

Santa Clarita Valley Sanitation District Chloride Compliance Program

Matt Bao Project Engineer Los Angeles County Sanitation Districts

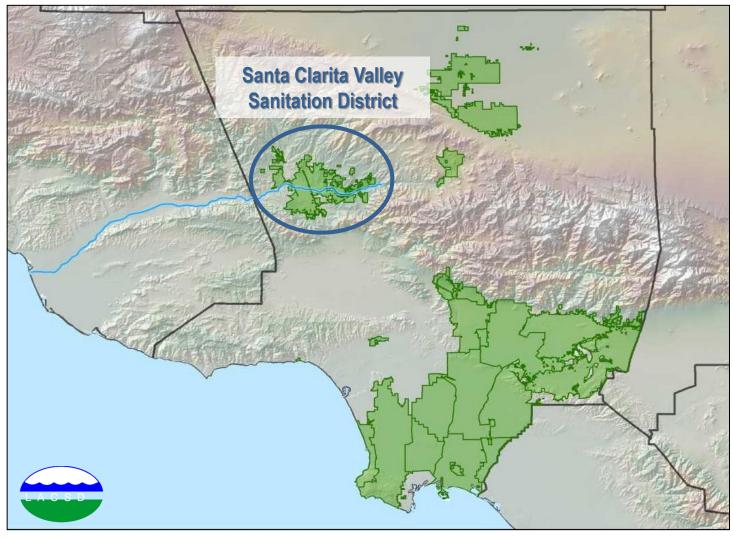
April 23, 2015



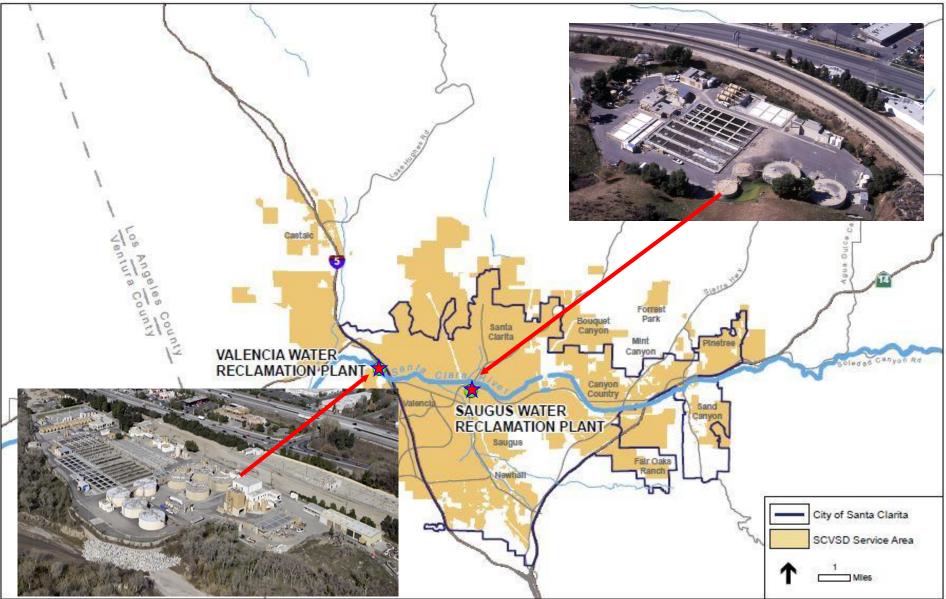
Presentation Overview

- Background on Chloride Issues in Santa Clarita
- Steps to Local Control of Automatic Water Softeners (AWS)
- Optimized Chloride Compliance Project

County Sanitation Districts of Los Angeles County

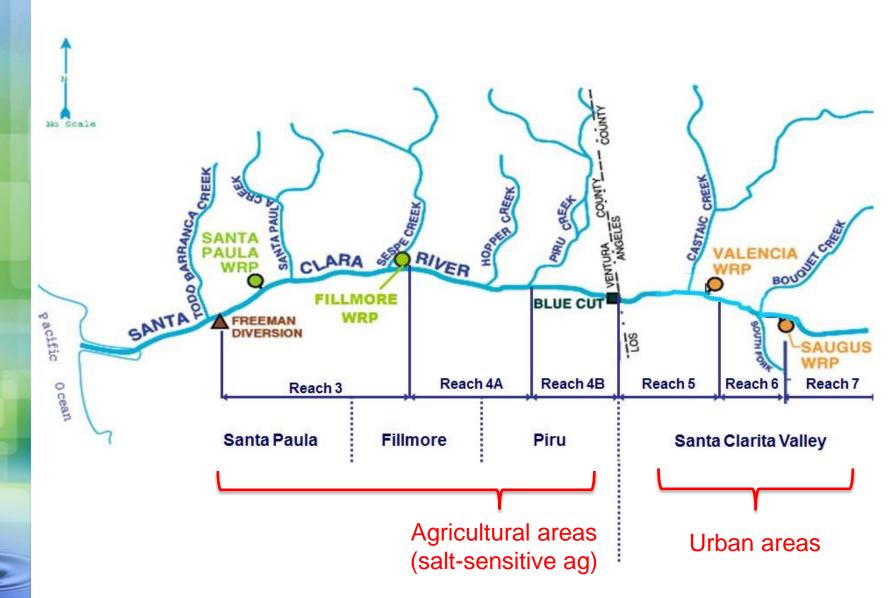


Santa Clarita Valley Sanitation District (SCVSD)

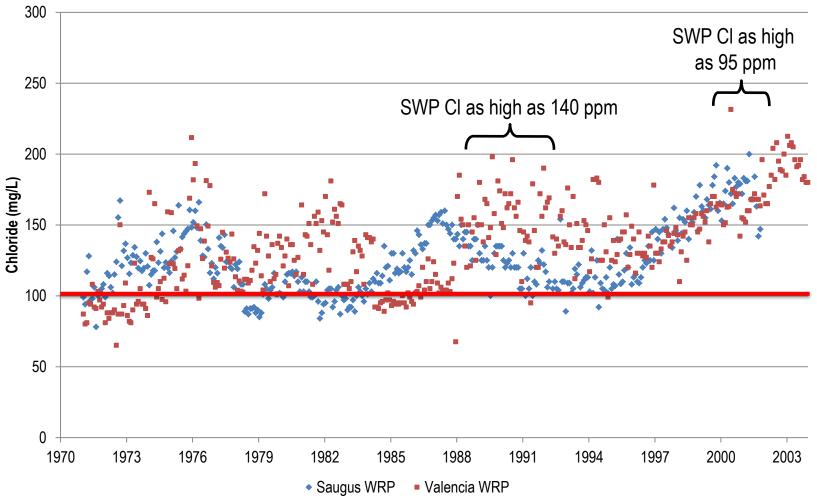




Santa Clara River Watershed



Recycled Water Chloride Levels



- 1989 Regional Board sets ultimate discharge standard of 100 mg/l
- 2002 Regional Board adopts TMDL to implement standard



SCVSD Chloride Compliance Program

- Integrated approach that has been in development for over 10 years
- Source Control Program for Chloride
- Certification of a Facilities Plan and EIR
- Approval to move forward with optimized Chloride Compliance Project



Source Control Program for Chloride









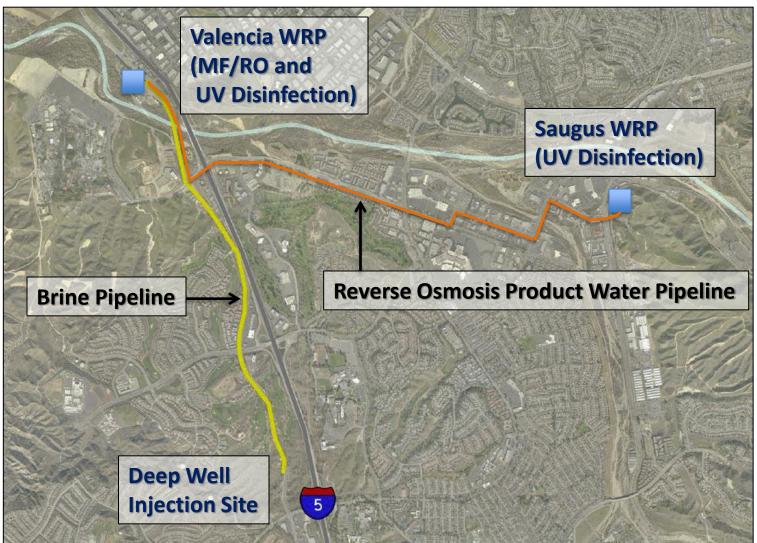
Water Softener Removal

Basic Facts About Measure "S"

- Requires four (4) percent of Santa Clarita Valley homes to remove salt-based "automatic" water softeners
- Complies with a State Order to cut salt levels in the Santa Clara River
- Results in a cleaner environment by protecting our river and groundwater
- Minimizes sewer charge increases
- Pays owners of salt-based water softeners \$275 to \$2,000 to remove their old units
- Allows ALL OTHER types of water softeners to be used



Approved Chloride Compliance Project





Final Compliance Project

- UV Disinfection
- 7.1 MGD Microfiltration & Reverse Osmosis
- Deep Well Injection of Brine (now considering alternatives including brine minimization & trucking)
- Capital Cost Approximately \$120 Million (without permeate pipeline)

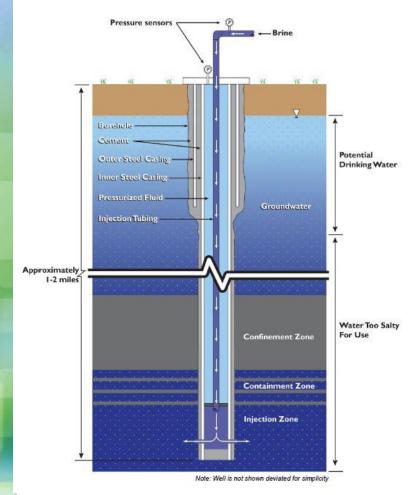


Final Compliance Project



- Microfiltration/ Reverse Osmosis
- Brine Minimization
- Ultraviolet Disinfection (closed vessel)

Final Compliance Project (cont.)

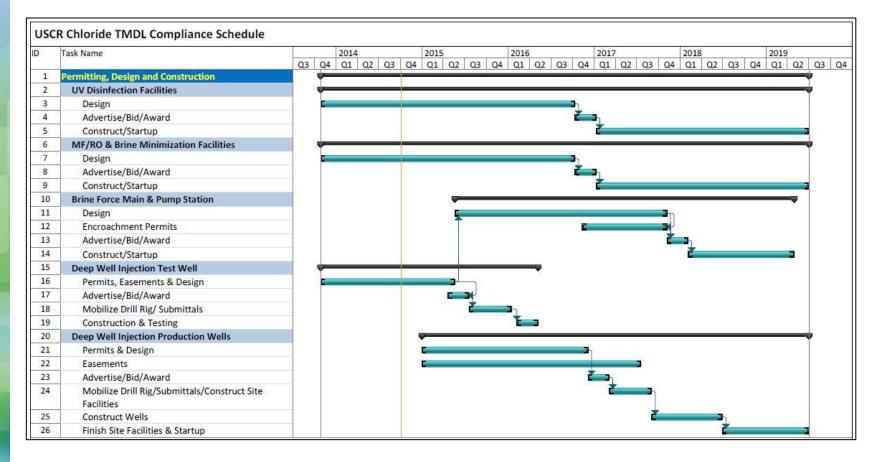




Deep Well Injection



Schedule and Cost



- Completion by July 1, 2019
- Approximate Project Cost of \$120 M

Questions?

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