



# Delta Diablo

Success in Resource Recovery : Local,  
State and National Partnerships

LAFCO Meeting : June 08, 2016



# Delta Diablo:

- Originally formed in 1955 - existing facility completed 1982
- Design Flow: 19.5 Million Gallons per Day [*Average Daily Flow: 12MG*]
- East Contra Costa County service area : Antioch, Bay Point and Pittsburg
- 52 square miles - population of nearly 200,000
- One of the largest industrial recycled water plants in California
- Manages the Delta Household Hazardous Waste Collection Facility which serves all of East Contra Costa County
- July 2016 recognized nationally with a National Association of Clean Water Agencies “Platinum Peak 12” Performance Award
- 2016 East Bay Economic Development Alliance “Catalyst of the Year”
- 2014 Antioch “Small Business of the Year”
- 2012 and 2008 best mid-sized water treatment plant in the State of California

# Delta Diablo

Transforming *Wastewater* to Resources

## Board of Directors



**Federal Glover**

Contra Costa County  
Board Of Supervisors



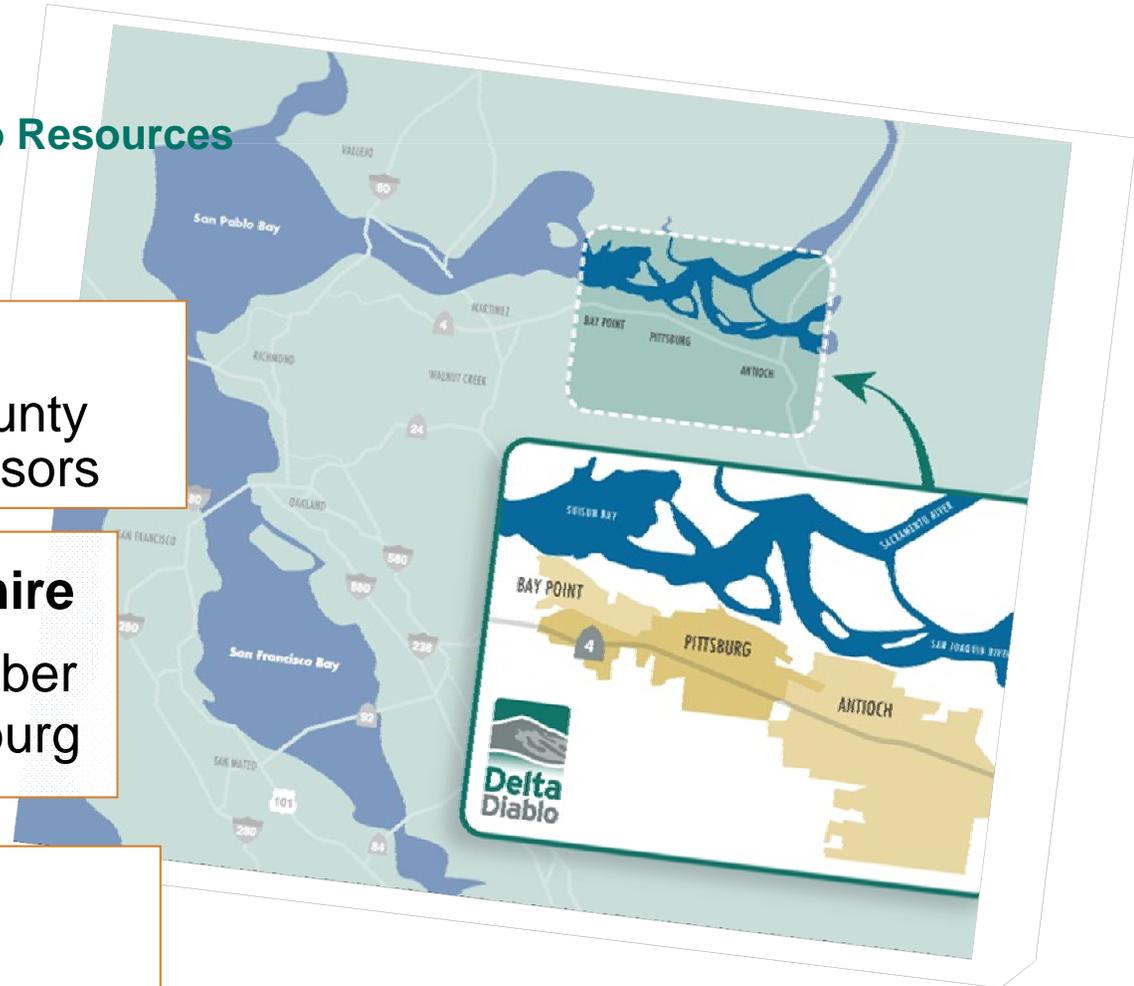
**Pete Longmire**

Councilmember  
City of Pittsburg



**Wade Harper**

Mayor  
City of Antioch



“WEF believes that wastewater treatment plants are not waste disposal facilities, but rather water resource recovery facilities that produce clean water, recover nutrients (such as phosphorus and nitrogen), and have the potential to reduce the nation’s dependence upon fossil fuel through the production and use of renewable energy.”

*Water Environment Federation, October 14, 2011*



# Delta Diablo = Utility of the Future

- Taking the “waste” out of wastewater
- Resource Recovery benefiting customers while safeguarding environment
- Supporting regional economic development
- Collaboration and networking for regional success
- Spearheading new innovation
- Rebranding Strategy



# Core Services:

*Delta Diablo addresses challenges and promote opportunities in wastewater management, water resources development and environmental stewardship*

- Sewer System Management
- Recycled Water
- Household Hazardous Waste
- Pollution Prevention
- Street Sweeping
- Education
- Legislative / Regional Coalitions



# Partnerships = Economic Success

- Delta Household Hazardous Waste Collection Facility
- East County Water Management Association
- Western Recycled Water Coalition
- Bay Area Biosolids to Energy Coalition
- Regional Renewable Energy Procurement Project
- Regional Consortium to purchase chemicals
- Regional Coalition to address nutrients in the Delta
- East County Bioenergy Partnership

# California's 1<sup>st</sup> Industrial RW Facility

## Delta Diablo : July 2000



TRANSFORMING WASTEWATER TO RESOURCES



# East County Recycled Water

- **Recycled Water Needs:**
  - 2 Power Plants
  - Antioch Golf Course and 5 City Parks
  - Pittsburg Golf Course and 3 City Parks
  - School District
  - Dust Control
  - Residential
- **Partnerships:**
  - Delta Diablo
  - City of Antioch + City of Pittsburg
  - Calpine
  - Mirant / NRG
  - PG&E
  - Pittsburg Unified School District
  - Garaventa Enterprises
  - Contra Costa Water District
  - Our Public



# Western Recycled Water Coalition

- 23 members: Districts, Cities and Investor-Owned Utilities, representing > 4 million residents
- \$38M federal funding secured
- 34 projects – agriculture, industry, urban landscape, wetlands
- 200,000 acre-feet annually – reliable, dry year yield  
*[equivalent to providing enough water for all households in Contra Costa County & 2/3<sup>rd</sup>'s of households in Alameda County]*
- Innovative collaborative approach to help develop sustainable water supplies
- Expanded into Hawaii, with presence in NM and WA
- National Survey 2013



## WRWC: A Growing Western Presence

Our members have a presence in several western states, and our membership is growing. The current set of recycled water projects (pictured on large map) will contribute significant new, fish friendly, non-controversial dry year water supplies. However, the WRWC philosophy is that recycled water development should be a national priority. The coalition is actively seeking partnerships across the United States where new water supplies are needed. We would like to join with others developing recycled water or desalination projects to speak as one voice to our leaders at the state and federal level when asking for help. See [www.westernrwc.org](http://www.westernrwc.org) for more details.

### Key

- Current WRWC Projects
- Completed WRWC Projects

[www.westernrwc.org](http://www.westernrwc.org)

TRANSFORMING WASTEWATER TO RESOURCES



# Recycled Water on the National Level

- Members of Congress want to help the development of recycled water projects...however, any help needs to be more than one project or one region or one state
- Goal: determine where and how many recycled water projects are in the development across the USA
- Five associations collaborated for nationwide survey 2013
- Spearheaded by Jayne Strommer @ Delta Diablo as lead agency for Western Recycled Water Coalition



NACWA

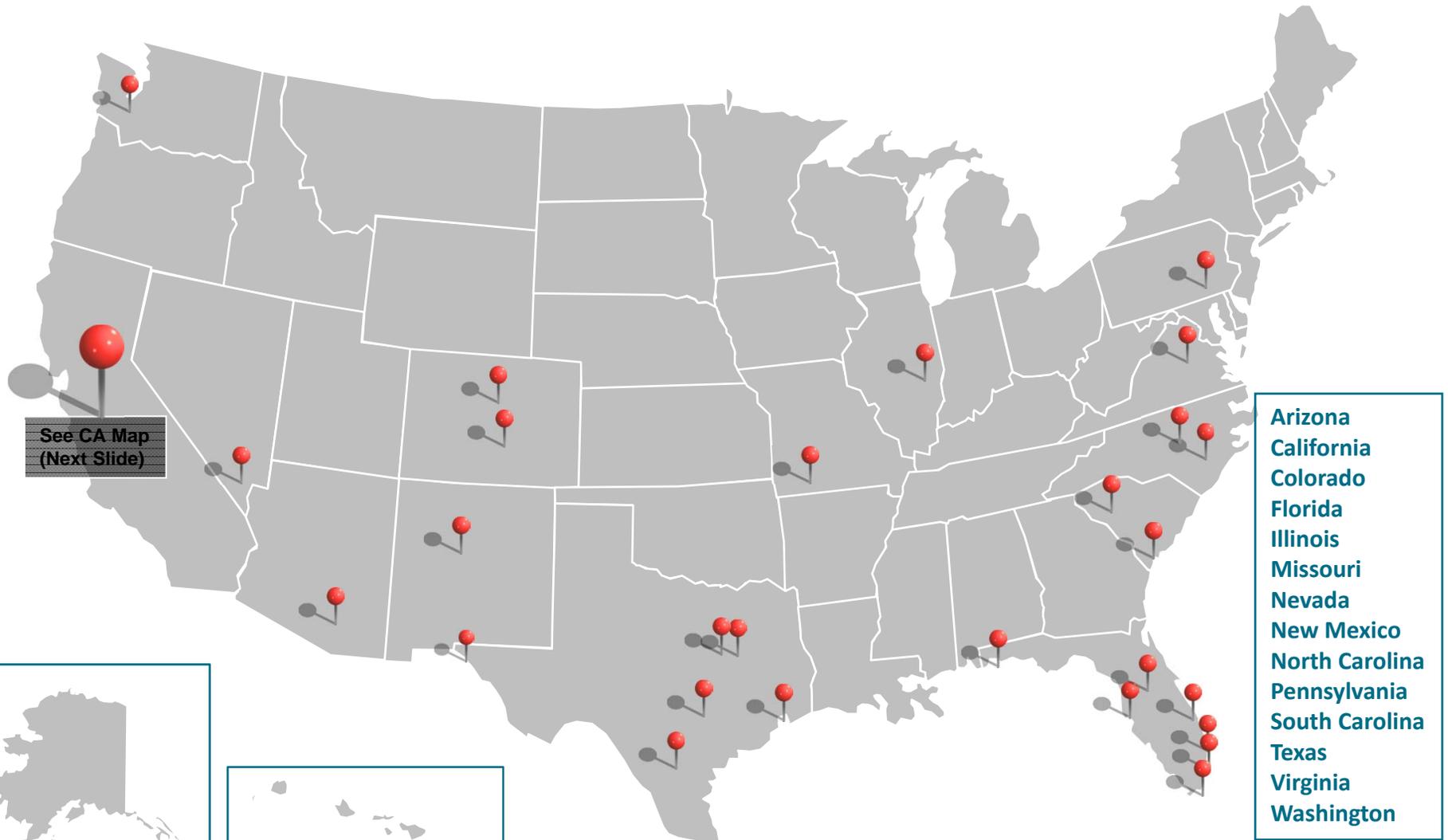


*Sustainable Solutions for a Thirsty Planet®*

Western Recycled Water Coalition

# 92 Project Locations

*(Qualifier: likely, many projects missed)*



# 65 Recycled Water Projects in California



# Obstacles to Recycled Water

- Regulatory Framework
- Political Issues
- Affordability – Financial Capability
- “Out of sight / out of mind”
- Public Perceptions and Myths



# Opportunities for Recycled Water

- Environmental benefits
- Private / Public Partnerships for economic viability
- Research Institutions
- Business-Education Alliances
- Generation Y “Millennials”
- New Technology
- Collaboration: Agencies – Organizations - Associations
- Changes in social norms regarding resource recovery
- Build trust and identity for our region by demonstrating responsible environmental services, civic activities and economic prosperity



# Working Together = Success

- One Region – One Voice
- Public/Private partnerships promote economic viability
- Collaborate and network together – pool our talents for benefit of Contra Costa County region:
  - Don't compete for money, innovation or favorable regulations for your own organization, business or agency
- Advocate together:
  - Washington DC and Sacramento
  - Regulatory agencies
  - Media
  - Public
  - Build trust + identity around CCC by demonstrating responsible environmental services, civic activities and economic prosperity

# Thank You!

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