



San Diego County
Water Authority
Capital Improvement
Program

MORENO • LAKESIDE



PROJECT NEWSLETTER

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Moreno-Lakeside Pipeline Nears Design Stage Completion

Design of the San Diego County Water Authority's Moreno-Lakeside Pipeline has reached the 90 percent mark. Project engineers have been working to put together the final pieces on this major capital improvement project, and are scheduled to complete the design by spring 2001.

"The design successfully balances environmental impacts, construction costs and community concerns," said Project Manager Gary Bousquet, senior civil engineer for the San Diego County Water Authority.

As an integral part of the Water Authority's Capital Improvement Program,

the 4.7-mile-long Moreno-Lakeside Pipeline will boost water reliability and provide additional supplies of water to the eastern and southern regions of San Diego County. When the pipeline is completed, it will ensure the delivery of up to 60 million gallons per day of untreated water to the R.M. Levy Water Treatment Plant that is owned and operated by Helix Water District. After treatment at the Levy plant, the water will be delivered to three water agencies. Helix will receive up to 20 mgd, and Padre Municipal Water District, which serves customers of the Lakeside Water District, will

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Design Modifications Enhance Flow Control Facility

Through lengthy discussions with San Diego County Water Authority engineers regarding aesthetics, building orientation and site improvements, the Lakeside Design Review Board has provided input and suggestions on the exterior design of the flow

control facility for the Moreno-Lakeside Pipeline Project.

Located on a half-acre site along El Monte Road east of the Lake Jennings Park Road intersection, the flow control facility is

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The 4.7-mile-long Moreno-Lakeside Pipeline will ensure the Water Authority can supply up to 60 million gallons per day of untreated water to the R.M. Levy Water Treatment Plant. Out of the 60 mgd, 20 mgd will be used by Helix Water District, 8 mgd by Otay Water District and 18 mgd by Padre Dam Municipal Water District.

The Moreno-Lakeside Pipeline Project is part of the Water Authority's Capital Improvement Program to enhance and increase the operational flexibility of its water delivery system.

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receive up to 18 mgd. The Otoy Water District will receive up to 8 mgd.

The design has moved from draft layouts to nearly finalized construction documents. Detailed manufacturing and installation specifications are also being prepared.

"Our task was to design a cost-efficient project that meets the overall project goals while minimizing impacts to the environment and the community," said Bousquet. "The Water Authority hosted numerous public workshops and was



Moreno-Lakeside Pipeline Project Engineer Karem Elhams points out recent improvements at the R.M. Levy Water Treatment plant to Project Manager Gary Bousquet. Once completed, the improvements will enable the plant to treat additional water delivered by the future pipeline.

able to incorporate community input into the project."

Currently, the Water Authority is in the process of obtaining environmental permits and finalizing the construction documents.

Once the construction plans are complete, the Water Authority will seek out a qualified contractor through its public bidding process. Construction of the pipeline and ancillary facilities is expected to

begin in winter 2001/2002 and to take approximately 18-24 months to complete. 

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a critical component of the Water Authority's Moreno-Lakeside Pipeline project. The facility will regulate and measure the flow of water from the Water Authority's First Aqueduct or the San Vicente Reservoir to the R.M. Levy Water Treatment Plant. Water treated at the plant will serve customers of the Helix Water District, the Padre Dam Municipal Water District and the Otoy Water District.

The Water Authority worked in concert with the seven-member Lakeside Design Review Board and the community at large to refine the aesthetic details of the 46- by 50-foot structure.

"We worked very hard to incorporate ideas from the review board and the community," said Project Manager Gary Bousquet. "We now have an efficient design that enhances the appearance of the facility."

Based on input from the review board, the flow control facility will be wedged into the hillside so that its back wall will be nearly covered. In addition, the

pad for the facility will be graded and lowered an additional seven feet, resulting in a floor height that is equal to the nearby 7-Eleven store. The roof pitch was also modified to decrease the overall height of the facility, and concrete roofing tiles will be used to further enhance the exterior of the building.

At the request of the review board, a planned sidewalk in front of the facility along El Monte Road was replaced with an unpaved, ten-foot-wide strip that can be utilized for current and future equestrian needs. Additional architectural features requested by the review board include stone veneer columns and a wooden truss and gable on the front of the facility. The facility itself will be set back from the road to allow for possible future expansion of El Monte Road.

"The flow control facility is designed to blend into the surrounding landscape and be as unobtrusive as possible," said Bousquet. "The existing trees behind

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the 7-Eleven store are mature and will provide some screening as well."

The Water Authority is finalizing specific details of the design and is scheduled to complete the design stage this spring. A final project update was provided to the Lakeside Design Review Board on Feb. 14, 2001.

The flow control facility, along with the nearly five-mile-long pipeline, comprise the Moreno-Lakeside Pipeline project. Construction of the flow control facility and the pipeline is expected to begin in winter 2001/2002, and will take approximately 18-24 months to complete. 

Questions from the Community

How long will construction of the project take? When will it begin?

Construction of the Moreno-Lakeside Pipeline project and its ancillary facilities will take approximately 18-24 months to complete. It is scheduled to begin in winter 2001/2002.

What steps have been taken to protect the area's environmentally sensitive habitats?

Extensive environmental studies were conducted to evaluate existing environmental conditions where the project will be constructed. The studies analyze the potential impacts of construction and identify measures to reduce or mitigate the potential construction impacts. From these studies, an Environmental Impact Report and Mitigation Monitoring Plan were prepared and circulated for public review in fall 1998. The Water Authority and its contractors will comply with all mitigation measures specified in these environmental documents to minimize the disturbance of sensitive habitats.

Will this project cause my water bill to go up?

No. The cost of constructing the Moreno-Lakeside Pipeline Project is funded through the Water

Authority's Capital Improvement Program budget. The CIP is financed through existing water charges, and was established in 1989 to increase the operational flexibility and reliability of the Water Authority's delivery system.

Will there be any disruption to my water service during construction?

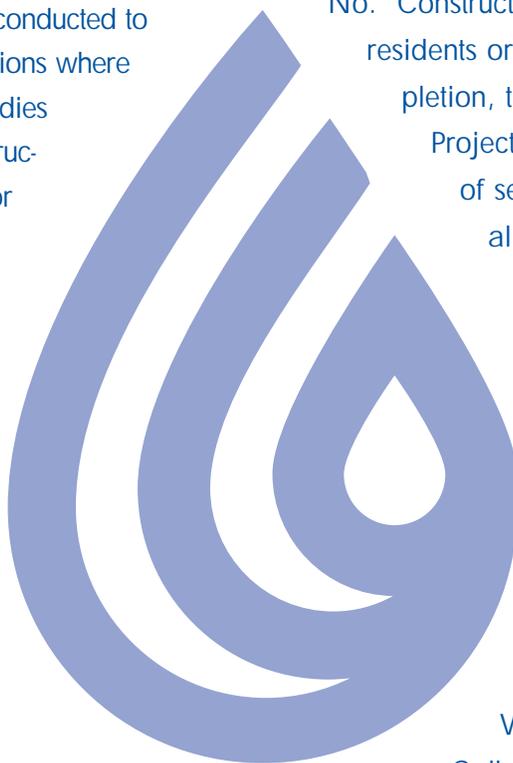
No. Construction will not affect water service to residents or businesses in the area. After completion, the Moreno-Lakeside Pipeline Project will actually increase the reliability of service because it offers an additional source of water to the area.

Who can I call if I have questions?

If you have questions or comments or would like additional information about the project, please call the toll-free project information line at 1-877-682-

WATER (9283) and select option 2#.

Callers can listen to project information and leave a message. A representative from the project team will return the call within one business day. 



Conservation Corner...Water Facts

Approximately 97 percent of the world's water is salty or otherwise undrinkable. Another two percent is locked in ice caps and glaciers. That leaves just one percent for humanity's needs - all our agricultural, manufacturing, community and personal household needs.

💧 Check every faucet in the house for leaks. One dripping faucet can waste more water in a single day than an average person drinks in an entire week. Don't wait to fix a drip.

💧 Water your lawn only when it needs it. Step on the grass to see whether it springs back when you lift your foot. If it springs back, and doesn't show your footprint, the grass probably doesn't need water right away.

💧 Check your toilets for leaks. Put a few drops of food coloring in your toilet tank. If, without flushing, the color begins to appear in the bowl, you have a leak that could be wasting many gallons of water a day. Check



the tank's rubber flapper - it may be the cause of the leak and is usually easy and inexpensive to replace. Other causes of toilet leaks include an improper adjustment of the water level in the tank or a worn fill valve.

💧 Fully load your automatic dishwasher before washing dishes. Every time you run your dishwasher, you use about 25 gallons of water.

💧 Do not leave the rinse water running if you wash dishes by hand. Instead, fill one sink with rinse water. If you have only one sink, first gather all your washed dishes in a dish rack, then rinse them quickly. Also, use the least amount of detergent necessary to minimize the rinse water needed.



Water is a precious commodity. Remember to use only the amount you actually need. Encourage your family to keep looking for new ways to conserve water in and around your home.



**San Diego County
Water Authority
4677 Overland Avenue
San Diego, CA 92123**

*Please note that the Water Authority
has moved to a new location.*

*The San Diego County
Water Authority is a public
agency serving the San
Diego region as a
wholesale supplier of
water imported from the
Colorado River and
Northern California. The
agency works through its
23 member agencies to
provide a safe, reliable
water supply to San Diego
County residents.*

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