



# Monterey Peninsula Groundwater Replenishment Project

*Providing A Safe And Sustainable Water Supply*

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## WEST BASIN WATER RECYCLING PROJECT, LOS ANGELES, CALIFORNIA

The West Basin Municipal Water District's wastewater purification facility has been online since 1995. West Basin uses a combination of imported water and purified wastewater for the one-half mile long seawater barrier that encompasses over 100 injection wells to help protect the District's groundwater basin from seawater intrusion.

Besides protecting the seawater barrier, West Basin also uses recycled water for irrigation, cooling towers, refineries and street sweeping and toilet flushing. As one of the largest recycled water plants in the nation, West Basin's Water Recycling Facility (WBWRF) provides five qualities of "designer" or custom-made recycled water for their various municipal, commercial and industrial customers.

The treatment level and process varies according to the use requirements of the end-users. Based on the customer's needs, West Basin is able to "design" recycled water that best meets the desired specifications. Some of their customers include the Home Depot National Training Center, Toyota Motor Sales, Chevron, bp, Exxon/Mobil and Goodyear.

In fiscal year 2004-2005, WBWRF produced 8 billion gallons of recycled water.

### Five Different Qualities of 'Designer' Recycled Water

The WBWRF produces five different qualities of recycled water, all of which meet the treatment and water quality requirements specified in the California Department of Health Services Water Recycling Criteria for the different recycled water applications.

**Tertiary Water:** Secondary treated wastewater that has been filtered and disinfected for a wide variety of industrial and irrigation uses.

**Nitrified Water:** Tertiary water that has been nitrified to remove ammonia for industrial cooling towers.

**Softened Reverse Osmosis Water:** Secondary treated wastewater pretreated by either lime clarification or microfiltration, followed by reverse osmosis (RO) and disinfection for groundwater recharge, which is superior to state and federal drinking water standards.

**Pure Reverse Osmosis Water:** Secondary treated wastewater that has undergone microfiltration, RO and disinfection for low-pressure boiler feed water.

**Ultra-Pure Reverse Osmosis Water:** Secondary treated water that has undergone microfiltration, RO, disinfection and second-pass RO for high-pressure boiler feed water.

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For more information contact:



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