.	++	++	0	0	0	5,000
CM-17. Update water conservation program.	+	++	0	0	0	5,000
Total Estimated Cost of All Measures						**1,505,000**

* WCE Water Conservation Efficiency
* O&M Operation and Maintenance
* S/L Safety and Liability
* EI Environmental Impacts
* L/IC Legal and/or Institutional Constraints