

Director name: Gary Martin

Meeting attended: WATERWISE Virtual Tour of the Pure Water Demonstration Facility

Date of meeting: July 23, 2020

Location: Via ZOOM

SCV Water Board meeting to be presented at: August 4, 2020

On July 23, 2020 I attended the virtual tour of the new Las Virgenes - Triunfo Joint Powers Authority Pure Water Demonstration Facility. The virtual tour was hosted as part the AWA Water Information Breakfast Series and the Program Chair / MC was Mr. Sheldon Berger, Director, United Water Conservation District. According to the event flyer, "The Pure Water Demonstration Facility is the first major step forward in the joint effort by Las Virgenes Municipal Water District and Triunfo Water & Sanitation District to "bring water full circle" through advanced treatment of its excess recycled water to produce up to 15% of its drinking water supply locally."

The Las Virgenes – Triunfo Joint Powers Authority (JPA) was formed in 1964 to construct, operate and maintain a joint sewer system and wastewater treatment facilities to serve the Malibu Creek Watershed. The JPA is moving forward with the Pure Water Project Las Virgenes – Triunfo, an indirect potable reuse (IPR) surface water augmentation project that will ultimately produce up to 5,151 acre-feet per year (AFY) of new, local, drought-resilient water supply. The JPA produces recycled water at its Tapia WRF by treating wastewater flows from its service area, with surplus recycled water discharged to Malibu Creek, which is an impaired water body that drains to Santa Monica Bay.

The JPA determined that a Demonstration Project was needed to:

- Provide opportunities for public education, acceptance, and public outreach to its customers.
- Test design criteria and operational procedures to inform and improve the full-scale design and provide experience to operators.
- Provide technical documentation and support for permitting the project by the State of California's Division of Drinking Water (DDW) as a surface water augmentation project.

The Demonstration Facility is a nominal 100 gallons per minute (gpm) facility that tests full advanced treatment processes of microfiltration (MF), reverse osmosis (RO), ultraviolet disinfection (UV), and advanced oxidation processes (AOP) on the tertiary treated recycled water produced by the JPA's Tapia WRF.

The full-size Pure Water Project is scheduled to be constructed by 2030.

The virtual tour was informative, interesting, and well-presented. I appreciate being able to attend.