

August 11, 2023

MEETING NOTICE
SANTA CLARA VALLEY WATER DISTRICT
RECYCLED WATER COMMITTEE

Members of the Recycled Water Committee:

District 6 Director, Tony Estremera, Committee Chair
District 3 Director, Richard Santos, Committee Vice Chair
District 4 Director, Jim Beall, Member

Staff Support of the Recycled Water Committee:

Rick Callender, Chief Executive Officer
Melanie Richardson, Assistant Chief Executive Officer
Bhavani Yerrapotu, Acting Assistant Chief Executive Officer
Darin Taylor, Chief Financial Officer
Aaron Baker, Chief Operating Officer, Water Utility
Christopher Hakes, Acting Chief Operating Officer, Watersheds
Tina Yoke, Chief Operating officer
Rachael Gibson, Chief of External Affairs
Carlos Orellana, District Counsel
Leslie Orta, Sr. Assistant District Counsel
Vincent Gin, Deputy Operating Officer
Donald Rocha, Deputy Administrative Officer
Tony Ndah, Deputy Administrative Officer
Sam Bogale, Deputy Operating Officer
Emmanuel Aryee, Deputy Operating Officer
Kirsten Struve, Assistant Officer
Lisa Bankosh, Assistant Officer
Charlene Sun, Treasury and Debt Manager
Hossein Ashktorab, Unit Manager, Recycled & Purified Water
Carmen Narayanan, Financial Planning & Revenue Manager
Metra Richert, Unit Manager, Water Supply Planning and Conservation Manager
Lei Hong, Utility Ops & Maintenance Manager
Sherilyn Tran, Civic Engagement Manager
Medi Sinaki, Sr. Engineer-Recycled & Purified Water
Girle Jacobson, Sr. Engineer-Treatment Plant Design
Henry Barrientos, Associate Civil Engineer
David Tucker, Associate Engineer – Civil
Zachary Helsley, Associate Civil Engineer
Elise Latedjou-Durand, Senior Environmental Planner
Ricardo Barajas, Program Administrator
Samantha Greene, Senior Water Resource Specialist
Lakeisha Bryant, Public Info Rep II
Alina Hare, Staff Analyst

A Santa Clara Valley Water District special Recycled Water Committee meeting has been scheduled to occur at 2:00 p.m. on Friday, August 18, 2023, in the Headquarters Building Boardroom located at the Santa Clara Valley Water District, 5700 Almaden Expressway, San Jose, California.

Members of the public may join the meeting via Zoom Teleconference at:

<https://valleywater.zoom.us/j/99518153521>

The meeting agenda and corresponding materials are located on our website:

<https://www.valleywater.org/how-we-operate/committees>

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Santa Clara Valley Water District Recycled Water Committee Meeting

Headquarters Building Boardroom
5700 Almaden Expressway, San Jose, CA 95118

Join Zoom Teleconference:
<https://valleywater.zoom.us/j/99518153521>

SPECIAL MEETING AGENDA

**Friday, August 18, 2023
2:00 PM**

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

RECYCLED WATER COMMITTEE

Tony Estremera - District 6, Chair
Richard Santos - District 3, Vice Chair
Jim Beall - District 4, Member

During the COVID-19 restrictions, all public records relating to an open session 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 to the public through the legislative body agenda web page 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 participate in the legislative body's meeting. Please advise the Clerk of the Board Office of any special needs by calling (408) 265-2600.

KIRSTEN STRUVE
Committee Liaison

NICOLE MERRITT
Assistant Deputy Clerk II
Office/Clerk of the Board
(408) 265-3262
nmerritt@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
Recycled Water Committee
SPECIAL MEETING
AGENDA**

Friday, August 18, 2023

2:00 PM

Headquarters Building Boardroom
5700 Almaden Expressway, San Jose, CA 95118

Join Zoom Meeting:
<https://valleywater.zoom.us/j/99518153521>

*****IMPORTANT NOTICES AND PARTICIPATION INSTRUCTIONS*****

Santa Clara Valley Water District (Valley Water) Board of Directors/Board Committee meetings are held as a “hybrid” meetings, conducted in-person as well as by telecommunication, and is compliant with the provisions of the Ralph M. Brown Act.

To maximize public safety while still maintaining transparency and public access, members of the public have an option to participate by teleconference/video conference or attend in-person. To observe and participate in the meeting by teleconference/video conference, please see the meeting link located at the top of the agenda. If attending in-person, you are required to comply with Ordinance 22-03 - AN ORDINANCE OF THE SANTA CLARA VALLEY WATER DISTRICT SPECIFYING RULES OF DECORUM FOR PARTICIPATION IN BOARD AND COMMITTEE MEETINGS located at <https://s3.us-west-2.amazonaws.com/valleywater.org.if-us-west-2/f2-live/s3fs-public/Ord.pdf>

In accordance with the requirements of Gov. Code Section 54954.3(a), members of the public wishing to address the Board/Committee during public comment or on any item listed on the agenda, may do so by filling out a Speaker Card and submitting it to the Clerk or using the “Raise Hand” tool located in the Zoom meeting application to identify yourself in order to speak, at the time the item is called. Speakers will be acknowledged by the Board Chair in the order requests are received and granted speaking access to address the Board.

- Members of the Public may test their connection to Zoom Meetings at: <https://zoom.us/test>
- Members of the Public are encouraged to review our overview on joining Valley Water Board Meetings at: <https://www.youtube.com/watch?v=TojJpYCxXm0>

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 Board of Directors/Board 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

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.

Under the Brown Act, members of the public are not required to provide identifying information in order to attend public meetings. Through the link below, the Zoom webinar program requests entry of a name and email address, and Valley Water is unable to modify this requirement. Members of the public not wishing to provide such identifying information are encouraged to enter "Anonymous" or some other reference under name and to enter a fictional email address (e.g., attendee@valleywater.org) in lieu of their actual address. Inputting such values will not impact your ability to access the meeting through Zoom.

Join Zoom Meeting:
<https://valleywater.zoom.us/j/99518153521>
Meeting ID: 995 1815 3521
Join by Phone:
1 (669) 900-9128, 99518153521#

1. CALL TO ORDER:

1.1. 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 Board/Committee on any item not listed on the agenda may do so by filling out a Speaker Card and submitting it to the Clerk or using the "Raise Hand" tool located in the Zoom meeting application to identify yourself to speak. Speakers will be acknowledged by the Board Chair in the order requests are received and granted speaking access to address the Board. Speakers' comments should be limited to three minutes or as set by the Chair. The law does not permit Board action on, or extended discussion of, any item not on the agenda except under special circumstances. If Board 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 Board may take action on any item of business appearing on the posted agenda.

3. APPROVAL OF MINUTES:

- 3.1. Approval of June 28, 2023 Recycled Water Committee Minutes. [23-0831](#)

Recommendation: Approve the minutes.

Manager: Candice Kwok-Smith, 408-630-3193

Attachments: [Attachment 1: 062823 RWC Meeting Minutes](#)

Est. Staff Time: 5 Minutes

4. REGULAR AGENDA:

- 4.1. Receive Purified Water Program Update Including Partnership with Cities of San Jose and Palo Alto and Provide Feedback. [23-0749](#)

Recommendation: Receive an update and provide feedback on the following topics:

- A. Collaboration with Wastewater Partners
- B. Public Private Partnership
- C. Outreach

Manager: Kirsten Struve, 408-630-3138

Attachments: [Attachment 1: July Nonagenda Item](#)
[Attachment 2: PowerPoint](#)

Est. Staff Time: 10 Minutes

- 4.2. Receive the 7th Independent Advisory Panel Meeting Update for Evaluation of Valley Water's Purified Water Program. [23-0750](#)

Recommendation: Receive information on the 7th meeting of the Independent Advisory Panel for evaluation of Valley Water's Purified Water Program.

Manager: Kirsten Struve, 408-630-3138

Attachments: [Attachment 1: PowerPoint](#)

Est. Staff Time: 5 Minutes

- 4.3. Receive South Santa Clara County Water Reuse Collaboration Update and Provide Feedback. [23-0752](#)

Recommendation: Receive an update on Technical Work Group discussions and provide feedback.

Manager: Kirsten Struve, 408-630-3138

Est. Staff Time: 10 Minutes

- 4.4. Receive State and Federal Grant Opportunities Update for Recycled Water Projects. [23-0695](#)

Recommendation: Receive State and Federal Grant Opportunities Update for Recycled Water Projects.

Manager: Marta Lugo, 408-630-2237

Est. Staff Time: 10 Minutes

- 4.5. Receive and Discuss the 2023 Recycled Water Committee Work Plan, Upcoming Discussion Items, and Upcoming Meeting Dates - Possible Combined Meeting Date for November and December 2023. [23-0815](#)

Recommendation: Receive information on the 2023 Recycled Water Committee Work Plan, and provide feedback on upcoming discussion items and next meeting dates - possible combined meeting date for November and December 2023.

Manager: Kirsten Struve, 408-630-3138

Attachments: [Attachment 1: 2023 Revised Work Plan](#)

Est. Staff Time: 5 Minutes

5. CLERK REVIEW AND CLARIFICATION OF COMMITTEE REQUESTS.

This is an opportunity for the Clerk to review and obtain clarification on any formally moved, seconded, and approved requests and recommendations made by the Committee during the meeting.

6. ADJOURN:

- 6.1. Adjourn to Regular Meeting at 12:00 p.m., on September 27, 2023.

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Santa Clara Valley Water District

File No.: 23-0831

Agenda Date: 8/18/2023

Item No.: 3.1.

COMMITTEE AGENDA MEMORANDUM Recycled Water Committee

Government Code § 84308 Applies: Yes ☐ No ☒
(If "YES" Complete Attachment A - Gov. Code § 84308)

SUBJECT:

Approval of June 28, 2023 Recycled Water Committee Minutes.

RECOMMENDATION:

Approve the minutes.

SUMMARY:

In accordance with the Ralph M. Brown Act, a summary of Committee discussions, and details of all actions taken by the Committee, during all open and public Committee meetings, is transcribed and submitted to the Committee for review and approval.

Upon Committee approval, minutes transcripts are finalized and entered into Valley Water's historical records archives and serve as historical records of the Committee's meetings.

ENVIRONMENTAL JUSTICE IMPACT:

There are no Environmental Justice impacts associated with this item.

ATTACHMENTS:

Attachment 1: 062823 RWC Meeting Minutes

UNCLASSIFIED MANAGER:

Candice Kwok-Smith, 408-630-3193

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RECYCLED WATER COMMITTEE MEETING

DRAFT MINUTES

**SPECIAL MEETING
WEDNESDAY, JUNE 28, 2023
10:00 AM**

(Paragraph numbers coincide with agenda item numbers)

1. CALL TO ORDER:

A special meeting of the Santa Clara Valley Water District (Valley Water) Recycled Water Committee (Committee) was called to order in the Valley Water Headquarters Building Boardroom at 5700 Almaden Expressway, San Jose, California, and by Zoom teleconference, at 10:00a.m.

1.1 Roll Call.

Committee members in attendance were District 4 Director Jim Beall, District 3 Vice Chairperson Richard P. Santos, and District 6 Director Tony Estremera, Chairperson presiding, constituting a quorum of the Committee.

Staff members in attendance were: Brandon Adriano, Hossein Ashktorab, Aaron Baker, Henry Barrientos, Lakeisha Bryant, Rick Callender, Anthony Fulcher, Girlie Jacobson, Nicole Merritt, David Montenegro, Carlos Orellana, Leslie Orta, Melanie Richardson, Don Rocha, Amandeep Saini, Nicholas Simard, Medi Sinaki, Kirsten Struve, Darin Taylor, Cindy Torres, Sherilyn Tran, and Zuberi White.

Guests in attendance were: Director Keegan (District 2), Phillippe Daniel (Liquisti LLC), Jan Davel (CDM Smith), Patrick Ferraro (San Jose State University), Bridget Gile and Richard Luthy (Stanford University), Arthur Keller (Minerva Consulting), and Sanjay Reddy (Carollo Engineers).

Public in attendance was: Pedro Carillo, Susan Hinton, Melanie Tan, and XXX-XXX-8150.

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

Chairperson Estremera declared time open for public comment on any item not on the agenda. There was no one who wished to speak.

3. APPROVAL OF MINUTES:

3.1. Approval of May 24, 2023 Recycled Water Committee Meeting Minutes.

Recommendation: Approve the minutes.

The Committee considered the attached minutes of the May 24, 2023 Committee meeting.

Public Comments:
None.

It was moved by Vice Chair Santos and seconded by Director Beall, and unanimously carried that the minutes be approved.

4. REGULAR AGENDA:

4.1. Receive Purified Water Program Update Including Partnerships with Cities of San Jose and Palo Alto and Outreach Efforts on Purified Water.

Recommendation: Receive an update and provide feedback on the following topics:

- A. Collaboration with the City of Palo Alto and other Partners; and
- B. Outreach Efforts on Purified Water.

Kirsten Struve reviewed the information on this item, per the attached Committee Agenda Memo, and per the information contained in Attachment 1.

Public Comments:
Arthur Keller expressed concern about what steps are being taken to address the sea level rise in regard to the Palo Alto Plant.

Kirsten Struve confirmed plans to raise the Palo Alto plant site to the street level of San Antonio Road and adding in flood walls.

The Committee received the information, took no formal action, and noted the following:

Cities of SJ/Santa Clara:

- The Committee noted staff is currently collaborating with city staff on project concepts, preparing the 60-day non-agenda memo in response to Director Beall's request, and applied for a planning grant.
- The Committee noted the importance of having the Purification Center outreach tours and more joint meetings to ensure the partnerships with other public officials to expedite support for future joint agreements and securing funding.
- The Committee noted the next Joint Recycled Water Policy Advisory

Committee (SJ/SC) will occur on September 6, 2023.

- The Committee noted the full Board to be notified of the upcoming Purification Center tour with the Santa Clara Valley Water Commission on August 23, 2023.

4.2. Receive Recycled Water Use Update at Lake Cunningham.

Recommendation: Receive information and provide feedback.

Henry Barrientos reviewed the information on this item, per the attached Committee Agenda Memo, and per the information contained in Attachment 1.

Henry Barrientos, Kirsten Struve, Anthony Fulcher, and Melanie Richardson were available to answer questions.

Public Comments:

Susan Hinton expressed support of including the Santa Clara Valley Native Plant Society in any future Lake Cunningham improvement projects.

The Committee received the information, took no formal action, and noted the following:

- The Committee noted the \$1.5 million designated by the State Budget to the City of San Jose for Lake Cunningham for water quality and lake shoreline improvement.
- The Committee confirmed this Item is not within the scope of the RWC and is to return on the September 6, 2023 Agenda for the Joint Recycled Water Policy Advisory Committee with the Cities of San Jose/Santa Clara for further discussion and direction to recommend to have this Item go on an upcoming Agenda for a Board Joint Meeting with the City of San Jose.

4.3. Receive Urban Runoff Study with Stanford University.

Recommendation: Receive information and provide feedback.

Hossein Ashktorab reviewed the information on this item, per the attached Committee Agenda Memo, and the corresponding presentation materials contained in Attachment 1 were reviewed by Richard Luthy.

Hossein Ashktorab, Bridget Gile, Richard Luthy, and Kirsten Struve were available to answer questions.

Public Comments:

Arthur Keller expressed concern for how stormwater is treated separately from sewer water during the overflow, rainy season to avoid overwhelming the sewer treatment plants in communities where the stormwater and sewer water are combined.

Kirsten Struve confirmed that stormwater and sewer water systems are not combined in Santa Clara County and noted that all the Bay Area cities have green infrastructure plans and are currently implementing such infrastructure to improve the water quality of stormwater before it is discharged to the creeks and Bay.

The Committee received the information and agreed by consensus that this study will be included in a requested future Water Supply Master Plan Update to the full Board without official action.

- 4.4. Receive and Discuss the 2023 Recycled Water Committee Work Plan, Upcoming Discussion Items, and Next Meeting Date.

Recommendation: Receive information on the 2023 Recycled Water Committee Work Plan and provide feedback on upcoming discussions items and next meeting date.

The Committee considered this Item without a staff presentation.

Public Comments:
None.

The Committee confirmed the next regular meeting would be August 23, 2023.

5. CLERK REVIEW AND CLARIFICATION OF COMMITTEE REQUESTS:

This is an opportunity for the Clerk to review and obtain clarification on any formally moved, seconded, and approved requests and recommendations made by the Committee during the meeting.

None.

6. Adjourn:

- 6.1. Adjourn to Regular Meeting at 12:00 p.m. on August 23, 2023.

Chairperson Estremera adjourned the meeting at 11:29 p.m., to the regular meeting at 12:00 p.m. on August 23, 2023, which was subsequently rescheduled to a special meeting at 2:00 p.m. on August 18, 2023.

Nicole Merritt
Assistant Deputy Clerk II

Date Approved:



Santa Clara Valley Water District

File No.: 23-0749

Agenda Date: 8/18/2023

Item No.: 4.1.

COMMITTEE AGENDA MEMORANDUM Recycled Water Committee

Government Code § 84308 Applies: Yes ☐ No ☒
(If "YES" Complete Attachment A - Gov. Code § 84308)

SUBJECT:

Receive Purified Water Program Update Including Partnership with Cities of San Jose and Palo Alto and Provide Feedback.

RECOMMENDATION:

Receive an update and provide feedback on the following topics:

- A. Collaboration with Wastewater Partners
- B. Public Private Partnership
- C. Outreach

SUMMARY:

A. Collaboration with Wastewater Partners

Santa Clara Valley Water District (Valley Water) continues to meet with the City of Palo Alto (Palo Alto) staff to finalize agreements for the proposed future purification facility in Palo Alto, including a lease agreement for the former Los Altos Treatment Plant site as well as the site for the Source Water Pump Station, and an Operations and Maintenance Agreement. Staff meets every two weeks with Palo Alto's Planning Department.

Collaboration with cities and entities along the pipeline route are continuing, including meetings with Santa Clara County Roads and Airports, City of San José and City of Campbell.

Discussions with the Cities of San José and Santa Clara regarding a future project in San José are ongoing. A draft project plan for a Direct Potable Reuse Pilot Demonstration Project was included in the nonagenda packet in July and agendized for the August 8, 2023 Board meeting (Attachment 1). Staff is continuing to develop the proposal, including updating the likely costs and developing a CIP project.

The US Bureau of Reclamation (USBR) announced that the next funding opportunity for the Large-Scale Water Recycling Program should be available in late summer. Valley Water is preparing a

feasibility study to be eligible for funding and getting ready to apply as soon as it is announced.

B. Public Private Partnership

Staff will continue to update the P3 teams on the schedule and provides updates to the data room as needed data becomes available.

C. Outreach Efforts for Purified Water Program

Since the last update, staff continues to host public and private tours at the Purification Center. In the month of June, staff hosted six tours reaching 123 members of the public. Tour groups included the Elfyn Society, a group of retired GE engineers, The City of Palo Alto's Zero Waste Program, SPUR, a conference with the Mountain Counties Water Resources Association, and the Ignited Education organization.

In the month of July, staff participated in a tech showcase with the Mountain View Chamber of Commerce. Staff also assisted with a Desalination and Purified Water workshop, which entailed a tour of the Purification Center. Staff also collaborated with Valley Water 's Human Resources Department to provide a tour of the Purification Center for 50 summer interns. The month ended with a tour for Palo Alto Vice Mayor Stone and Councilmember Veenker.

ENVIRONMENTAL JUSTICE IMPACT:

There are no Environmental Justice impacts associated with this item.

ATTACHMENTS:

Attachment 1: July Non Agenda Item

Attachment 2: PowerPoint

UNCLASSIFIED MANAGER:

Kirsten Struve, 408-630-3138

**MEMORANDUM**

FC 14 (01-25-23)

TO: Board of Directors**FROM:** Aaron Baker
Chief Operating Officer,
Water Utility Enterprise**SUBJECT:** Potable Reuse Project with San José**DATE:** July 5, 2023

In response to the Board of Director's request on May 16, 2023 to develop a plan for a potable reuse project with the San José/Santa Clara Regional Wastewater Facility (RWF), staff has developed a project plan (attached). The proposed Direct Potable Reuse (DPR) Pilot would be a win-win project for Valley Water and the RWF by preparing both agencies for a future DPR project as well as ensuring public and regulatory support.

DocuSigned by:

A handwritten signature in blue ink that reads "Aaron Baker".

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Aaron Baker
Chief Operating Officer
Water Utility Enterprise

Attachment: Direct Potable Reuse Demonstration Pilot Project Plan

Cc:
M. Richardson
B. Yerrapotu
V. Gin
K. Struve



Direct Potable Reuse Pilot Demonstration Project

Purpose

Develop a direct potable reuse (DPR) pilot demonstration facility to assist Valley Water and the Cities of San José and Santa Clara in being prepared for implementation of a future DPR project.

Background on DPR and Associated Regulations

DPR is the delivery of purified water to a drinking water treatment plant or a drinking water distribution system without an environmental buffer (such as groundwater). Additional treatment, monitoring, and/or an engineered buffer(s) would be used in place of an environmental buffer to provide equivalent protection of public health and response time in the event that the purified water does not meet specifications. The California State Water Resources Control Board is in the process of developing regulations for DPR. This process could take about one year to 18 months.

Project Goals and Benefits

The DPR pilot project would assist Valley Water and the Cities in being prepared for implementation of a future DPR project.

- Permitting and meeting regulatory requirements
- Testing and optimizing the processes that will be used in a future full-scale facility
- Investigation of data gaps and informing operation and maintenance (O&M) requirements for a full-scale facility
- Providing the means to promote public outreach/education and potential future use as a water taste test station
- Determine impacts of new treatment train on reverse osmosis (RO) concentrate
- Providing training for operations and maintenance staff

Given the importance of the educational and outreach opportunities for direct potable reuse offered by this project, facility planning may evaluate and review consideration for classroom instruction, conference rooms, laboratory /testing requirements, parking, restrooms, and storage needs.

Project Scope

The project will develop a DPR pilot demonstration facility adjacent to the Silicon Valley Advanced Water Purification Center (SVAWPC), taking from 0.25 to 1 million gallons per day (MGD) of the existing wastewater flow available and treating it through a new treatment train that would be consistent with the draft DPR regulations. There are several potential locations for the new treatment train which include areas in the vicinity of the SVAWPC main process building. The project could be located within the existing fence line or outside depending upon the size and required footprint. For example, the treatment components and other supporting infrastructure may necessitate an area as large as 0.7 acres



Direct Potable Reuse Pilot Demonstration Project

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for a 1 MGD size pilot. The pilot treatment train would include ozone, biological activated carbon (BAC), membrane filtration, reverse osmosis (RO), ultraviolet light/advanced oxidation, and chlorination:



Project Cost

Depending on the size of the flow and the type of building that would be used, the cost is estimated to range from \$6 million (size of 0.25 MGD) to \$25 million (size of 1.0 MGD) for the design and construction and approximately \$1 million per year for operation and maintenance support.

Project Requirements

- The project requires review of the existing lease agreement with the City of San José to evaluate if amendment is needed.
- The project requires review of the current Integration Agreement with the City to ensure the DPR pilot is consistent.
- Permit for building construction from the City of San José Planning Department.
- CEQA compliance.
- Title 22 permitting will allow the water from the demonstration facility to be blended with current non-potable recycled water (would depend on the size of the pilot facility).

Implementation Milestones (2023 – 2026)

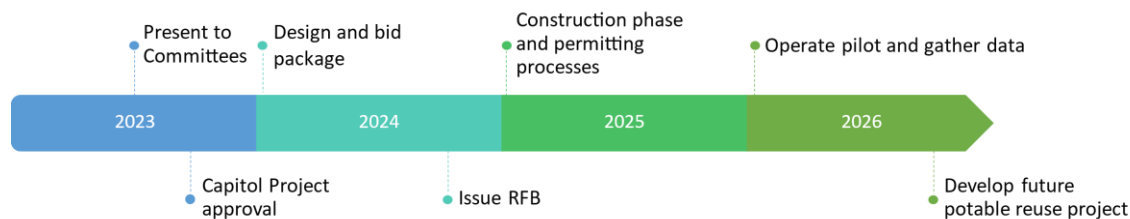
- Coordination with San José and Santa Clara on needed agreements (current efforts).
- Present concept for DPR pilot and obtain feedback from the Recycled Water Committee (RWC). (2023 - 3rd Quarter)
- Present concept for DPR pilot and obtain feedback to/from the Joint Recycled Water Policy Advisory Committee (JRWPAC). (2023 - 3rd Quarter)
- Submit DPR Pilot into Capital Program process for Board Review and approval (2023 - 4th Quarter).
- Upon approval as a capital project work with a consultant to implement the design and bid package which would include the Engineer's Estimate for Construction (2024).
- Perform CEQA analysis.
- Upon completion of design, issue request for bid (RFB) for construction (2024).
- Construction phase and permitting processes (2025).
- Operate pilot plant (starting in 2026).

Direct Potable Reuse Pilot Demonstration Project

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June 2023

- Use the results of the pilot to develop a future potable reuse project with the Cities and obtain regulatory approvals (2026 and beyond).



Attachment:

Benchmarking with Peer Agencies

Figure 1: Las Virgenes-Triunfo Pure Water Demonstration Facility

Figure 2: East County Advanced Water Purification Program (Padre Dam)

Figure 3 & 4: Metropolitan Water District of Southern California and Los Angeles County Sanitation Districts

Figure 5: City of San Diego Pure Water Program – Demonstration Pure Water Facility

Figure 6: Hampton Roads Sanitation District

Attachment: Benchmarking with Peer Agencies

Benchmarking with Peer Agencies

The following are images of DPR pilot facilities from other agencies.



Figures 1: Las Virgenes-Triunfo Pure Water Demonstration Facility
Size: 0.14 MGD, Cost: \$6M



Figure 2: East County Advanced Water Purification Program (Padre Dam)
Size: 0.1 MGD, Cost: \$6.5M

Direct Potable Reuse Pilot Demonstration Project

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Figures 3 & 4: Metropolitan Water District of Southern California and Los Angeles County Sanitation Districts

Size: 0.5 MGD, Cost: \$20M



Figure 5: City of San Diego Pure Water Program – Demonstration Pure Water Facility

Size: 1.0 MGD, Cost: \$25M

Direct Potable Reuse Pilot Demonstration Project

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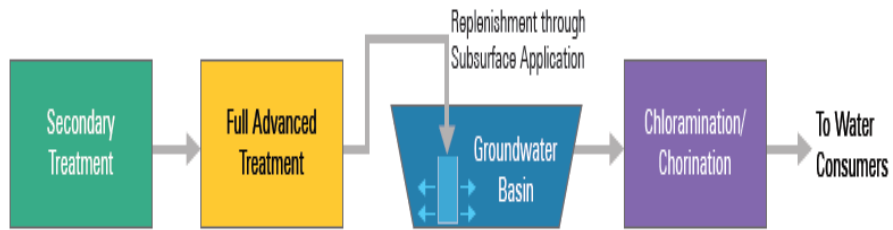
June 2023



Figure 6: Hampton Roads Sanitation District

Size: 1.0 MGD, Cost: \$30M

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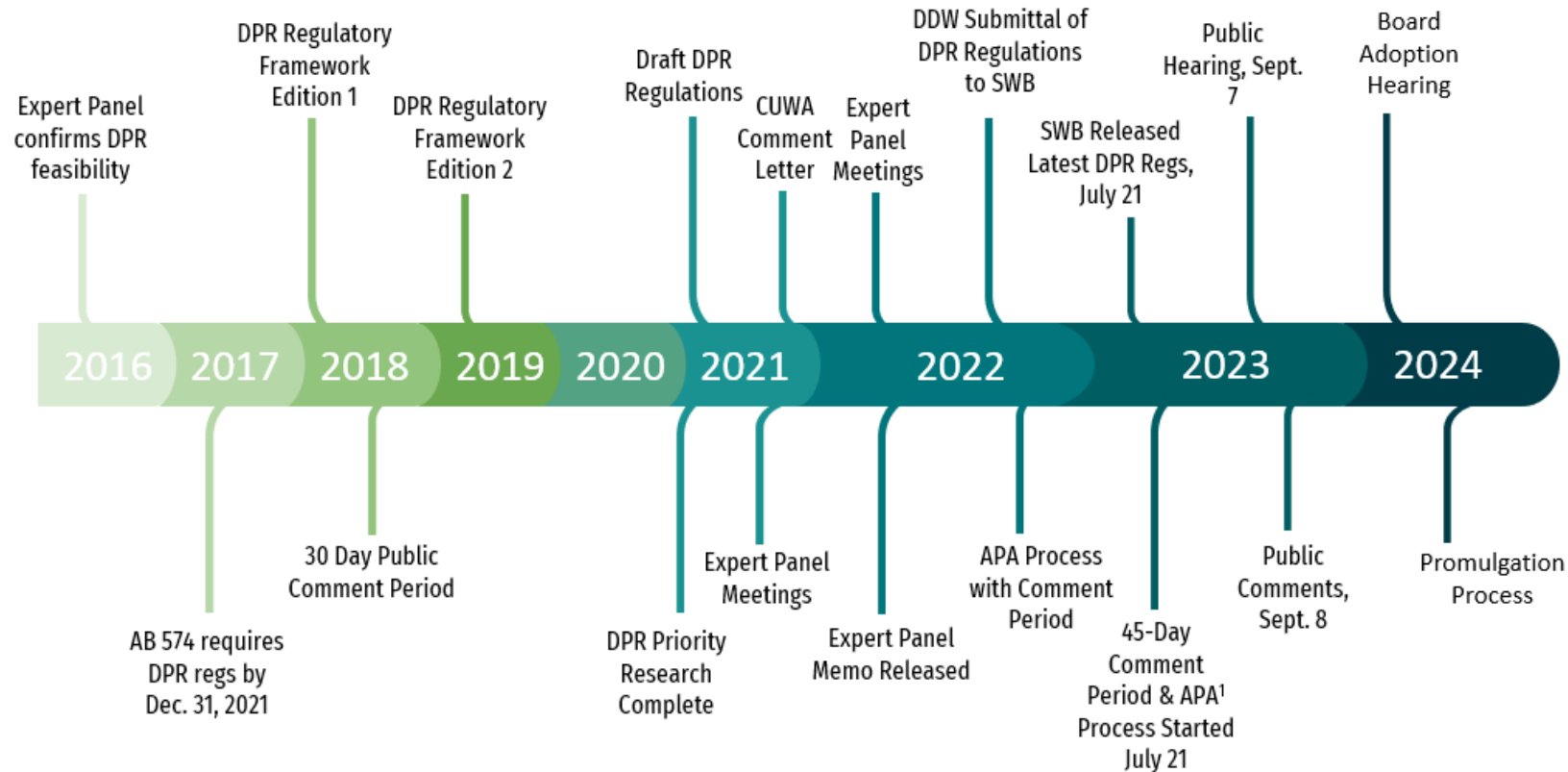


Direct Potable Reuse Pilot and New Draft Regulations

Recycled Water Committee
August 18, 2023

Upcoming DPR Regulations

2



¹APA = Administrative Procedures Act

DPR Pilot Demonstration Project

3

Collaboration between Valley Water and the Cities of San José and Santa Clara:

- Permitting and meeting regulatory requirements
- Testing and optimizing the processes for a future full-scale facility
- Investigation of data gaps and informing operation and maintenance requirements for a full-scale facility
- Determining the impacts of new treatment train on reverse osmosis (RO) concentrate
- Providing training for operations and maintenance staff
- Public outreach/education and potential future use as a water taste test station

Pilot / Demonstration Projects

4



Metropolitan Water District of Southern California
and Los Angeles County Sanitation Districts



Hampton Roads Sanitation District



City of San Diego Pure Water Program –
Demonstration Pure Water Facility



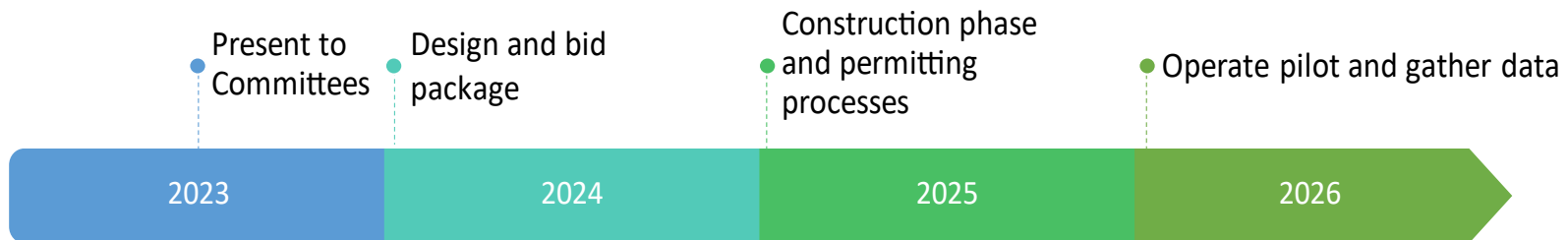
Las Virgenes-Triunfo Pure Water Demonstration Facility



East County Advanced Water Purification Program
(Padre Dam)

DPR Pilot Project Schedule & Cost

- Built adjacent to SVAWPC
- Timeline of 3-5 years
- Benchmarking with other agencies was \$6 million (size of 0.1 MGD) to \$25 million (size of 1.0 MGD) for the design and construction, will need additional analysis
- Current estimate for CIP process: \$42M with \$2M operating cost.



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Santa Clara Valley Water District

File No.: 23-0750

Agenda Date: 8/18/2023

Item No.: 4.2.

COMMITTEE AGENDA MEMORANDUM Recycled Water Committee

Government Code § 84308 Applies: Yes ☐ No ☒
(If "YES" Complete Attachment A - Gov. Code § 84308)

SUBJECT:

Receive the 7th Independent Advisory Panel Meeting Update for Evaluation of Valley Water's Purified Water Program.

RECOMMENDATION:

Receive information on the 7th meeting of the Independent Advisory Panel for evaluation of Valley Water's Purified Water Program.

SUMMARY:

In 2012, Valley Water contracted with the National Water Research Institute (NWRI) to establish an Independent Advisory Panel (IAP) of water reuse academics, industry leaders, and regulatory experts to review and provide feedback on Valley Water's developing Purified Water Program. Since then, the IAP has met several times to review technical materials and provide recommendations on program developments. The next to last IAP meeting, Meeting #6, was held on July 29, 2020.

NWRI established the Independent Advisory Panel Program to provide objective, third-party scientific review of projects or programs within the water and wastewater communities. NWRI Panels are used by public agencies, state agencies, and companies when a project involves challenging issues that would benefit from having an independent third-party scientific and technical review by national experts.

During the 7th IAP meeting on June 21st, 2023, Valley Water staff presented to the Panel on efforts undertaken since the last meeting, including:

- General Update on the Proposed Purified Water Project in Palo Alto
- Treatment Trains and Direct Potable Reuse Readiness
- Groundwater Basin Studies and Reverse Osmosis Concentrate Management (ROCM) Progress; and
- Outreach Efforts

The Panel's input and comments on these efforts are being finalized and expected to be delivered to

Valley Water staff by September 2023. Meanwhile, a preliminary feedback report has been received from the Panel. Based on the information furnished to the Panel before the meeting, the presentations, and responses to Panel questions during the meeting on June 21, 2023, the following input have been provided:

1. Completion of the project by the planned date of late 2028/early 2029, appears optimistic due to its complexity.
2. Clarifying responsibilities for what tasks the City of Palo Alto, Valley Water, and the P3 contractor team will be responsible for in the planning stage of the project is key to the financial, technical, and regulatory viability of the project.
3. The Panel encourages Valley Water to continue discussing project options with the City of San Jose; however, it recognizes that the immediate focus of reuse efforts will be the City of Palo Alto P3 project.

Staff agrees with these conclusions and is actively working to address these issues, including ensuring the schedule stays on track. At the IAP meeting, the panel commended Valley Water for the comprehensive outreach program and expressed enthusiasm for the Palo Alto project.

In addition, the Panel has provided important detailed feedback and recommendations in the following areas:

- Water Quality Monitoring,
- Project Permitting Approach,
- Treatment Train and Attaining Reduction in Pathogen Concentrations,
- RO Concentrate Management,
- Tracer Study and Groundwater Studies, and
- Public Outreach

Staff will present a more detailed and comprehensive update to the Committee after the IAP's final report is received.

ENVIRONMENTAL JUSTICE IMPACT:

There are no Environmental Justice impacts associated with this item.

ATTACHMENTS:

Attachment 1: PowerPoint

UNCLASSIFIED MANAGER:

Kirsten Struve, 408-630-3138

Update on the 7th Independent Advisory Panel Meeting (June 21st, 2023)



Recycled Water Committee
Aug. 18, 2023

INDEPENDENT ADVISORY PANEL (IAP)

Chair: James Crook
Environmental Engineering Consultant

Katherine Cushing
San Jose State University

Jean Moran
California State University East Bay

Adam Olivieri
EOA, Inc.

Mehul Patel
Orange County Water District

Shane Snyder
University of Arizona

Rupam Soni
Metropolitan Water District of Southern California

Sunny Wang
City of Santa Monica

Attachment 1
Page 1 of 3

Independent Advisory Panel Meeting #7

Valley Water Staff presented the following topics:

- General Update on the Proposed Purified Water Project in Palo Alto
- Treatment Trains and Direct Potable Reuse readiness
- Groundwater Basin Studies and Reverse Osmosis Concentrate Management (ROCM) progress
- Outreach Efforts



Independent Advisory Panel Meeting #7

IAP will be finalizing their report with the focus on:

- Water Quality Monitoring
- Project Permitting Approach
- Treatment Train and Attaining LRVs
- RO Concentrate Management
- Tracer Study and Groundwater Studies
- Public Outreach



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Santa Clara Valley Water District

File No.: 23-0752

Agenda Date: 8/18/2023

Item No.: 4.3.

COMMITTEE AGENDA MEMORANDUM Recycled Water Committee

Government Code § 84308 Applies: Yes ☐ No ☒
(If "YES" Complete Attachment A - Gov. Code § 84308)

SUBJECT:

Receive South Santa Clara County Water Reuse Collaboration Update and Provide Feedback.

RECOMMENDATION:

Receive an update on Technical Work Group discussions and provide feedback.

SUMMARY:

This update will summarize the Technical Working Group's (TWG) recent discussions related to South County Water Reuse Collaborations:

- South County Water Reuse Interagency Agreements, and
- South County Recycled Water Master Planning.

Since 1999, the Santa Clara Valley Water District (Valley Water), the South County Water Resources Authority (SCRWA), the City of Gilroy (Gilroy), and the City of Morgan Hill (Morgan Hill) have demonstrated a long history of collaboration to carry on the utilization and expansion of non-potable water recycling in South County. In August 2017, Valley Water established the Joint Water Resources Committee (JWRC) with elected officials representing the Cities of Gilroy and Morgan Hill to pursue collaborative relationships and agreements to support future water reuse expansion. In August 2021, the JWRC recommended the establishment of a TWG to evaluate the opportunities and constraints of:

- One Comprehensive Water Reuse Agreement,
- Consistent water reuse terms and conditions countywide,
- Provisions to advance water reuse and purified water production, distribution, and wholesaling, and
- Cost sharing accords to integrate water conservation, water reuse, and water supply.

The TWG has been meeting approximately monthly since September 2021, and includes staff from Gilroy, Morgan Hill, and Valley Water. The Recycled Water Committee has previously received

workgroup updates in December, March and September 2022; and April 2023 that have presented our interagency collaborations to advance South County water recycling. Staff has also discussed the feedback which has been received from the JWRC on the TWG's activities.

This update will present a discussion of our ongoing efforts to revise the interagency agreements supporting non-potable water reuse in South County; and will highlight recent discussions with the City of Gilroy to modify these agreements promoting water reuse and the roles and responsibilities for Valley Water, Gilroy, and SCRWA. Staff will discuss the TWGs progress to update the 2015 South County Recycled Water Master Plan, which will include the current system inventory, updated customer demands, potential new users, and potential future system upgrades. Lastly, the discussion will highlight current capital construction that supports expansion of water reuse in South County, and greatly enhances system flexibility and redundancy.

ENVIRONMENTAL JUSTICE IMPACT:

There are no Environmental Justice impacts associated with this item.

ATTACHMENTS:

None.

UNCLASSIFIED MANAGER:

Kirsten Struve, 408-630-3138



Santa Clara Valley Water District

File No.: 23-0695

Agenda Date: 8/18/2023

Item No.: 4.4.

COMMITTEE AGENDA MEMORANDUM Recycled Water Committee

Government Code § 84308 Applies: Yes ☐ No ☒
(If "YES" Complete Attachment A - Gov. Code § 84308)

SUBJECT:

Receive State and Federal Grant Opportunities Update for Recycled Water Projects.

RECOMMENDATION:

Receive State and Federal Grant Opportunities Update for Recycled Water Projects.

SUMMARY:

The Recycled Water Committee requested an update on existing recycled water grant funding and potential future funding at the state and federal levels. There is currently one program at the state level that offers grant funding for recycled water projects. The Water Recycling Funding Program at the State Water Resources Control Board (Water Board) provides grant opportunities for projects that offset or augment state or local fresh water supplies and water recycling research. At the federal level, there are two primary grant programs for recycled water projects, both administered by the Bureau of Reclamation (Reclamation), including the Title XVI Water Reclamation and Reuse Program and the new Large-Scale Water Recycling Program. The details and status of each of the three programs are detailed below.

Water Board's Water Recycling Funding Program

The Water Board's Division of Financial Assistance administers the Water Recycling Funding Program (WRFP), which supports the Water Board's Water Recycling Policy. It funds water recycling projects that offset or augment state or local freshwater supplies and water recycling research. Project eligibility may vary based on the funding sources available when a project is at a funding stage, such as bonds, the state budget, or federal funding. While funding for the WRFP is appropriated for the general purpose of water recycling, in some cases, a bond or legislation may include specific requirements. To ensure the funding is awarded as required, specific requirements are implemented through guidelines adopted by the Water Board.

The 2021-2022 and 2022-2023 state budgets appropriated \$260 million for water recycling, and the

current state budget for 2023-2024 appropriated only \$32 million for water recycling. The Legislature's budget sent to the Governor originally included \$300 million but was significantly reduced after negotiations with the Governor that reduced expenditures to address the \$30 billion budget shortfall.

For the current fiscal year, the Water Board is expected to make available approximately \$231.4 million in grant funds for WRFP construction projects and \$22.3 million in planning grants, with a maximum grant amount of \$15 million.

There are currently 31 projects from agencies throughout the state requesting a total of \$584 million in loans and grants under the Clean Water State Revolving Loan Fund (CWSRF). The 31 projects will receive a mix of CWSRF loans and up to \$15 million in WRFP grants if they meet the eligibility criteria. Santa Clara Valley Water District (Valley Water) has not pursued CWSRF funds because our credit rating allows for better loan terms on the open market, and the loan terms are not flexible, which could have very negative effects on our overall debt portfolio.) There are also an additional eight water recycling projects requesting \$178 million in WRFP grants. Considering the demand for available funding, the Water Board expects all currently available funds to be committed to projects by June 30, 2024.

Valley Water does not have any current pending WRFP applications. An application for the Purified Water Project in partnership with the City of Palo Alto for the WRFP construction grant will be considered once the project is further along in the design process and closer to construction. Valley Water has successfully applied for and was awarded \$5.5 million in WRFP funding in the past for the Silicon Valley Advanced Water Purification Center, which was completed in 2014. Valley Water also secured a \$250,000 WRFP research grant to investigate the efficacy of ozone and engineered open-water treatment in removing contaminants from the treatment concentrate that would be discharged as part of the water recycling treatment process to the San Francisco Bay.

Potential 2024 State Bond Measures

There are currently two measures moving through the legislative process proposing climate resilience bonds of about \$15 billion each: AB 1567 (Garcia) and SB 867 (Allen), which include funding for water, wildfire, flood protection, heat mitigation, clean energy, and workforce development. Both measures currently include \$300 million for water recycling. At the time of this writing, there has yet to be a clear direction on whether the bonds will target the March Primary or November 2024 elections.

AB 1567 includes language establishing some priorities for recycled water projects, such as cost-effectiveness, population served, partnership projects, reduction of reliance on the Delta, inclusion of advanced technology, and energy efficiency. SB 867 would fund the WRFP without additional direction, limitation, or prioritization.

Water recycling funding is one of Valley Waters' highest funding priorities, and we have vigorously advocated for historically large state investments in recycled water projects through the bonds and the state budget. Valley Water also has worked through its membership organizations to advocate for

significant funding through WateReuse, the Association of California Water Agencies, the California Municipal Utilities Association, and the Bay Area Council. Notably, WateReuse is advocating for \$1.8 billion in funding

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Water recycling funding is one of Valley Waters' highest funding priorities, and we have vigorously advocated for historically large state investments in recycled water projects through the bonds and the state budget. Valley Water also has worked through its membership organizations to advocate for significant funding, including through WaterReuse, the Association of California Water Agencies, the California Municipal Utilities Association, and the Bay Area Council. Notably, WaterReuse is advocating for \$1.8 billion in funding due to the WRFP grant demand. The current goals of the Water Board are to increase recycled water from 714,000 acre-feet per year in 2015 to 2.5 million by 2030. A 2018 report by the Water Board's Division of Financial Assistance estimated that the total cost of implementing the state's WRFP could be as high as \$26 billion over the next 30 years.

There are other bond bills that are focused on flood protection and dam safety, and together with AB 1567 and SB 867, are all competing for inclusion in a climate resilience bond for 2024. Valley Water staff continue to advocate for a large allocation to recycled water both at the state program level by supporting the \$1.8 billion WaterReuse ask, and through a separate effort to secure a \$183 million earmark for Valley Water's Purified Water Project.

U.S. Bureau of Reclamation Recycled Water Programs

The Title XVI Water Reclamation and Reuse Program provides competitive grant funds to projects with a maximum award of \$30 million, and the program typically receives annual appropriations around \$65 million. The new Large-Scale Water Recycling Program was created under the Bipartisan Infrastructure Law (BIL) to fund projects with a minimum project cost of \$500 million but with no specific award cap (beyond the maximum federal investment of 25% of the project cost). The

program received \$450 million under the BIL.

In January of this year, Reclamation released a Notice of Funding Opportunity (NOFO) for planning and pre-construction activities under the Title XVI and the new Large-Scale programs. Valley Water submitted two applications for planning funds under the Title XVI Program, one for a potential San José project and one to study water recycling potential in South County. Valley Water is developing a feasibility study for the proposed Purified Water Project in Palo Alto to take advantage of the construction funding under the Large-Scale program.

Reclamation must review and approve all feasibility studies before a project can be eligible for construction funding under either the Title XVI Program or the Large-Scale Program. Reclamation has indicated that they intend to issue a NOFO for construction activities under the large-scale program later this year or early next year, and it is staff's expectation that Valley Water will apply for those construction funds if Reclamation approves the feasibility study now underway.

Opportunities for Future Federal Funding

Valley Water advocates for additional funding for the Title XVI Program and the Large-Scale Program, both of which are (or will be) oversubscribed in any given year. Valley Water works closely with our coalition partners (WateReuse, Association of California Water Agencies, American Water Works Association, and more) at the federal level to seek increased funding for both programs and authorize new grant programs.

One such program is the new Pilot Program for Alternative Water Source Grants, administered by the Environmental Protection Agency, to fund recycled water projects nationwide - the first such recycled water grant program. The program has yet to receive funding, but the House recently proposed to appropriate \$3 million in FY24.

While the outlook for FY24 appropriations is uncertain given the political gridlock in Congress, Valley Water will nevertheless continue to advocate for increased funding for this program and Reclamation grant programs in FY24 and beyond.

ENVIRONMENTAL JUSTICE IMPACT:

There are no Environmental Justice impacts associated with this informational item.

ATTACHMENTS:

None.

UNCLASSIFIED MANAGER:

Marta Lugo, 408-630-2237

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Santa Clara Valley Water District

File No.: 23-0815

Agenda Date: 8/18/2023

Item No.: 4.5.

COMMITTEE AGENDA MEMORANDUM Recycled Water Committee

Government Code § 84308 Applies: Yes ☐ No ☒
(If "YES" Complete Attachment A - Gov. Code § 84308)

SUBJECT:

Receive and Discuss the 2023 Recycled Water Committee Work Plan, Upcoming Discussion Items, and Upcoming Meeting Dates - Possible Combined Meeting Date for November and December 2023.

RECOMMENDATION:

Receive information on the 2023 Recycled Water Committee Work Plan, and provide feedback on upcoming discussion items and next meeting dates - possible combined meeting date for November and December 2023.

SUMMARY:

Under direction of the Clerk, Work Plans are used by all Board Committees to increase Committee efficiency, provide increased public notice of intended Committee discussions, and enable improved follow-up by staff. Work Plans are dynamic documents managed by Committee Chairs and are subject to change.

At the February 22, 2023 meeting, the Committee approved the 2023 work plan that has agenda items necessary for the continuation of the recycled water projects. An updated 2023 work plan (Attachment 1) proposes changes for the remaining meetings in the year.

Staff solicits Committee feedback on any additional timeline information for holding discussions on the assigned Work Plan items, and confirmation of the next meeting dates.

ENVIRONMENTAL JUSTICE IMPACT:

There are no Environmental Justice impacts associated with this item.

ATTACHMENTS:

File No.: 23-0815

Agenda Date: 8/18/2023
Item No.: 4.5.

Attachment 1: 2023 Revised Work Plan

UNCLASSIFIED MANAGER:
Kirsten Struve, 408-630-3138

PROPOSED RWC 2023 WORK PLAN

Task	Agenda Item	January	February	March	April	May	June	July	August	September	October	November	December				
FY 23 Tactic 1: Advance the Purified Water Program by releasing an RFP for at least one locally-sponsored		CANCELED			CANCELED			RECESS									
1.1	Update on Purified Water Program including Partnership with Cities of San Jose and Palo Alto.		X	X		X	X		X	X	X	X	X				
1.2	Update on Public Private Partnership [P3] Procurement.		X	X		X	X		X	X	X	X	X				
FY 23 Tactic 2: Implement the Countywide Water Reuse Master Plan.																	
2.1	Implement the Countywide Water Reuse Master Plan (Core Plan)								X								
2.2	Joint Mtg Prep/Debrief: Joint Recycled Water Policy Advisory Committee			X					X								
2.3	Joint Mtg Prep/Debrief: Cities of Palo Alto/Mtn View.																
2.4	Joint Mtg Prep/Debrief: City of Sunnyvale.																
2.5	Update on SFPUC/BAWSCA Collaboration Efforts.																
2.6	Independent Advisory Panel.								X			X					
FY 23 Tactic 3: Continue to actively be involved with Direct Potable Reuse (DPR) guidance and implement																	
3.1	Actively Engage in Direct Potable Reuse											X					
FY 23 Tactic 4: Develop a Comprehensive Water Reuse Agreement for South County to advance water																	
4.1	South Santa Clara County Water Reuse Collaboration.								X			X					
FY 23 Tactic 5: Continue to monitor feasibility of desalination.																	
5.1	Continue to monitor feasibility of desalination.			X											X		
Others																	
6.1	Continue collaboration on the Silicon Valley Advanced Water Purification Center including building a strong collaborative relationship with the San Jose-Santa Clara Regional Wastewater Facility to expand the facility.		X									X				X	
6.2	Regional discussion on options : Feasibility analysis of Recycled Water Exchange with Contra Costa Water District and Central Contra Costa Sanitary District and feasibility of desalination.		X													X	
6.3	Update on Bottling Purified and water tasting station at the SVAWPC.								X								
6.4	Urban Runoff Study with Stanford University.									X							
6.5	Outreach Efforts.																
6.6	Potential Amount of Wastewater for Water Reuse.								X						X		

*Blue strikes - items added on updated work plan

*Red strikes - items deleted from current work plan

** Being updated/removed in FY23 Board Work Plan

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