Santa Clara Valley Water District

File No.: 21-1008

Agenda Date: 10/6/2021
Item No.: 2.2.

BOARD AGENDA MEMORANDUM

SUBJECT:
Update on Valley Water Purified Water Program.

RECOMMENDATION:
Receive an update on Valley Water's Advance Purified Water efforts.

SUMMARY:
Santa Clara Valley Water District's (Valley Water) 2040 Water Supply Master Plan (WSMP) recommends developing at least 24,000 acre feet per year (AFY) of additional potable water reuse (above a target of 33,000 AFY of non-potable reuse) by 2040. Valley Water has recently completed a Countywide Water Reuse Master Plan (CoRe Plan) that evaluates potable reuse opportunities throughout Santa Clara County, including identifying options for achieving the WSMP's water reuse targets.

In September 2020, the Board approved a Design-Build-Finance-Operate-Maintain (DBFOM) procurement process under a Public/Private Partnership (P3) to expand indirect potable reuse (IPR). The proposed Project includes the construction of a new advanced water purification facility (AWPF), water conveyance pipelines to the existing Los Gatos Recharge System complex located in the City of Campbell, lateral pipelines, and associated facilities. The AWPF would be located either at the existing Silicon Valley Advanced Water Purification Center on Zanker Road in San José or located at the Former Los Altos Treatment Plant (FLATP) in Palo Alto due to the amount of treated wastewater available for the project. The proposed Project would use advanced water purification processes, including reverse osmosis (RO) treatment and would generate purified water for ground water recharge.

The purpose of the proposed Project is to establish greater water supply reliability for Santa Clara County and to help ensure continued groundwater sustainability. The proposed Project's objectives to meet this purpose are as follows:

Partnership with Cities:

- Support Valley Water's water supply reliability goals, including the provision of at least 10% of all water supplies through recycled water

- Develop the use of purified water, consistent with Valley Water's adopted Water Supply Master

Plan 2040.

- Implement a potable reuse supply project that provides 10 MGD to 12.5 million gallons per day (MGD) production capacity for an annual yield of approximately 11,200 AFY of sustainable purified water supply for long-term/future demands.

The project will utilize a Public-Private Partnership (P3) model as a way to deliver this project more cost-effectively. Procurement for the private partner, public outreach efforts, and development of an Environmental Impact Report are ongoing.

The CoRe plan is the master plan for increasing purified water development to 24,000 AFY including the path ahead to support future potable reuse planning and implementation throughout the County. This item will provide an update on the Purified Water Project and potential future expansion in Sunnyvale.

FINANCIAL IMPACT:
There is no financial impact associated with this item.

CEQA:
The recommended action does not constitute a project under CEQA because it does not have the potential for resulting in direct or reasonably foreseeable indirect physical change in the environment.

ATTACHMENTS:
Attachment 1: Valley Water PowerPoint

UNCLASSIFIED MANAGER:
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