

SRCSD's Water Supply Portfolio								
Water Source	ADF* (mgd)	Annual Volume (Ac-Ft/Yr)	% of Total Volume	Existing Use				
SRWTP (SE**)	153	171,000	99.36%	Discharged into the Sacramento River				
WRF PI (TE***)	1 - 3.5 (seasonal)	1,100	0.64%	Urban Non-Residential Landscape Irrigation in Elk Grove +				
				Industrial/Landscape Use at SWRTP				
Total		172,100	100%					
*ADF = Average Daily Flow **Average flow/volume for the last 8 years. *** Avg. flow/volume for the last 3 years.								

Water Recycling Program Timelines

1990s – Initiated Partnership with SCWA

- Investigation & Conceptual Planning
- Public Outreach Efforts Initiated
- Purple Pipe Installation w/Base Infrastructure

2000s

- Construction of 5-mgd WRF (1999-2002)
- SRCSD/SCWA Wholesale Agreement (2002)
- Start of recycled water deliveries(April 2003)
- Water Recycling Opportunities Study (2007)
- WRF Phase II Expansion Design (2009)

Future Goals

- Build Phase II WRF Expansion Project (2010-2014)
- Develop a Large-Scale Water Recycling Program

Water Recycling Opportunities Study (WROS)

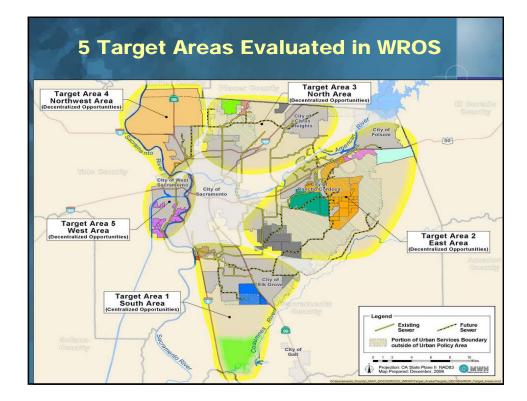
Purpose: To identify, evaluate, and prioritize projects for potential use of recycled water to meet the strategic goal of recycling 30-40 mgd of water over the next 20 years.

- Completed in 2007
- Evaluated 5 Target Areas in the Sac. region.
- Identified, Ranked, and Prioritized 18 Potential Recycled Water Projects
- Recommendations

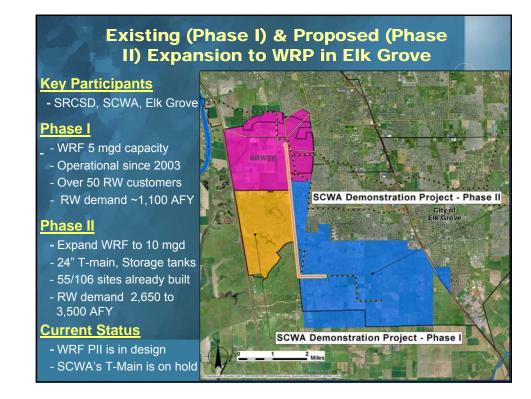


WATER RECYCLING

OPPORTUNITIES STUDY



Summary of Potential Recycled Water Projects Identified in the WROS stimated Capital Cost EUAC/AF Peak Day (\$ in Target Potential Water Recycling Project CD erage Day Annua Demand Demand millions) (\$/AF) Demand Area No. (AF/Year) 3.0 Ranking (MGD) (MGD) 1 South County Ag. Lands 2 9.3 16.5 10,438 \$48 \$245 Phase II Developments & South County Ag. 11.6 22.3 13,014 \$89 \$354 1 ands (2,000 Acres Ag Lands Option) 3 2.3 5.8 2,576 \$48 \$728 1 Phase II Developments 1 BCGC 4 0.3 0.7 591 \$5 \$966 BCGC and Delta Shores 5 1.0 2.2 985 \$15 \$1,025 1 Delta Shores 8 0.7 1.5 394 \$13 \$1,284 1 2 Mather Areas 7 2.4 5.9 2,598 \$55 \$1,781 2 City of Folsom & Glenborough (Scenario C) 16 1.7 4.4 1,920 \$83 \$3,010 2 City of Rancho Cordova, City of Folsom, 78 20 8.819 \$318 \$2.515 9 Glenborough, and Mather Areas City of rancho Cordova & Mather Areas 6.2 15.7 6,899 \$224 \$2.537 2 6 2 City of Folsom & Glenborough (Scenario D) 12 8.6 21.9 9,701 \$3,252 City of Rancho Cordova 10 3.8 9.8 4,301 \$89 \$2,554 2 Rio Linda/Elverta – Cherry Island/Gibson 3.2 1,411 \$32 \$,1866 3 13 1.3 Ranch 3 Rio Linda/Elverta – Cherry Island/Gibson 11 1.6 3.9 1,713 \$40 \$1,902 Ranch & Elverta Specific Plan Rio Linda/Elverta Area – Elverta Specific Plan 0.3 \$17 3 18 0.7 302 \$4,430 15 4.4 11.1 4,928 \$157 \$2,358 4 Natomas JV Area Rio Linda/Elverta – Elverta Specific Plan and \$2,469 4 14 4.7 11.8 5,230 \$177 Natomas JV Area 17 1.736 \$63 \$2,609 5 City of West Sacramento 14 3.8



South Sacramento County Agriculture & Habitat Lands (South County) Project

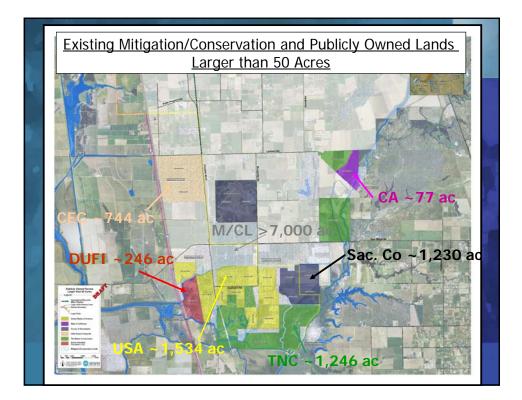
Key Participants

- SRCSD, Elk Grove, TNC

Project Elements

- Centralized Project
- Use of secondary effluent (RW) to irrigate Agricultural & Mitigation Lands
- 2,000 to 8,000 acres of Ag & Mitigation lands could use RW
- Pumping Facilities
- 10 mile long 36"-48" T-Main





Estima	ated Irrigation	Demands
Water	Irrigation Demand	Irrigation Demand
Demands	for 2000 gross	for 8000 gross
	acres (1800	acres (7200
	irrigated acres)	irrigated acres)
Average Demand (MGD)	9.3	37.3
Peak	18.7 74.7	
Demand (MGD)		
Ac-Ft/Yr	10,438	41,760

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	Capital	O&M Annual Cost	Total EUAC with Capital	EUAC per Ac-Ft
SRWTP	\$5,550,000	\$261,000	\$502,000	\$48
T-Main	\$35,689,000	\$98,000	\$1,642,000	\$157
On-Site	\$14,787,000	\$221,000	\$861,000	\$82
Total	\$56,026,000	\$580,000	\$3,005,000	\$288
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Capital and O&M Costs for 8,000 Acre Option

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Capital	O&M Annual Cost	Total EUAC with Capital	EUAC per Ac-Ft
\$24,641,000	\$2,578,000	\$3,645,000	\$87
\$47,585,000	\$131,000	\$2,190,000	\$52
\$58,139,000	\$579,000	\$3,095000	\$74
\$130,365,000	\$3,288,000	\$8,930,000	\$214
	\$24,641,000 \$47,585,000 \$58,139,000	Annual Cost \$24,641,000 \$2,578,000 \$47,585,000 \$131,000 \$58,139,000 \$579,000	Annual with Cost Capital \$24,641,000 \$2,578,000 \$3,645,000 \$47,585,000 \$131,000 \$2,190,000 \$58,139,000 \$579,000 \$3,095000

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- Limited water supplies & increasing water demands
- Increased competition for water supplies
- State demand for water has placed the Delta in jeopardy
- Future water supplies are uncertain, and agencies need to plan for sustainable, reliable, and drought-proof water supplies
- Effluent management options



- Engage stakeholders to identify partners & to refine acreage and water use/demands
- Secure Ag/mitigation lands
- Develop a Financing Plan & Revenue Program
- Develop process to secure the water rights involved
- Develop process to obtain a permit for a new point of discharge
- Seek Funding Opportunities
- Evaluate use of RW for Wetlands???
- Develop PoA or MOU between partners
- Support preparation of WAF or Banking mechanism



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