



Camp Pendleton

Carlsbad

San Diego County Water Authority Seawater Desalination Program Update

Proposed Sites for Seawater
Desalination Facilities

Rosarito

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Local Supply Development Includes Ocean Desalination Projects

- Local agency investments are driving local supply development
 - \$600 million+ spent on recycling/brackish groundwater projects
- Water Authority has been conducting desalination planning studies since the early 1990's
 - Carlsbad
 - Nine retail agencies have contracted to purchase water
 - MWD role/agreement is LRP funding when the project is on line
 - Camp Pendleton
 - \$5.7 million in current budget to continue planning
 - Rosarito Beach
 - Water Authority/MWD partnering with other agencies

Carlsbad Desalination Project

- 50 mgd local desalination project being developed by Poseidon
 - Private Investment = Avoided Cost at SDCWA and MWD
- Water purchase agreements with nine Water Authority member agencies
- Project EIR certified; cleared major permitting hurdles
- Legal challenges cleared
- Distribution system and delivery regimen being finalized
 - Connection to Water Authority Aqueduct included
- SDP Agreement scheduled for MWD Board consideration in October
- Start construction in late 2009
- Online by end of 2012



Camp Pendleton Desalination Project

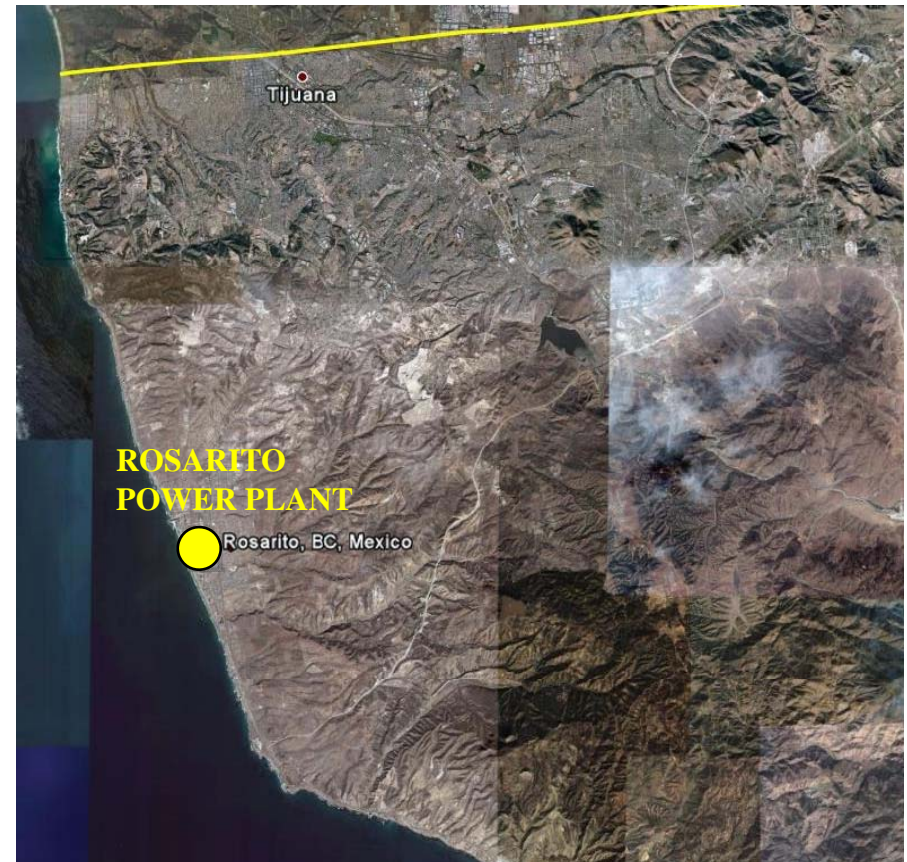
- Northern San Diego - County Marine Corps Base Camp Pendleton
- Feasibility Study recently completed
 - 2 Viable Sites on MCBCP
 - Larger sites conducive to phased implementation of regional project
 - Located at the Upper end of CWA aqueduct system
 - 50 to 150 mgd ultimate capacity
 - Both subsurface and open intake options evaluated
- Next Steps
 - Execute Planning MOU with MCBCP
 - Additional Technical Studies
- SDCWA investment = avoided cost at MWD



Rosarito Beach Desalination Plant

Feasibility Study and Preliminary Design

- Colorado River water supply augmentation
- Feasibility Study co-funded by:
 - Water Authority
 - MWD
 - Southern Nevada WA
 - Central Arizona WC District
- \$100,000 Initial Phase Budget
- Consultant selection under way
- Shared cost = avoided cost for MWD and its member agencies



Ocean Desalination in California– Key Challenges

- Process Issues
 - State approval process
 - Upcoming development of a “desal policy” by the State Water Resources Control Board
 - Future Marine Protected Areas
 - Permitting overlap/need for permit streamlining
- Environmental Issues
 - Continued viability of open ocean intakes as an option
 - Greenhouse Gas issues resulting from energy consumption
- Policy Issues
 - Need for clear statewide public policy and direction

Going Forward– How MWD Can Best Help

- Work with member agencies and project developers in the legislative and regulatory arenas to:
 - Remove hurdles through statewide policy and facilitation
 - Develop a consistent statewide policy
 - Permit streamlining
- Implement IRP policies that encourage local supply development

Local Supply Development– A Key Component to So Cal's Future Water Supply Reliability

- Many MWD member agencies are developing local projects that will help bridge the gap in MWD supplies
 - Seawater desalination is one important option
- Member agencies who choose to rely on MWD for future supply development have that option
 - Must link to cost of service
- Member agency local projects help avoid or mitigate MWD rate increases that would otherwise be necessary to pay for supply development
 - Local agency accountability is critical