Las Virgenes – Triunfo Joint Powers Authority
4232 Las Virgenes Road, Calabasas, CA 91302
818.251.2100

THIS MEETING WILL BE CONDUCTED PURSUANT TO THE PROVISIONS OF THE GOVERNOR'S EXECUTIVE ORDER, N-29-20, WHICH SUSPENDS CERTAIN REQUIREMENTS OF THE RALPH M. BROWN ACT TO SUPPORT SOCIAL DISTANCING GUIDELINES ASSOCIATED WITH RESPONSE TO THE CORONAVIRUS (COVID-19) PANDEMIC. BOARD MEMBERS AND STAFF MAY PARTICIPATE IN THE MEETING BY TELECONFERENCE. THE PUBLIC IS STRONGLY ENCOURAGED TO PARTICIPATE ELECTRONICALLY AT www.lvmwd.com/JPALiveStream.

Call and Notice of Special Meeting of the Governing Board of the
Las Virgenes – Triunfo Joint Powers Authority

A Special Meeting of the Governing Board of the Las Virgenes – Triunfo Joint Powers Authority (JPA) is hereby called, and notice of said Special Meeting is hereby given for **9:00 a.m. on Monday, February 22, 2021**, at Las Virgenes Municipal Water District, 4232 Las Virgenes Road, Calabasas, California 91302, to consider the following:

PLEDGE OF ALLEGIANCE

1. Call to Order and Roll Call
2. Approval of Agenda
3. Public Comments
4. Pure Water Project Las Virgenes-Triunfo Water Augmentation Workshop
5. Adjourn

By Order of the Board of Director
RAY TJULANDER, Chair

Josie Guzman, MMC
Deputy Secretary

Dated: February 16, 2021

PURE WATER PROJECT
LAS VIRGENES-TRIUNFO
Bringing Our Water Full Circle

To: Las Virgenes-Triunfo JPA Board of Directors and Staff
From: Jennifer Phillips, Jacobs
Date: February 12, 2021
Re: Pure Water Project Water Augmentation Evaluation

Purpose

The Tapia Water Reclamation Facility (WRF) will provide treated tertiary effluent to the new, 7.5 million gallons per day (mgd) Advanced Water Treatment Plant (AWTP). The 12 mgd WRF currently produces approximately 7.5 mgd of tertiary effluent in the winter months, from November to April. However, there is no available effluent flow in the summer months due to the effective non-potable reuse program. Seasonal variation in flow to the AWTP will complicate operations and create a partially stranded asset for half of the year. Achieving a steady state operation for the AWTP would improve systemwide operational efficiency and continuously produce the valuable product of purified water. In support of this goal, the Pure Water Program is conducting a Water Augmentation Evaluation to identify and evaluate feasible options for augmenting sources of influent water to the Tapia WRF and/or directly to the AWTP.

Evaluation Approach

The evaluation includes development of a Digital Watershed to model sources and evaluate opportunities and constraints for a range of alternatives. The Digital Watershed is built upon elements from available models and data to represent key components of the wastewater collection system, Tapia WRF, recycled water system, and receiving waters with respect to flow and relevant water quality. This strategy will also carefully consider the salinity management goals and strategies for the JPA, the watershed, and customer agencies. The result will be a recommended alternative for water augmentation that considers technical feasibility, cost effectiveness, and social and environmental impacts. The outcome of the Water Augmentation Evaluation with the Digital Watershed will provide a conceptual framework to identify the sources with the highest benefit to further pursue and evaluate in detail.

Guiding Principles

The objectives of the evaluation are to:

- Identify a cost-effective combination of water augmentation options to achieve a steady-state flow of 7.5 mgd (feed water) to the AWTP year-round.
- Evaluate and recommend a cost-effective combination of water augmentation options and seasonal AWTP operating rates.

The augmentation sources shall meet the following criteria:

- Source can be implemented within the Pure Water Project timeline to feed the AWTP.
- Flows will be reliable and controllable towards operation of the AWTP.
- Interception and conveyance of flow are cost-effective.

Discussion

The Pure Water Program has identified a universe of potential sources that were grouped into the following seven categories: raw wastewater, septic-to-sewer conversion, wastewater effluent, groundwater wells (production and dewatering wells), flow diversions (stream and dry weather), recycled water demand reduction, and potable water supplementation. Exhibit 1 provides a map of identified sources. Selected criteria of implementation risk, reliability, available flow and preliminary water quality were used to provide preliminary screening of the sources to identify the suite of options for further consideration under the Program and modeling in the Digital Watershed. The Program would like to review the purpose and approach for the evaluation, as well as the preliminary screening of sources, to solicit feedback from the JPA Board prior to performing modeling.

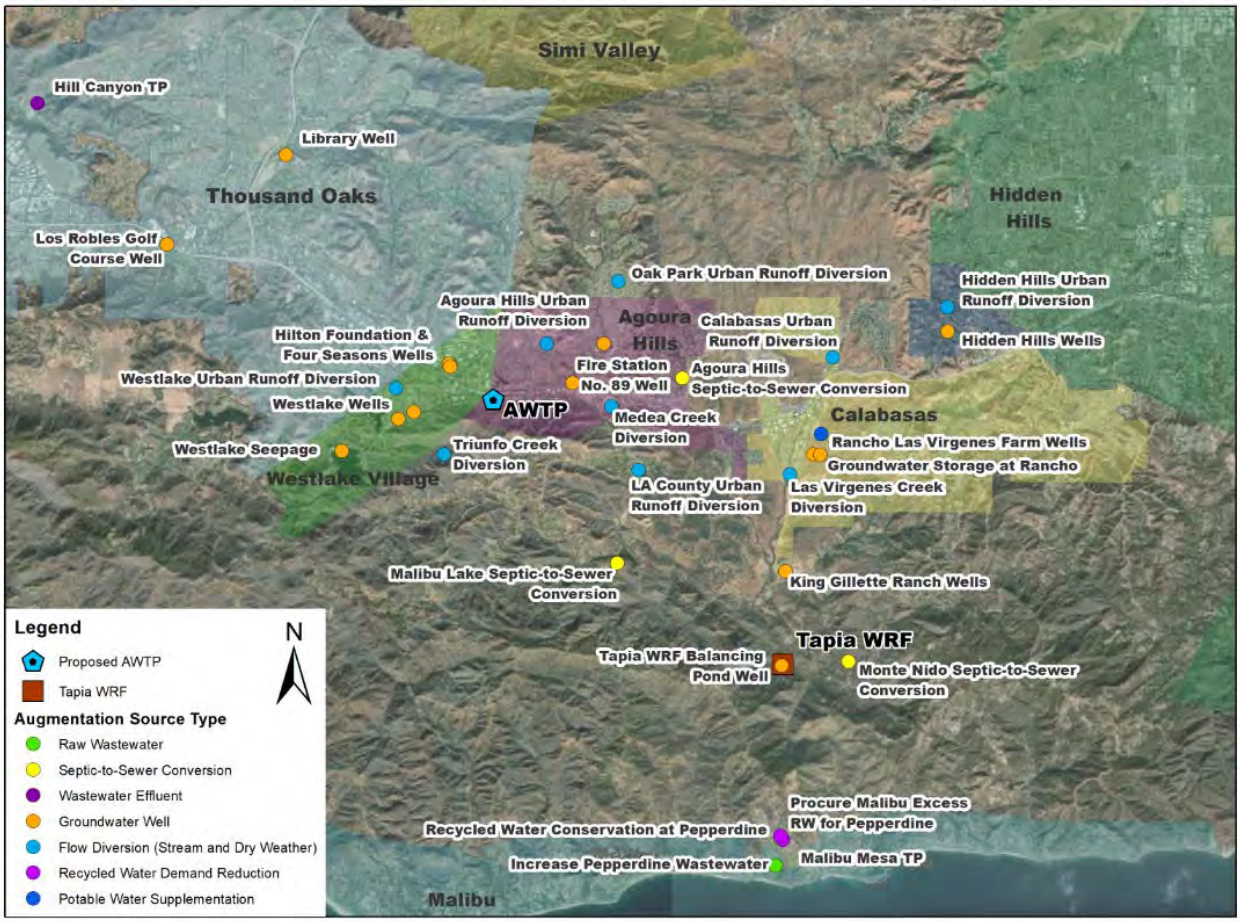
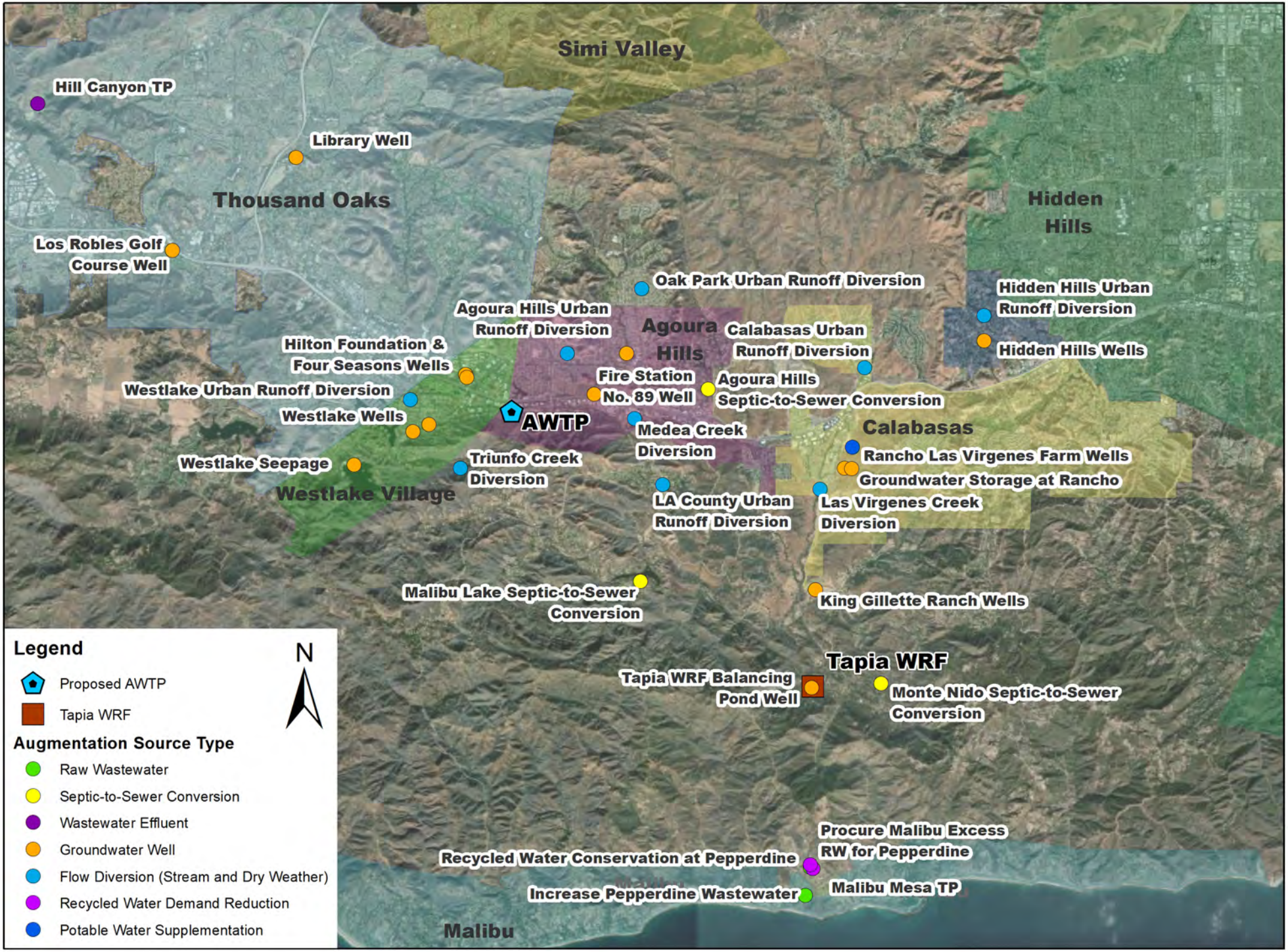


Exhibit 1. Potential water augmentation sources.


Simi Valley
Hill Canyon TP
Library Well
Thousand Oaks
Hidden Hills
Los Robles Golf Course Well
Oak Park Urban Runoff Diversion
Hidden Hills Urban Runoff Diversion
Agoura Hills Urban Runoff Diversion
Agoura Hills
Calabasas Urban Runoff Diversion
Hilton Foundation & Four Seasons Wells
Hidden Hills Wells
Fire Station No. 89 Well
Agoura Hills Septic-to-Sewer Conversion
Westlake Urban Runoff Diversion
Westlake Wells
AWTP
Medea Creek Diversion
Calabasas
Rancho Las Virgenes Farm Wells
Westlake Seepage
Triunfo Creek Diversion
Groundwater Storage at Rancho
Westlake Village
LA County Urban Runoff Diversion
Las Virgenes Creek Diversion
Malibu Lake Septic-to-Sewer Conversion
King Gillette Ranch Wells
Legend
N
Proposed AWTP
Tapia WRF
Tapia WRF
Tapia WRF Balancing Pond Well
Monte Nido Septic-to-Sewer Conversion
Augmentation Source Type
Raw Wastewater
Septic-to-Sewer Conversion
Wastewater Effluent
Groundwater Well
Flow Diversion (Stream and Dry Weather)
Recycled Water Demand Reduction
Potable Water Supplementation
Procure Malibu Excess RW for Pepperdine
Recycled Water Conservation at Pepperdine
Increase Pepperdine Wastewater
Malibu Mesa TP
Malibu