

ATTACHMENT 10- COST AND BENEFITS SUMMARY

This attachment provides a summary of the overall costs and benefits of the projects that make up this Proposal. Table 1 below provides the present value of the costs for each project and the present value of any monetized benefits for each project. A brief description of these benefits, as detailed in Attachments 7, 8, and 9, is provided.

Monetized Benefits

Water supply – Avoided imported water costs as a result of local use of recycled water, water conservation, a new method of bromide treatment that avoids flushing of unusable water due to nitrification, invasive species removal, and repair of an exposed sewer trunk line in the Santa Clara River bed.

Water quality and other – partial avoidance of Alternative Water Resources Management (AWRM) project costs, health benefits from innovative water treatment technique, reduction in water treatment chemical costs, avoided wastewater treatment costs, avoided sewer line repair and replacement costs, avoided sewer spill clean-up costs, avoided fertilizer costs.

Flood damage avoidance – none (only qualitative)

Qualitatively Assessed Benefits (including Quantified)

Water supply – increased water supply reliability, increased operational flexibility for CLWA.

Water quality and other – reduced chloride loading to help meet TMDL for the Watershed, development of an innovative bromide treatment technique potentially benefiting other utilities, restoration of native habitat, decreased streambank erosion, reduced fire hazard, reduced stress on Sacramento-San Joaquin Delta, reduced pollution from dry-weather runoff, reduced CO2 emissions.

Flood damage avoidance – reduced impact of flooding due to invasive species removal.

**TABLE 1
 PROPOSAL COSTS BENEFITS SUMMARY**

Proposal: Upper Santa Clara River IRWM Plan Round 1 Proposition 84 Implementation Grant							
Agency: CLWA, NCWD, VWC, City of Santa Clarita							
Project	Agency	Total Present Value Project Costs (1)	Total Present Value Project Benefits				B/C Ratio
			Water Supply (2)	Flood Damage Reduction (3)	Other (4)	Total	
(a)	(b)	(c)	(d)	(e)	(f)	(g) (d) + (e) + (f)	(h) (g) / (c)
SCV Water Use Programs (CLWA-4)	Castaic Lake Water Agency (CLWA)	\$1,645,699	\$3,405,010	\$0	\$187,881	\$3,592,891	2.2
SCR-Sewer Trunk Line (NCWD-3)	Newhall County Water District (NCWD)	\$202,718	\$44,117	\$0	\$33,394	\$77,511	0.4
SCV Southern End Recycled Water (VWC-1)	Valencia Water Company (VWC)	\$10,974,099	\$9,061,140	\$0	\$7,091,102	\$16,152,242	1.5
Bromide Removal Project (CLWA-2)	CLWA	\$1,072,533	\$147,960	\$0	\$772,635	\$920,595	0.9
SCR Arundo & Tamarisk Removal (SC-1/USFS-1)	City of Santa Clarita	\$648,310	\$674,560	\$0	\$0	\$674,560	1.0
TOTAL		\$14,543,359	\$13,332,787	\$0	\$8,085,012	\$21,417,800	1.5