



Charting Local Waters:

San Dieguito Groundwater Study

An OMWD Sustainable Supplies Project



About the Project

Olivenhain Municipal Water District recently conducted a study to explore the feasibility of developing a local water supply for OMWD customers through a groundwater desalination project. The study's results were favorable, so OMWD is now proposing to install a pilot test well to examine the project's viability even further.

The test well will operate for one year and will verify the water balance of the groundwater basin, potential impacts on current wells in the area, and water treatment technologies. The groundwater desalination project would need to be sustainable with no impact to existing users, the environment, or long-term groundwater levels in order for it to be viable.

If approved, OMWD would move forward with an environmental analysis and could begin producing a new, locally sourced drinking water supply benefitting all of OMWD's customers as early as 2024.

How It Works

Groundwater desalination projects work by extracting groundwater from wells and delivering it via underground pipe to a nearby desalination facility. The water is treated through reverse osmosis and then made available for uses like drinking water and fire protection.



Fast Facts:

- Project could be a critical step toward securing a local and sustainable water supply.
- Nearly all of OMWD's potable water is currently imported from outside the region.
- Imported water is vulnerable to supply shortages, service interruptions, and cost increases from water wholesalers.
- Local water sources provide local cost control and water supply redundancy should imported supplies be cut off.
- Proposed project must be sustainable in order for it to be approved with no impact to existing users, the environment, or long-term groundwater levels.
- If approved, locally sourced drinking water could be produced as soon as 2024.



About Well Construction

Construction on the pilot test well will take place in early 2019 and will last for one month. There will be some noise and light impacts during construction, specifically during a six-day period where continuous drilling will take place.

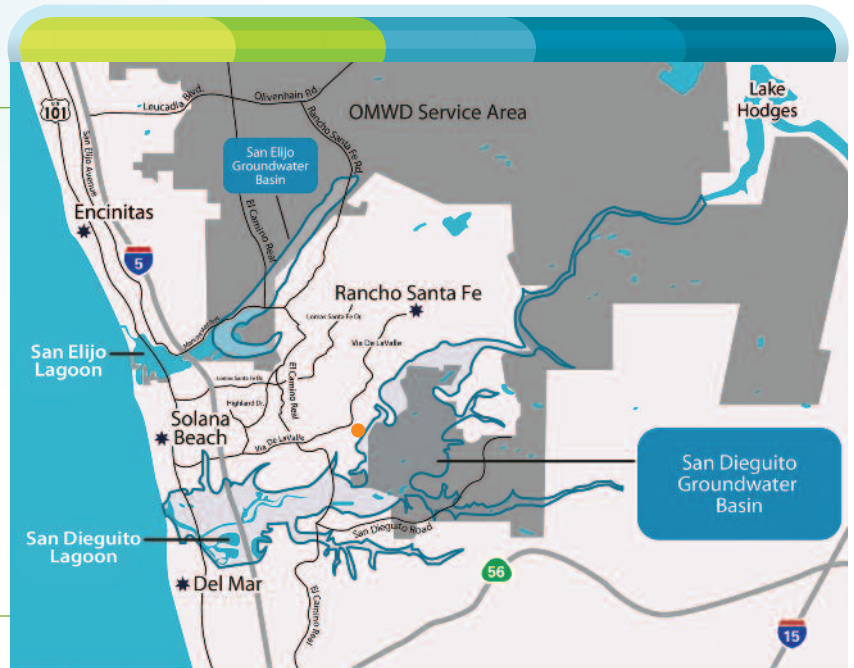
Several measures will be taken to reduce the impact to neighbors, including the installation of acoustic sound walls around the drill engine and the use of low-illumination light pointed only at the construction work and away from residences and habitat.

Cost

The initial project study, along with the construction of the pilot test well, is funded in part by a State of California Department of Water Resources grant. If the overall project is approved, the construction of the desalination plant will be paid for by OMWD capital improvement funds and developer fees, as well as potential state and federal grants. OMWD has anticipated this cost in its long-term financing planning.

Next Steps

Construction on the pilot test well will begin in early 2019 and will take one month to complete. Once operational, the well will run for one year to obtain meaningful data. That data will then be analyzed in context of the overall project and brought forward to OMWD's Board of Directors for consideration.



The project area being studied is located in the San Diego Valley Groundwater Basin.

● *Pilot Test Well location*

How Do I Learn More?

OMWD keeps current information on its project website, olivenhain.com/groundwater.

Public outreach meetings are planned periodically. Meeting dates will be listed on the project website as they are confirmed.

For more information:

Joey Randall, Assistant General Manager
760-753-6466, jrandall@olivenhain.com

ABOUT OMWD

Olivenhain Municipal Water District serves approximately 86,000 customers in a 48-square-mile area that includes portions of unincorporated County of San Diego and the cities of Carlsbad, Encinitas, Solana Beach, San Marcos, and San Diego.

Olivenhain Municipal Water District

1966 Olivenhain Road | Encinitas, CA 92024

OLIVENHAIN
Municipal Water District

