

## What is the ESP?

The facilities that make up the ESP will be located throughout San Diego County. Along with the additional storage capacity, the ESP will increase pumping capabilities and overall operational effectiveness of the county's water system.

### *The project includes:*

- A new 318-foot-high dam and 24,000 acre-foot reservoir at Olivenhain
- A pipeline connecting the new Olivenhain reservoir to the Water Authority's Second Aqueduct
- A pipeline connecting Olivenhain reservoir to Lake Hodges
- Raising San Vicente Dam by 54 feet to provide room to store another 52,100 acre-feet of water
- A pipeline connecting San Vicente Reservoir to the Water Authority's Second Aqueduct
- Five new pump stations
- Related facilities



### Phase One (1998-2003)

- Olivenhain Dam
- Olivenhain Pipelines and Interconnections
- Olivenhain Pump Station
- San Vicente/Moreno Lakeside Interconnect Pipeline

### Phase Two (2002-2006)

- San Vicente Pump Station
- San Vicente to Second Aqueduct Pipeline and Interconnection
- Operations Center Upgrade

### Phase Three (2004-2008)

- Lake Hodges Inlet/Outlet
- Lake Hodges Pipeline
- Lake Hodges Pump Station
- Pipeline 3 Pump Station and Interconnection
- Pipeline 4 Pump Station

### Phase Four (2008-2010)

- San Vicente Recreational Facilities
- San Vicente Dam Raise

## Olivenhain Dam & Lake Hodges Connection

At 318-feet high and 2,400 feet wide at the crest, this engineering marvel will be the first roller-compacted concrete dam in California and the tallest RCC dam in North America. The Olivenhain Dam and reservoir will have a storage capacity of 24,000 acre-feet of water and is designed to remain operational even in the event of a natural disaster, such as an earthquake. A pipeline will be constructed to connect the Olivenhain Reservoir to Lake Hodges, allowing water to be moved in and out of the two reservoirs as needed.

## San Vicente Dam

The Emergency Storage Project will ultimately include raising the height of the existing San Vicente Dam by 54 feet to provide room to store another 52,100 acre-feet of water. The Water Authority will also construct a pump station, additional pipelines and enhancements to the current recreational facilities at the dam.

## San Vicente Pipeline

The San Vicente Pipeline will connect the San Vicente Reservoir in Lakeside to the Water Authority's Second Aqueduct, enabling the Water Authority to move water between the two major aqueducts that serve the San Diego region.

## Protecting the Environment

The Water Authority is committed to minimizing the impacts that occur to the environment during construction activities. Detailed studies have been conducted to identify plants, animals and cultural



resources that could potentially be affected by the Emergency Storage Project. Sensitive biological resources are monitored throughout the project to minimize negative impacts.

**The ESP will provide an additional 90,100 acre-feet of stored water. Combined with the storage space already dedicated to emergency use, the additional capacity is projected to meet the county's emergency needs through at least 2030.**

### *An acre-foot is:*

- 326,000 gallons
- Enough water to cover an entire football field one foot deep
- The approximate amount of water two families of four use in a year

## Investing in Water Reliability

San Diego County relies on imported water to supply local homes and businesses. In fact, 75 to 95 percent of the region's water supply is imported from hundreds of miles away via the Colorado River Aqueduct and the State Water Project's California Aqueduct. Since the pipelines that



carry water to San Diego cross several major fault lines along the way, an earthquake could interrupt San Diego County's

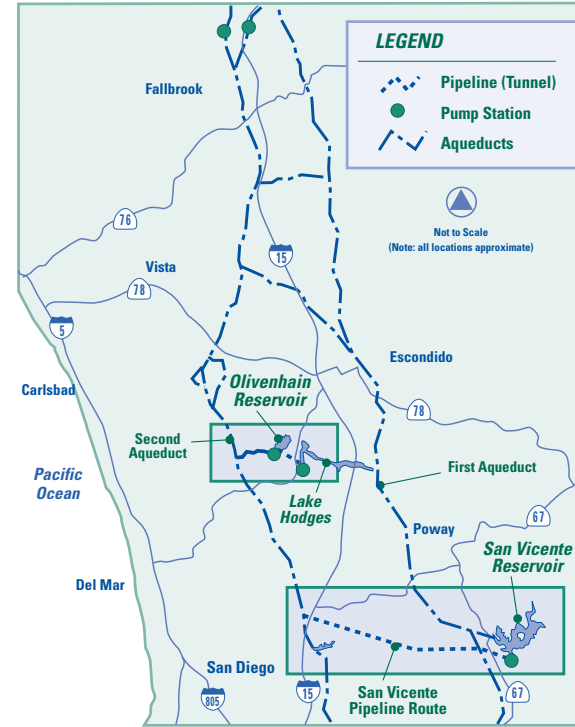
imported water supply for up to six months. Some communities could be without water within three to four days.

In 1998, the San Diego County Water Authority addressed the county's emergency water storage shortfall by initiating the Emergency Storage Project. After reviewing 57 sites, evaluating 32 alternatives and completing a rigorous environmental review process, the Water Authority identified a system of reservoirs, interconnected pipelines and pumping stations designed to meet the county's projected emergency water storage needs through the year 2030.



**The Emergency Storage Project is part of the San Diego County Water Authority's Capital Improvement Program to enhance and increase the operational flexibility of its water delivery system for the entire San Diego region.**

**The ESP is a system of reservoirs, pipelines and other facilities that will work together to store and move water around the county in the event of a major interruption of imported water.**



**For more information about the Emergency Storage Project, please call our toll-free project information line:**

**(877) 426-2010**

**Your call will be returned within one business day.**

## The Emergency Storage Project

**Building Water Reliability for the San Diego Region**



San Diego County Water Authority



Emergency Storage Project

