

January 21, 2022

## **MEETING NOTICE**

### **RECYCLED WATER COMMITTEE**

#### Members of the Recycled Water Committee:

Director Tony Estremera, Committee Chair  
Director Gary Kremen, Committee Vice Chair  
Director Richard Santos, Member

#### Staff Support of the Recycled Water Committee:

Rick Callender, Esq., Chief Executive Officer  
Melanie Richardson, Assistant Chief Executive Officer  
Aaron Baker, Chief Operating Officer, Water Utility  
Darin Taylor, Chief Financial Officer  
Tina Yoke, Chief Operating Officer, Information Technology & Administrative Services  
Rachael Gibson, Chief of External Affairs  
Carlos Orellana, District Counsel  
Anthony Fulcher, Senior Assistant District Counsel  
Leslie Orta, Senior Assistant District Counsel  
Kirsten Struve, Assistant Officer  
Sam Bogale, Assistant Officer  
Lisa Bankosh, Assistant Officer  
Vincent Gin, Deputy Operating Officer  
Heath McMahon, Deputy Operating Officer  
Bhavani Yerrapotu, Deputy Operating Officer  
Don Rocha, Deputy Operating Officer  
Hossein Ashktorab, Recycled & Purified Water Manager  
Metra Richert, Water Supply Planning & Conservation Manager  
Sherilyn Tran, Civic Engagement Manager  
Charlene Sun, Treasury and Debt Manager  
Carmen Narayanan, Finance Planning & Revenue Manager  
Lei Hong, Utility Operations & Maintenance Manager  
Medi Sinaki, Senior Engineer - Water Quality  
Girlye Jacobson, Senior Engineer - Treatment Plant Design  
David Tucker, Associate Engineer – Civil  
Henry Barrientos, Senior Water Resources Specialist  
Elise Latedjou-Durand, Senior Environmental Planner

The regular meeting of the Recycled Water Committee is scheduled to be held on **Tuesday, February 1, 2022 at 12:00 PM**. Join Zoom Meeting on link: <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/board-advisory-committees>.

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## Santa Clara Valley Water District Recycled Water Committee Meeting

Teleconference Meeting

Join Zoom Meeting:

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

Meeting ID: 995 1815 3521

Join by Phone:

1 (669) 900-9128, 99518153521#

### REGULAR MEETING AGENDA

**Tuesday, February 1, 2022  
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  
Gary Kremen - District 7, Vice Chair  
Richard Santos - District 3

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

EVA SANS  
Assistant Deputy Clerk II  
Office/Clerk of the Board  
(408) 265-2306  
esans@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  
REGULAR MEETING  
AGENDA**

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Tuesday, February 1, 2022

12:00 PM

Teleconference Meeting

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\*\*\*BY VIRTUAL TELECONFERENCE ONLY\*\*\*

Pursuant to California Government Code section 54953(e), this meeting will be held by teleconference only. No physical location will be available for this meeting; however, members of the public will be able to participate in the meeting as noted below.

In accordance with the requirements of Gov. Code Section 54954.3(a), members of the public wishing to address the Board/Committee at a video conferenced meeting, during public comment or on any item listed on the agenda, should use the "Raise Hand" tool located in the Zoom meeting link listed on the agenda, 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.

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.

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 Committee on any item not listed on the agenda should access the "Raise Hand" tool 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 Minutes.

[22-0040](#)

Recommendation: Approve the minutes of the December 1, 2021 meeting.

Manager: Michele King, 408-630-2711

Attachments: [Attachment 1: 120121 Minutes](#)

**4. ACTION ITEMS:**

- 4.1. Update on Purified Water Program including Partnership with Cities of San José and Palo Alto. [22-0042](#)  
Recommendation: Receive updates and provide feedback on the following:
  - Public Private Partnership (P3) Purified Water Project
  - Partnership efforts with the Cities of Palo Alto, San José and Santa Clara
  - Outreach Efforts.Manager: Kirsten Struve, 408-630-3138  
Attachments: [Attachment 1: Letter of Support](#)
- 4.2. Update on Bottling Purified Demonstration Water and on Water Tasting Station at Silicon Valley Advanced Water Purification Center. [22-0043](#)  
Recommendation: Receive information and provide feedback.  
Manager: Kirsten Struve, 408-630-3138  
Attachments: [Attachment 1: PowerPoint](#)
- 4.3. Urban Runoff Study with Stanford University. [22-0044](#)  
Recommendation: Receive information and provide feedback.  
Manager: Kirsten Struve, 408-630-3138  
Attachments: [Attachment 1: PowerPoint](#)
- 4.4. Review and Authorize the Chair to Present the 2021 Recycled Water Committee Accomplishments Report to the Board and Discuss the 2022 Recycled Water Committee Work Plan and Meeting Schedule. [22-0048](#)  
Recommendation:
  - A. Review the 2021 Recycled Water Committee Accomplishments Report;
  - B. Authorize the Chair to present 2021 Recycled Water Committee Accomplishments to the Board;
  - C. Consider and accept the Proposed 2022 Work Plan; and
  - D. Accept the 2022 Recycled Water Committee regular meeting schedule.Manager: Michele King, 408-630-2711  
Attachments: [Attachment 1: 2021 Committee Work Plan](#)  
[Attachment 2: RWC Committee Accomplishments Report](#)  
[Attachment 3: Proposed 2022 Work Plan](#)
- 4.5. Election of 2022 Recycled Water Committee Chairperson and Vice Chairperson. [22-0049](#)  
Recommendation: Nominate and elect the 2022 Recycled Water Committee Chairperson and Vice Chairperson.  
Manager: Michele King, 408-630-2711

**5. INFORMATION ITEMS:**

**6. ADJOURN:**

6.1. Adjourn.

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# Santa Clara Valley Water District

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**File No.:** 22-0040

**Agenda Date:** 2/1/2022  
**Item No.:** 3.1.

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## **COMMITTEE AGENDA MEMORANDUM Recycled Water Committee**

### **SUBJECT:**

Approval of Minutes.

### **RECOMMENDATION:**

Approve the minutes of the December 1, 2021 meeting.

### **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 the Valley Water's historical records archives and serve as historical records of the Committee's meetings.

### **ATTACHMENTS:**

Attachment 1: 120121 Minutes

### **UNCLASSIFIED MANAGER:**

Michele King, 408-630-2711

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RECYCLED WATER COMMITTEE MEETING

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# MINUTES

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WEDNESDAY, DECEMBER 1, 2021  
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 via Zoom video teleconference at 12:00 p.m.

**1.1 Roll Call.**

Committee members participating by teleconference were District 3 Director R. Santos, District 7 Director G. Kremen, and District 6 Director T. Estremera, Chairperson presiding, constituting a quorum of the Committee.

Staff in attendance was E. Sans, Assistant Deputy Clerk II.

Staff participating by teleconference were H. Ashktorab, E. Latedjou-Durand, M. Lugo, H. McMahon, C. Orellana, L. Orta, M. Richardson, K. Struve, and D. Tucker.

Also in attendance was Valley Water consultant contractor P. Daniel, Liquisti, LLC.

District 4 Director L. LeZotte observed, without participating in the meeting.

**2. TIME OPEN FOR PUBLIC COMMENTS 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 present who wished to speak.

**3. APPROVAL OF MINUTES:**

**3.1 Approval of Minutes.**

Recommendation: Approve the minutes of the October 21, 2021 meeting.

The Committee considered the minutes of the October 21, 2021 meeting.

Move to Approve: R. Santos

Second: G. Kremen

Yeas: R. Santos, G. Kremen, T. Estremera

12/01/21

Nays: None  
Abstains: None  
Recuses: None  
Absent: None  
Summary: 3 Yeas; 0 Nays; 0 Abstains; 0 Absent.

#### 4. ACTION ITEMS:

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

Recommendation: A. Receive information on:

1. Update on Public Private Partnership (P3) Purified Water Project;
2. Update on partnership efforts with the Cities of Palo Alto, San Jose and Santa Clara;
3. Update on meeting with State Water Resources Control Board's Division of Drinking Water (DDW); and
4. Outreach Efforts.

B. Recommend to Valley Water's Board that subject to successful completion of needed agreements with the City of Palo Alto and the CEQA process, that

1. The P3 Project be located in Palo Alto;
2. Staff continue discussions with the City of San José and Santa Clara to pursue a potential advanced purified water project that Valley Water might pursue after the P3 Project;
3. Staff seek to extend the funding agreement with the City of San Jose through July 1, 2022.

The Committee approved Recommendation B, Nos. 1 through 3; and requested that staff agendize a recommendation to the full Board to direct staff to finalize agreement and develop P3 Request for Proposals for the Palo Alto Site, continue discussions with City of San Jose for a future potable reuse project, and extend the funding agreement with the City of San Jose through July 1, 2022.

Move to Approve: R. Santos  
Second: G. Kremen  
Yeas: R. Santos, G. Kremen, T. Estremera  
Nays: None  
Abstains: None  
Recuses: None  
Absent: None  
Summary: 3 Yeas; 0 Nays; 0 Abstains; 0 Absent.

##### 4.2 South Santa Clara County Water Reuse Opportunities.

Recommendation: Receive information and provide feedback on South Santa Clara County Water Reuse Opportunities.

Mr. Dave Tucker, Associate Engineer - Civil, reviewed the information on this item, per the attached Board Agenda Memo. He provided the Committee highlights from the four meetings of the Joint Water Resources' Technical Working Groups (TWG) that had been held since its first meeting in August 2021. He added that the next TWG meeting would be December 16, 2021, and would be a discussion on how to best address the current legal agreements, and preparation for the TWG's presentation to the Joint Water Resources Committee. Subsequently, the TWG meeting happened on December 21, 2021.

**4.3 Discuss the 2021 Recycled Water Committee Work Plan, Upcoming Discussion Items, and Next Meeting Date.**

Recommendation: Accept the updated 2021 Recycled Water Committee Work Plan and provide feedback on upcoming discussion items and meeting schedule.

The Committee unanimously approved the updated 2021 work plan; cancelled its December 22, 2021 meeting; and directed staff to determine a date for the next Committee meeting in January 2022.

Move to Approve: R. Santos  
Second: G. Kremen  
Yeas: R. Santos, G. Kremen, T. Estremera  
Nays: None  
Abstains: None  
Recuses: None  
Absent: None  
Summary: 3 Yeas; 0 Nays; 0 Abstains; 0 Absent.

**5. INFORMATION ITEMS:**

None.

**6. ADJOURN:**

**6.1** Chairperson Estremera adjourned the meeting at 12:30 p.m.

Eva Sans  
Assistant Deputy Clerk II

Approved:

Date:

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# Santa Clara Valley Water District

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**File No.:** 22-0042

**Agenda Date:** 2/1/2022

**Item No.:** 4.1.

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## COMMITTEE AGENDA MEMORANDUM

### Recycled Water Committee

#### **SUBJECT:**

Update on Purified Water Program including Partnership with Cities of San José and Palo Alto.

#### **RECOMMENDATION:**

Receive updates and provide feedback on the following:

- Public Private Partnership (P3) Purified Water Project
- Partnership efforts with the Cities of Palo Alto, San José and Santa Clara
- Outreach Efforts.

#### **SUMMARY:**

1. Update on Public Private Partnership (P3) Purified Water Project

Work continues preparing the P3 Purified Water Project Request for Proposal (RFP), drafting the Project Agreement, and refining the project technical requirements. Development of supplementary technical information continues for subsurface conditions and easements. This information will be furnished to the Respondents for developing their cost proposals. In collaboration with the Cities of San José and Palo Alto, staff has been developing the draft Environmental Impact Report which is anticipated to be released in the first quarter of 2022.

2. Update on partnerships with Palo Alto and San José

Valley Water and City of Palo Alto staff have continued to collaborate on developing agreements for building the first phase of P3 Purified Water Project. City of Palo Alto and Valley Water staff have exchanged term sheets for lease and reverse osmosis concentrate management.

Valley Water and the cities of City of San José and Santa Clara staff continue to meet to discuss agreements that would be needed for a second phase Purified Water Project. The San José City Council received an update on the discussions on January 11, 2022.

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### 3. Outreach

Staff continues to host public and private virtual tours of the purification center. During November and December, staff hosted 13 tours and reached over 300 members of the public. Staff hosted a VIP on-site tour for Fremont Councilmember Teresa Kang at the request of Director Santos. Staff hosted private virtual tours for Sunnyvale Finance Department employees and the Sunnyvale Leadership Group. As part of continued outreach to raise awareness and support for the Purified Water Project, staff had informational meetings on the goal of expanding county water reuse with Mothers Out Front Silicon Valley, the African American Services Community Agency, and ICAN (A Vietnamese American community services organization). In December, staff also secured a letter of support for Valley Water reuse efforts and the Purified Water Project from the Santa Clara County Medical Association. Staff is continuing to collaborate with the medical community in hopes of recruiting vocal advocates and garner public trust and support. Valley Water is enhancing outreach with a paid advertising campaign in Santa Clara County on the importance of water conservation and Purified Water to our local water supply. This increased effort includes on multilingual digital, radio, social media and television. As part of this campaign, staff gave two private tours in January to groups of influencers who will be posting sponsored content on social media channels.

#### **ATTACHMENTS:**

Attachment 1: Letter of Support

#### **UNCLASSIFIED MANAGER:**

Kirsten Struve, 408-630-3138





**SANTA CLARA COUNTY  
MEDICAL ASSOCIATION**

December 10, 2021

Tony Estremera  
Chair, Valley Water Board of Directors  
5750 Almaden Expressway  
San Jose, CA 95118

Dear Chair Estremera:

For over a century the Santa Clara County Medical Association (SCCMA) has supported its physician members in their providing healthcare for Santa Clara County's patients and community. Throughout this time we have maintained a strong interest in the health and sustainability of our local environment, advocating for reducing pollution and protecting our land, air and water resources.

The SCCMA's Council, after due consideration of the recommendation of the SCCMA Committee on Environmental Health, supports Valley Water's Purified Water Project that is designed to create a safe and healthy, drought-resistant, and sustainable water future for our community. The proposed project will augment the County's current water supplies with purified recycled water produced through a combination of membrane filtration, reverse osmosis, advanced oxidation, and ultraviolet disinfection. This water will meet or exceed all regulatory requirements established and enforced by the California Water Resource Control Board.

The SCCMA recognizes that during this past decade, Valley Water has demonstrated its ability to manage such a water purification system through its technical specification, construction, and continuous operation of the Silicon Valley Advanced Water Purification Center, which produces approximately eight million gallons of highly purified water per day. Expanded use of this technology will create a new, reliable source of water that will augment our region's resilience in the face of drought.

We realize that water is a vital public resource, and a plentiful supply of clean, safe water is critical to the health of our community. For this reason, the State of California has recognized a human right to water and prohibits its waste and unreasonable use. However, we are cognizant of the fact that our water sources are under increasing stress from our growing population as well as from changing weather patterns that have reduced the Sierra snowpack that no longer refills our rivers and streams during increasingly hot, dry summers. Indeed, in response to these conditions, in 2012 the California Medical Association adopted a resolution (118a-12) to encourage efforts to expand potable and non-potable water reuse while ensuring water quality.

In conclusion, in view of the critical public health value of access to clean and safe drinking water for our community and the proven effectiveness of current methods of water treatment, the SCCMA supports the development and implementation of Valley Water's Purified Water Program and water reuse endeavors.

Sincerely,

A handwritten signature in cursive script that reads "Cindy Russell".

Cindy Lee Russell, M.D.  
President  
Santa Clara County Medical Association

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# Santa Clara Valley Water District

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**File No.:** 22-0043

**Agenda Date:** 2/1/2022  
**Item No.:** 4.2.

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## COMMITTEE AGENDA MEMORANDUM

### Recycled Water Committee

#### **SUBJECT:**

Update on Bottling Purified Demonstration Water and on Water Tasting Station at Silicon Valley Advanced Water Purification Center.

#### **RECOMMENDATION:**

Receive information and provide feedback.

#### **SUMMARY:**

In 2018, staff began a technical review for a new communications program that could enable Valley Water to bottle purified demonstration water produced at the Silicon Valley Advanced Water Purification Center for future marketing and outreach purposes. Bottled demonstration water would provide a safe, portable and attractive outreach tool to reach new audiences to further their understanding of using advanced purified water for future drinking water purposes. Assembly Bill 2022 (Quirk) authorizes an operator of an advanced water purification facility to cause advanced purified demonstration water to be bottled and distributed for educational purposes and to promote water recycling.

In 2019, staff developed an "Implementation Plan for Bottling Purified Demonstration Water (Implementation Plan)" that would address state regulatory requirements, infrastructure improvements, testing and monitoring, regulatory engagement, outreach and communication, and schedule and resource requirements. Staff determined that Valley Water would need 18 to 24 months of follow-up activity before bottling could commence.

In 2020, the state regulatory staff (Division of Drinking Water) transmitted comments and recommendations regarding the Implementation Plan, regulatory procedures and reporting requirements needed for bottling authorization, and technical guidance on the development of an Operations Plan to support bottling implementation. The bottling project then experienced unforeseen COVID-19 impacts, staffing constraints and transitions, and fluctuating project priorities. Trussell Technologies, a technical reuse consultant, was subsequently engaged to assist with development of the Operations Plan and provide on-going technical support.

In 2021, Trussell Technologies conducted a site visit to review facility layouts and instrumentation, and reviewed equipment requirements, data acquisition, and testing requirements. Staff completed the Implementation Plan, which identified additional equipment and instrumentation requirements;

and the Validation Test Plan, which confirms our production capabilities to produce purified water for bottling. Staff have completed essential equipment and testing supply acquisitions and have established the testing requirements and schedule for completing the Validation Tests. These studies, to demonstrate production capabilities, are anticipated to be completed in 2022, then a final report will be drafted and submitted to the Division of Drinking Water for initial review, before finalization. Staff will provide the Committee with an update of bottling project progress, taste testing options, and upcoming next steps.

**ATTACHMENTS:**

Attachment 1: PowerPoint

**UNCLASSIFIED MANAGER:**

Kirsten Struve, 408-630-3138

# Update on Bottling Purified Demonstration Water at the Silicon Valley Advanced Water Purification Center



**Valley Water**

Clean Water • Healthy Environment • Flood Protection

# AB 2022–Purified Demonstration Water

- ❑ Allows for bottling of “advanced purified demonstration water” for outreach and educational purposes:
  - Treated by microfiltration, reverse osmosis, advanced oxidation
  - Meets state and federal drinking water standards
- ❑ Restrictions:
  - 1,000 gallons per year
  - 8 oz servings



OCWD’s advanced purified demonstration water.

# Purified Demonstration Water Workgroup



Workgroup members meeting with OCWD staff to discuss their bottling efforts (2018).

- ❑ Convened to investigate purified water bottling practices.
- ❑ Multi-disciplinary workgroup.
- ❑ Developed an implementation plan for bottling purified demonstration water.

# Workgroup Developed Implementation Plan

Provides a roadmap to producing up to 16,000 bottles of advanced purified demonstration water for education and outreach purposes.





# Implementation Plan - Accomplishments

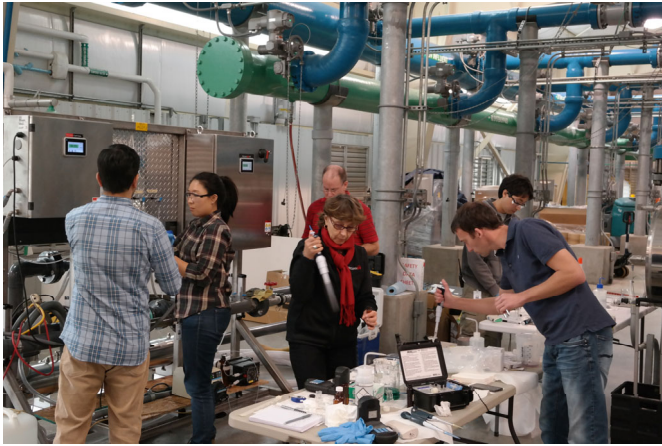
## Infrastructure Improvements

- Upgrades to existing UV/AOP pilot system at SVAWPC.
- Installation of additional online equipment/sensors.
- Update O&M



Upgraded UV/AOP system at SVAWPC

# Implementation Plan - Next Steps



## Verification Testing

- Verify Ultraviolet (UV) dose, confirm disinfection effectiveness, confirm AOP occurrence.

## Validation Testing

- Demonstrate UV/Advanced Oxygen Process (AOP) system meets purification requirements.
- Performance meets state and federal drinking water standards.

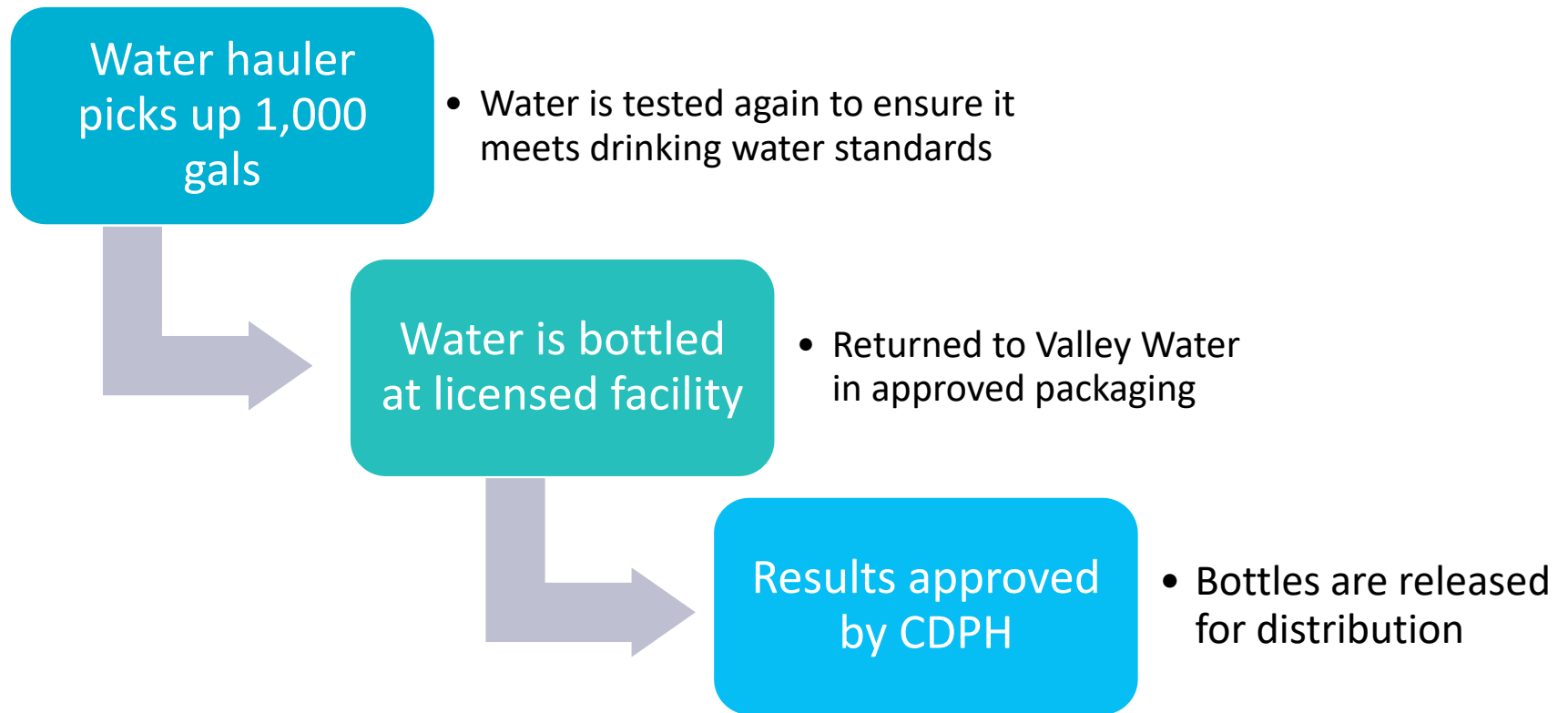


# Implementation Plan – Future Actions

- Meet with Division of Drinking Water (DDW)
- Identify FDA certified bottling company and water hauler
- Design bottle logos and outreach language, evaluate and select bottle material
- Develop tracking and reporting tools



# Implementation Plan – Bottling Process





# Santa Clara Valley Water District

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**File No.:** 22-0044

**Agenda Date:** 2/1/2022  
**Item No.:** 4.3.

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## COMMITTEE AGENDA MEMORANDUM

### Recycled Water Committee

**SUBJECT:**

Urban Runoff Study with Stanford University.

**RECOMMENDATION:**

Receive information and provide feedback.

**SUMMARY:**

In August 2018 Valley Water in partnership with Stanford University, initiated a two-phased project to evaluate alternatives for stormwater (urban runoff) capture for water reuse purposes and considerations for feasibility and cost analysis. The project was designed to ensure it focused primarily on stormwater capture and/or shallow groundwater to supplement Valley Water's Recycled and Purified Water program and not duplicate either prior efforts or Countywide Water Reuse Master Plan (CoRe Plan) portfolios that addressed stormwater.

During Phase I of the project, Stanford University developed a model focusing solely on stormwater capture and reuse and the best locations for Indirect Potable Recycled (IPR) applications. Model results indicated that up to 10,000 acre feet per year from Coyote Creek is available to be harvested during various storm events and other times and could be treated at a purification facility located at the nearby Silicon Valley Advanced Water Purification Center (SVAWPC) and pumped to spreading basins for groundwater recharge. Phase II of the study which was initiated in April 2020 and focuses on water quality and project feasibility.

On June 23rd, 2021 the project team presented an update to the Recycled Water Committee (RWC) on the progress of Phase II and planned next steps. The RWC indicated a high level of interest and support for the project to continue moving forward to the next phase and possibly presenting the findings to the full Valley Water Board.

Since June 2021, Valley Water Staff and Stanford University project team members have been working closely to develop a Coyote Creek sampling plan, identifying a suitable sampling location, methods, and analysis scope. The team conducted two rounds of sample collection in November 2021 and January. Water quality parameters analyzed include conventional, organic, and emerging constituents. Early results indicate that perfluorochemicals PFOS and PFOA may be present at concentrations that could warrant treatment prior to groundwater recharge.

Moving forward, Valley Water Staff and Stanford University project team members will continue with monthly sampling at Coyote Creek to further evaluate water quality and seasonality and consider these results in the context of treatment needs for stormwater capture and reuse. Future investigation may also include exploration of legal issues, laws, and water rights related to aquatic and other wildlife resources.

**ATTACHMENTS:**

Attachment 1: PowerPoint

**UNCLASSIFIED MANAGER:**

Kirsten Struve, 408-630-3138



# Urban runoff capture, treatment & recharge

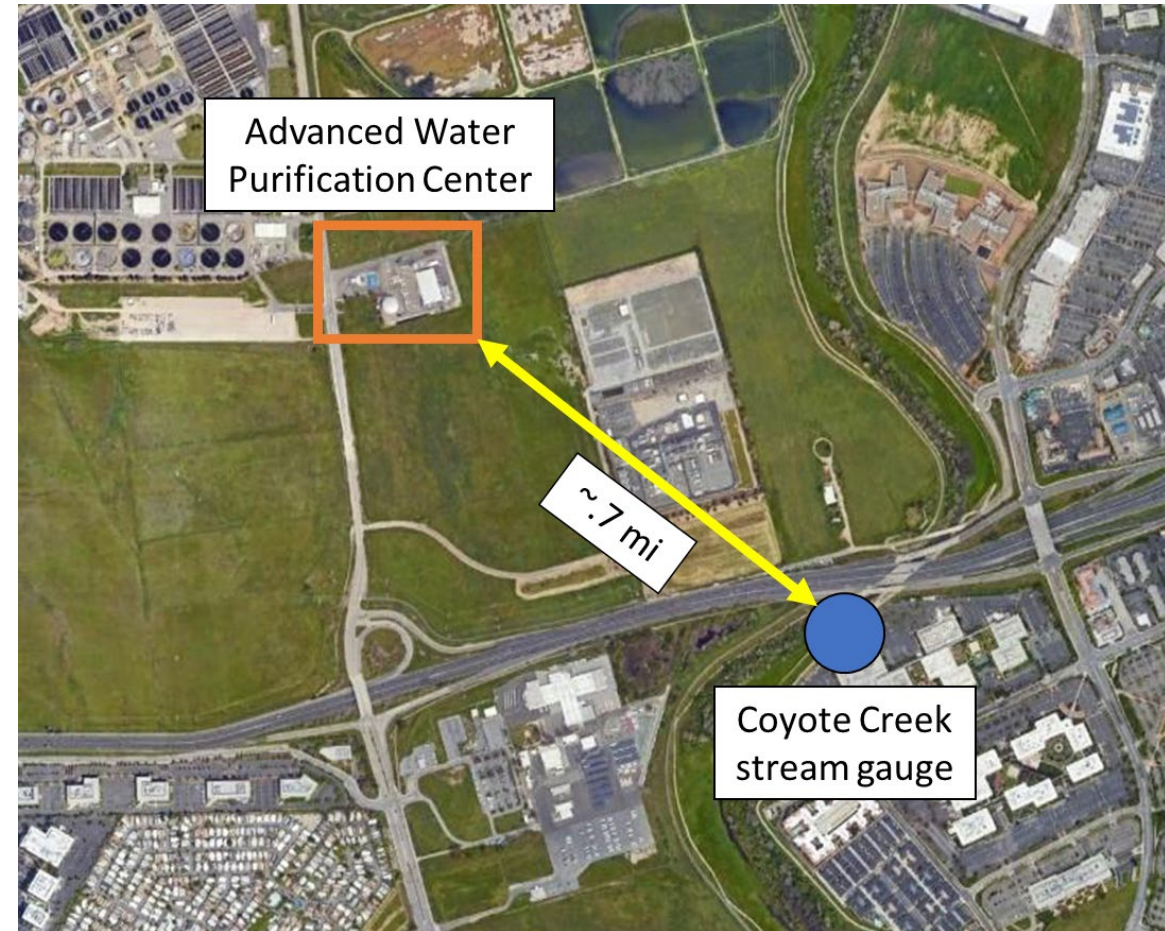
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Bridget C. Gile & Richard G. Luthy  
Stanford University



# Phase I: Can stormwater contribute to water supply?

- Coyote Creek could contribute ~10,000 AFY to Los Gatos recharge
- Centralized stormwater capture, treatment & recharge offers significant quantities compared to other stormwater options
- Costs (\$600-1800/AF) are highly dependent on treatment train



Google Earth





## Phase II: What potential challenges must be addressed to utilize urban runoff for water supply?

- Assess the ***water quality*** of a stormwater-fed urban stream, with emphasis on identifying hydrophilic organic contaminants of concern and seasonal variability
- Evaluate the technical and cost effectiveness of possible ***treatment trains*** to facilitate safe, sustainable reuse of urban stormwater
- Develop a water diversion protocol to optimize stormwater reuse for water supply while preserving ***ecological flows***



# Phase II: Water Quality Sampling

- Monthly sampling for 1 year to form a solid baseline and evaluate seasonality
- 4-hour composite sample represents average conditions and reduces the number of tests required



Nov. 2, 2021



# Water Quality Analyte List

- Includes contaminants from the National Primary Drinking Water Regulations, National Priorities List, and relevant scientific literature
- Types of contaminants considered:
  - Basic water quality parameters
  - Organic compounds
  - Pesticides and herbicides
  - Heavy metals
  - Perfluorochemicals



# Results from Nov 2, 2021

- Many compounds were not detected indicating good water quality
- A few detections at low levels:
  - PFOA and PFOS
  - Benzotriazole (corrosion inhibitor)
  - Diuron (herbicide)
  - Heavy metals
  - Caffeine (wastewater indicator)

California Division of Drinking Water

	PFOA	PFOS
Notification Level	5.1 ppt	6.5 ppt
Response Level	10 ppt	40 ppt



# Continued Sampling

- Refine analyte list based on previous results to focus on contaminants most relevant to treatment





# Moving Forward

- Continued monitoring for emerging contaminants
- Legal/regulatory water rights process
- Water quality standards for recharge deliveries
- Bench/pilot treatment design
- Recharge basin capacity with both recycled & stormwater deliveries
- Preliminary cost feasibility



# Looking Ahead: Treatment Design

- PFAS may govern necessary treatment
- Review water agency experience with PFAS treatment technologies
- Full advanced treatment trains designed for municipal wastewater may not offer efficiencies for urban runoff
- Investigate performance of non-RO treatment trains for indirect potable reuse of urban runoff
  - Review literature and case studies of centralized stormwater treatment
  - Bench scale analysis of candidate treatment trains



# Looking Ahead: Ecological Flows

- Previously, received encouraging feedback on the project concept from individuals with regulatory backgrounds
- Need to learn more about Coyote Creek ecosystem flow needs
- Continue to build understanding through discussions with individuals at relevant resource agencies





# Discussion

- Understanding of Coyote Creek increases as sampling moves forward
- Preliminary results indicate that treatment of PFAS might be needed – prior to discharge and as regulations develop
- Parallel investigations are needed to develop multiple dimensions of the project

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# Santa Clara Valley Water District

File No.: 22-0048

Agenda Date: 2/1/2022  
Item No.: 4.4.

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## COMMITTEE AGENDA MEMORANDUM

### Recycled Water Committee

#### SUBJECT:

Review and Authorize the Chair to Present the 2021 Recycled Water Committee Accomplishments Report to the Board and Discuss the 2022 Recycled Water Committee Work Plan and Meeting Schedule.

#### RECOMMENDATION:

- A. Review the 2021 Recycled Water Committee Accomplishments Report;
- B. Authorize the Chair to present 2021 Recycled Water Committee Accomplishments to the Board;
- C. Consider and accept the Proposed 2022 Work Plan; and
- D. Accept the 2022 Recycled Water Committee regular meeting schedule.

#### 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.

The 2021 Recycled Water Committee Work Plan (Attachment 1) and Accomplishments Report (Attachment 2) was populated by staff as follows:

- Items referred to the Committee by the Board;
- Items requested by the Committee to be brought back by staff;
- Items scheduled for presentation to the full Board of Directors; and
- Items identified by staff and approved by the Recycled Water Committee Chair.

The proposed 2022 Recycled Water Committee Work Plan (Attachment 3) is attached for Committee discussion.

#### Proposed Changes on the Work Plan

- On Item 2.1, include the words *Implement the*, in the beginning; and *CoRe Plan*, in the end, to read: *Implement the Countywide Water Reuse Master Plan (CoRe Plan)*;
- On Item 2.2, include the words, *and water tasting station*, to read: Update on Bottling Purified *and water tasting station* at the SVAWPC;
- Merge Items 4.1 and 4.2 into one, to read: *South Santa Clara County Water Reuse*

*Collaboration;*

- Delete Item 0.2 on *Evaluate and propose policy options related to centralized and decentralized reuse for Committee's consideration;* and
- Renumber Items 0.2-0.5 to 0.2-0.4 due to the deletion of bullet item immediately above.

Proposed Meeting Dates

For 2020 and 2021, the RWC developed a pattern of meeting regularly on the fourth Wednesday of the month. In 2020, this agreed schedule was disrupted due to the pandemic so that the Committee met only three times that year. In 2021, with Zoom online meetings already in practice, the Committee met for majority of the months following the every-fourth-Wednesday-of-the-month schedule.

For 2022, a continuation of the same pattern is proposed with a possible reschedule for the months of July, and October, to give way for Committee members to attend a Water Commission meeting.

**ATTACHMENTS:**

Attachment 1: 2021 Committee Work Plan

Attachment 2: 2021 Committee Accomplishment Report

Attachment 3: Proposed 2022 Committee Work Plan

**UNCLASSIFIED MANAGER:**

Michele King, 408-630-2711

## FINAL RWC 2021 WORKPLAN

Task	Agenda Item	January 2021	February 2021	March 2021	April 2021	May 2021	June 2021	July 2021	August 2021	September 2021	October 2021	November 2021	December 2021
<b>Focus 1: Advance the Expedited Purified Water Program by releasing an RFP for at least one locally-sponsored project</b>													
<i>Advance the Expedited Purified Water Program</i>													
1.1	Update on Purified Water Program including Partnership with Cities of San Jose and Palo Alto (Previously Work Plan Item No. 1)	X	X	CANCELED	X	X	X	X	X	X	X	X	CANCELED
1.2	Independent Advisory Panel (Previously Work Plan Item No. 12)												
1.3	Update on Public Private Partnership [P3] Procurement (Previously Work Plan Item No. 13)	X	X		X	X	X	X	X	X	X	X	
<b>Focus 2: Implement the CoRe Plan</b>													
2.1	Countywide Water Reuse Master Plan (Previously Work Plan Item No. 2)				X		X						
2.2	Joint Mtg Prep/Debrief: TPAC (Previously Work Plan Item No. 3)				X								
2.3	Joint Mtg Prep/Debrief: Cities of Palo Alto/Mtn View (Previously Work Plan Item No. 4)					X					X		
2.4	Joint Mtg Prep/Debrief: City of Sunnyvale (Previously Work Plan Item No. 5)												
2.5	Update on SFPUC/BAWSCA Collaboration Efforts (Previously Work Plan Item No. 6)												
<b>Focus 3: Continue to monitor Direct Potable Reuse (DPR) guidance and implement actions as needed.</b>													
<i>Continue to monitor Direct Potable Reuse</i>													
3.1	Actively Engage in Direct Potable Reuse			X									CANCELED
<b>Focus 4: Finalize negotiations on term sheet for South County recycled water and agreement on governance</b>													
<i>South County Recycled Water Agreement and Governance</i>													
4.1	South Santa Clara County Water Reuse Opportunities (Previously Work Plan Item No. 16)											X	CANCELED
4.2	South Santa Clara County Water Reuse and Governance (Previously Work Plan Item No. 17)		X				X						
<b>Others</b>													
0.1	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 (Previously Work Plan Item No. 10)							X		X			
0.2	Evaluate and propose policy options related to centralized and decentralized reuse for Committee's consideration (Previously Work Plan Item No. 9)												
0.3	Update on Bottling Purified Water at the SVAWPC (Previously Work Plan Item No. 11)					X							
0.4	Urban Runoff Study with Stanford University (Previously Work Plan Item No. 14)					X							
0.5	Outreach Efforts (Previously Work Plan Item No. 15)		X					X	X	X	X		

\*Blue strikes - items added on updated work plan

\*Red strikes - items deleted from current work plan

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# RECYCLED WATER COMMITTEE 2021 ACCOMPLISHMENT REPORT

Task	Agenda Item	Objective	Accomplishments/Outcomes
<b>Focus 1: Advance the Expedited Purified Water Program by releasing an RFP for at least one locally-sponsored project</b> <i>Advance the Expedited Purified Water Program</i>			
<b>1.1</b>	Update on Purified Water Program including Partnership with Cities of San Jose and Palo Alto ( <i>Previously Work Plan Item No. 1</i> )	<u>02/24/21 Objectives</u> Received update on negotiations with Cities of Palo Alto and San Jose/Santa Clara.	<u>02/24/21 Accomplishments</u> The Committee was informed about ongoing negotiations with Cities of Palo Alto (PA), San Jose (SJ), and Santa Clara (SC) regarding terms and conditions for treated wastewater, Reverse Osmosis concentrate management and land for an integrated facility. In a joint meeting with PA on February 22, 2021, the Committee was informed that Palo Alto has taken steps to obtain effluent transfer commitments from smaller cities to a future regional purification facility. The Committee was also informed about collaboration with both PA and SJ in CEQA documentation, should Valley Water's planned facilities be located in either city.
		<u>04/09/21 Objectives</u> Received information on partnerships with Cities of San Jose and Palo Alto.	<u>04/09/21 Accomplishments</u> The Committee was informed that at the March 19, 2021 Joint Meeting with SJ, the Valley Water (VW) Board directed staff to collaborate to complete negotiations for the needed agreements by June 2021, with direction to prioritize an integrated facility located in San José that provides purified water for groundwater recharge. In response, at the April 13, 2021 City of SJ Council Meeting, the City of SJ accepted VW's report regarding status of Purified Water Project and directed their staff to negotiate an amended or new Master Agreement; coordinate with VW to negotiate and enter into a three-party agreement with a consultant to facilitate negotiation meetings; negotiate with VW to fund reservation of wastewater effluent similar to City of Palo Alto's Partnership Agreement to Advance Resilient Water Reuse Programs; return to the Council no later than December 2021; engage VW to negotiate an amended Ground Lease and Property Use Agreement for the existing Advance Water Treatment Facility, continue negotiations to expand use of recycled water to reduce reliance on imported water and return to City Council on June 15 with updates on the negotiations. The Committee was also informed that an alternative to partnership with City of SJ for the 10mgd that VW requires at this time can be provided by Palo Alto and Mountain View. In following the 10mgd scaled down capacity for direct potable reuse, the cost and implications will be included in the FLEX Technical Memorandum that would be integrated in the final Countywide Recycled Water Master Plan (CoRe Plan). In regard to required annual and proactive maintenance of the Silicon Valley Advance Water Purified Center (SVAWPC), the Committee was informed that they have been completed and that product water in 2020 from SVAWPC met permit and RO concentrate requirements with cost savings realized in the micro-filtration membrane that had a longer life than anticipated. In addition, the Committee learned that in FY2020, the City of San Jose generated \$14.2M revenue at the SVAWPC, of which \$3.3M was shared with Valley Water.
		<u>05/26/21 Objective</u> Received information and provide feedback	<u>05/26/21 Accomplishments</u> The Committee was informed that five comment letters on the Notice of Preparation were received which would be addressed in the CEQA process. Geotechnical investigations were completed at potential facility sites in SJ and PA and findings will be included in the Private Public Partnership (P3) Request for Proposal for release in Fall 2021. On May 11, 2021, a meeting among City of Palo Alto, California Regional Water Quality Control Board and Valley Water was held on the preferred method of discharging RO concentrate from both AWP sites in Palo Alto and San Jose to the Los Gatos Recharge System.
		<u>06/23/21 Objective</u> Received information on the status of the Purified Water Project, including partnerships with Cities of San Jose and Palo Alto.	<u>06/23/21 Accomplishments</u> The Committee was informed that City of PA provided VW with draft lease terms, and progress on Reverse Osmosis concentrate management continues with the Regional Water Board. With City of San Jose, a Council report by City of SJ staff had been prepared. A potential facilitator between agencies will be hired and expansion of negotiations (to include more than wastewater effluent only) may be included. A letter from Vice Mayor Chappie Jones dated June 18, 2021 requesting Valley Water Board to direct staff to return to the negotiating table with the City was received and staff prepared a response. After the completion of geotechnical analyses on the San Jose and Palo Alto sites, a contract for geotechnical analysis for pipeline alignment from both sites to the Los Gatos Recharge System in the City of Campbell was awarded to Kleinfelder, Inc. on June 22, 2021. The results of these investigations would be included in the P3 Request for Proposal for release this Fall.

Task	Agenda Item	Objective	Accomplishments/Outcomes
<b>Focus 1: Advance the Expedited Purified Water Program by releasing an RFP for at least one locally-sponsored project</b> <i>Advance the Expedited Purified Water Program</i>			
		<u>07/28/21 Objective</u> Received information on the status of the Purified Water Project, including partnerships with Cities of San Jose and Palo Alto.	<u>07/28/21 Accomplishments</u> The Committee was informed that seven Statement of Qualifications were received in response to the P3 RFQ (note that this was later corrected to reflect eight SOQs received), that an outside P3 Legal Counsel had been contracted and that staff continued to develop a performance specification for the Request for Proposal (RFP). A pipeline alignment geotechnical analysis contract was approved at the June 22, 2021 Board meeting and meetings with affected cities and entities continued to gather input on pipeline alignment. The Committee requested that staff come back with an analysis on possible issues between Direct Potable Reuse and Indirect Potable Reuse options for the Purified Water Project. Subsequently, at the August 25, 2021 Recycled Water Committee meeting, staff presented Item 4.2 on Potable Reuse Implementation that provided this analysis.
		<u>08/25/2021 Objective</u> Received information on procurement and technical activities supporting development of the RFP for a P3 project for an indirect potable reuse project.	<u>08/25/21 Accomplishments</u> Chair Estremera informed other Committee members about a meeting with other Valley Water directors with City of San Jose councilmembers regarding the Purified Water Program (PWP) of Valley Water. At the meeting, the City acknowledged the planned recruitment of a facilitator, payment of City staff negotiating hours by Valley Water, involvement of elected officials, the upcoming end-of-year schedule, development of a comprehensive land lease agreement, license issue, and amendment of the present agreement between City and Valley Water. He requested staff to prepare a letter for his signature addressed to Vice Mayor/Councilmember Chappie Jones confirming the immediate actions agreed at the meeting. Subsequently, staff prepared a response that was sent via email by the Chair addressed to Vice Mayor Chappie Jones with cc to mayors and council members of Cities of Santa Clara and San Jose to move forward with facilitated discussions with Valley Water. Finally, the Committee were informed about the final eight statement of qualifications received in response to the July 23, 2021 deadline of RFQ.
		<u>09/22/2021 Objective</u> Received information on partnership discussions.	<u>09/22/2021 Accomplishments</u> The Committee received information about continuing discussion with City of PA to develop terms for a facility ground lease and Reverse Osmosis (RO) concentrate management. With City of San Jose, staff is working on a funding agreement with a mutually agreed upon facilitator. In addition, the Committee was informed that staff has submitted an application to the US Bureau of Reclamation for grant funding of a pilot-scale Treated Water Augmentation Project. This project will be jointly conducted with Stanford and UC Berkeley. Upon approval of the grant application, staff will be seeking adoption of a resolution by the Board of Directors for execution of the grant agreement.
		<u>10/21/2021</u> Received information on update on collaboration with City of San Jose to develop agreement and present agenda items of the October 25, 2021 Joint RWC meeting with Palo Alto, Mountain View, and East Palo Alto.	<u>10/21/2021</u> The Committee was informed that Mr. Paul Brown had been chosen as facilitator of the resumed discussion on the Purified Water Project (PWP) agreement with City of San Jose, and that the scheduled first meeting would be a discussion on the PWP schedule and the directions received from the Board of Directors. Staff mentioned that the Committee would be given an update on the results of the discussion. With City of Palo Alto, the Committee were informed of items planned for discussion at the October 25, 2021 joint meeting, that ongoing collaborative efforts continued on RO concentrate management, and on term sheets of lease agreement of purification site, that Regional Water Board provided a Letter of Concurrence on the feasibility of discharging ROC through the existing outfall at the Palo Alto Regional Water Quality Control Plant, and that compliance for ROC discharge should be achievable based on permit modifications supported by technical studies.
		<u>12/01/2021 Objectives</u> Received update on partnerships, and approve Palo Alto as P3 project site; continuation of staff discussions with City of San Jose for a potential advanced purified water project; and extend funding agreement with City of San Jose through July 1, 2022.	<u>12/01/2021 Accomplishments</u> The Committee was informed that staff made a comprehensive presentation at a Water Conservation & Demand Management Committee meeting on Valley Water's proposed Zone of Controlled Drinking Water Well Construction. Restricting well construction is a requirement for an indirect potable reuse project. In addition, a recent meeting with the Division of Drinking Water (DDW) did not raise any concern on the proposed Well Control Zones. The Committee approved staff's recommendation that subject to successful completion of needed agreements with City of Palo Alto and the CEQA process, Palo Alto will be the site of the P3 project, while discussion with the Cities of San Jose and Santa Clara continue for another potential purified water project, and that funding agreement with City of San Jose be extended to July 1, 2022. The Committee directed staff to agendize immediately and present to the full Board these recommendations, and subsequently, at the December 14, 2021 meeting, the Board gave its full approval.



Task	Agenda Item	Objective	Accomplishments/Outcomes
<b>Focus 1: Advance the Expedited Purified Water Program by releasing an RFP for at least one locally-sponsored project</b> <i>Advance the Expedited Purified Water Program</i>			
1.2	Independent Advisory Panel (Previously Work Plan Item No. 12)	The subject was not discussed during the work plan year.	
1.3	Update on Public Private Partnership [P3] Procurement (Previously Work Plan Item No. 13)	<u>01/15/21 Objective</u> Received update on implementation of the Purified Water Program via P3 approach.	<u>01/15/21 Accomplishments</u> The Committee was informed about the development of a project description that is being developed for the NOP that will include consideration of both Palo Alto and San Jose sites.
		<u>02/24/21 Objective</u> Received update on the environmental process and Industry Day.	<u>02/24/21 Accomplishments</u> The Committee was informed about efforts to develop the Notice of Preparation (NOP) which is Valley Water's first formal notification of intent to proceed with the project. Industry Day, an event that will provide overview of the project and the procurement process to potential private entities, will follow after release of NOP.
		<u>03/29/21 Objective</u> Received information on virtual Public Scoping Meeting event.	<u>03/29/21 Accomplishments</u> The Committee was informed that an overview of the project, the planning process, and how to provide feedback related to environmental impacts that will form part of the environmental review process was presented at the event. A total of 73 participants attended via Zoom and Facebook live. Santa Clara Council members Karen Hardy and Kevin Park were in attendance. Participants were encouraged to provide formal comments on the NOP for consideration in the environmental review process.
		<u>03/30/21 Objective</u> Received information on virtual Public - Private Partnerships (P3) Industry Day event.	<u>03/30/21 Accomplishments</u> The Committee was informed that an overview of the project, the procurement background, description of the anticipated scope, transaction structure and procurement timeline were presented to participants. The project received strong international attention by potential firms.
		<u>06/23/21 Objective</u> Received information on status of the Purified Water Project.	<u>06/23/21 Accomplishments</u> The Committee was informed that the deadline for submission of Statement of Qualifications has been extended to July 23, 2021 from June 25, 2021 to allow potential bidders more preparation time.
		<u>07/28/21 Objective</u> Receive information on P3 Procurement.	<u>07/28/21 Accomplishments</u> The Committee was informed that seven Statement of Qualifications were received in response to the P3 RFQ (note that this was later corrected to reflect eight SOQs received), that an outside P3 Legal Counsel had been contracted).
		<u>08/25/21 Objective</u> Received information on procurement and technical activities supporting development of the RFP for a P3 Indirect Potable Project for a P3 IPR project.	<u>08/25/21 Accomplishments</u> The Committee was informed that eight statements of qualifications were received in response to the July 23, 2021 deadline for Request for Qualifications, and that there would be a schedule adjustment of RFP release from November 2021 to early 2022. In addition, the Committee was informed about a plan by the City of Palo Alto on an upcoming homeless shelter development beside the potential purified water facility site in Palo Alto, and that there would be no anticipated noise, or smell impact in the area from the planned purification site.
		<u>09/22/2021 Objective</u> Received information on P3 procurement status.	<u>09/22/2021 Accomplishments</u> The Committee was informed that virtual interviews were held with each of the eight entities that responded to the RFP, that a short list could be presented to the Committee within a month, and that staff continued working on geotechnical assessment and draft Environmental Impact Report in preparation for the RFP.
		<u>10/21/2021 Objectives</u> Received update on Public Private Partnership.	<u>10/21/2021 Accomplishments</u> The Committee was informed that review of eight statements of qualifications were ongoing.
<u>12/01/2021 Objectives</u> Received update on Public Private Partnership.	<u>12/01/2021 Accomplishments</u> The Committee was informed that from the eight Statement of Qualifications, four entities, including one that was added to the initial three short listed respondents, would be invited to proceed into the Request for Proposal phase, and that staff continued to draft a project agreement, and complete technical requirements for the release of the draft EIR in the first quarter of CY2022.		

Task	Agenda Item	Objective	Accomplishments/Outcomess
<b>Focus 2: Implement the CoRe Plan</b>			
2.1	Countywide Water Reuse Master Plan (Previously Work Plan Item No. 2)	<u>03/04/21 Objectives</u> Received information on virtual Stakeholder Task Force Meeting for the CoRe Plan	<u>03/04/21 Accomplishments</u> This Stakeholder Task Force Meeting was attended by about fifty diverse representatives from business, regional public policy, academia, environmental, recycled/wastewater, water retailers, and Valley Water CoRe Plan project partners. Highlights of the meeting were discussion of the draft CoRe released since the last task force meeting in 2018, flexible implementation of a 10 MGD indirect potable reuse project to the Los Gatos Recharge System via P3 procurement, summary of implementation planning, next steps, and potential future reuse opportunities.
		<u>06/23/21 Objectives</u> Received information on the status, findings, and next steps for the Countywide Water Reuse Master Plan, and recommend presentation of the Final CoRe Plan to the Board of Directors.	<u>06/23/21 Accomplishments</u> The Committee received information on the composition and highlights of the Countywide Water Reuse Master Plan (CoRe Plan). The CoRe plan includes an executive summary, expanded discussion of fiscal and rate impacts, evaluation of onsite non-potable reuse opportunities, CEQA programmatic recommendations, and illustrations for phased project implementation. The CoRe plan serves as the technical basis of the Purified Water Project.
2.2	Joint Mtg Prep/Debrief: TPAC (Previously Work Plan Item No. 3)	The subject was not discussed during the work plan year.	
2.3	Joint Mtg Prep/Debrief: Cities of Palo Alto/Mtn View (Previously Work Plan Item No. 4)	<u>01/15/21 Objectives</u> Received information and provide feedback.	<u>01/15/21 Accomplishments</u> The Committee was provided a list of agenda items for the February 4, 2021 Joint Recycled Water Policy Committee with Palo Alto, East Palo Alto, and Mountain View. At the joint meeting, the Committee received information on potable and enhanced non-potable reuse, blending issues, task force meeting highlights, recycled water master planning, water use locations/recharge facilities, partner funding opportunities, and improved water quality options.
		<u>05/26/21 Objectives</u> Received information and provide feedback.	<u>05/26/21 Accomplishments</u> The Committee was provided a list of agenda items for the June 4, 2021 Joint Recycled Water Policy Committee with Palo Alto, East Palo Alto, and Mountain View. At the meeting, discussions focused on suggested outreach to specific organizations, wetlands delineation, risk allocation definition, project schedule, presentation event on June 18, 2021, and the drought emergency.
2.4	Joint Mtg Prep/Debrief: City of Sunnyvale (Previously Work Plan Item No. 5)	The subject was not discussed during the work plan year.	
2.5	Update on SFPUC/BAWSCA Collaboration Efforts (Previously Work Plan Item No. 6)	The subject was not discussed during the work plan year.	
Task	Agenda Item	Objective	Accomplishments/Outcomess
<b>Focus 3: Continue to monitor Direct Potable Reuse (DPR) guidance and implement actions as needed.</b>			
<i>Continue to monitor Direct Potable Reuse</i>			
3.1	Actively Engage in Direct Potable Reuse	<u>02/24/21 Objective</u> Recommended Board approval of amendment of the 2021 Legislative Guiding Principles to revise Principle 1, A, 3 regarding recycled water to bolster advocacy for direct potable reuse regulations.	<u>02/24/21 Accomplishments</u> The Committee approved a staff recommendation to recommend that the Board amend Principle 1, A, 3 of the Legislative Guiding Principles from a general statement to a more specific guiding principle that is, <b>“Support and advocate for the DPR of purified recycled water through Raw Water Augmentation and Treated Water Augmentation, specifically advocating for the State Water Board to promulgate criteria and authorization for these purposes.”</b> Subsequently, after the 2/24/21 RWC meeting, the Office of Govt. Relations, presented and received full approval from the full Board.
		<u>08/25/21 Objective</u> Received information on the challenges of implementing an IPR or DPR project.	<u>08/25/21 Accomplishments</u> The Committee received information on the challenges of implementing an IPR or DPR project on the basis of infrastructure cost, implementation time, public perception, institutional complexity, pipeline length, and technology considerations.
Task	Agenda Item	Objective	Accomplishments/Outcomess
<b>Focus 4: Finalize negotiations on term sheet for South County recycled water and agreement on governance</b>			
<i>South County Recycled Water Agreement and Governance</i>			
4.1	South Santa Clara County Water Reuse Opportunities (Previously Work Plan Item No. 16)	<u>02/24/21 Objective</u> Received information and provide feedback.	<u>02/24/21 Accomplishments</u> The Committee was informed that a new joint advisory committee composed of designated members from each agency is tentatively scheduled to meet in April 2021. This was a result of the Board Chairperson reaching out to both cities to develop an agreement that promotes expanded water reuse in South County. Staff is working to schedule a meeting to discuss expanded opportunities for recycled water in South County.

Task	Agenda Item	Objective	Accomplishments/Outcomes
<b>Focus 4: Finalize negotiations on term sheet for South County recycled water and agreement on governance</b>			
<i>South County Recycled Water Agreement and Governance</i>			
4.1	South Santa Clara County Water Reuse Opportunities (Previously Work Plan Item No. 16)	07/28/21 Objectives Received information and provide feedback.	07/28/21 Accomplishments The Committee was informed that the Cities of Gilroy and Morgan Hill had indicated joint interest for enhanced water reuse collaboration through the Joint Water Resources Committee, and that an August 4, 2021 meeting was scheduled among the cities and Valley Water to discuss a CoRe Plan update, opportunities for water reuse expansion collaboration and implementation in South County, and an update on the drought conditions.
		12/01/21 Objectives Received information and provide feedback.	12/01/21 Accomplishments The Committee was informed about topics discussed during the monthly meetings of the South County Technical Working Group since its first meeting in August 2021 that included a review of its work group purpose; each agency's water supply expectations and impact on future water rates; development of a new comprehensive agreement; planning documents and processes already undertaken in south county; the CoRe Plan as basis to evaluate water reuse and purified water opportunities for south county; and water supply planning process developed by the Cities of Morgan Hill and Gilroy.
4.2	South Santa Clara County Water Reuse and Governance (Previously Work Plan Item No. 17)	Please refer to Item 4.1 above.	
Task	Agenda Item	Objective	Accomplishments/Outcomes
<b>Others</b>			
0.1	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 (Previously Work Plan Item No. 10)	07/28/21 Objectives Received and discussed information on the Refinery Recycled Water Exchange Project (RRWE)	07/28/21 Accomplishments The Committee was informed about the Refinery Recycled Water Exchange Project that may provide Valley Water up to 9,000 acre-feet per year of new water supply, the MOU entered into by project partners to estimate potential yield, and the potential recycled water treatment trains to determine costs. Central Contra Costa Sanitary District (CCCS) would design, build and operate a recycled water facility to provide recycled water to Contra Costa Water District (CCWD) to serve their two existing oil refinery customers and CCWD will provide Valley Water the CVP contract supply that would have otherwise gone to those refineries. The Committee also received information on preliminary cost allocation using two water delivery scenarios, uncertainties on the RRWE project from impact of low CVP allocations on project yield; future reductions in refinery customer demands, physical capacity constraints on the CCWD conveyance system, Transfer-Bethany pipeline and Valley Water's local system, and CCWD CVP contract and water transfer constraints. The Committee announced that the full Board would be informed about the RRWE project. Subsequently, the full Board received an update on the RRWE feasibility analysis published on the CEO Bulletin, the week of November 19-December 9, 2021.
0.2	Evaluate and propose policy options related to centralized and decentralized reuse for Committee's consideration (Previously Work Plan Item No. 9)	The subject was not discussed during the work plan year.	
0.3	Update on Bottling Purified Water at the SVAWPC (Previously Work Plan Item No. 11)	06/23/21 Objective Receive information and provide feedback.	06/23/21 Accomplishments The Committee was informed that since March 2020 when DDW transmitted their comments on Valley Water's draft Implementation Plan, the bottling project had experienced COVID-19 impacts, staffing constraints both internally and with DDW, and shifting project priorities. Staff discussed Trussel Technologies, being hired to assist with the development of an Operations Plan, provide resource support, and to develop a testing schedule. Staff also reported that the Operations Plan satisfies DDW regulatory requirements for bottled water. At this time, the Implementation Plan has been completed and a UV/AOP Validation Plan has been prepared which outlines tests for validating a pilot-scale system and operating conditions to meet regulatory requirements for bottled water.

Task	Agenda Item	Objective	Accomplishments/Outcomes
<b>Others</b>			
0.4	Urban Runoff Study with Stanford University (Previously Work Plan Item No. 14)	<u>06/23/21 Objective</u> Receive information and provide feedback.	<u>06/23/21 Accomplishments</u> The Committee received information from Stanford Professor, Mr. Richard Luthy, on the work done by the City of Los Angeles on stormwater capture to reduce dependence on imported water supply. Professor Luthy mentioned actions by the City of L.A. such as a Storm Water Capture Master Plan developed by the Los Angeles Department of Water and Power, purchase of a 40-acre sand and gravel site to recharge water, and decentralization of systems on dry wells. He also presented outcome of work by his student, Mr. John Bradshaw, Stanford Ph D student, that showed a centralized stormwater approach would have a bigger influence on storm water capture than decentralized, using for example a line from Coyote Creek to SVAWPC. The Committee requested staff to agendize this item at a future Committee meeting, and for the Chair and CEO to present to the full Board for their information.
0.5	Outreach Efforts (Previously Work Plan Item No. 15)	<u>01/15/21 Objective</u> Received update on implementation of Purified Water Program.	<u>01/15/21 Accomplishments</u> The Committee received information about a planned virtual focus groups in February 2021 and requested staff to agendize this item at a future RWC meeting. Subsequently, at the February 24, 2021 RWC meeting, this item was agendized and accomplishments are seen below.
		<u>02/24/21 Objective</u> Received information on community outreach and engagement efforts for the Purified Water Program.	<u>02/24/21 Accomplishments</u> The Committee was informed the expansion of the Purified Water Program would involve construction of a new purification center, pipelines and associated facilities, and in response staff has expanded the outreach efforts beyond just education and raising awareness of benefits of water reuse, and included more target outreach to key stakeholders. Staff had compiled a list of key stakeholders that included elected officials, faith-based organizations, diversity groups, neighborhood and civic groups, business leaders, youth, health industry professional and other community leaders. EMC Research Consultant held a Focus Group event on February 2, 2021 composed of San Jose, Campbell, Los Gatos, Palo Alto, and Mountain View residents which showed that awareness of groundwater and concern about water supply is low, and that water cleanliness and safety are of high importance to them.
		<u>05/26/21 Objective</u> Received information and provide feedback.	<u>05/26/21 Accomplishments</u> The Committee was informed about a virtual tour of the SVAWPC with two faith-based groups and the start of this year's Public Perception Survey Poll on Advance Purified Water and Public Outreach Update with results to be presented to the Committee in September.
		<u>06/23/21 Objective</u> Received information on the status of the Purified Water Project, including partnerships with Cities of San Jose and Palo Alto.	<u>06/23/21 Accomplishments</u> The Committee was informed that public outreach on the Purified Water Project was included in the BeHeard Web page.
		<u>08/25/21 Objectives</u> Received presentation of Public Perception Survey Poll and Focus Groups Results on Advanced Purified Water and Public Outreach Update.	<u>08/25/21 Accomplishments</u> The Committee received informaton on the result of a countywide survey by EMC Research to collect data on public perception toward water reuse. Key takeaways from the survey results were "Advanced purified recycled water for drinking" continues to be an easily understood phrase; majority support on the use of advanced purified recycled water; among those who opposed, over half identify safety and health concerns or lack of trust and familiarity with the purification methods; and 65% support for advanced purified water into the groundwater supply or the treatment plant, the portion who support adding it directly to tap water is lower. The Committee requested that Ms. Gina Adriano take her presentation on Public Outreach Update to the 25th District of Assemblyman Alex Tinming Lee to gain support for VW's recycled water program. Subsequently, on October 8, 2021, Assemblyman Alex Lee attended in-person at the Silicon Valley Advanced Water Purification Center, where Ms. Adriano and other staff from the project team were on hand to provide an in depth look at the center and the purification process, as well as answered questions about the expanded Purified Water Project. Director Richard Santos was also present at the tour.
		<u>09/22/21 Objectives</u> Received information on outreach.	<u>09/22/21 Accomplishments</u> The Committee was informed that staff continued to make presentations to several community and faith-based organizations in San Jose and Palo Alto to promote the Purified Water Project. Outreach staff presented on the Purified Water Project to various environmental groups at the Peninsula Conservation Center Council meeting on August 5.

Task	Agenda Item	Objective	Accomplishments/Outcomess
<b>Others</b>			
		<u>10/21/2021 Objectives</u> Received information on outreach.	<u>10/21/2021 Accomplishments</u> The Committee was informed about outreach to faith-based organizations, and the Santa Clara County Medical Association Environmental Committee, and that letters of support from other organizations were pursued. Additional public forum to obtain feedback is planned in preparation for the draft EIR early next year. An ongoing campaign for the 15 percent mandatory conservation goal would be launched in the next few weeks with the slogan, " <b>Purified Water and Conservation, Together our Future is Drought-proof.</b> "

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## DRAFT RWC 2022 WORKPLAN

Task	Agenda Item												
		January	February	March	April	May	June	July	August	September	October	November	December
<b>Focus 1: Advance the Purified Water Program by releasing an RFP for at least one locally-sponsored project</b>													
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	X	X
1.2	Independent Advisory Panel.			X									
1.3	Update on Public Private Partnership [P3] Procurement.	X		X	X	X	X	X	X	X	X	X	X
<b>Focus 2: Implement the CoRe Plan</b>													
2.1	Implement the Countywide Water Reuse Master Plan (CoRe Plan)							X					
2.2	Joint Mtg Prep/Debrief: TPAC			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.												
<b>Focus 3: Continue to monitor Direct Potable Reuse (DPR) guidance and implement actions as needed.</b>													
3.1	Actively Engage in Direct Potable Reuse				X					X			
<b>Focus 4: Finalize negotiations on term sheet for South County recycled water and agreement on governance</b>													
4.1	South Santa Clara County Water Reuse <u>Collaboration Opportunities</u> .			X			X		X				
4.2	South Santa Clara County Water Reuse and Governance.												
<b>Others</b>													
0.1	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					
<del>0.2</del>	<del>Evaluate and propose policy options related to centralized and decentralized reuse for Committee's consideration.</del>												
<del>0.3</del> 0.2	Update on Bottling Purified <u>and water tasting station</u> at the SVAWPC.	X						X					
<del>0.4</del> 0.3	Urban Runoff Study with Stanford University.	X					X			X			
<del>0.5</del> 0.4	Outreach Efforts.	X		X	X	X	X	X	X	X	X	X	X

\*Blue strikes - items added on updated work plan

\*Red strikes - items deleted from current work plan

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# Santa Clara Valley Water District

File No.: 22-0049

Agenda Date: 2/1/2022  
Item No.: 4.5.

## COMMITTEE AGENDA MEMORANDUM

### Recycled Water Committee

**SUBJECT:**

Election of 2022 Recycled Water Committee Chairperson and Vice Chairperson.

**RECOMMENDATION:**

Nominate and elect the 2022 Recycled Water Committee Chairperson and Vice Chairperson.

**SUMMARY:**

The Recycled Water Committee was enacted by the Board of Directors for the purpose of developing a long term proposal for how Valley Water can work with other local agencies on recycled water opportunities, and to establish a collaborative process to facilitate policy discussion and sharing of technical information on recycled water issues.

The Committee consists of three members, who represent the District on all the Joint Recycled Water Committees. The Committee was created to serve a limited or single purpose, not perpetual, and will be disbanded once their specific task is completed.

Officers of the Committee include the Committee Chairperson and Vice Chairperson, who serve as the Committee’s primary and secondary facilitators and representatives. The Committee Chairperson and Vice Chairperson are elected by the Committee annually.

The following is a summary of Recycled Water Committee Chairperson and Vice Chairperson terms, since the Committee’s 2016 enactment by the Board of Directors.

	Chairperson	Vice Chairperson
2016	T. Estremera	G. Kremen
2017	T. Estremera	B. Keegan
2018	T. Estremera	B. Keegan
2019	T. Estremera	B. Keegan
2020	T. Estremera	B. Keegan
2021	T. Estremera	G. Kremen

**ATTACHMENTS:**

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**File No.:** 22-0049

**Agenda Date:** 2/1/2022  
**Item No.:** 4.5.

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None.

**UNCLASSIFIED MANAGER:**

Michele King, 408-630-2711