



West Bay Sanitary District's "Recycled Water Project – Sharon Heights" Description

As California faces its most severe drought in recorded history, California communities must get creative about how water is used. On April 1, 2015, Governor Brown issued an executive order to reduce statewide potable water use by 25%. Recycled water projects present a unique opportunity to reduce potable water use by reusing water for non-potable purposes, including outdoor irrigation. The West Bay Sanitary District "Recycled Water Project – Sharon Heights" will help reduce potable water use by constructing a satellite recycled water treatment facility at the Sharon Heights Golf Club (SHGCC) to use recycled water to irrigate the golf course and also to serve water to the Stanford Linear Accelerator Center (SLAC) for irrigation and industrial uses such as for cooling towers.

West Bay Sanitary District is implementing the "Recycled Water Project – Sharon Heights" as a two phase project involving, the construction of satellite treatment facility designed to treat a max day flow of 0.5 MGD, a wastewater pump station to divert flow to the treatment facility, 1,580 LF of pipeline to discharge solids to an existing sewer, a recycled water distribution line to SHGCC irrigation water storage pond, and 5,300 LF of distribution pipeline to Stanford Linear Accelerator Center (SLAC) (second phase). The Project would deliver an estimated 236 AFY of recycled water, including 152 AFY to Sharon Heights through the year and, in the second phase, approximately 84 AFY over seven months to SLAC for irrigation and cooling tower uses.

SHGCC is interested in alternative sources of water for irrigation at the golf course, and has a high desire to use recycled water as an alternative to their current Hetch-Hetchy water supply. Additionally, SLAC can use recycled water year-round for industrial processes and especially during off-peak demand periods thus providing a greater public benefit. The preliminary cost estimate is approximately \$17M for design and construction of the pipelines, pump station and treatment facility. The District has also considered the inclusion of other nearby users in the future, including the City median strip at Sand Hill Road.

In 2014, the District completed a Recycled Water Market Survey (Market Survey) (RMC 2014), including preliminary market and recycled water supply assessment and evaluation of three conceptual alternatives to serve recycled water customers to assess overall feasibility of expanding the service area water supply portfolio to include recycled water. In 2015 the District completed a Facilities Plan for the evaluation of the satellite treatment facility at SHGCC. Since then the District has successfully completed and qualified for a Clean Water State Revolving Fund loan application for \$17.3 M at 1% interest rate and qualifies for up to \$6M grant.