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TEMPLETON COMMUNITY SERVICES DISTRICT

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Where Does Our Water Come From?

DATE: February 17, 2014

FROM: Bettina L. Mayer, PE, District Engineer

The District relies on a combination of several different water sources to provide a sustainable water supply to its customers. Water sources include deep aquifer groundwater, shallow underflow water, and water supply augmentation through treated wastewater retrieval and importation of Nacimiento raw water. The water enters the water system through 13 wells, all located within the Templeton Subunit of the Atascadero Basin. The District's current water supply from all sources is approximately 2100 AFY and the District is capable of meeting the seasonal average daily water demands of the District.

The Atascadero Basin has a distinct hydraulic separation from the main Paso Robles Basin at the Rinconada fault as defined in the Paso Robles Groundwater Basin Study prepared by Fugro in 2002, and subsequent studies. The portion of the Atascadero Basin underlying District wells, informally named the Templeton Subunit, has been further evaluated by FUGRO, the District's hydrogeologist, in its August 2013 updated report titled 'Updated Templeton Subunit Study'. The aquifer contains two primary water-bearing geologic units: the Paso Robles Formation, and the Salinas River alluvial gravels. The deep, percolating groundwater wells located within the Paso Robles Formation are generally referred to as 'deep' wells, and wells extracting the underflow from the Salinas River alluvial gravels are referred to as the 'river' wells.

The water supply sources are further described below:

Percolating Ground Water -Deep Wells

The District extracts percolating groundwater from 10 active deep wells located throughout the District. FUGRO recently completed a study of the District's deep aquifer supply capability and concluded that a perennial yield of 1040 acre-feet per year (AFY) may be used as an operational guide for the 10 deep wells. This water is available year round, however these wells are used primarily to meet summer demands.

Salinas Underflow -River Wells

The District has three river wells that divert water from the Salinas River underflow. The District relies primarily on two river wells, the Smith River well, and the Creekside River Well. The third river well is currently a standby emergency well only.

The District has several water rights for diversions of water from the Salinas River underflow that includes two State Water Resources Control Board water permits and one water license. The District also has several riparian rights agreements by which it provides water to customers through its system and pumps the same amount of water from the underflow. All together, the underflow water supply totals approximately 650 AFY.

Treated Wastewater Retrieval (also may be called Underflow Augmentation)

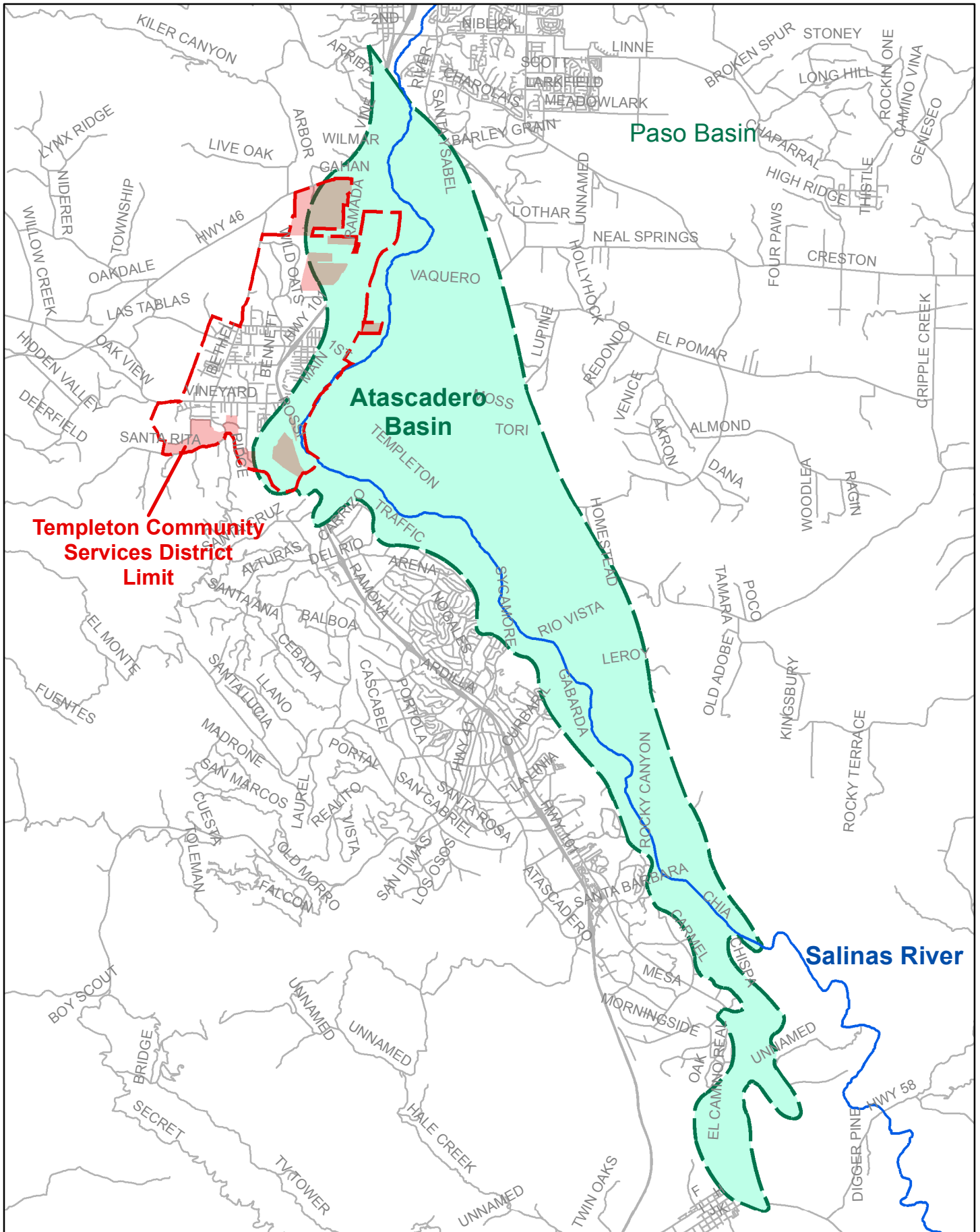
The District discharges treated wastewater into discharge ponds (Selby ponds) located adjacent to the Salinas River where it is percolated into the underflow of the Salinas River. The water may be retrieved, less 2%, 28 months later at the Smith River Well, or 35 months later at the Creekside River Well. At the current average discharge of 150,000 gpd, this provides an additional 164 AF of water available annually. Due to the locations of the two wells, all of the water discharged at the Selby ponds can be retrieved during the summer pumping season from April through October.

Nacimiento Water

The District began receiving raw Nacimiento water deliveries on June 23, 2011. The raw water is also percolated into the underflow at the Selby ponds for subsequent retrieval downstream. Retrieval of the water at the Smith Well and Creekside Well will net approximately 245 ac-ft annually. The Nacimiento water supplements the water supply during the peak summer season and provides some additional source capacity for the District.

Current Supply

The District's current available water supply from all sources is approximately 2100 AFY. During the 2014 calendar year, District water production was 1350 AF. Actual water use peaks in July and August when outdoor use is greatest and it can be over three times winter water use. At this time, the District is capable of meeting the seasonal average daily water demands of the District.



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No Scale

TEMPLETON COMMUNITY SERVICES DISTRICT

ATASCADERO BASIN

