South Orange County Regional Recycled Water Planning



San Diego Regional Water Quality Control Board

> Santa Margarita Water District February 11, 2015

Santa Margarita
Water District

SMWD Recycled Water

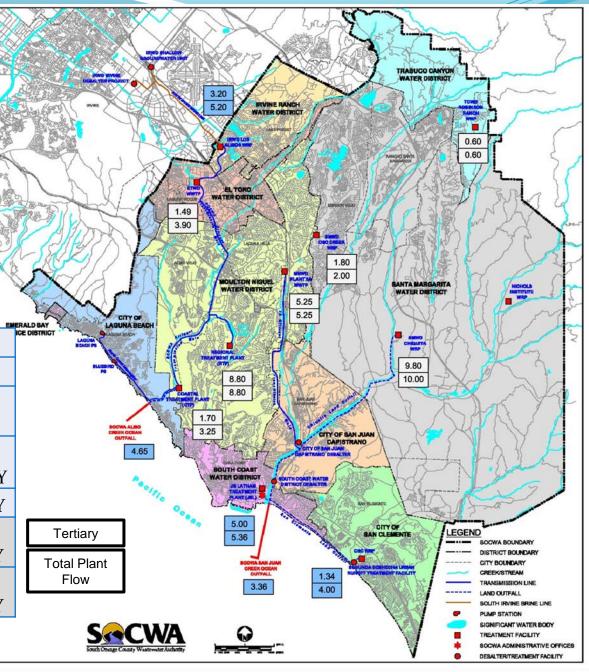
- Integral to Water Reliability Planning since 1979
- Currently meeting 17% of demand, projected to over 30%
- Ultimately utilize 100% of the wastewater
- Challenges:
 - Need Seasonal storage
 - Need Treatment plant expansion

South Orange County Regional Recycled Water Planning Effort

- Recycled water since 1970's
- Commonality of goals and projects
- SOCWA holds Regional Recycled Water Permit 97-52
 - Long history of collaboration with Regional Board
- March 2014, SMWD regional recycled water summit
 - Identified opportunities, available supplies, current uses, proposed uses, impediments and developing implementation strategies

Regional Recycled Water Potential

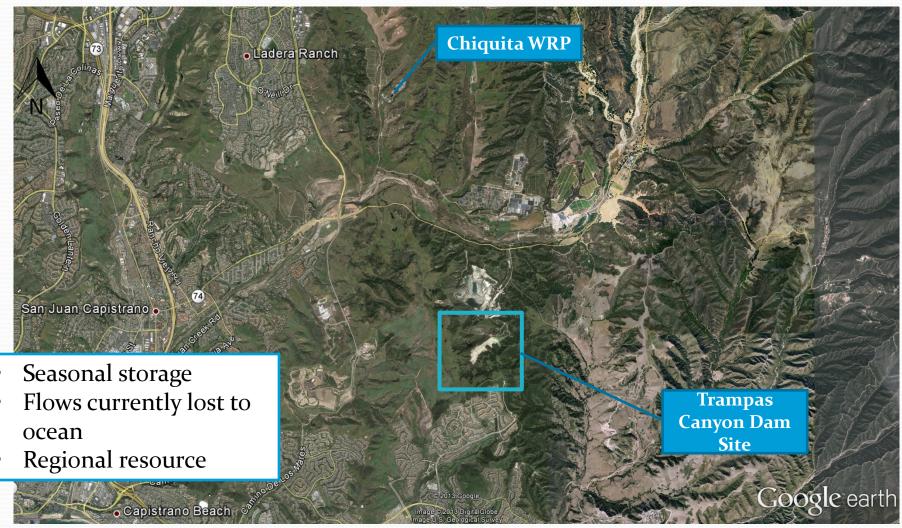
11 Treatment Plants	
Current	Future
43 MGD	48 MGD
17,700 AFY	44,100 AFY
30,800 AFY	10,100 AFY
18,900 AFY	3,400 AFY
11,900 AFY	6,700 AFY
	Current 43 MGD 17,700 AFY 30,800 AFY 18,900 AFY



SMWD Recycled Water Projects

- Removing the obstacles for sustainable local supplies:
 - Expansion of Chiquita WRP 4.0 MGD
 - Expansion of 3A Plant 3.75 MGD
 - Coordination of wastewater flows between Oso Creek ,
 3A and Latham Plants Up to 6.0 MGD
 - SMWD Trampas Canyon seasonal storage reservoir 5,000 AF
 - San Juan Basin Optimization Plan
 - Recycled water recharge

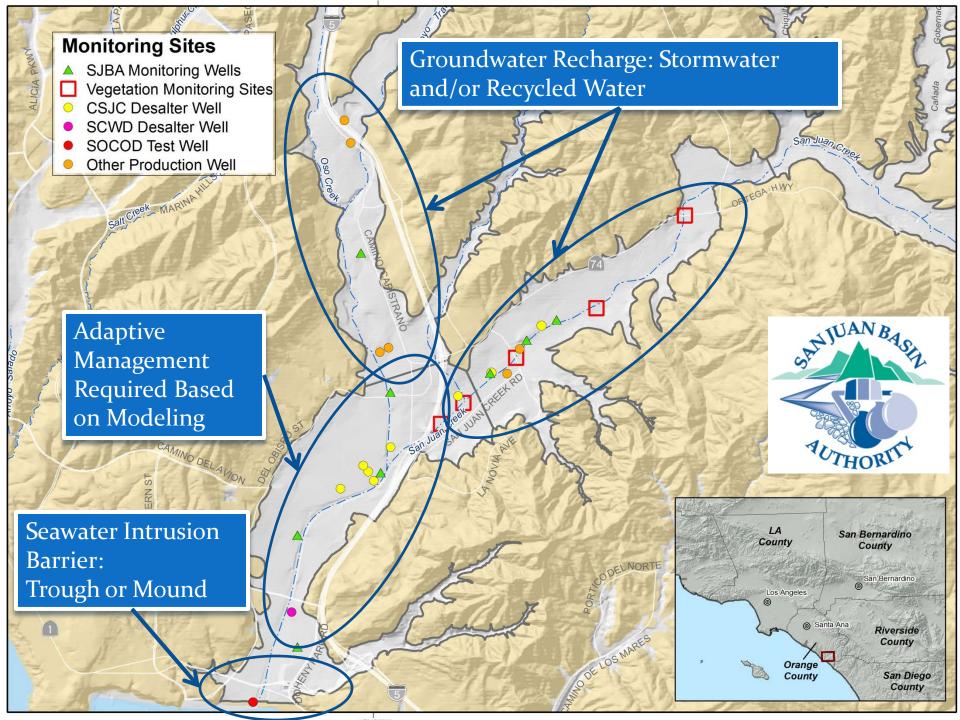
Trampas Canyon Seasonal Storage Reservoir



San Juan Basin Optimization Project

- Integrated with Regional Recycled Water Master Plan
- Impaired Basin impacted by ongoing drought
- Project includes
 - Development of a seawater barrier through a pumping trough or through injection
 - Development of storm water and urban return flow recharge
 - Development of recycled water recharge
- Sustainable water supply





Next Steps



- Finalize current project planning efforts
- Coordinate with Regional Board
 - Basin Plan Amendment
 - Water quality and project features
 - Potential project permitting
- Work with South Orange County Integrated Regional Watershed Management Plan
- Complete funding planning and applications