



MEMORANDUM

FC 14 (01-02-07)

TO: Board of Directors

FROM: Joint Recycled Water
Advisory Committee
(City of Sunnyvale)

SUBJECT: Joint Recycled Water Advisory Committee
(City of Sunnyvale) Summary for
September 21, 2021

DATE: October 12, 2021

This memorandum summarizes agenda items from the regular meeting of Joint Recycled Water Advisory Committee (City of Sunnyvale) held on September 21, 2021.

Attendees:

Committee Members in attendance were: City of Sunnyvale Councilmembers: Hon. Gustav Larsson and Hon. Russ Melton. Valley Water Board Representatives: Director Tony Estremera (District 6), Director Gary Kremen (District 7), and Director Richard P. Santos (District 3).

Valley Water Staff in attendance were: Aaron Baker, Henry Barrientos, Glenna Brambill, Domingo Candelas, Keila Cisneros, Heath McMahon, Melanie Richardson, Charlene Sun, Kirsten Struve, and David Tucker.

Guests in attendance were: Ramana Chinnakotla and Mansour Nasser (City of Sunnyvale) and Sanjay Reddy (Carollo Engineers).

Public in attendance was: Director Linda J. LeZotte (Valley Water, District 4).

3. ACTION ITEMS:

3.1. ELECTION OF CHAIR AND VICE CHAIR

The Joint Recycled Water Advisory Committee (City of Sunnyvale) Committee by roll call and unanimous vote, elected Director Tony Estremera as Committee Chair and City of Sunnyvale Councilmember Hon. Gustav Larsson as Vice Chair.

3.2 UPDATE ON PURIFIED WATER PROGRAM INCLUDING PROJECT PARTNER COLLABORATIONS IN SANTA CLARA COUNTY

Ms. Kirsten Struve reviewed the following:

Summary from Agenda Memo:

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) and delivery to the Los Gatos Recharge System (LGRS) for subsequent groundwater replenishment. Staff was directed to launch a P3 procurement process once all necessary elements for an advanced water purification project were secured. Staff

is presently implementing the Board's potable reuse directive through an 11,200 AFY production facility to begin operation in 2028. This first phase of potable reuse will locate an advanced purification facility in either San José or Palo Alto due to the amount of treated wastewater available for the project.

The purified water implementation update includes:

Partnership with Cities:

- In December 2019 partnership agreement was developed between Mountain View, Palo Alto and Valley Water to advance resilient water reuse programs in the county. Staff continues to develop terms for a facility ground lease and Reverse Osmosis (RO) concentrate management options with City of Palo Alto staff.
- City of San José Councilmembers and Valley Water Board members have agreed to significantly expand discussions for a potential San Jose Purified Water Project.
- Meetings with municipalities along the conveyance route have occurred to gather feedback on the pipeline alignment, including with the City of Sunnyvale.

Procurement, Technical Analyses and Regulatory Agency discussion: Eight statements of qualifications were received based on a Request for Qualifications released. The RFP is being developed, including needed technical analysis and specifications and discussions with regulatory agencies. It is anticipated that the RFP will be released in early 2022.

Outreach: Staff continues to implement a comprehensive outreach plan to engage the public and build support for the program. Outreach objectives include building public support and acceptance, engaging key stakeholders, garner support from community leaders, keeping the public informed, and mitigating concerns for the project. Palo Alto, San Jose and Valley Water staff are meeting regularly to collaborate on outreach related to this project.

Environmental Analysis: In March 2021, Valley Water released a Notice of Preparation (NOP) as the first formal notification of its intent to proceed with the project. Staff have continued to gather requisite environmental and technical information as they prepare the draft EIR for release in late 2021 or early 2022.

The Joint Recycled Water Advisory Committee (City of Sunnyvale) discussed the following: RFQ's, negotiations with the Cities of Palo Alto and San Jose, RFP (next phase), determination of project site location, City of Sunnyvale's capital investments/cost structure, piping map, wastewater, water supply and drought emergency issues.

Director Tony Estremera, Ms. Melanie Richardson, Director Gary Kremen, and Mr. Ramana Chinnakotla were available to answer questions.

The Joint Recycled Water Advisory Committee (City of Sunnyvale) took no action.

3.3 COUNTYWIDE WATER REUSE MASTER PLAN

Mr. David Tucker reviewed the following:

Summary from Agenda Memo:

The item provides an update on the Santa Clara Valley Water District's (Valley Water) Countywide Water Reuse Master Plan (CoRe Plan), an integral component of Valley Water's Water Supply Master Plan. The objective of the CoRe Plan is to identify and evaluate future water reuse opportunities in collaboration with recycle water producers, wholesalers, retailers, users, and other interested stakeholders in Santa Clara County. Valley Water has set a goal of meeting at least 10% of the County's total water demand using recycled and purified water. Consequently, Valley Water developed a CoRe Plan that presents direction to provide up to 24,000 acre-feet per year of potable water reuse by 2028. The CoRe Plan (Attachment 2) was completed in June 2021 and accepted by the Valley Water Board of Directors at the August 10, 2021 Board meeting.

Since November 2018, the CoRe Plan has integrated over 15 critical engineering reports that form the Plan's reuse planning foundation and includes key stakeholder feedback into the Plan's key recommendations. The CoRe Plan has assembled the following technical memoranda into a planning compendium for future potable reuse implementation:

- Project Definition Technical Memorandum
- Baseline Analysis Technical Memorandum
- Conceptual Alternatives Technical Memorandum
- 1% Conceptual Alternatives Design
- Feasible Project Portfolios Technical Memorandum
- Draft Countywide Water Reuse Master Plan
- Non-Potable Onsite Reuse Survey
- Public Outreach and Engagement Survey
- California Water Reuse Governance Survey
- South Bay Water Recycling (SBWR) Master Plan Updates

The CoRe Plan represents the assemblage of these critical engineering and planning documents into a comprehensive water reuse planning document that describes available source water, relevant institutional arrangements, existing reuse systems, expanded reuse potential, feasible project portfolios, and initial cost and rate payer implications. Key benefits of the CoRe Plan include:

- Describes drought-resilient water reuse opportunities that could reduce our dependence on imported water and groundwater pumping,
- Supports habitat preservation and endangered species protection by reducing freshwater discharges to the South Bay and minimizes wastewater discharge to the Pajaro River in South County,
- Enhances estuarine ecosystem improvements, including freshwater fish habitat, in statewide watersheds resulting from reduced imported water reliance,
- Reduces the concentration of emerging contaminants in potable water reuse through advanced treatment techniques that reduces emerging environmental concerns with source waters, and
- Provides planning opportunities and water supply options with improved adaptation to anticipated climate change impacts.

The CoRe Plan represents an integrated plan after three years of technical planning, development of 10 water supply portfolios with indirect and direct potable reuse options, involvement of 60 stakeholder agencies, 60+ meetings and workshops, and 1200 pages of technical support documentation (Attachment 3). The Plan includes an Executive Summary, expanded discussion of fiscal and rate payer impacts, evaluation of on-site non-potable reuse opportunities, and options for phased project implementation.

Staff will present the vision underlying the master planning effort, the journey taken to develop the CoRe Plan, and the path ahead to support future potable reuse planning and implementation throughout the County and with emphasis in Sunnyvale.

The Joint Recycled Water Advisory Committee (City of Sunnyvale) discussed the following: speeding up project during the drought emergency, costs, potential environmental impacts, piping availability (diameter), purple piping, water quality concerns, purification facility, right of way map(s), funding/impact on water rates (water rate projections), and the Countywide Water Reuse Master Plan {CoRe Plan} (included in meeting packet) as a resource.

Ms. Kirsten Struve, Mr. Ramana Chinnakotla, Mr. Mansour Nasser, Director Tony Estremera, and Mr. Aaron Baker were available to answer questions.

The Joint Recycled Water Advisory Committee (City of Sunnyvale) took no action.

The next scheduled meeting will occur in December 2021.

If you have any questions or concerns, you may contact me at, gbrambill@valleywater.org or 1.408.630.2408.

Thank you.

Glenna Brambill, Management Analyst II,
Board Committee Liaison
Office of the Clerk of the Board