

CVWD Drinking Water Consolidation Projects

An overview of current activities & challenges



**COACHELLA VALLEY
WATER DISTRICT**



www.cvwd.org

About CVWD

CVWD was formed in 1918 to protect and conserve local water sources. Since then, the District has grown into a multifaceted agency that serves the community in the following ways:

- Irrigation and domestic water
- Wastewater (sewage) collection
- Wastewater recycling for golf course irrigation
- Regional storm water protection
- Groundwater replenishment
- Water Conservation



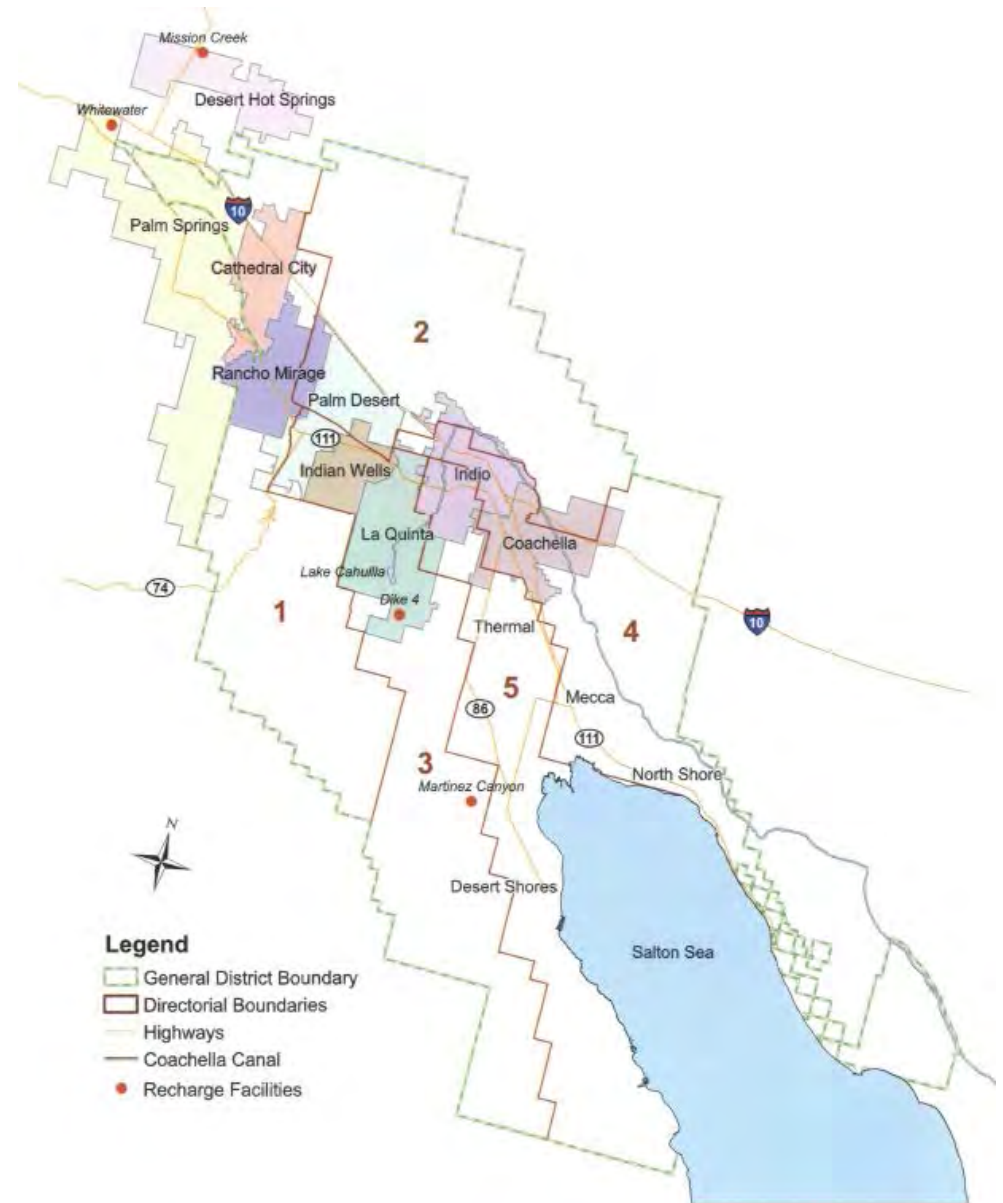
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Service Area

- 1,000 square miles
- From Desert Hot Springs to Salton Sea communities
- Riverside, San Diego, and Imperial Counties



Domestic Water Service

- Delivers water to approximately 110,000 homes and businesses
 - Approximately 290,000 people
- 94 wells, 61 reservoirs, 2,000 miles of pipeline
- Daily demand for drinking water averages 72.2 million gallons



Sources of Supply

- Groundwater
- Recycled Water
- Imported Water from:
 - The Colorado River
 - Metropolitan Water District of Southern California
 - The Glorious Lands Company
 - The State Water Project



Disadvantaged Communities Infrastructure Task Force

A collaborative work group comprised of community stakeholders, CVWD Board members & staff, tribe, school district, Desert Recreation District, Riverside County staff, and legislative representatives that was formed to:

- Plan, coordinate and identify opportunities to work together on water and sewer infrastructure projects
- Identify opportunities for DAC involvement funding
- Report on project progress
- Discuss policy and/or project barriers

Current Grant Consolidation Activities

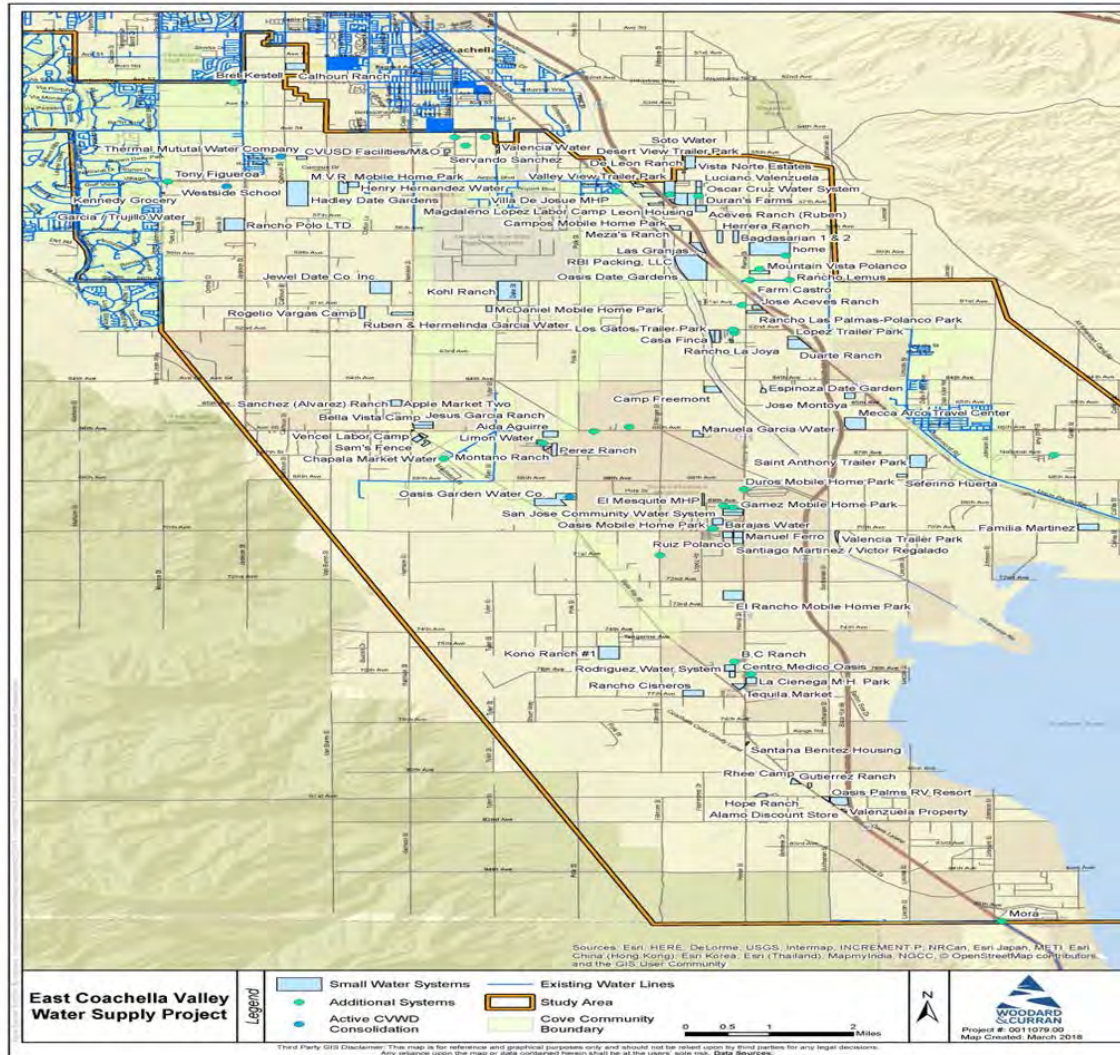
- East Coachella Valley Water Supply Project
- Thermal Mutual Water Company
- Westside Elementary School
- Galindo Mobile Home Park (8 separate systems)
- St. Anthony's Mobile Home Water System

East Coachella Valley Water Supply Project

- Received \$500k planning grant from the California State Water Resources Control Board
- Identify, analyze, and prioritize small water systems in disadvantaged communities located in the East Coachella Valley with a high potential for consolidation with CVWD
- Project includes reviewing over 80 small water systems generally consisting of mobile home parks
- Many systems have elevated levels of arsenic, nitrates, fluoride



East Coachella Valley Water Supply Project



East Coachella Valley Water Supply Project

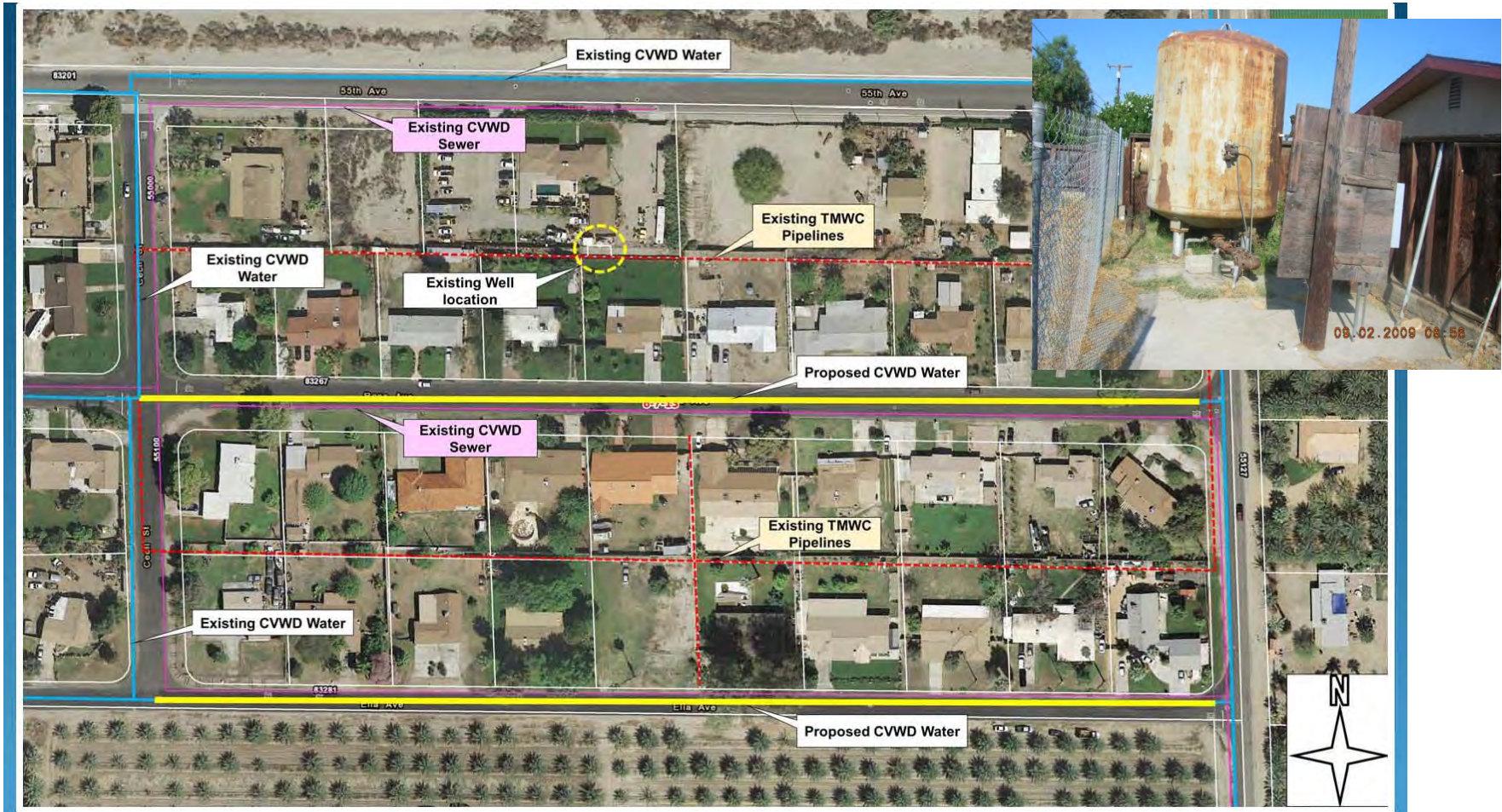
Barriers to Consolidation

- Compliance orders issued by the California Department of Public Health or Riverside County Dept. of Environmental Health affect prioritization
- Difficult to connect systems due to distance from existing infrastructure
- Minimal information about existing water systems
- Need to identify opportunities and secure external funding sources
- Requires significant investment of staff and consultant time

Thermal Mutual Water Company Consolidation

- Private water system consisting of 38 residential properties
- Existing 50-year old well system is failing with water outages up to 12 hours
- Existing pipeline and service connections in backyards. New service connections must go through homeowner property to backyard
- Need to obtain permission for entry from all property owners for service tie-in connections
- TMWC was combined with another consolidation project to secure sufficient funding based on maximum allowable grant cost of \$30k/service connection

Thermal Mutual Water Company Consolidation



Westside Elementary School Consolidation

- Westside Elementary School serves approximately 500 disadvantaged K-6 students in the community of Thermal in Riverside County
- Onsite well has no redundancy or back-up power
- Grant application originally included onsite work. However, Westside replaced onsite water system prior to grant funding as part of emergency sewer replacement project
- New offsite water main will provide fire protection
- Grant application has been modified to include only offsite work (\$900k)

Westside Elementary School Consolidation



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Galindo Mobile Home Park Consolidation

- Consolidation of 8 separate water systems that includes approximately 100 mobile homes
- Some of the systems were out of compliance due to Cr6 when application was started. However, MCL was rescinded in September 2017.
- Gathering information to include in grant application has been difficult to obtain
- Park owners desire separate water meters for each mobile home instead of master meters. However, limited utility corridor available due to septic systems and other onsite private utilities & space

Galindo Mobile Home Park Consolidation



St. Anthony's Mobile Home Park Consolidation

- Proposed consolidation of approximately 100 mobile homes in the East Coachella Valley
- CVWD is working with the water system owner and State Water Resources Control Board to determine if onsite treatment or consolidation is the best option
- Significant infrastructure is needed to connect, but the new pipeline could also benefit existing CVWD customers in Mecca and spur future consolidations

Challenges to Consolidation

Lessons Learned

- **Support from our Board, elected officials, and stakeholders is key to success!**
- **Plan Ahead!** Consolidation project takes about 1 year or more for the application process
- Understand the available funding, environmental approvals, and application process required from the funding agency
- Conduct outreach with the water system early to establish a relationship and to set expectations
- Communicate regularly with your agency grant project manager
- Construction should **never** begin before grant approval from the funding agency

Thank you!

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