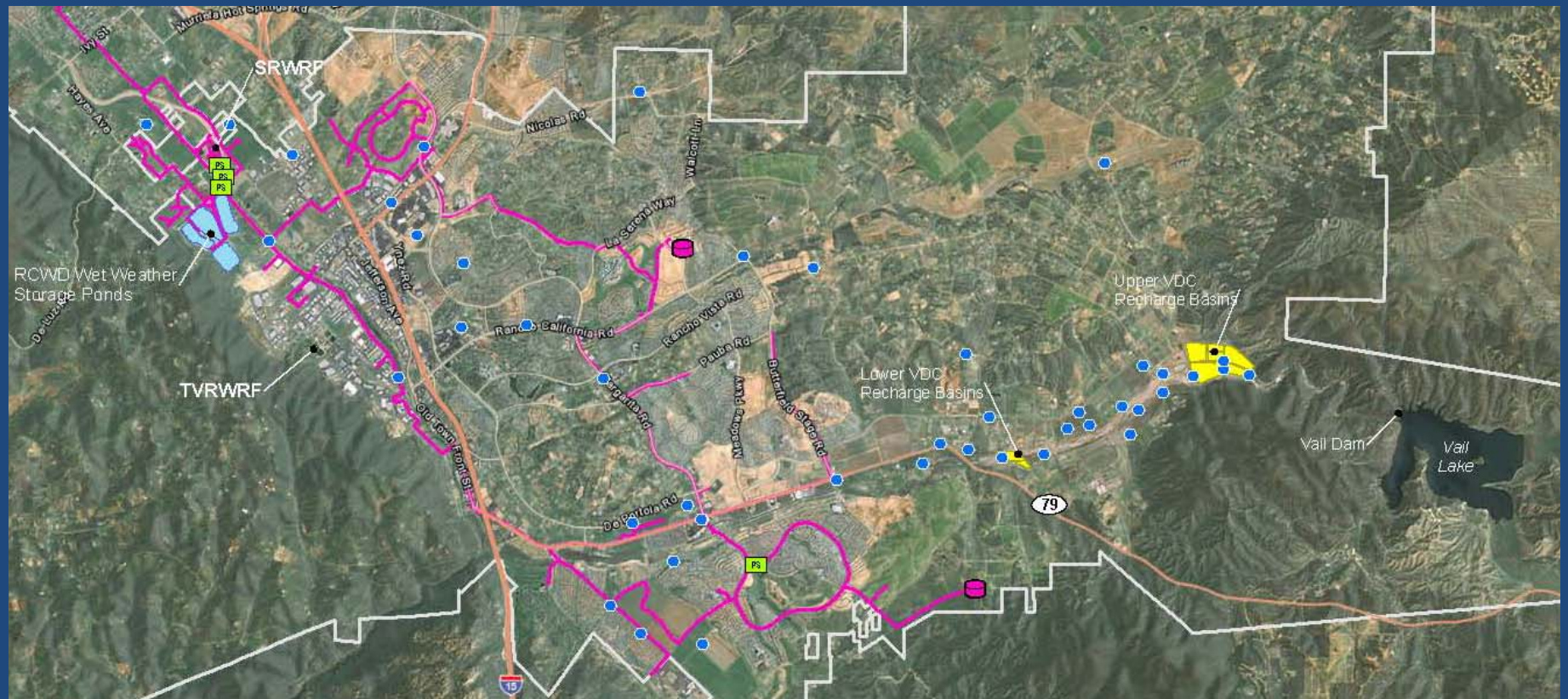
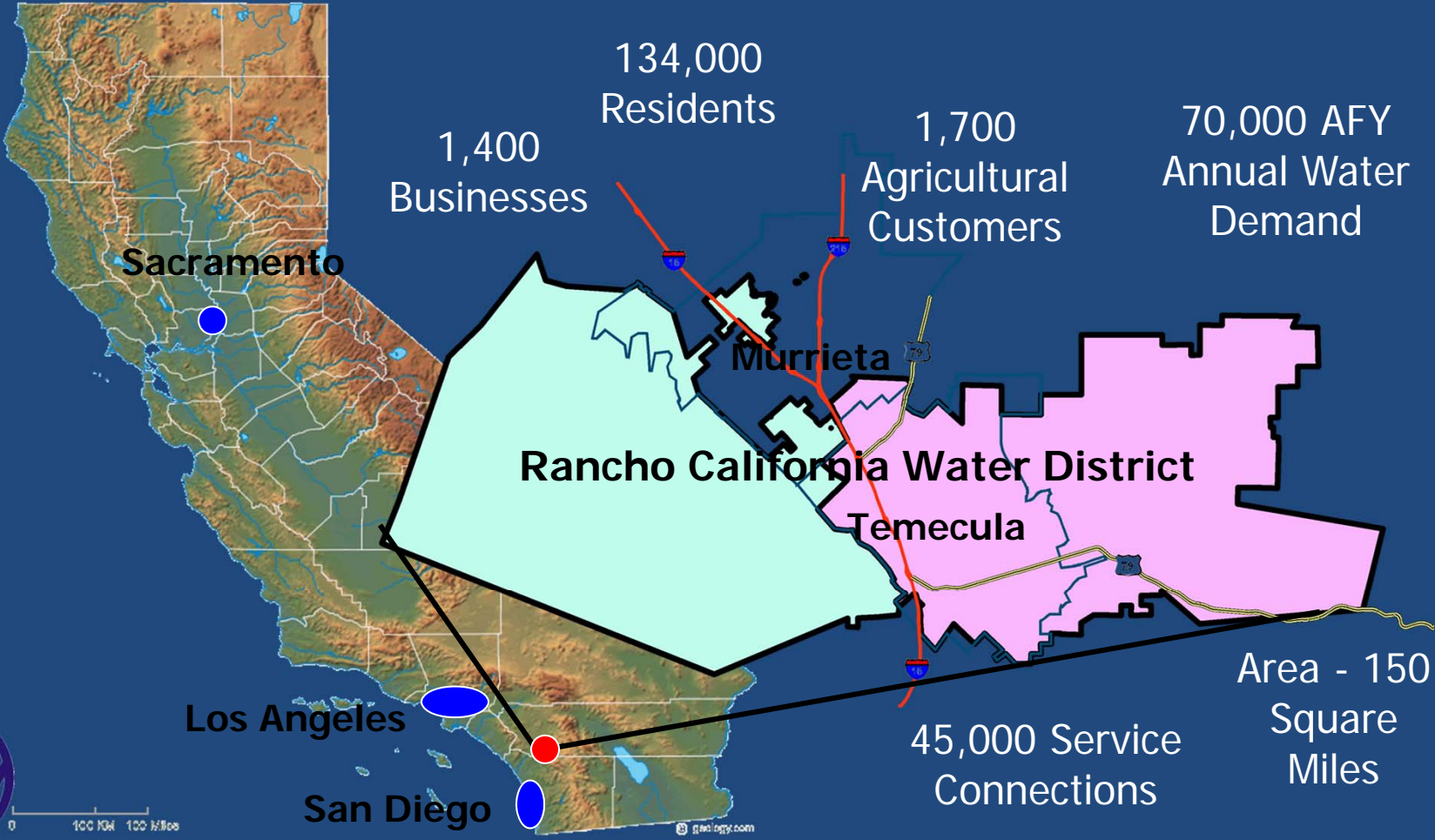


# Recycled Water Workshop

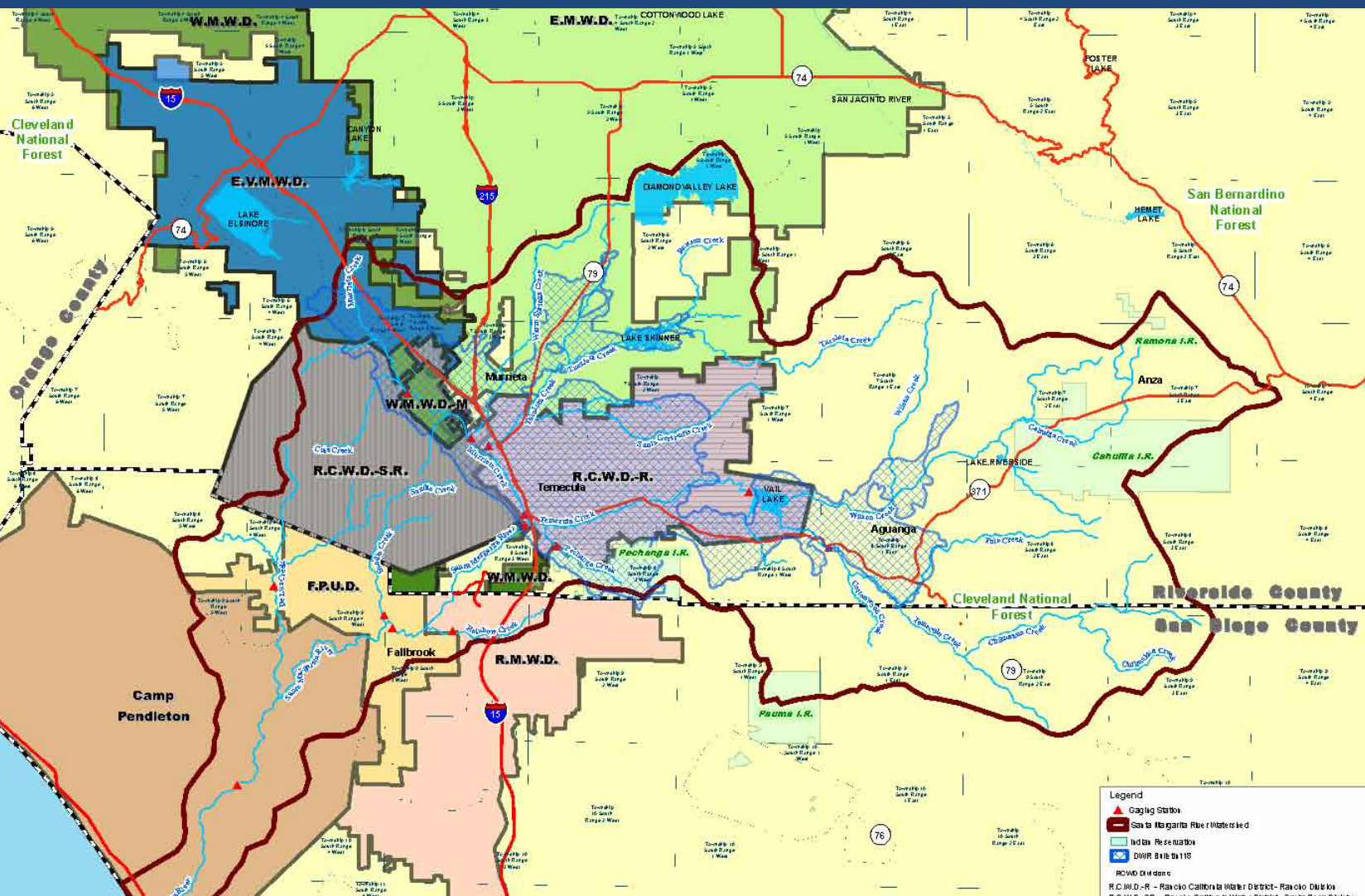
## Rancho California Water District



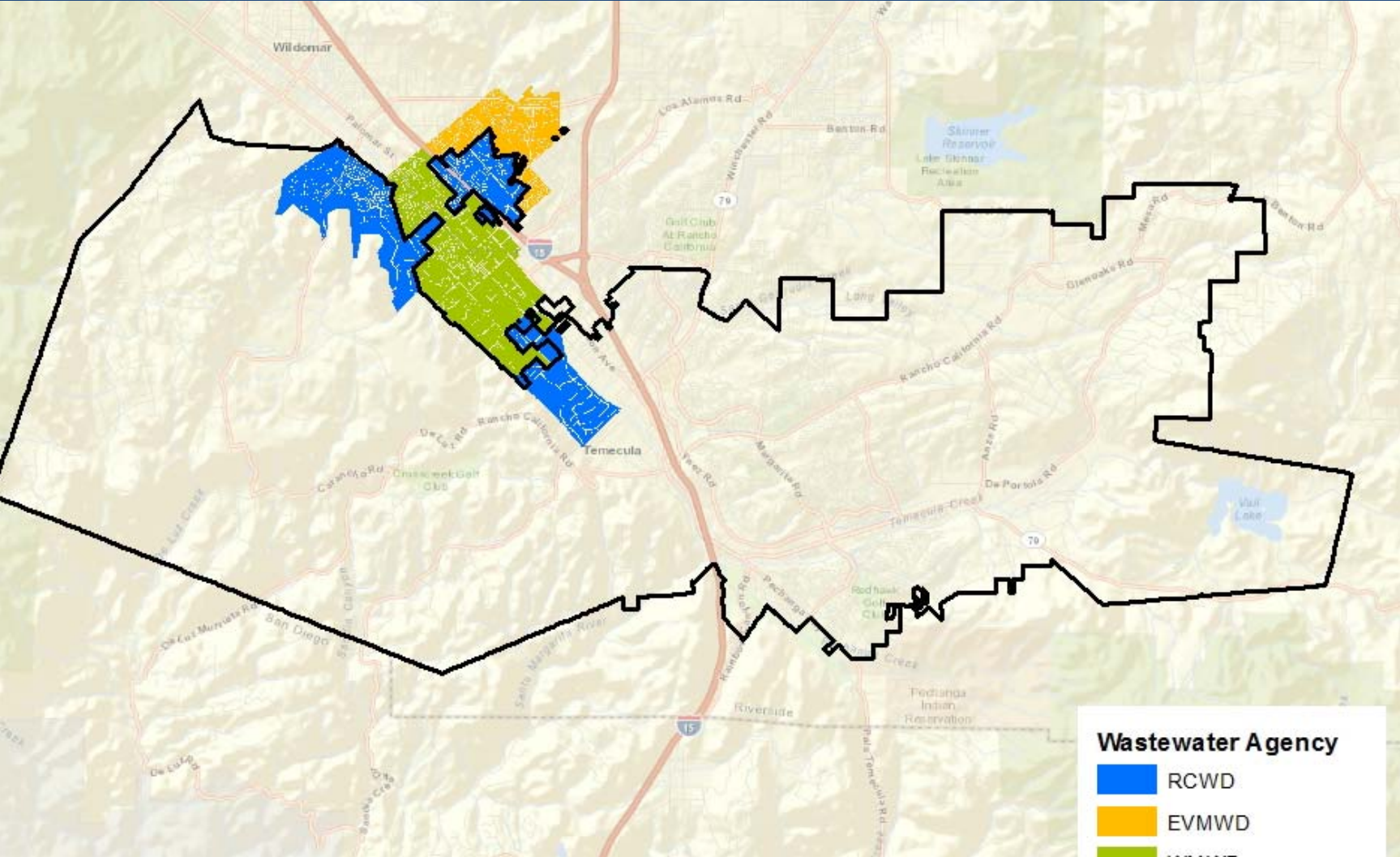
# RCWD District Boundary



# Upper Santa Margarita River Watershed



# RCWD Wastewater Service Area

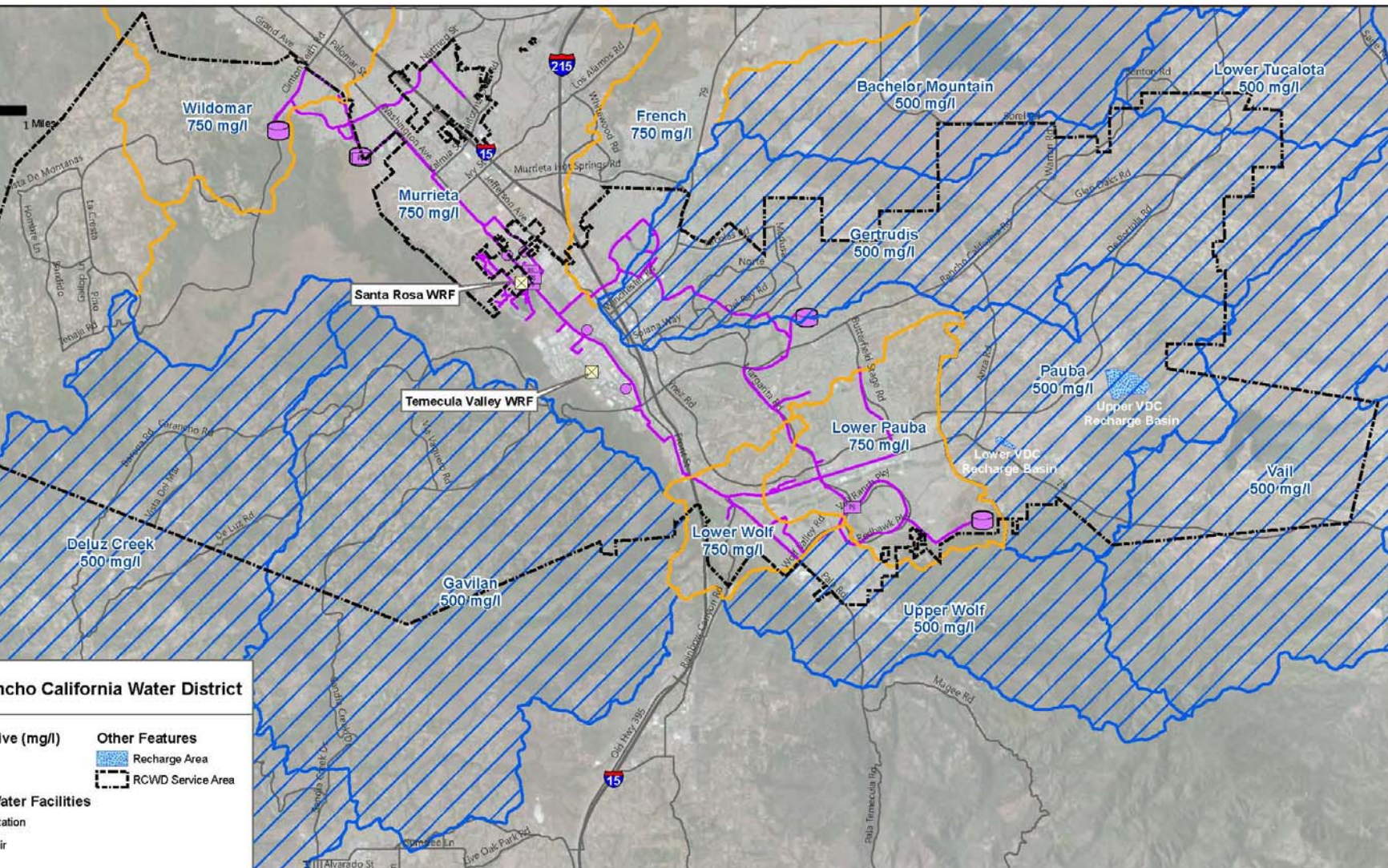


# Recycled Water Capacity

Recycled Water Source	Existing Supply	Projected Supply
CWD's Santa Rosa WRF	3,020 AFY	4,290 AFY
Purchased from EMWD's VRWRF	1,000 AFY	4,780 AFY
Total	4,020 AFY	9,070 AFY

Existing Recycled Water Demand  $\approx$  4,020 AF

# Groundwater TDS Objectives



# Overview



# IPR Conceptual Design Study

## Implementation Plan

Surface spreading of 5,000 AFY for groundwater recharge using Partial RO w/SAT

Groundwater injection (using FAT), disposal option

Vail Lake augmentation not anticipated

Advanced water treatment at the SRWRF

Conveyance facilities from the SRWRF to the Lower VDC Basins

Brine disposal facilities to ocean outfall (SAWPA or Oceanside)

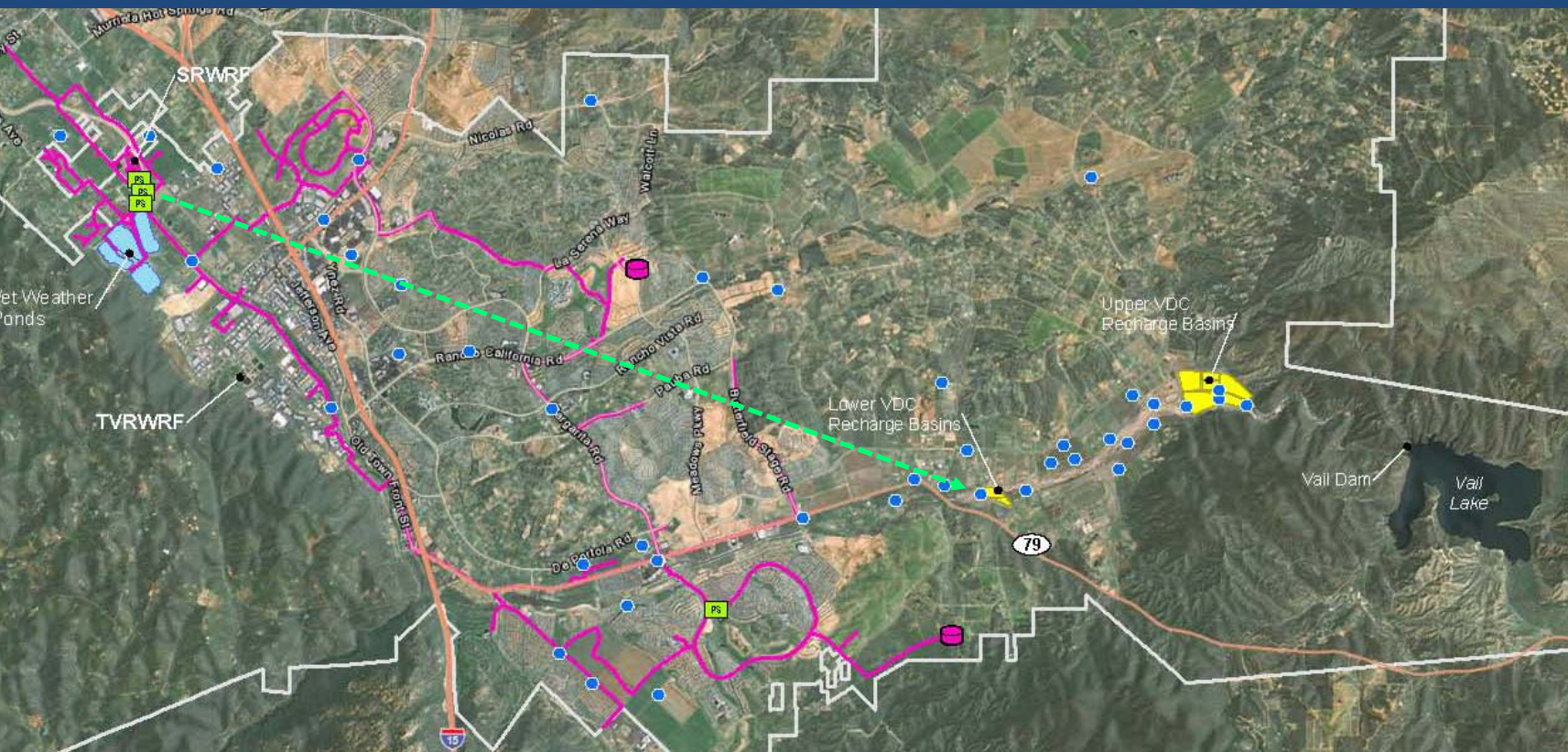
Potential brine minimization facilities

IPR system would be separate from existing recycled water system

Potential to demineralize existing recycled water system



# IPR Conceptual Design Study



# IPR Conceptual Design Study

## Goals & Objectives

Maximize Recycled Water Use (through demineralization)

- Existing supply  $\approx$  4,000 AFY (existing NPR users)
- Additional supply  $\approx$  5,000 AFY (implement IPR)

Increase Water Supply Reliability (increasing local water supplies)

Improve Water Quality in the Santa Margarita River Watershed (salt reduction)

# IPR Conceptual Design Study

## IPR vs. NPR

NPR is seasonally demand driven and customer dependent

NPR requires additional seasonal storage facilities and extensive distribution facility expansion

NPR benefits a limited customer base

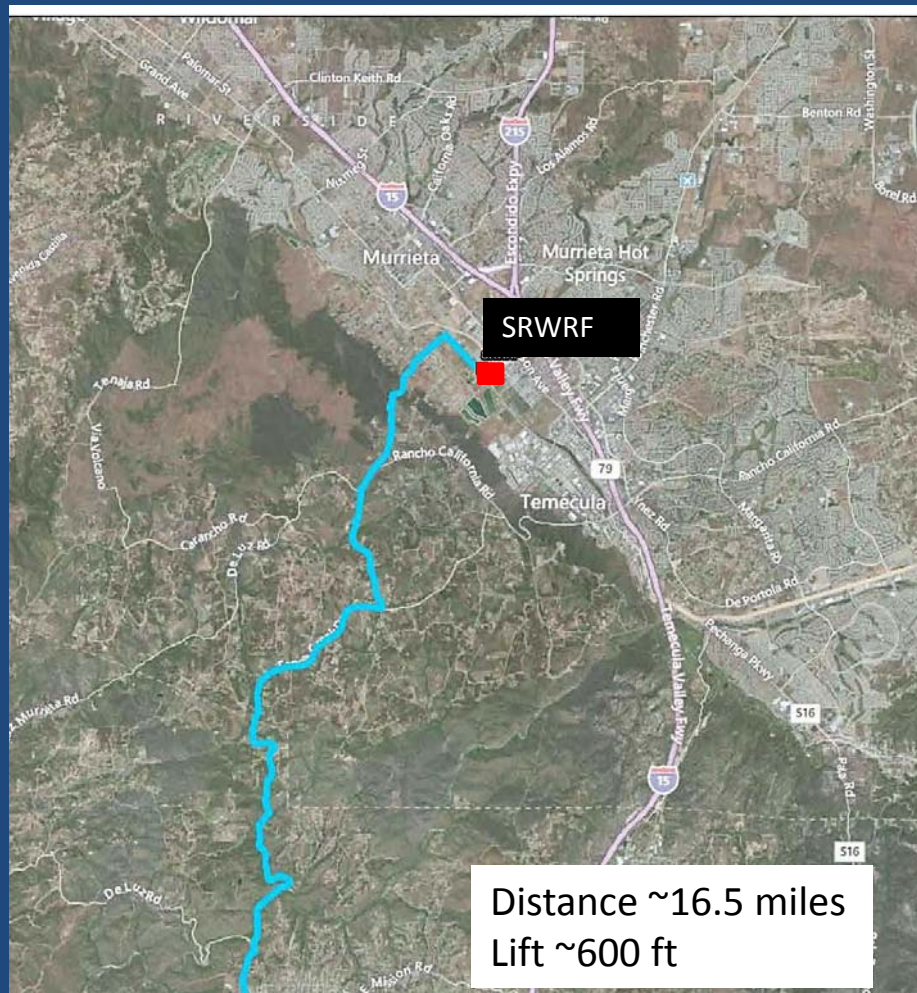
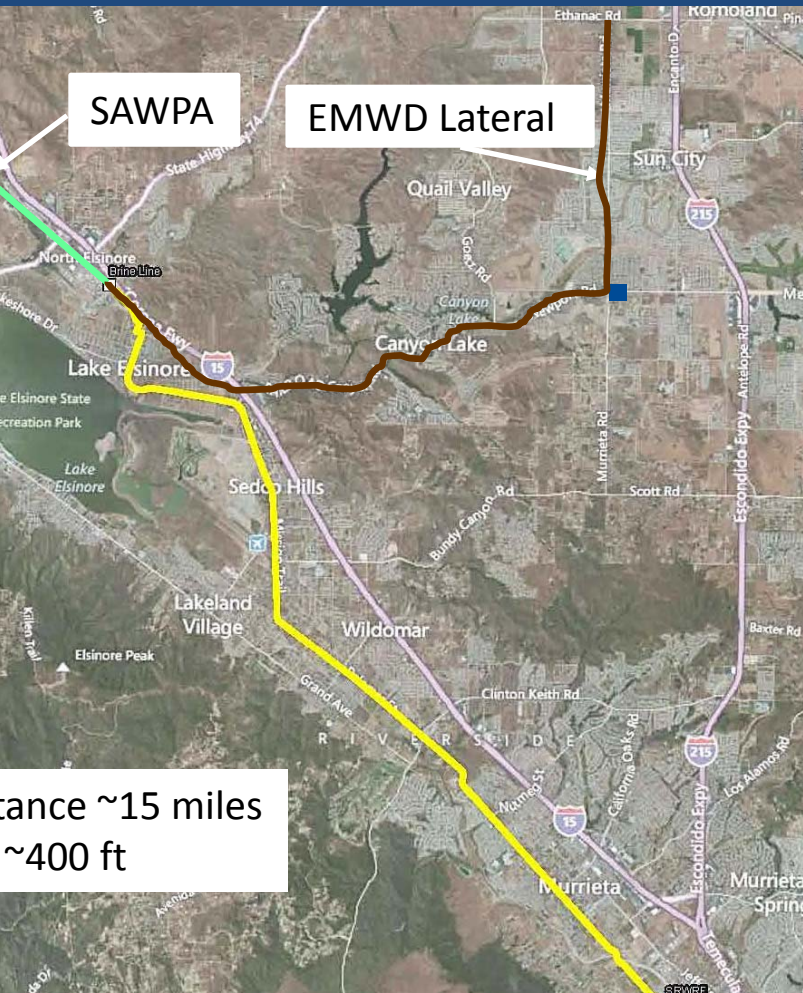
IPR used for groundwater recharge (“banking”) is supply augmentation

The primary obstacle to either expanded NPR or IPR is brine management

# Ocean Discharge Options for Brine

SRWRF to SAWPA (north)

SRWRF to Fallbrook (south)



# Recycled Water Workshop

## Questions

