



## **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**

**Wednesday, July 31, 2024  
12:00 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

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KIRSTEN STRUVE  
Committee Liaison

NICOLE MERRITT  
Assistant Deputy Clerk II  
Office/Clerk of the Board  
(408) 630-3262  
[nmerritt@valleywater.org](mailto: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**

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5700 Almaden Expressway, San Jose, CA 95118

Join Zoom Meeting:  
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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.

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**<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/Committee Chair in the order requests are received and granted speaking access to address the Board/Committee. Speakers' comments should be limited to three minutes or as set by the Chair. The law does not permit Board/Committee action on, or extended discussion of, any item not on the agenda except under special circumstances. If Board/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 Board/Committee may take action on any item of business appearing on the posted agenda.*

**3. APPROVAL OF MINUTES:**

- 3.1. Approval of May 22, 2024 Recycled Water Committee Minutes. [24-0681](#)

Recommendation: Approve the minutes.

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

Attachments: [Attachment 1: 052224 RWC Meeting Minutes](#)

Est. Staff Time: 5 Minutes

#### 4. REGULAR AGENDA:

- 4.1. Receive Purified Water Program Update including Partnerships with the Cities of San Jose and Santa Clara and Provide Feedback. [24-0638](#)

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

- A. Collaboration effort with cities of San Jose and Santa Clara on Phase 1 demonstration facility and full-scale direct potable reuse facility at the Silicon Valley Advanced Water Purification Center
- B. Technical analysis and Consultant agreements; and
- C. Outreach

Manager: Kirsten Struve, 408-630-3138

Est. Staff Time: 5 Minutes

- 4.2. Discuss Recycled Water Goal for the Water Supply Master Plan (WSMP) and Recommend to Valley Water's Board a Water Reuse Goal for WSMP 2050. [24-0683](#)

Recommendation: A. Discuss foundation for prior Committee recommendation to Valley Water's Board of Directors for a potable reuse goal of 24,000 Acre Feet per Year (AFY) by 2035 and a long-term vision to maximize water reuse in the county, including additional potable and non-potable reuse, desalination, stormwater capture, and other alternative water supply sources for inclusion in the WSMP 2050;

- B. Make a recommendation on a water reuse goal for the WSMP 2050 to Valley Water's Board of Directors.

Manager: Kirsten Struve, 408-630-3138

Attachments: [Attachment 1: Alternative Water Supply Project Costs](#)  
[Attachment 2: Water Supply Master Plan 2050 Portfolios](#)

Est. Staff Time: 10 Minutes

- 4.3. Receive and Discuss the 2024 Recycled Water Committee (RWC) Work Plan, and Provide Feedback on Upcoming Discussion Items, and Upcoming Meeting Date.

[24-0680](#)

Recommendation: Receive information on the 2024 RWC Work Plan, and provide feedback on upcoming discussion items and next meeting date.

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

Attachments: [Attachment 1: 2024 Revised RWC 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 August 28, 2024.

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# Santa Clara Valley Water District

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**File No.:** 24-0681

**Agenda Date:** 7/31/2024  
**Item No.:** 3.1.

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## COMMITTEE AGENDA MEMORANDUM Recycled Water Committee

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

### SUBJECT:

Approval of May 22, 2024 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 AND EQUITY IMPACT:

The approval of minutes is not subject to environmental justice analysis.

### ATTACHMENTS:

Attachment 1: 052224 RWC Meeting Minutes

### UNCLASSIFIED MANAGER:

Candice Kwok-Smith, 408-630-3193

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RECYCLED WATER COMMITTEE MEETING

# DRAFT MINUTES

**REGULAR MEETING  
WEDNESDAY, MAY 22, 2024  
12:00 PM**

(Paragraph numbers coincide with agenda item numbers)

**1. CALL TO ORDER:**

A regular 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 12:00 p.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, Gina Adriano, Karen Adriano, Antonio Alfaro, Hossein Ashktorab, Aaron Baker, Henry Barrientos, Nastaran Basiri, Lakeisha Bryant, Rita Chan, Jiana Escobar, Rachael Gibson, Walter Gonzalez, Zachary Helsley, Lei Hong, Brian Hopper, Diahann Hudson, Girlie Jacobson, Michele King, Emelia Lamas, Marta Lugo, Nicole Merritt, Carlos Orellana, Leslie Orta, Stephanie Simunic, Kirsten Struve, Charlene Sun, Darin Taylor, Kristen Yasukawa, and Beckie Zisser.

Public in attendance were: Valley Water Director Rebecca Eisenberg, (District 7), C, Phillippe Daniel, (Liquisti LLC.), Jan Davel (CDM Smith), Jason, Jeff, Pedro Hernandez (City of San Jose), iPhone (58), Katja Irvin (Sierra Club), Arthur Keller (Minerva Consulting), Jim Kuhl, Eileen McLaughlin (Citizens Committee to Complete the Refuge), Shilpa Mehta (City of Santa Clara), XXX-XXX-3025, 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 March 27, 2024 Recycled Water Committee Meeting Minutes.**

Recommendation: Approve the minutes.

The Committee considered the attached minutes of the March 27, 2024 Committee meeting.

Public Comments:  
None.

It was moved by Vice Chairperson 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 Santa Clara and Provide Feedback.**

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

- A. Collaboration effort with the Cities of San Jose and Santa Clara
- B. Development of a roadmap
- C. Update on consultant agreements; and
- D. Outreach

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

Kirsten Struve was available to answer questions.

Public Comments:  
Arthur Keller requested confirmation if the San Jose project area was subject to flooding per sea level rise and how the perfluoroalkyl/polyfluoroalkyl substances (PFAS) can be removed from recycled water.

Kirsten Struve confirmed the project area is in a flood plain and would need protections to meet flood standards, and noted staff has completed many studies confirming the purification process removes PFAS and are currently working to address the reverse osmosis (RO) concentrate.

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

- The Committee confirmed the significance of hiring new staff with the City of San Jose to assist with the modification of agreements, obtaining data/information, and working with regulators regarding DPR.
- The Committee noted continued support for expediting timelines, and execution of agreements, and noted staff's goal to be in the design phase by next year for the demonstration facility.
- The Committee noted support for a response letter to the City of San Jose Mayor Matt Mahan regarding Valley Water's investment and support for accelerating the San Jose Purified Water project.

##### **4.2. Receive an Update on Valley Water's Efforts to Actively Engage in Direct Potable Reuse (DPR.)**

Recommendation: Receive an update on DPR regulations and DPR Workshop.

Hossein Ashktorab reviewed the information on this item, per the attached Committee Agenda Memo.

Hossein Ashktorab was available to answer questions.

Public Comments:  
None.

The Committee received the information, took no formal action, and noted the successful DPR workshop hosted by Valley Water on May 10, 2024.

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

Recommendation: Receive an update and provide feedback on South Santa Clara County Water Reuse Collaboration.

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

Hossein Ashktorab and Kirsten Struve were available to answer questions.

Public Comments:  
None.

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

- The Committee confirmed that the 2024 Plan Capital Improvement Program (CIP) Recommendations map noted on Page 4 of 7 in Attachment 1 is contained within the City of Gilroy limits and the urban areas service boundary except for the service at the South County Wastewater Authority (SCRWA) facility.
- Director Beall requested for the general plan map to be overlaid on the 2024 CIP Recommendations map on Page 4 to clarify the urban planning regulation and growth boundaries.
- The Committee noted support for any financing to be a collaboration effort and for the continued positive partnership in South County.

4.4. Receive the Desalination Engineering Feasibility Study Update.

Recommendation: Receive an update on the procurement process for a desalination engineering feasibility study and discuss next steps.

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

Henry Barrientos and Kirsten Struve were available to answer questions.

Public Comments:

Jim Kuhl expressed support for establishing benchmarking for comparative purposes to understand potential and future achievements and noted the Carlsbad plant and San Diego plants as options.

Eileen McLaughlin expressed interest in being involved to provide stakeholder feedback and to review past reports and noted support of workshops for desalination outreach.

Katja Irvin expressed support for outreach for the desalination feasibility study to include feedback from various environmental groups.

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

- The Committee confirmed the regional project with Contra Costa County is still a potential back up project, but water rights issues are an obstacle.
- The Committee confirmed some of the other local areas evaluating potential desalination options are the North Bay: Marin County and Monterey County.
- The Committee noted the planning is continuing for the upcoming desalination plants tour and confirmed the inclusion of the community and stakeholder outreach component for the desalination feasibility study.

4.5. Receive Update on the Bottling Purified Water Tasting Station at the Silicon Valley Advanced Water Purification Center.

Recommendation: Receive information on efforts to bottle advanced purified water for demonstration and outreach purposes.

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

Zachary Helsley was available to answer questions.

Public Comments:

None.

The Committee received the information, took no formal action, and noted appreciation for staff's work to produce 16,000 bottles of purified water, and staff's efforts to receive approval from the California Department of Public Health (CDPH) and the State Water Resources Control Board Division of Drinking Water (DDW) to distribute the bottles of purified water for education and outreach purposes.

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

Recommendation: Receive an update on federal and state grant opportunities for recycled water projects.

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

Marta Lugo, Antonio Alfaro, and Beckie Zisser were available to answer questions.

Public Comments:  
None.

The Committee received and noted the information and took no formal action.

- 4.7. Receive and Discuss the 2024 Proposed Recycled Water Committee Work Plan, And Provide Feedback on Upcoming Discussion Items, and Upcoming Meeting Date.

Recommendation: Receive information on the 2024 RWC Work Plan, and provide feedback on upcoming discussion items and next meeting date.

The Committee considered this item without a staff presentation.

Kirsten Struve was available to answer questions.

Public Comment:  
None.

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

- The Committee noted support for staff's request to cancel the RWC June 26, 2024 regular meeting.

**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 June 26, 2024.

Chairperson Estremera adjourned the meeting at 1:34 p.m., to the special meeting at 12:00 p.m. on July 31, 2024 per the Committee supporting the cancellation of the June meeting.

Nicole Merritt  
Assistant Deputy Clerk II

Date Approved:

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# Santa Clara Valley Water District

**File No.:** 24-0638

**Agenda Date:** 7/31/2024

**Item No.:** 4.1.

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## 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 Partnerships with the Cities of San Jose and Santa Clara and Provide Feedback.

### RECOMMENDATION:

Receive an update and provide feedback on the following topics:

- A. Collaboration effort with cities of San Jose and Santa Clara on Phase 1 demonstration facility and full-scale direct potable reuse facility at the Silicon Valley Advanced Water Purification Center
- B. Technical analysis and Consultant agreements; and
- C. Outreach

### SUMMARY:

#### A. Collaboration with Cities

Valley Water and the Cities of San José and Santa Clara have continued to work on developing a staff funding agreement. The City of San José has created and staffed a new Deputy Director of Purified Water and Regulatory Affairs role. This role will lead the City's collaboration with Valley Water on the region's first Direct Potable Reuse project and a portion of this role will be funded with the staff funding agreement being developed. Next steps will include identifying key decisions, establishing milestones and highlighting policy issues requiring Committee discussion.

Staff from the City and Valley Water are collaborating with the San Francisco Bay Regional Water Quality Control Board (Water Board) on a strategy for Reverse Osmosis Concentrate management that is effective and protective of the environment.

In addition, City of San José staff and Valley Water are collaborating on the need for an access road to a future Microsoft data center which is planned on private property adjacent to the Silicon Valley Advanced Water Purification Center. This project will include moving the existing Visitor Center

trailer to a new location.

## **B. Technical Analysis and Consultant Agreements**

Valley Water is currently processing a contract amendment with CDM Smith, the Project Management Company (PMC) for the Purified Water Project (PWP), to provide project management services related to the San José Purified Water Project (SJPWP) as well as Environmental Science Associates (ESA) for CEQA assistance. The agreements are being amended to reflect changes to the PWP as directed by the Board of Directors at the February 27, 2024, meeting when the Palo Alto PWP was placed on the CIP unfunded list. The amendments will reflect the necessary changes to focus efforts on the SJPWP including both the Phase I San Jose Direct Potable Reuse (DPR) demonstration facility and initial planning of the future full scale DPR facility. Staff updated the CIP committee on these two agreements.

Technical analysis are ongoing including:

- Evaluating options for connecting the future Full-Scale Facility into the water supply system, including evaluating cost, infrastructure, and operational constraints.
- Developing a thorough understanding of studies and data required to meet the DPR regulations with associated timelines.
- Evaluating options to accelerate the timeline by phasing the demonstration facility and collecting essential data on a smaller scale earlier.
- Evaluating various options for Reverse Osmosis concentrate management in collaboration with the City of San José and Water Board.

Staff will begin developing documentation to submit the Full-Scale Facility as part of the Capital Improvement Program (CIP).

## **C. Outreach**

The Water Supply Outreach program continues to refine its outreach plan, ensuring that strategies align with the demonstration and full-scale facility project timelines. Upon finalizing agreements with relevant agencies, staff will collaborate to develop and implement customized outreach initiatives San José and Santa Clara communities.

Additionally, staff and consultants are defining the scope for a potential learning education center. This center aims to provide a space for tours and events, offering interactive educational experiences. Education and awareness are key to ensuring overall public support for potable reuse and mitigating any potential opposition to the project.

Staff continues to implement countywide public outreach initiatives to build support for purified water including:

- Public Tour Program: Since May 1, staff have hosted 334 visitors at the Silicon Valley Advanced Water Purification Center (SVAWPC), including three public tours and 14 private tours with university students, water industry leaders, public officials, community organizations,



and classroom students from 5th to 12th grade. One highlight of the public tour program was participating in Valley Water's Infrastructure Bus Tour, which included our Water 101 Ambassadors and Youth Commissioners. Valley Water Vice Chair Santos gave opening remarks before attendees toured the Purification Center.

- **Stakeholder Outreach:** Staff continue to strengthen relationships with specific stakeholder groups, community leaders, and industry professionals. Staff hosted a private tour for the President of the Water Research Foundation at the Purification Center. On May 2, Valley Water Board Director Beall and the Water Supply Outreach Program welcomed Dan Kostanbauder from the Silicon Valley Leadership Group and several other members to the SVAWPC. Additionally, Walsh Construction, one of North America's leading construction companies and the project's design builder for the Regional Wastewater Facility, also toured the SVAWPC as part of their employee family day, with staff welcoming 50 attendees.
- **Valley Water's Taste of Inclusion and Employee Recognition Event - Water Supply Outreach** and the Recycled and Purified Water team hosted a booth with the new purified water bottles, allowing staff to try purified water and learn more about advanced water purification. Over 200 advanced purified demonstration water bottles were distributed at the event.

**ENVIRONMENTAL JUSTICE AND EQUITY IMPACT:**

There are no environmental justice and equity impacts associated with this item.

**ATTACHMENTS:**

None.

**UNCLASSIFIED MANAGER:**

Kirsten Struve, 408-630-3138

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# Santa Clara Valley Water District

File No.: 24-0683

Agenda Date: 7/31/2024

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:

Discuss Recycled Water Goal for the Water Supply Master Plan (WSMP) and Recommend to Valley Water's Board a Water Reuse Goal for WSMP 2050.

### RECOMMENDATION:

- A. Discuss foundation for prior Committee recommendation to Valley Water's Board of Directors for a potable reuse goal of 24,000 Acre Feet per Year (AFY) by 2035 and a long-term vision to maximize water reuse in the county, including additional potable and non-potable reuse, desalination, stormwater capture, and other alternative water supply sources for inclusion in the WSMP 2050;
- B. Make a recommendation on a water reuse goal for the WSMP 2050 to Valley Water's Board of Directors.

### SUMMARY:

Water reuse is a locally controlled and drought resilient supply that will help ensure our county's water supply in the face of climate change. Valley Water's Board of Directors (Board) have set a goal to promote, protect, and expand potable and non-potable reuse within the county. Valley Water's Water Supply Master Plan (WSMP) serves as the guiding document for long-term water supply investments to ensure water supply reliability for the county. The WSMP is regularly updated to evaluate anticipated water supply demands, and water supply and infrastructure projects.

At the March 27, 2024 Recycled Water Committee meeting, the committee recommended a goal of 24,000 AFY and a long term vision to maximize water reuse in the county to the Board. The 24,000 AFY goal was based on the following considerations:

- 24,000 AFY is a potentially achievable goal based on available wastewater: While additional wastewater may be available, it is uncertain given both declining trends in wastewater availability due to water conservation, as well as our wastewater partners' intentions to add further nonpotable uses. State regulation to further water conservation will result in additional decline in wastewater availability. Wastewater availability for the project will need to be

clarified and negotiated with our partners. San José has not yet agreed to a 24,000 AFY purified water project.

- Risk of overinvestment and affordability concerns: The Board approved goal would be included in all portfolios that are developed similar to how the water conservation goal is included in all portfolios. While planning staff has developed portfolios with higher potable reuse and desalination amounts for the Board's consideration, setting a higher goal risks overinvestment in what will be expensive projects. Our expert panel cautioned against a higher reuse goal, especially because Valley Water may not need a new supply of more than 24,000 AFY. The Board directed staff to remove the Palo Alto Purified Water Project from the Capital Improvement Program due to affordability issues, thus planning for a higher reuse goal is less likely.
- Risk of underinvestment in a diversified portfolio: A larger potable reuse goal included in all portfolios could risk underinvesting in more affordable projects such as water storage.
- Peer agency comparison: Staff have benchmarked with Southern California agencies. Two issues have emerged:
  - (a) Southern California agencies have a higher population to serve and more wastewater available for reuse. Given higher population served, the goals set by Southern California agencies will be higher than Valley Water's; and
  - (b) Compared to other areas, water conservation in Santa Clara County is already very water efficient, being the 10th most efficient county in California.

Affordability is also a key consideration for peer reuse agencies. Metropolitan Water District (MWD) is now phasing their Pure Water Program due to funding considerations and to match future demands. Regarding cost benchmarking with Southern California agencies, there are many factors impacting the costs of Valley Water's Purified Water Project estimates. These include current market conditions, land acquisition costs, a highly urbanized area through which a pipeline must be constructed to use the water, regulatory requirements to protect the sensitive South San Francisco Bay environment, and the new direct potable reuse regulations. While benchmarking is very useful, cost estimates need to account for the actual needs of the project in our area.

Many of the current Southern California potable reuse facilities were constructed prior to COVID and subsequent supply chain issues, which have significantly increased the costs of infrastructure projects. For example, the Orange County reuse facilities were built in phases and have been operational since 2008. Valley Water's unit costs will also be higher due to economies of scale differences related to available wastewater flows. The Orange County groundwater replenishment district facility, for example, produces 145,600 AFY, which helps explain their lower unit costs. MWD's planned facilities were estimated at unit costs that range for Phase 1 of \$2,800 to \$3,200/AF in 2023 dollars.

At this time, the only engineering cost estimate available is the Palo Alto Purified Water Project costs which were based on the conceptual design of that project. As the San José Purified Water Project is

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developed, preliminary cost estimates will be updated with evolving engineering estimates. Current capital and present value lifecycle cost estimates for the alternative water supply projects being evaluated in the WSMP are provided for reference in Attachment 1.

Staff recommends 24,000 AFY of potable reuse by 2035 as a water supply goal that balances affordability and risk, while also considering our project partners' potential plans to expand their non-potable recycled water systems, and concerns over potential regulatory impacts of a larger project. This reuse goal can then be reevaluated in five years for the next WSMP update and the Board can approve a larger project when it becomes feasible at any time. There may also not be a need for a larger project by 2050 depending on demand and supply trends.

Valley Water is exploring multiple alternative water supply projects as part of the WSMP 2050 update, which includes potable reuse projects and seawater desalination. Almost all portfolios presented to the Board at the June 25th, 2024 meeting, included the Direct Potable Reuse project in San José emphasizing the importance of providing a drought-resilient local supply in a long-term water supply strategy. Additional details on these portfolios presented to the Board can be found in Attachment 2.

**ENVIRONMENTAL JUSTICE AND EQUITY IMPACT:**

There are no environmental justice and equity impacts associated with this agenda item. This action is unlikely to or will not result in adverse impacts and is not associated with an equity opportunity.

**ATTACHMENTS:**

Attachment 1: Alternative Water Supply Project Costs

Attachment 2: Water Supply Master Plan 2050 Portfolios

**UNCLASSIFIED MANAGER:**

Kirsten Struve, 408-630-3138

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**Attachment 1. Alternative Water Supply Project Costs**

<b>Project</b>	<b>Average Annual Supply (AF)</b>	<b>Capital Cost (Million)</b>	<b>Annual O&amp;M (Million)</b>	<b>Present Value (PV) Lifecycle Cost (Million)</b>	<b>Lifecycle Cost PV/ Yield PV (\$/AF)</b>	<b>Annualized Unit Cost (\$/AF)</b>
Palo Alto Potable Reuse	8,000	\$780	\$13	\$1,570	\$10,200	\$9,000
San José Direct Potable Reuse	24,000	\$2,140	\$30	\$2,610	\$6,400	\$5,000
Local Seawater Desalination	24,000	\$2,140	\$30	\$2,610	\$6,400	\$5,000

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## Attachment 2. Water Supply Master Plan 2050 Portfolios

	Portfolios									
Project	Lower Cost			Local Control			Diversified			
Palo Alto Potable Reuse				X				X		
San José Direct Potable Reuse	X	X		X	X	X	X	X	X	X
Local Seawater Desalination						X				
Refinery Recycled Water Exchange		X	X						X	
Delta Conveyance Project	X		X				X			X
Sites Reservoir									X	X
Pacheco Reservoir Expansion			With Partner	No Partner	No Partner		With Partner		With Partner	
Los Vaqueros Expansion			X				X			
B.F. Sisk Dam Raise	X		X				X	X	X	X
Groundwater Banking (TAF)	250	350	350	150	350	150	350	250	150	250
South County Recharge Projects	X	X	X	X	X	X	X	X	X	X
<b>Portfolio Cost (\$ Billion)</b>	<b>4.0</b>	<b>3.4</b>	<b>3.4</b>	<b>5.9</b>	<b>4.6</b>	<b>5.4</b>	<b>5.5</b>	<b>4.9</b>	<b>4.8</b>	<b>4.2</b>

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# Santa Clara Valley Water District

**File No.:** 24-0680

**Agenda Date:** 7/31/2024

**Item No.:** 4.3.

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## 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 2024 Recycled Water Committee (RWC) Work Plan, and Provide Feedback on Upcoming Discussion Items, and Upcoming Meeting Date.

### RECOMMENDATION:

Receive information on the 2024 RWC Work Plan, and provide feedback on upcoming discussion items and next meeting date.

### 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 March 27, 2024 meeting, the Committee approved the 2024 work plan that has agenda items necessary for the continuation of the recycled water projects. An updated 2024 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, confirmation of the next meeting dates, and would like to request canceling the June 2024 meeting.

### ENVIRONMENTAL JUSTICE AND EQUITY IMPACT:

The review and acceptance of the RWC Work Plan and meeting schedule are not subject to environmental justice analysis.

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**ATTACHMENTS:**

Attachment 1: 2024 Revised RWC Work Plan

**UNCLASSIFIED MANAGER:**

Candice Kwok-Smith, 408-630-3193

## RWC 2024 WORK PLAN

Task	Agenda Item	January	February	March	April	May	June	July	August	September	October	November	December
<b>FY 24 Tactic 1: Advance the Purified Water Program</b>													
1.1	Update on Purified Water Program including Partnership with Cities of San Jose and Santa Clara - Phase I Facility and full-scale Direct Potable Reuse Facility at the Silicon Valley Advanced Water Purification Center	X	X	X			X	X	X	X	X	X	X
<b>FY 24 Tactic 2: Implement the Countywide Water Reuse Master Plan.</b>													
2.1	Joint Mtg Prep/Debrief: Joint Recycled Water Policy Advisory Committee, including coordination on the Silicon Valley Advanced Water Purification Facility and building strong collaborative relationships	X		X									
2.2	Joint Mtg Prep/Debrief: Cities of Palo Alto/Mtn View.												
2.3	Joint Mtg Prep/Debrief: City of Sunnyvale.												
2.4	Update on SFPUC/BAWSCA Collaboration Efforts.												
2.5	Independent Advisory Panel.							X					
<b>FY 24 Tactic 3: Continue to actively be involved with Direct Potable Reuse (DPR) guidance and implement actions for the future.</b>													
3.1	Actively Engage in Direct Potable Reuse												X
<b>FY 24 Tactic 4: Develop a Comprehensive Water Reuse Agreement for South County to advance water reuse and its production, distribution, and wholesaling in South County.</b>													
4.1	South Santa Clara County Water Reuse Collaboration.	X						X					X
<b>FY 24 Tactic 5: Continue to monitor feasibility of desalination.</b>													
5.1	Continue to investigate feasibility of desalination (local and regional).									X			
<b>Others</b>													
6.1	Regional discussion on options: Feasibility analysis of Recycled Water Exchange with Contra Costa Water District and Central Contra Costa Sanitary District.												
6.2	Update on Bottling Purified and water tasting station at the SVAWPC.												
6.3	Investigating Different Source of Water for Purification including Urban Water Runoff/Stormwater								X				
6.4	Outreach Comprehensive Efforts.									X			
6.5	Potential Water Reuse Goal based on Water Supply Master Plan	X		X				X					
6.6	State and Federal Grant opportunities								X				

Canceled

\*Blue strikes - Items added on updated work plan

\*Red strikes - Items deleted from current work plan

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