Suggested District Goals and Priorities for 2011

- **Goal One: Improve visibility of MPWMD and its accomplishments**

- **Goal Two: Initiate projects that increase water supply within MPWMD**

    - **MPWMD Water Project 3: local desalination facility**
    - **MPWMD Water Project 4: Seaside Basin Groundwater Replenishment**
    - **MPWMD Water Project 5: Los Padres Reservoir expansion**

MPWMD Water Project 3
Potential Seawater Desalination Project Facilities
Property Owner: U.S. Navy
Location: Former Monterey Treatment Plant Site
Across Del Monte Avenue from the Naval Postgraduate School
APN 013-011-004

Facilities that would be located on the property:

- Seawater desalination treatment plant
  - building footprint: approx. 18,000 square feet (0.41 acre)
  - potable water production capacity: 2 million gallons per day
  - potable water supply: 2,000 acre-feet per year
- Seawater intake pipeline – capacity: 4 million gallons per day
- Brine discharge pipeline – capacity: 2 million gallons per day
- Potable water storage tank
  - size: 60 feet diameter x 30 feet high
  - approximate capacity: 500,000 gallons
- Pipeline transmitting water to Cal-Am distribution system

MPWMD Water Project 3
Potential Seawater Desalination Project at Former Monterey Treatment Plant Site

Scale: 1 inch = 100 feet (approx)

MPWMD February 2011
A. Bell
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Monterey Peninsula Water Management District

MPWMD Water Project 4

Monterey Peninsula Groundwater Replenishment Project

In cooperation with project proponent:

Monterey Regional Water Pollution Control Agency

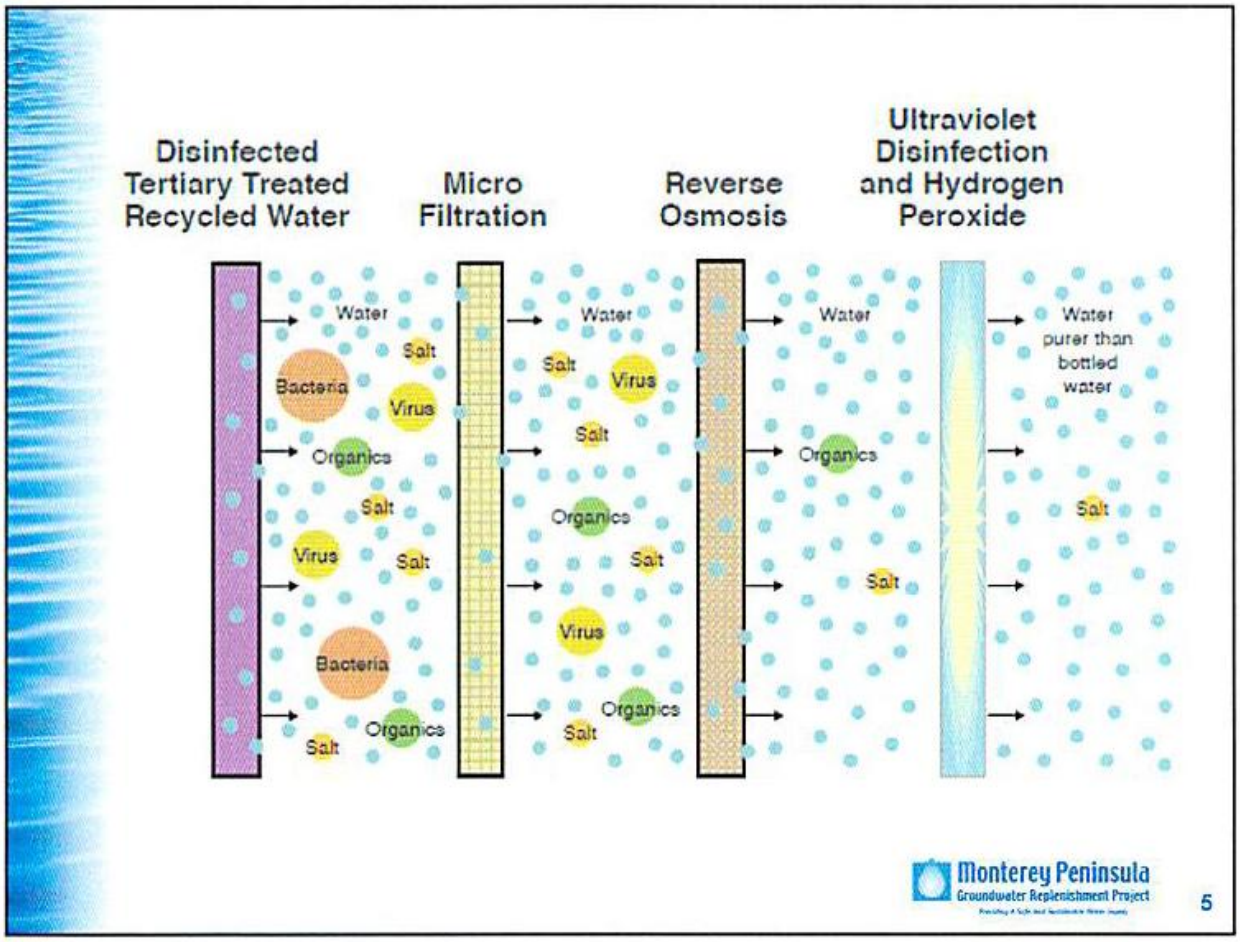
Treatment Facility Location: MRWPCA Plant, Marina

Replenishment Location: Seaside Groundwater Basin

Project Features:

- Utilizes purified recycled water from Monterey Peninsula region
- Water receives 6 levels of advanced treatment
- Water replenishes Seaside Basin via shallow “vadose” zone wells
- Available supply up to 2,700 acre-feet per year, can be phased
- Project potentially beneficial to Seaside Basin adjudication solution

Project Includes Three Key Advanced Treatment Methods



Los Padres Dam – looking upstream at dam and spillway

MPWMD Water Project 5
Expansion of Los Padres Reservoir Capacity

Methods for increasing the storage capacity of Los Padres Reservoir include the following:

- Increase the height of the dam
- Install facilities such as an inflatable dam or adjustable gates to seasonally raise the spillway elevation
- Dredge accumulated sediment from the reservoir

Staff has investigated the potential for increasing the reservoir capacity in the past, most recently in 2008 and 2009. Adding 10 feet to the reservoir level would increase its capacity by approximately 550 acre-feet. In 2009 the District asked California American Water, owner of the dam and reservoir, whether it would consider structural changes to the dam to increase the storage capacity. By letter dated October 5, 2009, Craig Anthony, Cal-Am's General Manager, Central Division stated that Cal-Am's main interest at Los Padres Reservoir is improving fish passage, and that "[c]urrently, Cal-Am has no interest in increasing the dam height or making other Los Padres Reservoir modifications."

Los Padres Dam – aerial view of dam and northern portion of reservoir