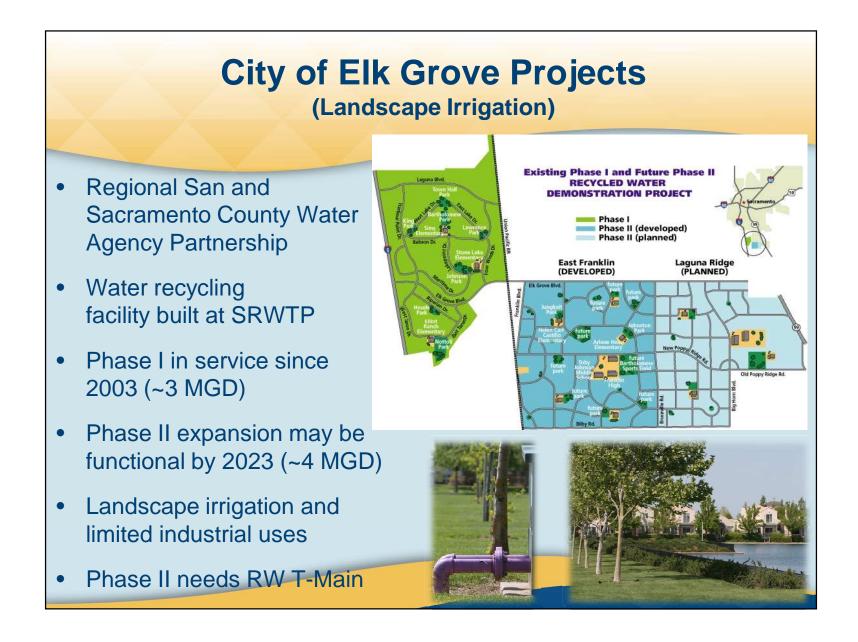
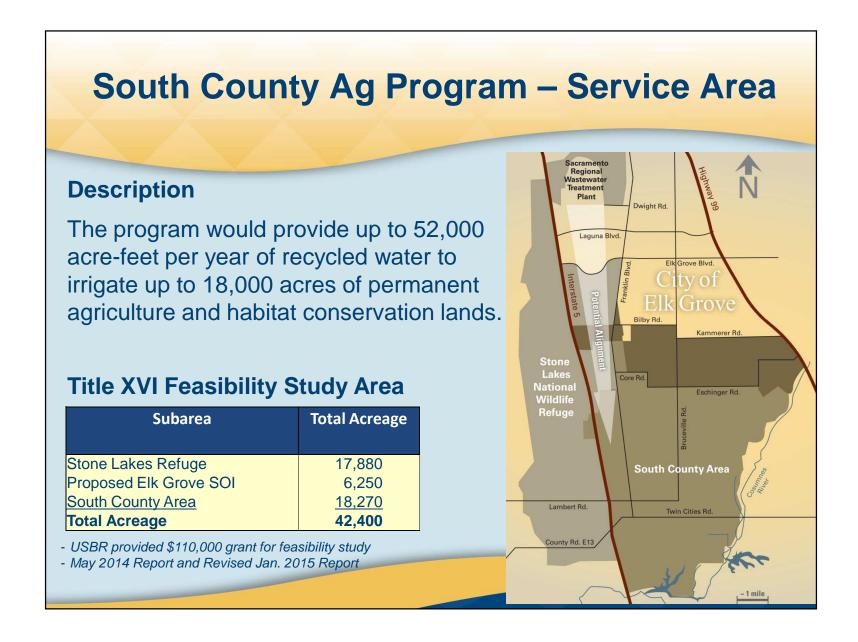


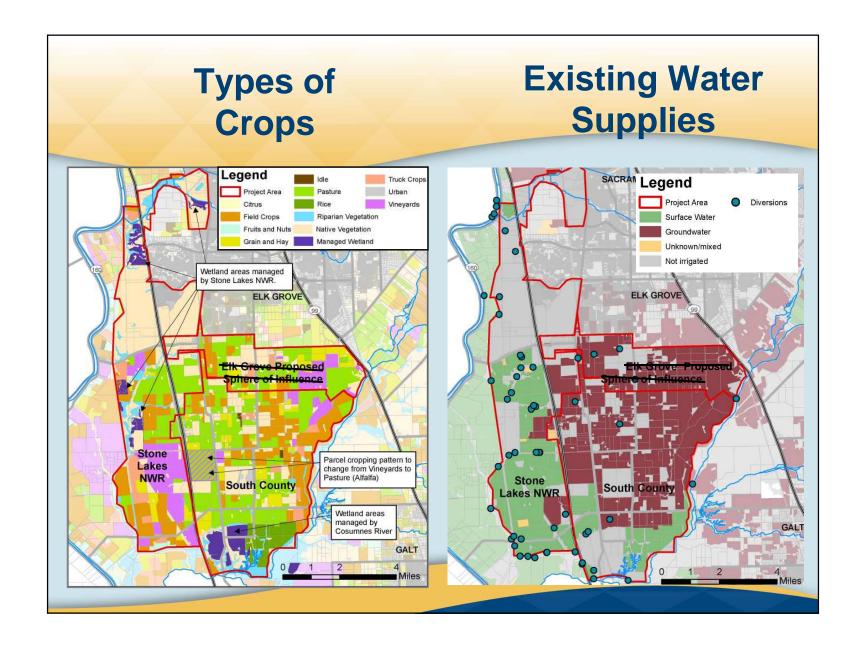
Overview

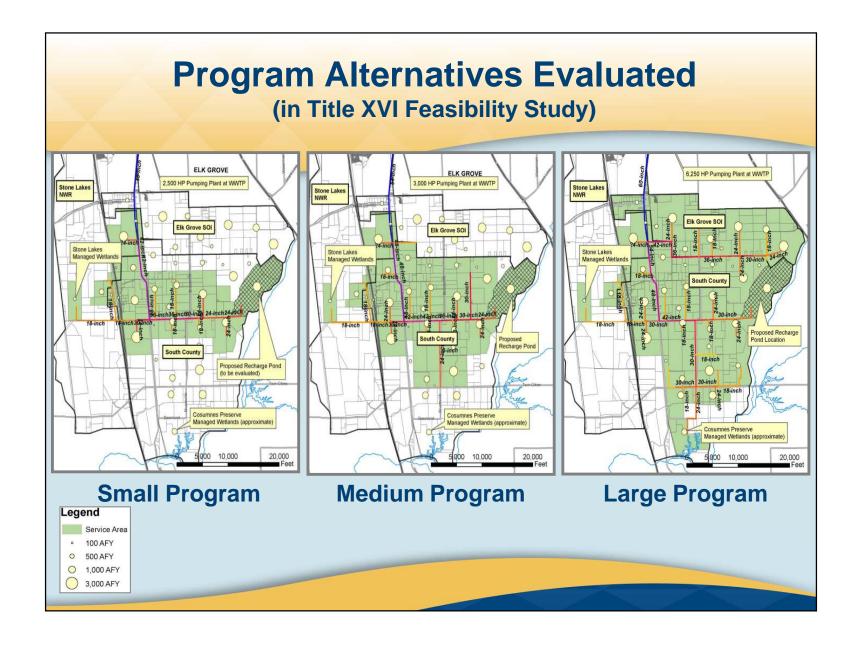
- Regional San Water Recycling Efforts
 - City of Elk Grove Projects (landscape irrigation)
 - South County Ag Program (agriculture and habitat lands irrigation)
 - Sacrament Power Authority / City of Sacramento Projects (industrial and landscape irrigation)
 - Recycled Water Trucking Program (Tanker trucks, street-sweeper, etc.)











Program Alternatives Evaluated

(in Title XVI Feasibility Study)

 Alternatives build in size to balance costbenefits and to facilitate financing

Program Size	Irrigated Acreage	Recycled Water Delivered (AFY)	Capital Cost (Millions)	Annual Unit Cost (\$/AF)
Small	8,000	27,000	\$140	\$250/AF
Medium*	11,000	34,000	\$175	\$240/AF
Large	18,000	52,000	\$245	\$230/AF

*Recommended alternative in the Title XVI Feasibility Study (Currently moving forward with a <u>Medium Plus Alternative</u>)

Program Benefits

Farmers

- Provides a sustainable water supply for agriculture
- May reduce pumping costs
- May help to lower well maintenance and replacement costs

Regional

- Increases groundwater elevations
- Creates new and sustainable water supplies
- Diversifies water resources
- Improves control of local water supplies

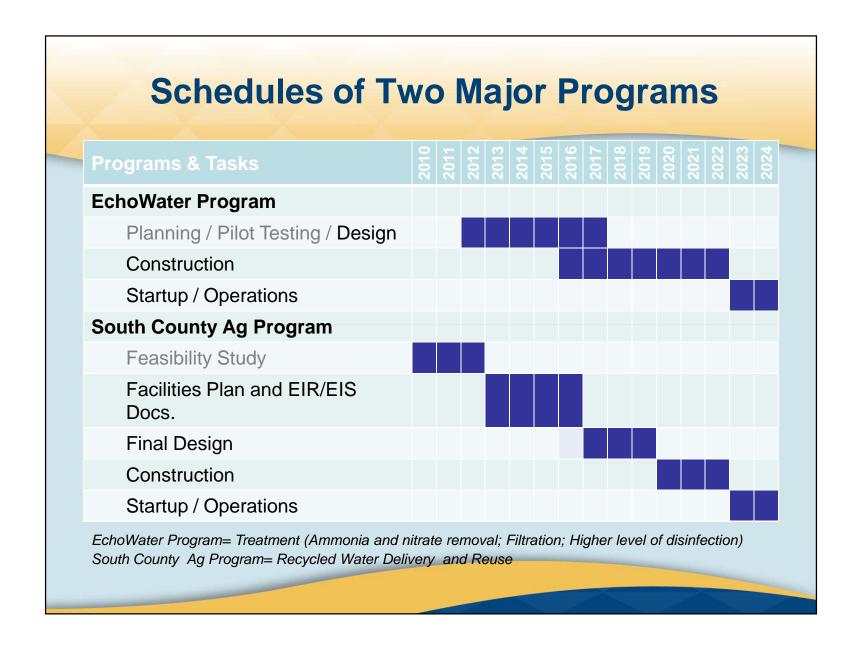
Regional San

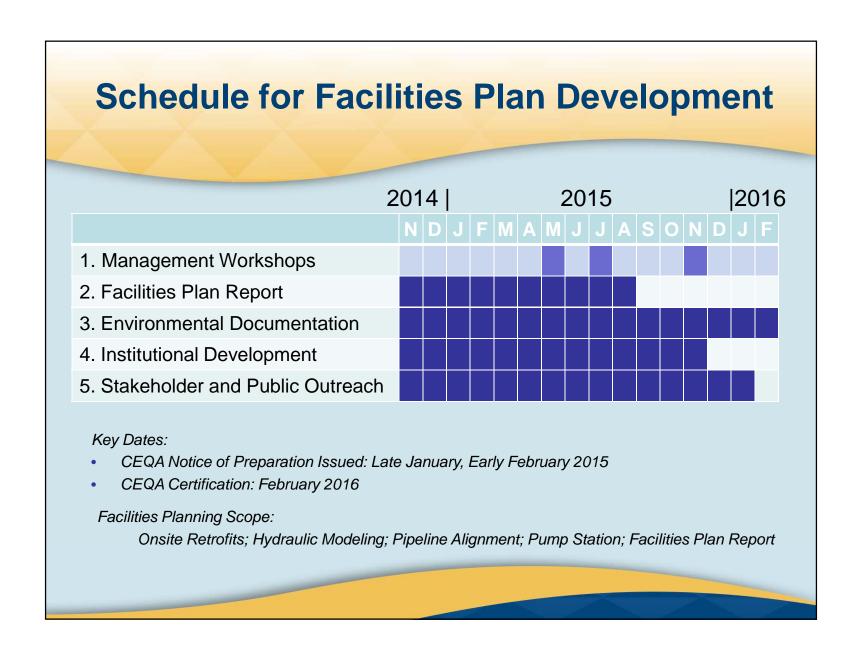
- Reduces effluent flow to Sacramento River
- Has the potential to create groundwater banking opportunities

Environmental

- Increases Cosumnes River flows
- Helps to maintain riparian vegetation and habitat
- Provides a drought-proof supply for wetlands







Next Steps

Facilities Plan Report (10% design)

- Develop facilities plan and environmental documentation (CEQA and NEPA)
- Develop institutional and governance frameworks
- Expand stakeholder outreach efforts
- Submit Change-of-use Petition to SWRB
- Continue to pursue state and federal funding

SPA Cogen Project – Industrial Use

- 1,000 AFY (1 MGD) of year-round recycled water demand
- 6.3 miles of 10"-18" diameter transmission pipeline
- Estimated capital cost is \$15 million
- Secured ~\$3.7 million in state grant funding (Propositions 50 and 84)
- Prop. 50 requires completion by Dec.
 2015 and Prop. 84 by June 2016
- Pipe upsized to connect other future users by upsizing pipeline



Future Expansion Opportunities in the City of Sacramento – Landscape Irrigation

- Initial service to SPA (SMUD)
- Upsized T-Main pipeline (10" to 18" diameter) to serve other future users
- Additional recycled water demand: ~2,855 AFY
- Approx. 562 acres irrigated
- Phased approach to expand program with future grants



Next Steps

Final Design, Permitting, Construction

- CEQA PLUS (completed in November 2014)
- Complete institutional and governance framework
- Submit Change-of-use Petition to SWRCB
- Continue to pursue funding at state and federal levels
- Construction (Fall 2015 to Fall 2016)

Proposed Recycled Water Trucking Program

- Potential users: tanker trucks, street-sweepers, cleaning/washing companies, landscaping companies, residential customers, etc.
- <u>Potential uses</u>: dust control, soil compaction, decorative fountains, power and street washing, landscape irrigation and ponds, sewer cleaning, etc.
- Stakeholder engagement
- Feasibility Study & Technical phases
- Identify location of Fill Stations

http://www.youtube.com/watch?v=SlbvLUvmyso&feature=player_embedded





Video About Water and Water Recycling

A video promo for "Last Call at the Oasis"
 (2012) - a documentary about water supplies

http://www.youtube.com/watch?v=II_YI UDAv3c&feature=youtu.be

Questions?

José Ramirez, P.E., Senior Engineer Regional San 10060 Goethe Road Sacramento, CA 95827

Or call: (916) 876-6059

Or e-mail to: ramirezj@sacsewer.com

Or Visit: http://srcsd.com/swrc-projects.php