

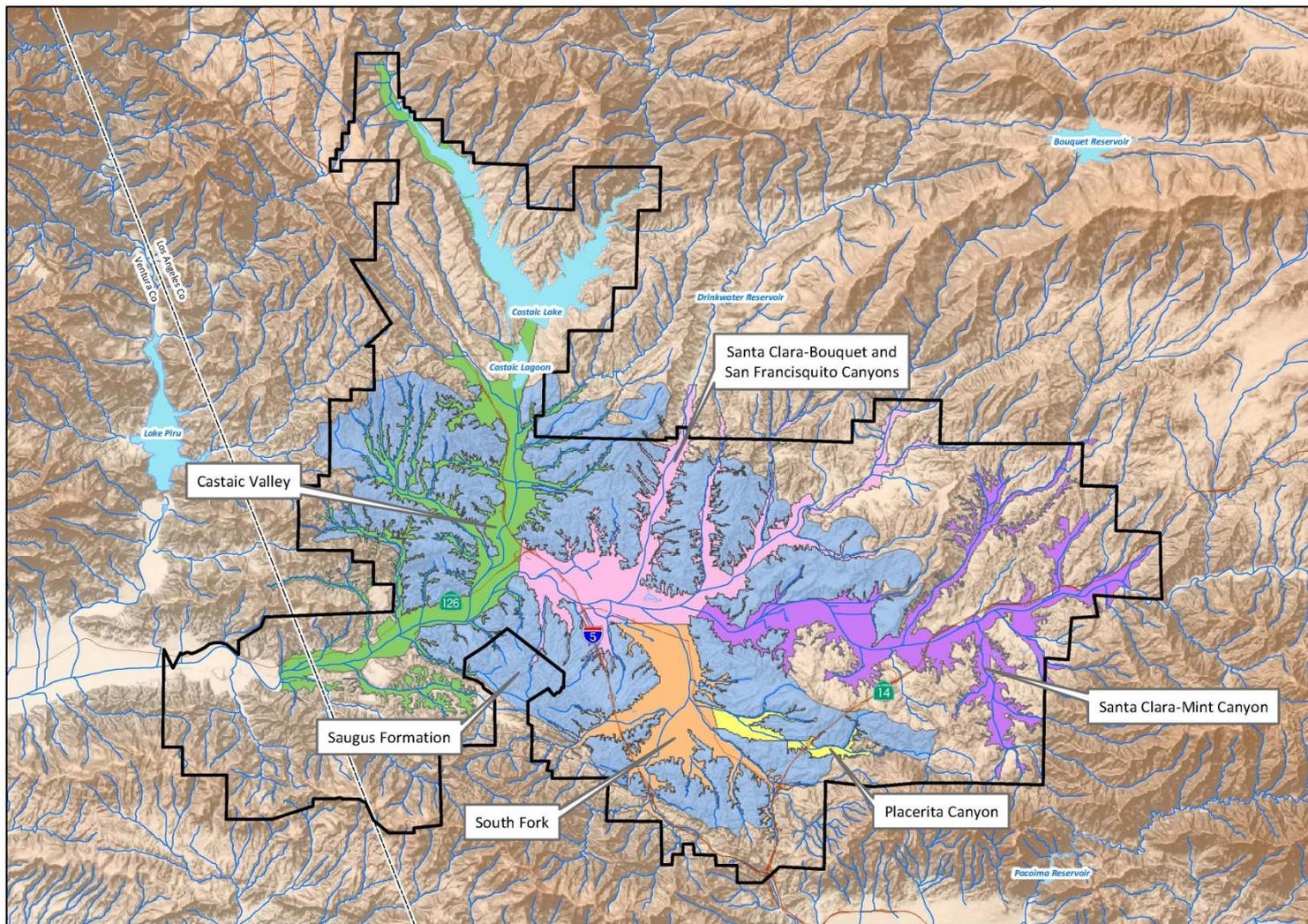
Salt and Nutrient Management Plan Santa Clara River Valley East Subbasin

Regional Water Quality Control Board Workshop
November 15, 2012



UPPER SANTA CLARA RIVER
Integrated Regional Water Management





**SUBUNITS OF THE
EAST SUBBASIN
ALLUVIAL AQUIFER AND
SAUGUS FORMATION**

EXPLANATION

-  Castaic Lake Water Agency Boundary
- LARWQCB Ground Water Subunit**
-  Castaic Valley
-  Santa Clara-Mint Canyon
-  Santa Clara-Bouquet and San Francisquito Canyons
-  South Fork
-  Placerita Canyon
-  Saugus Formation (Areal Extent)

DRAFT

15-Oct-12

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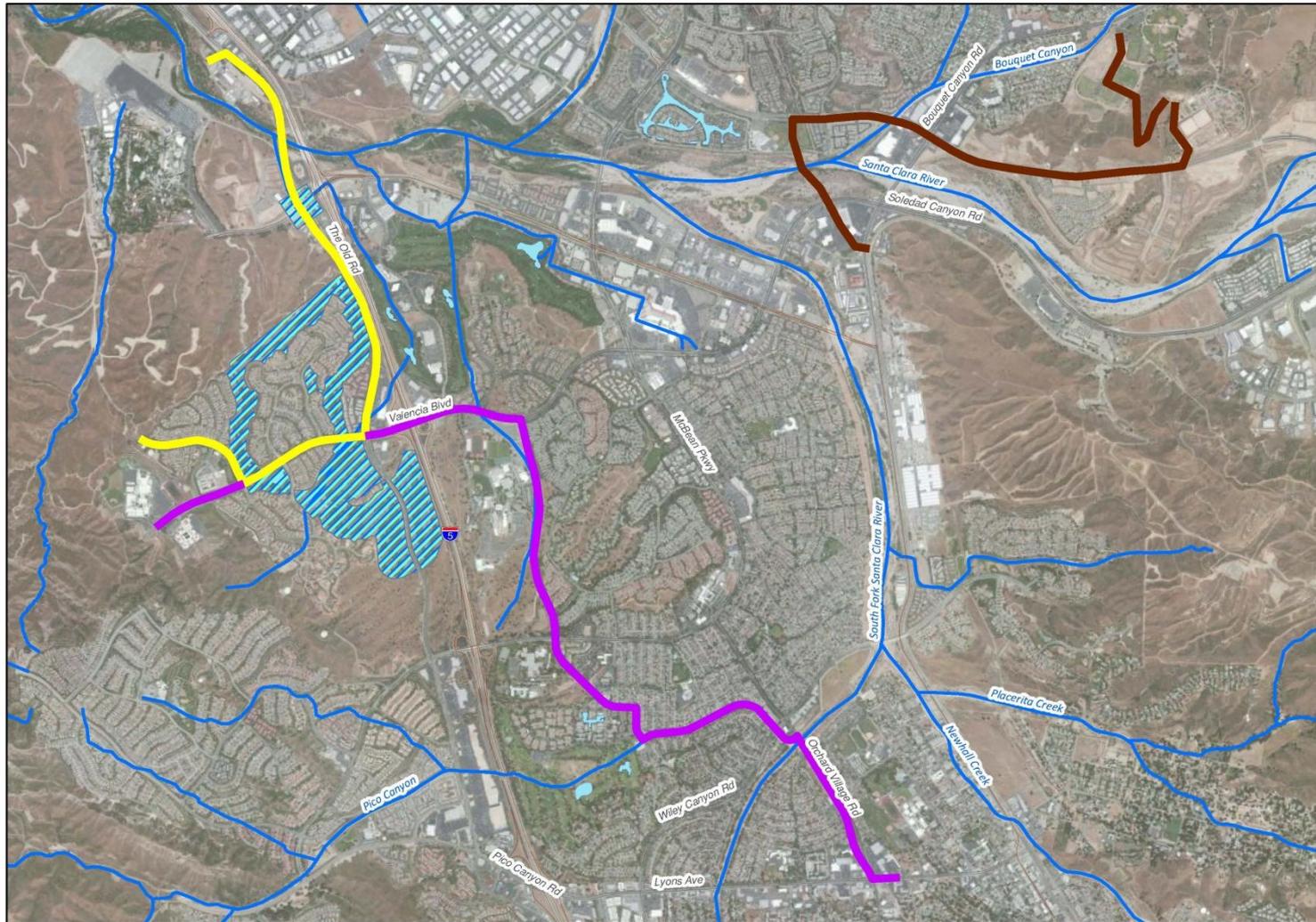
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Figure 7

Santa Clara River Valley East Subbasin

Recycled Water Use

- * 2010 SCV Urban Water Management Plan (UWMP)
 - * 3,050 AFY by 2020
 - * 9,600 AFY by 2030
- * Major new water supply in 2010 SCV UWMP

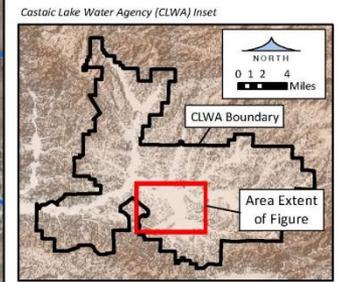


**RECYCLED WATER USE
AREA AND PROPOSED
INFRASTRUCTURE**

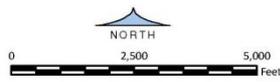
EXPLANATION

- Existing Recycled Water Infrastructure
- Proposed Phase 2A - Recycled Water Infrastructure
- Proposed Phase 2C - Recycled Water Infrastructure
- Current Areas of Recycled Water Use

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Figure 10

Santa Clara River Valley East Subbasin Recycled Water Use and Proposed Infrastructure

IRWMP Stakeholders

- * Regional Water Management Group
- * SNMP Task Force
- * Stakeholders
- * Grants (?)

Development Steps

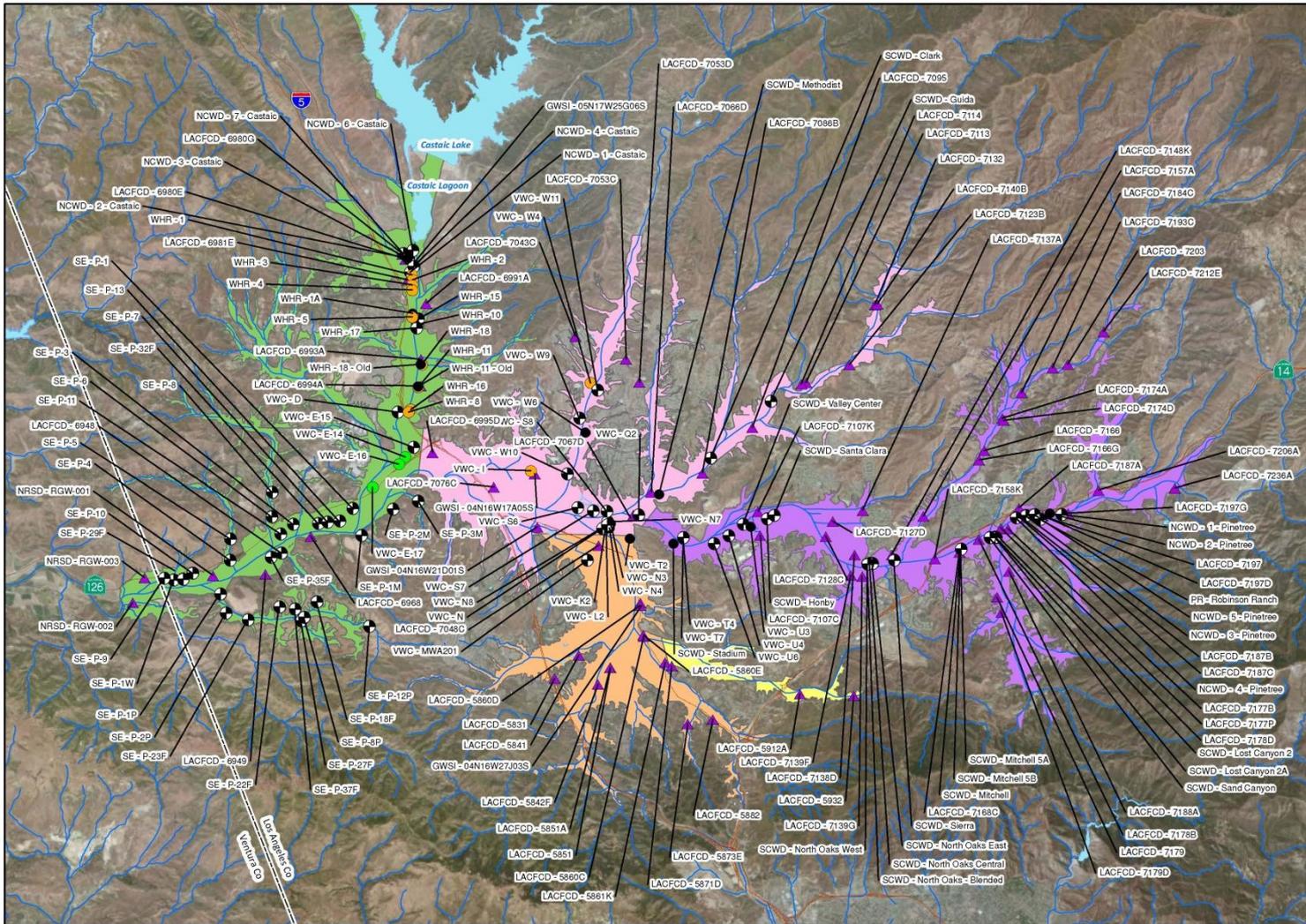
- * SNMP Task Force started meeting Oct 2011
- * Collect and synthesize data
- * Determine ambient water quality
- * Determine and quantify sources of salts and nutrients
- * Review existing East Subbasin water quality monitoring efforts
- * Develop basin wide salt and nutrient monitoring program
- * Develop salt and nutrient management strategies
- * Monitoring strategies for CEC's
- * Prepare anti-degradation analysis
- * Prepare implementation plan for salt and nutrient management

Issues

- * Water quality issues; chloride, TDS, nitrate, and perchlorate contamination.
- * High cost of producing and supplying recycled water
- * Increasing water demand and decreasing imported water supply reliability.
- * Runoff and drainage issues related to urbanizing areas in the floodplain.
- * Increased regulatory compliance burden to limit pollution in stormwater runoff.
- * Septic areas?
- * Areas requiring monitoring wells?

Monitoring Strategy

- * Augment existing monitoring within basin
- * Identify SNMP monitoring program goals
- * Create repository of water quality information



ALLUVIAL AQUIFER WELLS

EXPLANATION

Alluvial Aquifer Wells by Owner

- Active
- Inactive
- Destroyed / Abandoned
- Pending
- ▲ Unknown

LACWD = LA County Waterworks District 36

NCWD = Newhall County Water District

SCWD = Santa Clarita Water Division

VWC = Valencia Water Company

PR = Private

LARWQCB Ground Water Subunit -
With Basin Objectives (mg/L)

- Castaic Valley
- Santa Clara-Mint Canyon
- Santa Clara-Bouquet and San Francisquito Canyons
- South Fork
- Placerita Canyon

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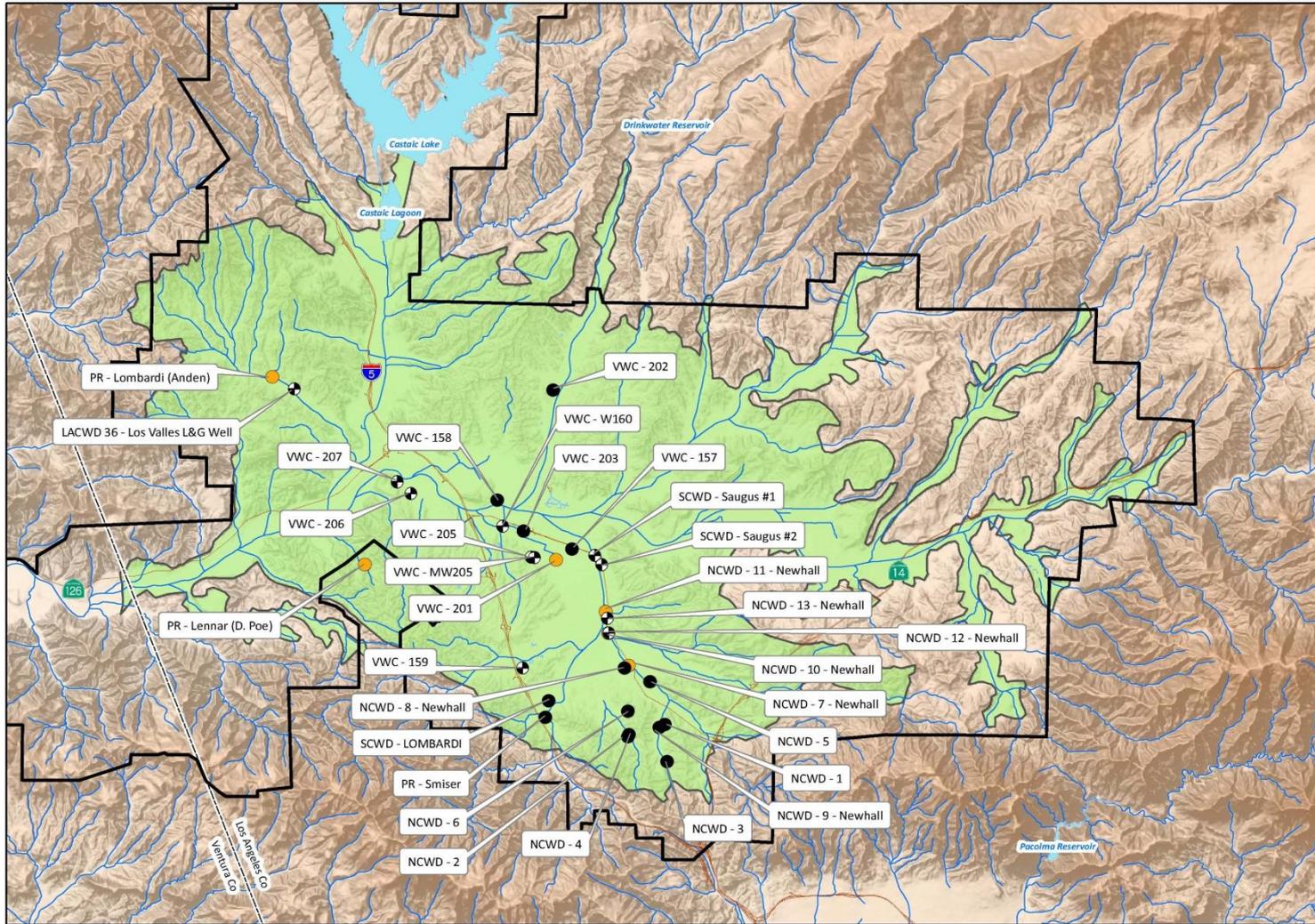
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Figure 8



Santa Clara River Valley East Subbasin Alluvial Aquifer Wells

SAUGUS FORMATION WELLS



EXPLANATION

- Castaic Lake Water Agency Boundary
- Santa Clara River Valley East Ground Water Subbasin

Saugus Formation Wells by Owner

- Active
- Inactive
- Destroyed
- Pending

- LACWD LA County Waterworks District No. 36 - Val Verde
- NCWD Newhall County Water District
- SCWD Santa Clarita Water Division
- VWC Valencia Water Company
- PR Private

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Figure 9

Santa Clara River Valley East Subbasin Saugus Formation Wells

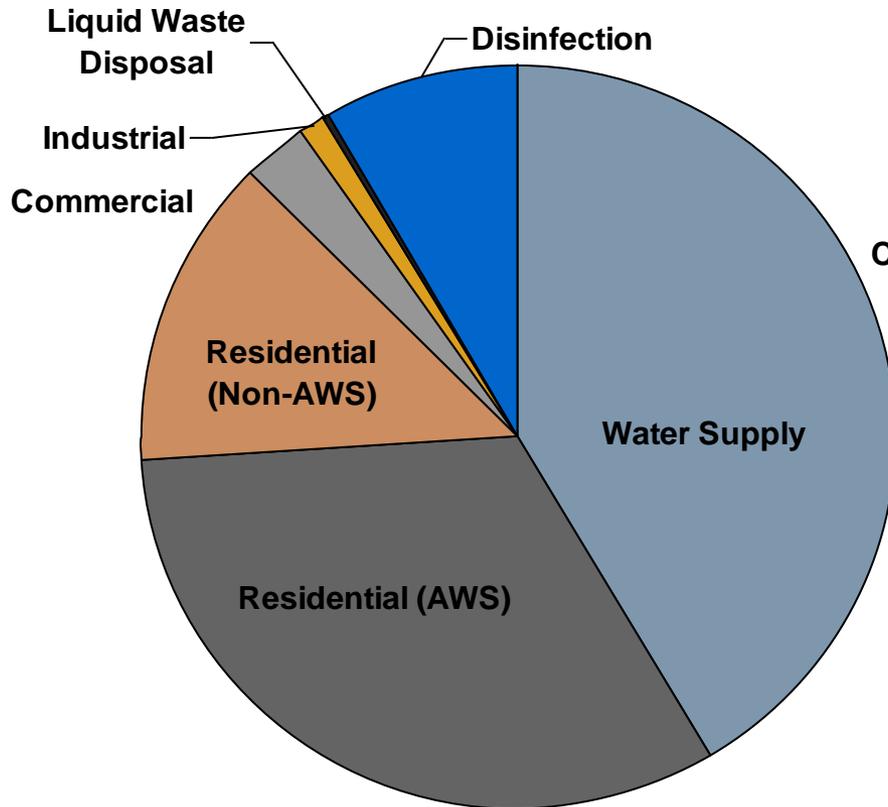
Potential Implementation Programs

- * New IRWMP Projects
 - * Newhall County Water District's Pellet Softening Treatment Plant – Phase 1
 - * City of Santa Clarita Septic to Sewer Retrofit Project
 - * Santa Clarita Valley Sanitation District's Automatic Water Softener Rebate and Public Outreach Program
 - * Santa Clarita Valley Sanitation District's Saugus WRP Ultraviolet Light Disinfection Facility
 - * TMDL Compliance Project

Water Softener Ban Success

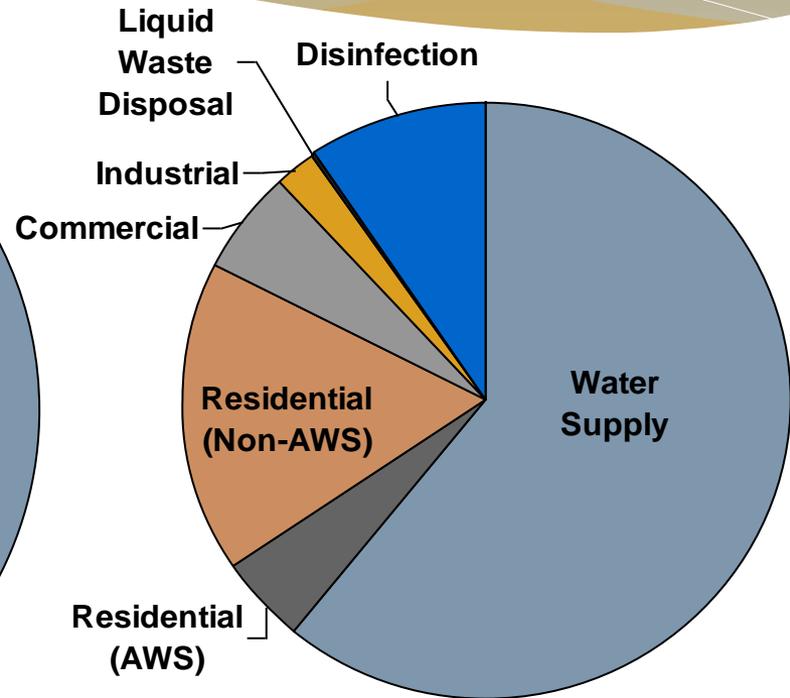
Percent Chloride Contribution Reduced from 33% to 5%

2004



178 mg/L

2010



128 mg/L

CEQA Compliance

- * Region will need to comply with CEQA
- * SNMP will require CEQA compliance and approval by LARWQCB staff as part of its certified regulatory program

Conclusions

- * SNMP Task Force, IRWMP Stakeholders, and RWMG worked well together
- * Overlap between IRWMP and SNMP beneficial
- * Work effort doesn't overlap closely but related
- * IRWMP provided funding source for SNMP

Questions

