

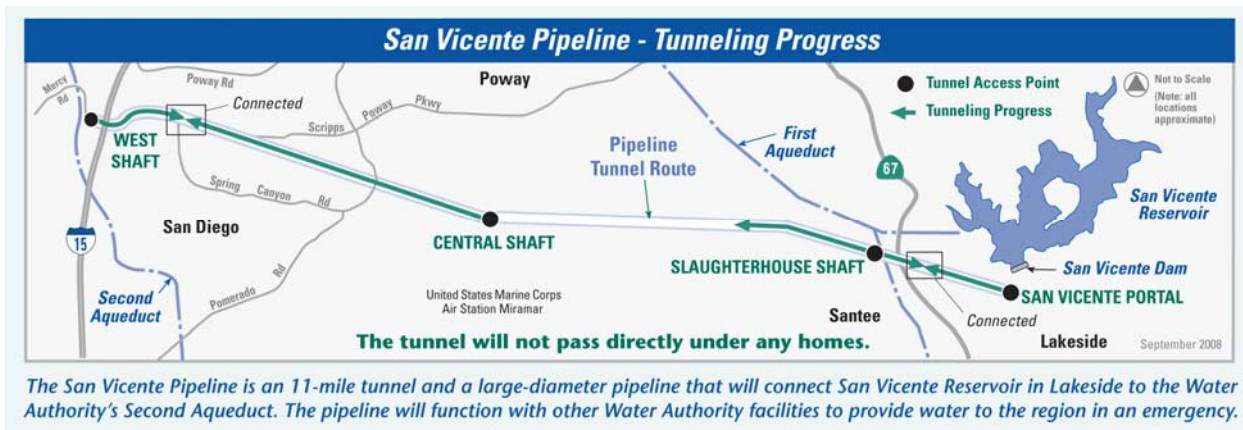
## Emergency Storage Project Update

September 2008

The Emergency Storage Project is a system of reservoirs, interconnected pipelines, and pumping stations being constructed throughout San Diego County. It is designed to protect the county by increasing the amount of water available if the region's imported water supply is severed by earthquakes or significantly reduced by drought. The following update is provided to keep the Lakeside Community Planning Group informed of the progress of several projects in the Lakeside area that are part of the Emergency Storage Project.

### San Vicente Pipeline Construction

There are four construction access points to build the San Vicente Pipeline. One is located at each end of the project. The San Vicente Portal is located at the east end of the project near San Vicente Dam, and the West Shaft is near the Second Aqueduct off of I-15 at Mercy Road. The Central Shaft is located south of the Beeler Canyon community within the StoneBridge Estates community. The fourth access point is located off of Slaughterhouse Road near Lakeside.



In Lakeside, the San Vicente Portal and Slaughterhouse Shaft are both being used to support tunneling activities to excavate the project's longest tunnel section measuring 21,750 feet. Work at these two locations occurs 24 hours a day, Monday through Saturday. A tunneling machine is excavating west of the Slaughterhouse Shaft towards the Central Shaft and has completed approximately 7,150 feet. The machine has about three miles left to tunnel from its current location. Tunneling efforts in this section are slower than anticipated due to the hard ground that is being encountered. Excavated materials are removed at the San Vicente Portal and trucked to a nearby aggregate company.

To the west, a significant milestone for the San Vicente Pipeline was achieved recently when tunnel segments from the Central Shaft and West Shaft were connected using a tunneling machine and blasting. The western half of the tunnel – nearly five miles – is now complete. The contractor is now removing

equipment from the Central Shaft and preparing the tunnel for pipe installation. Once all preparations are complete in late fall, pipe delivery will begin. Approximately eight to ten trucks per day will be delivering pipe to the Central Shaft over a five- to six-month period. The pipe segments will be lowered into the tunnel and hauled towards the West Shaft, and pipe installation will advance from west to east.

At the West Shaft, there is currently one 8-hour work shift per day, Monday through Friday. Future activities will be limited to removing the tunneling machine from the tunnel and supporting the welding, grouting, and mortar lining operations for pipeline installation.

The San Vicente Pipeline will create a water supply link between San Vicente Reservoir and the Water Authority's Second Aqueduct, allowing water to be delivered to agencies in the southern portion of the county in an emergency. The project will also improve the Water Authority's ability to move large quantities of water into storage when available. The San Vicente Pipeline will be 11 miles long and will connect San Vicente Reservoir to the Second Aqueduct near I-15 at Mercy Road. The tunnel will be 12 feet in diameter and an 8.5-foot diameter steel water pipe will be installed inside of the tunnel. When the pipeline is complete, imported water will normally be sent by gravity to San Vicente Reservoir for storage. During an emergency situation, water will be pumped out of the reservoir to the Second Aqueduct to serve the Water Authority's member agencies. All work for the pipeline is anticipated to be complete in 2010.

### **San Vicente Pumping Facilities Construction**

The San Vicente Pumping Facilities, which include a pump station and surge tank near San Vicente Dam, are approximately 65 percent complete. Work for this project occurs Monday through Friday, from 7 a.m. to 3:30 p.m. The contractor recently completed the walls and installed the pumps, motors, and large electrical equipment for the pump station. Work on the roof of the pump station is also under way. In late September, new wires and poles will be installed to power a section of the pump station. The concrete walls are now complete for the surge tank, and soon pipelines will connect the pump station and surge control facility. The pumping facilities will allow water to move from San Vicente Reservoir through the San Vicente Pipeline, when completed.

### **San Vicente Dam Raise Project**

San Vicente Reservoir is now closed to all recreation for the next six to nine years to ensure safety during the construction of the San Vicente Dam Raise project (approximately four years) and refilling of the reservoir (two to five years). Although construction isn't scheduled to begin on the dam raise project until next spring, the reservoir is closed now because the water level has dropped below the boat launch ramp.

The city of San Diego, the owner and operator of San Vicente Reservoir, began lowering the water level in April and anticipates that it will reach the water elevation required for construction by January 2009. Water taken out of the reservoir is supplying the city of San Diego's customers, as normal. Recreation at San Vicente Reservoir will resume after construction is complete and the reservoir refills, which is expected to be sometime between 2014 and 2017.

The San Vicente Dam Raise project is on schedule for construction to begin in spring 2009. The first construction package is scheduled to go out to bid to contractors this fall. The initial work on the project site will include excavating the dam foundation and preparing the existing dam for the new concrete to be placed. Upcoming phases of construction are scheduled to begin in early 2010 and will include laying the

concrete to raise the dam and constructing the new marina. Construction is expected to be complete in late 2012.

### **Trucking on Moreno Avenue**

The Water Authority has been working to ensure that its contractors comply with the delivery truck route specified in their contracts. All contractors working at the San Vicente project site are required to make deliveries using Highway 67 to Vigilante Road to Moreno Avenue to access the project site. This truck route was included in all of the construction contracts, and it will also be included in the construction contracts for the San Vicente Dam Raise project. The purpose of the restriction is to limit truck traffic on "lower" Moreno Avenue through the Lakeside community.

In certain instances, a contractor may receive special permission from the Water Authority to use Moreno Avenue for a delivery truck that cannot make the sharp left turn from Vigilante Road to Moreno Avenue. However, these will be the rare exception to the rule, and the Water Authority is committed to keeping exceptions to a minimum.

The Water Authority is aware that Moreno Avenue has a seven-ton weight limit. The California Department of Transportation does allow local deliveries on roads with weight limits, so a truck that must use Moreno Avenue to reach the San Vicente project site can do so legally. As the project team explained during its presentation at the May 21 Lakeside Community Planning Group meeting, the contractor for the San Vicente Dam Raise project will improve the Vigilante Road/Moreno Avenue intersection in early 2010. This will make the sharp left turn easier for large trucks to negotiate and will further limit the potential need to use Moreno Avenue.

If you have additional questions or would like to receive more information about the Emergency Storage Project, please contact Gina Molise, the Water Authority's senior public affairs representative, at (858) 522-6706. You can also call toll free (877) 426-2010, email [ESPinfo@sdewa.org](mailto:ESPinfo@sdewa.org), or visit our website at [www.sdewa.org](http://www.sdewa.org) (click on "Infrastructure," then "ESP").