



California's Solution for Independent, Reliable, Drought-Proof Water

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California Water Conditions

- Preparing for 4th year of serious drought: California has experienced severe drought for the past 3 years
- Pumping restrictions in the Delta
- Potential Delta levee failure – catastrophic impacts on water supplies, agriculture and our economy
- Population increase by more than 15 million in California by 2035
- Imported water rates increased by 14% in 2009, another 20% in 2010 and are projected to go up an additional 12% in 2011



Orange County Leading the Way

- OCWD & OCSD join forces to plan for the future
- Groundwater Replenishment System (GWRS) – \$481 million wastewater purification project
- Operational since January 2008
- Advanced purification technology
 - Microfiltration
 - Reverse Osmosis
 - Ultraviolet Light with Hydrogen Peroxide
- 70 million gallons of purified water per day - enough for over 500,000 residents



Water Recycling Project Benefits



- Creates new water supply
- Reuses wasted resource
- Expands seawater barrier
- Increases water resource reliability
- Saves half the energy over imported water
- Improves quality of water in basin
- Offsets imported water cutbacks
- Cost comparable to imported water
 - \$550 AF GWRS (Subsidized)
 - \$830 AF GWRS (Non-Subsidized)
 - \$700 AF Imported water



GWRS Expansion

- **GWRS Expansion**
 - \$120 million
 - Approximately 1,500 jobs created
 - Additional 18,000 AF per year
 - Expansion will provide an additional 18 million gallons a day – enough new water for nearly 108,000 residents
 - Will allow capture of over 40% of O.C. wastewater
 - Environmental work completed



Water Infrastructure = Jobs

- 12 jobs created per every \$1 million spent on infrastructure projects
- Potential 10 advanced purification projects in CA – Orange County, Los Angeles County, City of San Diego, City of San Bernardino, Monterey County, Santa Clara Valley, and many others are developing advanced treatment facilities
- If funded, these projects are ready to generate tens of thousands of jobs in the next two years impacting labor organizations:
 - State Building and Construction Trades Council of California
 - California Building Industry Association
 - California Conference of Carpenters
 - Operating Engineers
 - Others



What We Need to Get These Projects Built

- Labor Support
- Leader Support – Local, State & Federal
- Community Support
- Public Education
- Regional Cooperation on Water Recycling Projects
- Tap into Southern California's Large Voting Blocks



What We Need to Get These Projects Built (continued)

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- To leverage federal funds
- To get these projects built
- To generate tens of thousands of real jobs
- To create large, quantifiable amounts of quality water at a great unit price
- To provide relief to the Delta and create reliable water supplies



Where are These Funds?

- **Federal**
 - **Bureau of Reclamation** – Title XVI Program
 - Projects on the shelf – \$600 million backlog of water projects
 - Advanced purification projects are not on the current Title XVI wait list
 - Advanced purification projects are cost-effective but are expensive to build and need support at the local and state level to secure Title XVI funding
 - Need new authorization for a CA regional project – unlikely and uncertain
 - **Army Corps of Engineers** – Water Resource Development Act (WRDA)
 - Limited funds
 - Lengthy process and not a typical path for water recycling projects
 - Timing uncertain
- **State of California** – 2010 Water Bond
 - \$1.25 billion – Water Recycling & Water Conservation
 - \$455 million Drought Relief
 - Additional funds in regional allocations



No Funds – No Projects No Projects – No New Jobs, No New Water Questions?

