



# Santa Clara Valley Water District Capital Improvement Program Committee Meeting

Zoom Teleconference

## REGULAR MEETING AGENDA

**Monday, August 10, 2020  
10:00 AM**

**District Mission: Provide Silicon Valley safe, clean water for a healthy life, environment and economy.**

Nai Hsueh, Chair, District 5  
Linda J. LeZotte, Vice Chair, District  
4

Tony Estremera, District 6

All public records relating to an item on this agenda, which are not exempt from disclosure pursuant to the California Public Records Act, that are distributed to a majority of the legislative body will be available for public inspection at the Office of the Clerk of the Board at the Santa Clara Valley Water District Headquarters Building, 5700 Almaden Expressway, San Jose, CA 95118, at the same time that the public records are distributed or made available to the legislative body. Santa Clara Valley Water District will make reasonable efforts to accommodate persons with disabilities wishing to attend Board of Directors' meeting. Please advise the Clerk of the Board Office of any special needs by calling (408) 265-2600.

BETH REDMOND  
Committee Liaison

NATALIE F. DOMINGUEZ,  
CMC  
Assistant Deputy Clerk II  
Office/Clerk of the Board  
(408) 265-2659  
ndominguez@valleywater.org

**Note: The finalized Board Agenda, exception items and supplemental items will be posted prior to the meeting in accordance with the Brown Act.**

**Santa Clara Valley Water District  
Capital Improvement Program Committee**

**REGULAR MEETING  
AGENDA**

---

Monday, August 10, 2020

10:00 AM

Zoom Teleconference

---

IMPORTANT NOTICES

This meeting is being held in accordance with the Brown Act as currently in effect under the State Emergency Services Act, the Governor's Emergency Declaration related to COVID-19, and the Governor's Executive Order N-29-20 issued on March 17, 2020 that allows attendance by members of the Committee, staff, and the public to participate and conduct the meeting by teleconference, videoconference, or both.

Members of the public wishing to address the Committee during a video conferenced meeting on an item not listed on the agenda, or any item listed on the agenda, should use the "Raise Hand" or "Chat" tools located in Zoom meeting link listed on the agenda. Speakers will be acknowledged by the Committee Chair in the order requests are received and granted speaking access to address the Committee.

Santa Clara Valley Water District (Valley Water) in complying with the Americans with Disabilities Act (ADA), requests individuals who require special accommodations to access and/or participate in Valley Water Committee meetings to please contact the Clerk of the Board's office at (408) 630-2711, at least 3 business days before the scheduled meeting to ensure that Valley Water may assist you.

This agenda has been prepared as required by the applicable laws of the State of California, including but not limited to, Government Code Sections 54950 et. seq. and has not been prepared with a view to informing an investment decision in any of Valley Water's bonds, notes or other obligations. Any projections, plans or other forward-looking statements included in the information in this agenda are subject to a variety of uncertainties that could cause any actual plans or results to differ materially from any such statement. The information herein is not intended to be used by investors or potential investors in considering the purchase or sale of Valley Water's bonds, notes or other obligations and investors and potential investors should rely only on information filed by Valley Water on the Municipal Securities Rulemaking Board's Electronic Municipal Market Access System for municipal securities disclosures and Valley Water's Investor Relations website, maintained on the World Wide Web at <https://emma.msrb.org/> and <https://www.valleywater.org/how-we-operate/financebudget/investor-relations>, respectively.

## JOIN ZOOM MEETING

<https://valleywater.zoom.us/j/94158013374>

Meeting ID: 941 5801 3374

One tap mobile: +16699009128,,94158013374# US (San Jose)

Dial by your location: +1 669 900 9128 US (San Jose)

**1. Roll Call.**

**2. TIME OPEN FOR PUBLIC COMMENT ON ANY ITEM NOT ON THE AGENDA.**

*Notice to the Public: Members of the public who wish to address the Committee on any item not listed on the agenda should access the "Raise Hand" or "Chat" tools located in Zoom meeting link listed on the agenda. Speakers will be acknowledged by the Committee Chair in order requests are received and granted speaking access to address the Committee. Speakers comments should be limited to three minutes or as set by the Chair. The law does not permit Committee action on, or extended discussion of, any item not on the agenda except under special circumstances. If Committee action is requested, the matter may be placed on a future agenda. All comments that require a response will be referred to staff for a reply in writing. The Committee may take action on any item of business appearing on the posted agenda.*

**3. APPROVAL OF MINUTES:**

3.1. Approval of Meeting Minutes - March 9 and June 29, 2020.

[20-0075](#)

Recommendation: Approve the minutes.

Manager: Michele King, 408-630-2711

Attachments: [Attachment 1: 030920 CIP Committee Minutes](#)

[Attachment 2: 062920 CIP Committee Minutes](#)

Est. Staff Time: 5 Minutes

**4. ACTION ITEMS:**

- 4.1. Review Capital Project Monitoring - Planning and Feasibility Report. [20-0131](#)
- Recommendation: Receive updates on projects in the planning and feasibility phase, discuss resources needs, and make recommendations, as necessary.
- Manager: Vincent Gin, 408-630-2633  
Christopher Hakes, 408-630-3796  
Heath McMahon, 408-630-3126  
Ngoc Nguyen, 408-630-2632
- Attachments: [Attachment 1: Planning and Feasibility Report](#)
- Est. Staff Time: 20 Minutes
- 4.2. **Review Proposed Project Approach for the Water Supply Infrastructure Implementation Projects.** [20-0573](#)
- Recommendation:** Review and provide input to staff on the proposed project approach for the three new water supply infrastructure implementation projects included in the Fiscal Year (FY) 2021-25 five-year Capital Improvement Program.
- Manager:** Bhavani Yerrapotu, 408-630-2735  
Jerry De La Piedra, 408-630-2257
- Attachments:** [Attachment 1: PowerPoint](#)
- 4.3. Receive Information on Upcoming Consultant Agreement Amendments for Capital Projects. **20-0564**
- Recommendation: Receive information on upcoming consultant agreement amendments for capital projects.
- Manager: Rechelle Blank, 408-630-2615  
Heath McMahon, 408-630-3126
- Est. Staff Time: 10 Minutes
- 4.4. Review 2020 Capital Improvement Committee Work Plan. [20-0092](#)
- Recommendation: Review the 2020 Capital Improvement Program Committee Work Plan, and make adjustments as necessary.
- Manager: Michele King, 408-2630-2711
- Attachments: [Attachment 1: 2020 CIP Committee Work Plan](#)
- Est. Staff Time: 10 Minutes



# Santa Clara Valley Water District

File No.: 20-0573

Agenda Date: 8/10/2020

Item No.: 4.2.

---

## COMMITTEE AGENDA MEMORANDUM

### Capital Improvement Program Committee

#### SUBJECT:

Review Proposed Project Approach for the Water Supply Infrastructure Implementation Projects.

#### RECOMMENDATION:

Review and provide input to staff on the proposed project approach for the three new water supply infrastructure implementation projects included in the Fiscal Year (FY) 2021-25 five-year Capital Improvement Program.

#### SUMMARY:

There are three new water supply infrastructure implementation projects in the current Board-approved Capital Improvement Program (CIP). Staff will review these projects with Valley Water's Capital Improvement Program Committee (CIP Committee) and receive input on the proposed project approach.

Supervisory Control and Data Acquisition (SCADA) Implementation Project (Project No. 95044002)  
Valley Water's process control and SCADA systems, which serve a pivotal role in monitoring and controlling the raw water conveyance system (including reservoirs and pumping plants), treatment plants and distribution systems are aging and in need of coordinated replacement and upgrade. The SCADA Implementation Project will prepare an update to the process control systems/SCADA master plan (2011), produce detailed design and implementation standards for new projects, and recommend a coordinated suite of improvement projects (projects implementation plan).

The project will develop a 15-year SCADA Capital Improvement Program with a suite of capital improvement projects along with a Programmatic Environmental Impact Report (PEIR) for the Board's consideration and adoption. The estimated cost of the project is \$6.8 million which includes \$3.3 million in consultant services expenses, along with staff resources for project engineering and key partner and stakeholder participation.

Water Treatment Plant Implementation Project (Project No. 93044001)

The infrastructure needs for the water treatment plants (WTPs) have been developed over the years through a number of planning documents focused on specific process areas, and not through an integrated master implementation plan. As a result, projects are often piecemealed for specific needs, needing frequent rebuilds or upgrades due to adjacent processes or regulatory requirements changes. The WTP Implementation Project will develop a comprehensive implementation plan forecasting over a 30-year period to identify projects to repair, replace, and/or upgrade the infrastructures at Valley Water's four WTPs; address the increasingly stringent water quality

regulations; and integrate with the recently completed Water Supply Master Plan (WSMP).

The project will develop a 30-year WTP Capital Improvement Program with a suite of capital improvement projects along with a PEIR for the Board's consideration and adoption. The estimated cost of the project is \$8.6 million which includes \$6 million in consultant services expenses, along with staff resources for dedicated project management and project engineering, and for key partner and stakeholder participation.

Distribution System Implementation Project (Project No. 95044001)

Valley Water has not conducted a comprehensive evaluation of its distribution system (raw and treated water pipelines) in recent history. With the recently completed WSMP, there is a need to develop a comprehensive Distribution Systems Implementation Plan (DSMP) forecasting over a 30-year period to identify improvements to Valley Water's raw and treated water systems based on current demands, future growth, and emergencies. The DSMP will provide significant insights, analysis tools for Valley Water's raw and treated water distribution systems to ensure that the distribution system infrastructure is appropriately sized to accommodate new supplies as they are brought online, retailer needs, and recommend direct capital actions needed to protect existing distribution systems.

The project will develop a 30-year Distribution System Capital Improvement Program with a suite of capital improvement projects along with a PEIR for the Board's consideration and adoption. The estimated cost of the project is \$8.2 million which includes \$6 million in consultant services expenses, along with staff resources for dedicated modeling analysis and evaluation, project engineering support, and for key partner and stakeholder participation.

Proposed Project Approach

Given the significant nature of these efforts to conduct a comprehensive evaluation of the treatment, distribution and the key support infrastructure, staff will be engaging consultant support to develop these master plans. Over the last several months staff have been collecting key benchmarking information from other agencies on the level of effort and approach for developing infrastructure master plans as well as gathering and cataloguing past Valley Water infrastructure and asset evaluation plans. Staff plans to use this information to develop consultant scope of services for all three projects and proceed with consultant selection during the remainder of this calendar year.

The first and key task for the project team will be to work with key stakeholders and the Board to define project goals (including but not limited to capacity, regulatory and reliability goals) that align with the WSMP. Once the goals have been established, the existing infrastructure will be evaluated against the goals and recommended projects will be identified to meet the goals. Recommended projects from all three implementation projects need to be integrated to ensure the individual implementation plans for each project and the phasing are coordinated. Conceptual designs will also be completed for the recommended projects to assist in the capital improvement program development and cost forecasting. Staff plans to engage internal and external stakeholders in the process as well as provide updates and seek policy guidance from the Board and the CIP Committee.

After the development of the recommended implementation plan, the project scope will include the completion of a comprehensive PEIR so Valley Water can swiftly move to implementing the capital projects as well be poised to seek any available grant funding.

All three implementation projects will start in FY 2021. It is anticipated that the development of the recommended capital improvement projects and the implementation plan as well as the completion of the PEIRs will take approximately three years to complete. Staff is currently preparing the request for proposals for the implementation project consultant services and plans to complete consultant selection and agreements in the spring of 2021.

**ATTACHMENTS:**

Attachment 1: PowerPoint

**UNCLASSIFIED MANAGER:**

Bhavani Yerrapotu, 408-630-2735

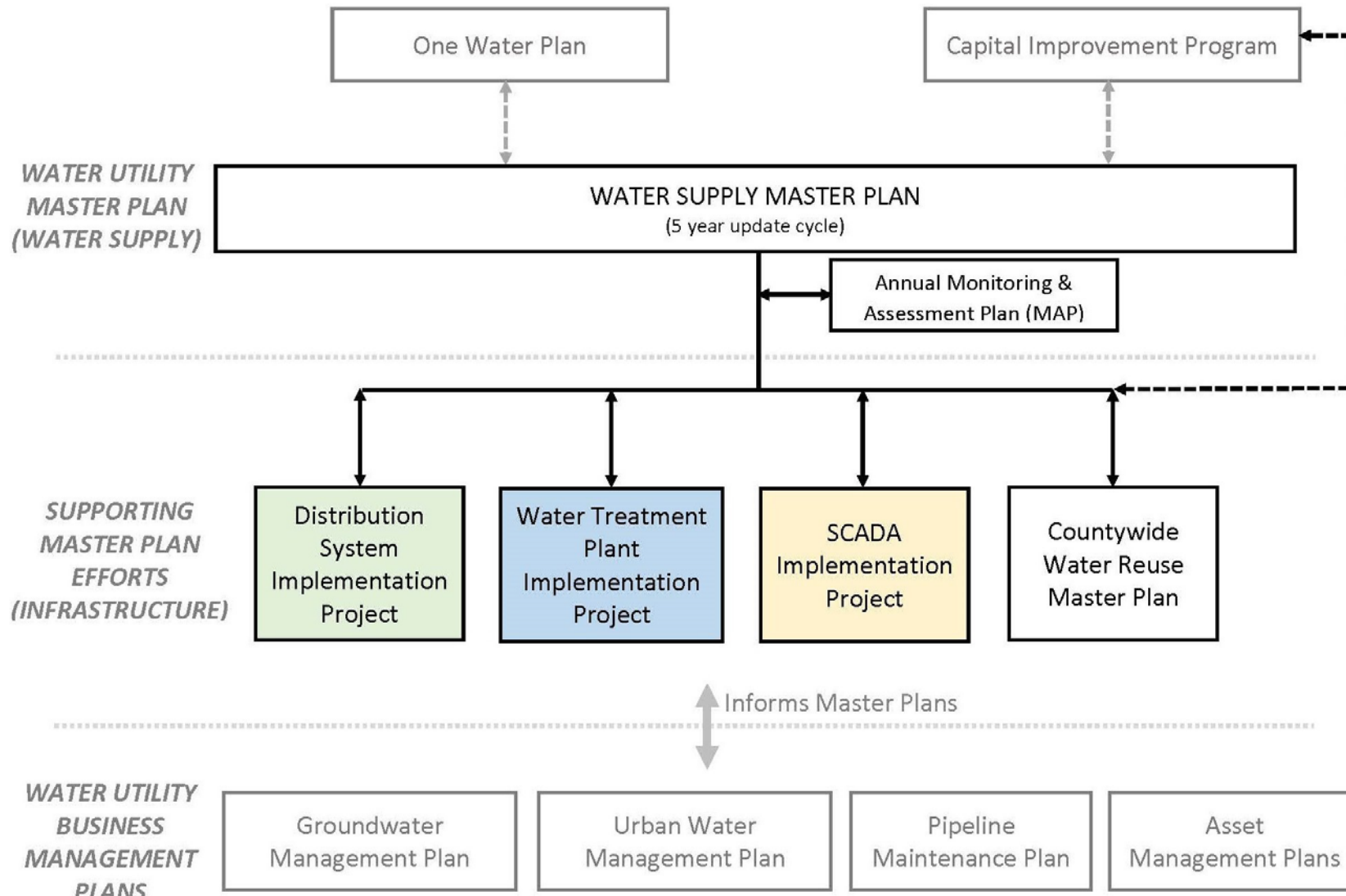
Jerry De La Piedra, 408-630-2257

# Water Supply Infrastructure Implementation Projects (FY 21-23)



- Infrastructure Planning
- The Projects
- Project Approach
- Board and Stakeholder Engagement
- Project Timeline
- Next Steps

# Infrastructure Planning



# Supervisory Control and Data Acquisition (SCADA) Implementation Project

Develop a comprehensive implementation plan that coordinates updating aging/obsolete infrastructure, standardization, and other operational improvements.

## Deliverables:

- Update the 2011 Master Plan and recommend a SCADA Capital Improvement Program for the next 15 years for the Board's consideration
- Develop detailed design and implementation standards for the new projects
- Present an implementation plan with a programmatic EIR

Resources: \$6.8 million



# Water Treatment Plant Implementation Project

Develop a comprehensive implementation plan that coordinates regulatory-driven changes, updating aging infrastructure, and other operational improvements.

## Deliverables:

- Recommend a Water Treatment Plant Capital Improvement Program for the next 30 years for the Board's consideration
- Present an implementation plan with a programmatic EIR

Resources: \$8.6 million



# Distribution System Implementation Project

Develop a comprehensive implementation plan that coordinates updating aging infrastructure, future growth/retailer needs, and other operational improvements.

## Deliverables:

- Recommend a Distribution System Capital Improvement Program for the next 30 years for the Board's consideration
- Present an implementation plan with a programmatic EIR

Resources: \$8.2 million



# Project Approach

1. Define project goals to align with Water Supply Master Plan (WSMP)
  - a) May include additional infrastructure goals not identified in the WSMP
2. Project identification and alternative analysis to meet defined goals (capacity, regulatory and reliability)
3. Integrate recommended projects from all three infrastructure plans
4. Implementation plan/phasing
5. Conceptual design for new projects
6. Programmatic EIR
7. Implementation program management

1. Board/CIP Committee
  - Project Goals Development
  - Project Status Updates
  - Draft/Final Implementation Plan and PEIR Approvals
  - CIP Project Approvals
2. Stakeholders (Retailers, Regulatory Agencies & Other Agencies)
  - Project Goals Development
  - Project Status Updates
  - Draft/Final Implementation Plan and PEIR Reviews





1. Issue Implementation Project Consultant Request for Proposals (Fall 2020)
2. Complete Consultant Selection and Agreements (Spring 2021)