

May 17, 2023

MEETING NOTICE
SANTA CLARA VALLEY WATER DISTRICT
RECYCLED WATER COMMITTEE

Members of the Recycled Water Committee:

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

Staff Support of the Recycled Water Committee:

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

A Santa Clara Valley Water District regular Recycled Water Committee meeting has been scheduled to occur at 12:00 p.m. on Wednesday, May 24, 2023, in the Headquarters Building Boardroom located at the Santa Clara Valley Water District, 5700 Almaden Expressway, San Jose, California.

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

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

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

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



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>

REGULAR MEETING AGENDA

**Wednesday, May 24, 2023
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

During the COVID-19 restrictions, all public records relating to an open session item on this agenda, which are not exempt from disclosure pursuant to the California Public Records Act, that are distributed to a majority of the legislative body, will be available to the public through the legislative body agenda web page at the same time that the public records are distributed or made available to the legislative body. Santa Clara Valley Water District will make reasonable efforts to accommodate persons with disabilities wishing to participate in the legislative body's meeting. Please advise the Clerk of the Board Office of any special needs by calling (408) 265-2600.

KIRSTEN STRUVE
Committee Liaison

NICOLE MERRITT
Assistant Deputy Clerk II
Office/Clerk of the Board
(408) 265-3262
nmerritt@valleywater.org

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

**Santa Clara Valley Water District
Recycled Water Committee
REGULAR MEETING
AGENDA**

Wednesday, May 24, 2023

12:00 PM

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

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

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

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

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

In accordance with the requirements of Gov. Code Section 54954.3(a), members of the public wishing to address the Board/Committee 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.

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

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

This agenda has been prepared as required by the applicable laws of the State of California, including but not limited to, Government Code Sections 54950 et. seq. and has

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 March 22, 2023 Recycled Water Committee Minutes. [23-0588](#)
Recommendation: Approve the minutes.
Manager: Candice Kwok-Smith, 408-630-3193
Attachments: [Attachment 1: 03/22/23 RWC Meeting Minutes](#)
Est. Staff Time: 5 Minutes

4. REGULAR AGENDA:

- 4.1. Receive Purified Water Program Update including Partnerships with Cities of San Jose and Palo Alto and Outreach Efforts on Purified Water. [23-0393](#)
Recommendation: Receive an update and provide feedback on the following topics:
A. Collaboration with the City of Palo Alto and Other Partners; and
B. Outreach Efforts on Purified Water.
Manager: Kirsten Struve, 408-630-3138
Attachments: [Attachment 1: Letter \(CSJ\)](#)
[Attachment 2: Letter \(CSC\)](#)
Est. Staff Time: 10 Minutes
- 4.2. Receive South Santa Clara County Water Reuse Collaboration Update. [23-0414](#)
Recommendation: Receive South Santa Clara County Water Reuse Collaboration Update including an update on the Technical Work Group's (TWG) discussions and provide feedback.
Manager: Kirsten Struve, 408-630-3138
Attachments: [Attachment 1: PowerPoint](#)
Est. Staff Time: 10 Minutes
- 4.3. Receive Bottling Purified Demonstration Water and On-Site Purified Water Tasting at the Silicon Valley Advanced Water Purification Center (Purification Center) Update. [23-0418](#)
Recommendation: Receive information and provide feedback on staff's efforts to develop a project that bottles advanced purified water for demonstration and outreach purposes.
Manager: Kirsten Struve, 408-630-3138
Attachments: [Attachment 1: PowerPoint](#)
Est. Staff Time: 10 Minutes

- 4.4. Receive Potential Amount of Available Wastewater for Water Reuse Update. [23-0419](#)
Recommendation: Receive information and provide feedback.
Manager: Kirsten Struve, 408-630-3138
Attachments: [Attachment 1: PowerPoint](#)
Est. Staff Time: 10 Minutes
- 4.5. Receive the Joint Recycled Water Policy Advisory Committee (City of San Jose/Valley Water/City of Santa Clara) Meeting of April 13, 2023 Update. [23-0547](#)
Recommendation: Receive information regarding the April 13, 2023 Joint Recycled Water Policy Advisory Committee (City of San Jose/Valley Water/City of Santa Clara) meeting, and provide feedback.
Manager: Kirsten Struve, 408-630-3138
Est. Staff Time: 5 Minutes
- 4.6. Receive Upcoming 7th Independent Advisory Panel Meeting for Evaluation of the Purified Water Program and Related Efforts Update. [23-0527](#)
Recommendation: Receive information on the 7th meeting of the Independent Advisory Panel for evaluation of Santa Clara Valley Water District's Purified Water Program and related efforts update.
Manager: Kristen Struve, 408-630-3138
Attachments: [Attachment 1: PowerPoint](#)
Est. Staff Time: 5 Minutes
- 4.7. Receive and Discuss the 2023 Recycled Water Committee Work Plan, Upcoming Discussion Items, and Next Meeting Date. [23-0590](#)
Recommendation: Receive information on the 2023 Recycled Water Committee Work Plan and provide feedback on upcoming discussion items and next meeting date.
Manager: Kirsten Struve, 408-630-3138
Attachments: [Attachment 1: 2023 Revised Work Plan](#)
Est. Staff Time: 5 Minutes
5. **CLERK REVIEW AND CLARIFICATION OF COMMITTEE REQUESTS.**
This is an opportunity for the Clerk to review and obtain clarification on any formally moved, seconded, and approved requests and recommendations made by the Committee during the meeting.
6. **ADJOURN:**
- 6.1. Adjourn to Regular Meeting at 12:00 p.m., on June 28, 2023.

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Santa Clara Valley Water District

File No.: 23-0588

Agenda Date: 5/24/2023

Item No.: 3.1.

COMMITTEE AGENDA MEMORANDUM Recycled Water Committee

Government Code Section 84308 Applies: Yes ☐ No ☒
(If "YES" Complete Attachment A)

SUBJECT:

Approval of March 22, 2023 Recycled Water Committee Minutes.

RECOMMENDATION:

Approve the minutes.

SUMMARY:

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

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

ATTACHMENTS:

Attachment 1: 03/22/23 RWC Meeting Minutes

UNCLASSIFIED MANAGER:

Candice Kwok-Smith, 408-630-3193

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RECYCLED WATER COMMITTEE MEETING

MINUTES

**WEDNESDAY, MARCH 22, 2023
12:00 PM**

(Paragraph numbers coincide with agenda item numbers)

1. ROLL CALL.

A regular meeting of the Santa Clara Valley Water District (Valley Water) Recycled Water Committee (Committee) was called to order at 12:00 p.m. on March 22, 2023, at the Headquarters Building Boardroom, 5700 Almaden Expressway, San Jose, CA 95118 and via Zoom teleconference.

1.1. Roll Call

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

Staff participating were Gina Adriano, Emmanuel Aryee, Hossein Ashktorab, Aaron Baker, Henry Barrientos, Rick Callender, Anthony Fulcher, Vincent Gin, Samantha Greene, Chris Hakes, Lei Hong, Girlie Jacobson, Jessica Lovering, Tony Ndah, Carlos Orellana, Leslie Orta, Melanie Richardson, Mario Rivas, Don Rocha, Medi Sinaki, Kirsten Struve, Charlene Sun, Dave Tucker, and Hannah Young.

Guests in attendance were Phillippe Daniel, John Davel, Pat Ferraro, Susan Hinton, Charlie Liu, and Sanjay Reddy.

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 present who wished to speak.

3. Approval of February 22, 2023 Recycled Water Committee Minutes.

Recommendation: Approve the Minutes.

It was moved by Director Santos, seconded by Director Beall to approve the minutes of February 22, 2023, as presented.

4. ACTION ITEMS:

4.1 Receive Update on Purified Water Program including Partnership with Cities of San Jose and Palo Alto.

Recommendation: Receive updates and provide feedback on the following topics:
A. Collaboration with the City of Palo Alto and Other Partners;
and
B. Outreach Efforts on Purified Water.

Kirsten Struve, Assistant Officer, reviewed the information on this item, per the attached Committee agenda memo.

The Committee received the following information:

- A sign was installed on the proposed project site at the former Los Altos Treatment Plant to let the public know about the purified water project.
- The most significant pipeline realignment was in Mountain View and no longer through the NASA property.
- Staff is working with the Palo Alto Fire Department on required codes for chemical storage at the treatment facility.
- The funding agreement that would be agendized at a future City of Palo Alto council meeting would be a consent item on funding for city staff collaboration with Valley Water.
- Palo Alto's Planning process required the council to hear about the project at an upcoming council meeting. The council has three newly elected members since Valley Water presented the Purified Water Project to their council at their September 12, 2022 meeting. An update was being planned to update the council on the Purified Water Project.

The Committee made the following requests of staff:

- Chairperson Estremera requested that, as an agency effort, staff prepare a letter to be signed by Chair of Valley Water Board and addressed to the City of San Jose mayor and council, to support the expansion and continuing negotiations with recycled water; and added that this request would also be brought up with the Board Chair.
- Chairperson Estremera requested that staff come back with a report on Lake Cunningham related to environmental water quality issue and include information to the planned letter to the City of San Jose on how Valley Water could assist. Melanie Richardson, Assistant Chief Executive Officer, stated that the water quality analysis done for the Lower Silver Creek and Lake Cunningham flood protection would be provided to this Committee as a background as well as a staff presentation at a future Committee meeting.

Pat Ferraro, of undisclosed affiliation, suggested that Valley Water increase its marketing effort on non-potable water and encourage connection to purple pipes. Kirsten Struve mentioned that purple pipe was initiated to meet wastewater regulatory requirements in the 1990's and would be included in the discussion of the next item on Joint Recycled Water Policy Advisory Committee.

The Committee noted the information without taking a formal action.

Chairperson Estremera moved the agenda to Item 4.3. Item 4.2 was not discussed.

4.3 Update on Desalination as a Potential Water Supply Source in Santa Clara County.

Recommendation: Receive updates and information on desalination as a potential water supply in Santa Clara County and provide feedback to staff.

Henry Barrientos, Senior Water Resources Specialist, reviewed the information on this item, per the attached Committee agenda memo and the information contained in Attachment 1.

The Committee received information on the Environmental Feasibility Study (Feasibility Study) for the development of a 10 MGD seawater desalination project as an alternative water supply in the county with the study estimated to be completed by the end of April 2023. The Committee also received information regarding siting for a desalination facility as well as the CPV water exchange with Contra Costa Water District, and ongoing collaboration between Valley Water and the Bay Area Regional Desalination Project, and potential partnership with SFPUC.

The Committee requested that staff come back with a more in depth and updated information on energy cost as it relates to each water supply option on Slide 3 of Attachment 1, as well as according to use of water, and source energy; and that staff provide the Committee a copy of the Feasibility Study when available.

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

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

Chairperson Estremera confirmed the next meeting date on April 26, 2023.

Kirsten Struve recapped the work plan items as follows:

- Formal letter to San Jose Council to discuss expansion and move quickly. This could also be discussed at the Joint Recycled Water Policy Advisory Committee and the Environmental and Transportation & Environmental Committee of the City of San Jose;
- Bring back information on Silver Creek, Lake Almaden recycled water consideration, and streamflow augmentation to help answer if recycled water could be used for Lake Cunningham.
- Bring back desalination item as well as SFPUC partnership and energy use.

Director Beall reported on state budget and legislative proposals for funding water treatment facilities. Director Santos reported on meeting with downtown developers that indicated support for recycled water.

5. ADJOURN.

Chairperson Estremera adjourned the meeting at 1:10 p.m. to the next meeting scheduled to occur at 12:00 p.m. on April 26, 2023. Subsequently, the April 26, 2023 date was cancelled. The next meeting of this Committee would be on May 24, 2023.

Approved:

Eva M. Sans
Assistant Deputy Clerk II



Santa Clara Valley Water District

File No.: 23-0393

Agenda Date: 5/24/2023

Item No.: 4.1.

COMMITTEE AGENDA MEMORANDUM Recycled Water Committee

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

SUBJECT:

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

RECOMMENDATION:

Receive an update and provide feedback on the following topics:

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

SUMMARY:

A. Collaboration with the City of Palo Alto and Other Partners

Santa Clara Valley Water District (Valley Water) continues to meet with the City of Palo Alto (Palo Alto) staff to finalize agreements for the proposed future purification facility in Palo Alto, including a lease agreement for the former Los Altos Treatment Plant site. Staff meets every two weeks with Palo Alto's Planning Department. Staff is also coordinating with Palo Alto's Utilities and Fire Department on requirements for the purification facility. On April 26, 2023, staff presented for the second time to Palo Alto's Development Review Committee to discuss feedback previously received and the sequence of future approvals.

The funding agreement for Palo Alto staff was heard by the Palo Alto City Council on April 17th and approved. Staff from both agencies also met with the San Francisco Bay Regional Water Quality Control Board to discuss reverse osmosis concentrate discharge.

Collaboration with cities and entities along the pipeline route are continuing as are discussions with the Cities of San José and Santa Clara regarding a future project in San José. As requested by the Committee in March, a letter to the elected officials in these cities from our chair was brought for approval to the full Board, and a Joint Recycled Water Policy Committee with the Cities of San José and Santa Clara was held on April 13, 2023.

B. Outreach Efforts on Purified Water

Staff continues to conduct public and private tours at the Silicon Valley Purification Center (Purification Center). Public in-person tours are held on the first Friday and second Saturday of every month. Residents and organizations can request private tours through our purewater4u.org website. Staff acquired new purified demonstration water bottles from Orange County Water District (OCWD) and has been providing taste tests to in-person tour attendees at the Purification Center. Staff will continue to use OCWD's water until Valley Water is able to begin bottling its own advanced purified demonstration water.

In the months of March and April, we conducted 23 Purification Center tours with over 400 attendees, including three private tours with San Jose Councilmember Omar Torres, Councilmember Pam Foley, and the San Jose Chamber of Commerce. We are also continuing our relationships with local universities and public libraries. Staff conducted two virtual tours with Mountain View Public Library and Sunnyvale Public Library. We hosted a tour for a wastewater management class from Stanford University and we are currently working with the University of San Francisco to offer a similar tour to their graduate class. Staff sponsored and tabled at San Jose State University's annual Earth Day event on April 20, where students participated in taste tests of advanced purified demonstration water. Valley Water also staffed a table at a Santa Clara University's multicultural event and offered in-person tours to students.

ATTACHMENTS:

Attachment 1: Letter (CSJ)

Attachment 2: Letter (CSC)

UNCLASSIFIED MANAGER:

Kirsten Struve, 408-630-3138



April 11, 2023

Honorable Matt Mahan
City of San José Mayor
200 East Santa Clara Street, 18th Floor
San Jose, CA 95113

Dear Mayor Mahan and City Council:

As our region continues to face the reality of extreme weather, be it reoccurring and extreme droughts or back-to-back atmospheric river storms, one thing is for certain: we need to work together to proactively plan for such climate extremes and uncertainties. This includes investing in recycled and purified water technologies for the future.

I would like to take this opportunity to thank you for your leadership as the Mayor of San José and the entire City Council for your collective time and efforts as we work jointly to advance the use of purified water. Our history of strong collaboration is demonstrated by the existing Silicon Valley Advanced Water Purification Center (SVAWPC), which many of your Council colleagues have had the opportunity to tour and express support for continuing our joint leadership to expand this technology. Expanding use of purified water for drinking water purposes is critical to not only Valley Water and the City of San José to ensure a drought-proof, locally controlled water supply for our region, but also to the entire County and State of California.

I am very pleased that our agencies have jointly executed a Letter of Intent that describes our mutual goals, the steps, and process to develop a collaborative agreement, as well as a timeline, following a facilitated process mutually agreed upon.

In the spirit of this collaboration, I would like to request that we utilize the existing Joint Recycled Water Policy Advisory Committee (JRWPAC) to continue and further our discussions on expanding the SVAWPC as outlined in our existing agreement that initially established the purification center. More frequent meetings of this committee, which includes members from Valley Water and the Cities of San José and Santa Clara, would allow us to expedite agreements needed to expand the purification center. We are, of course, happy to discuss alternatives, such as involvement of the City's Transportation and Environment Committee and consultation with the Treatment Plant Advisory Committee (TPAC). I would encourage you to ensure appropriate City staff resources are assigned to support these negotiations.

We look forward to our continued discussions, as we build on your leadership towards City Council action and appreciate your effort towards making progress on this critical new water supply project. We would be happy to meet with you to discuss how we can jointly pursue a successful path forward. Further, we would like to invite you to tour the SVAWPC. Thank you for your time and consideration; it is greatly appreciated.

Sincerely,

DocuSigned by:

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John L. Varela
Chair, Board of Directors

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April 11, 2023

Honorable Lisa Gillmor
City of Santa Clara
1500 Warburton Avenue
Santa Clara, CA 95050

Dear Mayor Gillmor and City Council:

As our region continues to face the reality of extreme weather, be it reoccurring and extreme droughts or back-to-back atmospheric river storms, one thing is for certain: we need to work together to proactively plan for such climate extremes and uncertainties. This includes investing in recycled and purified water technologies for the future.

I would like to take this opportunity to thank you for your leadership as the Mayor of Santa Clara and the entire City Council for your collective time and efforts as we work jointly to advance the use of purified water. Our history of strong collaboration is demonstrated by the existing Silicon Valley Advanced Water Purification Center (SVAWPC). Expanding use of purified water for drinking water purposes is critical to not only Valley Water and the Cities of San José and Santa Clara to ensure a drought-proof, locally controlled water supply for our region, but also to the entire County and State of California.

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We look forward to our continued discussions, as we build on your leadership towards City Council action and appreciate your effort towards making progress on this critical new water supply project. We would be happy to meet with you to discuss how we can jointly pursue a successful path forward. Further, we would like to invite you to tour the SVAWPC. Thank you for your time and consideration; it is greatly appreciated.

Sincerely,

DocuSigned by:

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John L. Varela
Chair, Board of Directors

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Santa Clara Valley Water District

File No.: 23-0414

Agenda Date: 5/24/2023

Item No.: 4.2.

COMMITTEE AGENDA MEMORANDUM Recycled Water Committee

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

SUBJECT:

Receive South Santa Clara County Water Reuse Collaboration Update.

RECOMMENDATION:

Receive South Santa Clara County Water Reuse Collaboration Update including an update on the Technical Work Group's (TWG) discussions and provide feedback.

SUMMARY:

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

- South County Water Reuse Interagency Agreements;
- South County Recycled Water Master Planning;
- South County Water Recycling Updates; and
- April 2023 Joint Water Resources Committee Meeting.

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

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

The JWRC's recommendation was subsequently discussed and approved during a special joint meeting of the Valley Water Board and the City Councils of Gilroy and Morgan Hill. At the request of their Mayor, the Gilroy City Council adopted a slightly amended resolution that included provisions to advance water reuse and purified water production, distribution and wholesaling in South County that is beyond the South County Regional Wastewater Authority (SCRWA) and includes water purification.

The TWG has been meeting almost monthly since September 2021, and includes staff from Gilroy, Morgan Hill, and Valley Water. The Recycled Water Committee has received workgroup updates in December 2021, March 2022 and September 2022 that have presented our interagency collaborations to advance South County recycled water master planning, opportunities and challenges to enhance future non-potable and potable water reuse, and progress toward updating the South County interagency agreements to promote water recycling. Staff has also communicated the feedback which has been received from the JWRC on the TWG's activities.

This update will present a discussion of our ongoing efforts to revise our interagency agreements supporting non-potable water reuse in South County; and will highlight recent discussions to modify these agreements supporting water recycling and the probable roles and responsibilities for Valley Water, Gilroy, Morgan Hill, and SCRWA. The discussion will highlight recent reuse planning activities including our progress to update the 2015 South County Recycled Water Master Plan, which will include revisions to the current system inventory, updates for current recycled water customers and their water reuse demands, evaluations of potential new users, incorporation of potential future system upgrades, and discussion of potential constraints to ongoing operation and future expansion options.

The update will provide a summary of recent South County recycled water system construction and development, including the submittal of a United States Bureau of Reclamation (USBR) grant application to complete a South County Feasibility Study. Feasibility Studies must be accepted by the USBR before requesting federal funding for future capital improvements to support water reuse expansion in South County. This discussion will highlight ongoing capital construction that supports expansion of water reuse in South County, and greatly enhances system flexibility and redundancy. Staff will discuss the highlights of the recent April 2023 JWRC Meeting.

ATTACHMENTS:

Attachment 1: PowerPoint

UNCLASSIFIED MANAGER:

Kirsten Struve, 408-630-3138



South Santa Clara County Water Reuse Collaboration

Recycled Water Committee
May 24, 2023

Joint Water Resources Committee

Technical Work Group

2

- ✓ *Provisions to advance **water reuse** and **purified water** production, distribution and wholesaling;*
- ✓ ***Consistent** water reuse **terms** and conditions countywide;*
- ✓ *Cost sharing accord to **integrate** water conservation, reuse and supply;*
- ✓ *One **comprehensive** Water Reuse Agreement*

Water Reuse Interagency Agreements 3

- ✓ **Consolidation**
- ✓ **Integration**
- ✓ **Adaptability**
- ✓ **Roles/Responsibilities**
- ✓ **Master Planning**



South County RW Master Planning

4

- ✓ **2015 Master Plan Addendum**
- ✓ **Infrastructure Integration**
- ✓ **Expansion Opportunities**
- ✓ **Capital Investment Strategy**
- ✓ **Next Steps**



South County RW Pipeline Update

5



South County RW Pipeline Update

6



South County Grant Application

7

- ✓ USBR Grant Application
- ✓ Pre-Planning and Feasibility
- ✓ Title XVI Reuse Funding
- ✓ NPR, IPR, and DPR
- ✓ Timing and Schedule

GRANT OPPORTUNITIES



Joint Water Resources Committee

April 2023 Meeting Update

8

Collaborative Presentation:

- ✓ **Interagency Agreements**
- ✓ **Master Planning**
- ✓ **South County News**
- ✓ **Next Steps**





Santa Clara Valley Water District

File No.: 23-0418

Agenda Date: 5/24/2023

Item No.: 4.3.

COMMITTEE AGENDA MEMORANDUM Recycled Water Committee

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

SUBJECT:

Receive Bottling Purified Demonstration Water and On-Site Purified Water Tasting at the Silicon Valley Advanced Water Purification Center (Purification Center) Update.

RECOMMENDATION:

Receive information and provide feedback on staff's efforts to develop a project that bottles advanced purified water for demonstration and outreach purposes.

SUMMARY:

In 2018, staff began development of an outreach program that would allow the Santa Clara Valley Water District (District) to bottle advanced purified demonstration water and evaluate on-site purified water taste testing for future education and outreach purposes (Purified Bottled Water Program). A technical work group (TWG) was formed to review existing purified demonstration water practices statewide and evaluate bottling purified water opportunities. The TWG includes experts from throughout Valley Water.

Assembly Bill 2022 (AB2022) authorizes an operator of an advanced water purification facility to cause advanced purified demonstration water to be bottled and distributed for educational and outreach purposes to promote water reuse.

On August 24, 2022, staff provided the Recycled Water Committee (Committee) with a discussion of Purified Bottled Water Program updates that highlighted: the completion of a Validation Test Plan (May 2021) to demonstrate production capabilities; staff's activities to improve purification system operation; and staff's efforts to prepare for validation testing, which will demonstrate to the Division of Drinking Water (DDW) that our system will produce purified demonstration water for bottling purposes. Supply chain issues impacted the Purified Bottled Water Program schedule, so validation testing occurred in late August 2022. DDW staff were also present at the Purification Center to observe our validation testing. Valley Water and DDW discussed the series of tests completed. Staff answered DDW's questions, and DDW presented next steps to obtain their approval to bottle

advanced purified demonstration water in the future.

At this meeting staff will provide the Committee with an update on the progress of developing the Purified Bottled Water Program, recent discussions with DDW, and upcoming next steps toward bottling purified water. In January 2023, Valley Water staff transmitted an Advanced Oxygen Process Validation Report to DDW for their review and approval. Subsequently, DDW staff transmitted their approval that Valley Water facilities have demonstrated to their satisfaction the capability to produce purified demonstration water for bottling and outreach purposes. In March 2023, Valley Water transmitted a draft bottling label to the California Department of Health Services (CDPH) for their review and approval. Subsequently, CDPH provided comments, Valley Water re-submitted a revised label for approval, and which CDPH approved on April 20, 2023.

In early 2022, Valley Water initiated procurement for a beverage company to bottle our advanced purified demonstration water for outreach purposes. Unfortunately, staff were unable to secure bottling services in Northern California due to the unique nature of our bottling needs. Subsequently, Valley Water found a willing vendor in southern California, Chameleon Beverage Company, to provide full production with start-to-finish bottling services. Bottling will utilize clear plastic bottles to highlight the purity of our purified water since aluminum and glass bottles were not available for this project.

Additional discussions will provide a status of our purified demonstration water production capabilities, water quality monitoring and system confirmation, development of an Operations Plan, the bottling purified water process, and Purified Bottled Water Program schedule.

ATTACHMENTS:

Attachment 1: PowerPoint

UNCLASSIFIED MANAGER:

Kirsten Struve, 408-630-3138

Bottling Purified Demonstration Water at the Silicon Valley Advanced Water Purification Center

**Recycled Water Committee
May 24, 2023**

Purified Demonstration Water

2

- ❑ **AB2022 allows 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

Bottling - Verification Testing

3

- ☐ Demonstrate UV/AOP system meets purification requirements.
- ☐ Performance meets state/federal drinking water standards.
- ☐ DDW study review and approval.



Bottling - Operations Plan

4

- ❑ **Standard Operating Procedures for purified water production.**
- ❑ **Facility requirements and control strategies/systems.**
- ❑ **Submit to DDW for review**



Bottling – Regulatory Steps

5

- ☐ DDW review and approval of Operations Plan.
- ☐ CDPH review and approval of bottle label layout.



CDPH Bottling Approval

April 20, 2023

6

PROPOSED DESIGN



CA CASH REFUND

PLEASE RECYCLE

Distributed by Silicon Valley Advanced Water Purification Center

4190 Zanker Road, San Jose, CA 95134

(408) 630-3533

This bottle is made from up to 50% recycled plastic

This sample was produced at the Silicon Valley Advanced Water Purification Center, the largest purification facility of its kind in Northern California. The purification center purifies treated wastewater using three proven advanced treatment technologies: Microfiltration, Reverse Osmosis and UV Disinfection with Advanced Oxidation.

The result: Pure water that is refreshing, reliable and drought-resistant.

advanced
purified
demonstration
water

For a sustainable future.

SAMPLE WATER—NOT FOR SALE 8 FL OZ. (237 ML)

Advanced purified water sourced from wastewater.

siliconvalley



ADVANCED WATER PURIFICATION CENTER

purewater4u.org

valleywater.org

Bottling – Next Steps

- ☐ Produce purified water – transport for bottling – confirm quality – DDW approval.
- ☐ Distribute for educational and outreach purposes – tracking distribution for annual reporting.



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Santa Clara Valley Water District

File No.: 23-0419

Agenda Date: 5/24/2023

Item No.: 4.4.

COMMITTEE AGENDA MEMORANDUM Recycled Water Committee

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

SUBJECT:

Receive Potential Amount of Available Wastewater for Water Reuse Update.

RECOMMENDATION:

Receive information and provide feedback.

SUMMARY:

At the request of the Recycled Water Committee, Valley Water staff prepared an update of the potential amount of wastewater available countywide for future water reuse. This information builds upon Valley Water's 2021 Countywide Water Reuse Master Plan (CoRe Plan) which evaluated the opportunities and constraints of expanded recycled (non-potable reuse or NPR) and purified water (potable reuse or PR) countywide. Water reuse is already an important component of Valley Water's water supply portfolio and could provide permanent water-supply reliability in the long-term, and other co-benefits for our municipal partners.

Santa Clara County (County) faces water supply challenges driven by reoccurring droughts, growth, increased economic activity, California's changing climate, and increasing uncertainty with our imported water supply reliability. To adapt to these increasing uncertainties and to secure a reliable, sustainable water supply for the region, the Board of Directors (Board) set a goal to meet 10% of the County's total water demands with recycled and purified water reuse by 2025. The Board established a long-term goal of producing up to 24,000 acre-feet per year (AFY) of potable reuse, beginning with a first phase that provides up to 11,200 acre-feet per year by the year 2028. Complementing the PR goal, Valley Water staff estimate that up to 33,000 AFY of 2040 water demand will be met with NPR. Valley Water is currently updating its Water Supply Master Plan, which will evaluate and recommend projects and portfolios to meet future water supply needs.

The CoRe Plan identified sources and flows of wastewater reliably available for reuse, with four wastewater treatment plants (WWTPs) producing source water for local water reuse:

- Palo Alto Regional Water Quality Control Plant (RWQCP)
- Sunnyvale Water Pollution Control Plant (WPCP)

- San José-Santa Clara Regional Wastewater Facility (SJ/SC RWF)
- South County Regional Wastewater Authority (SCRWA).

The CoRe Plan conducted a Baseline Analysis that included a preliminary assessment of the maximum volume of wastewater available for reuse, using flow information from 2014 through 2019. For this exercise, Valley Water staff have updated the wastewater influent availabilities utilizing the most recent flow information, and its variability over time, to evaluate the potential impact of the recent drought and consequences from the pandemic on overall water use. The table below presents an updated analysis along with the earlier CoRe Plan results:

Partner Agency	Maximum Influent Available (AFY)			
	CoRe Plan	10-Year Average	5-Year Average	2-Year Average
<i>Palo Alto</i>	20,000	21,000	20,000	19,000
<i>Sunnyvale</i>	12,000	14,000	14,000	14,000
<i>San Jose / Santa Clara</i>	114,000	112,000	110,000	99,000
<i>SCRWA</i>	7,000	7,000	7,000	7,000
Countywide Total	154,000	154,000	151,000	139,000

These values represent the maximum wastewater availability, but do not consider reductions due to current and future NPR, environmental and regulatory flow diversions, system losses, seasonal variability, future PR, conservation impacts, etc. Staff will present information on influent availability using the most recent wastewater flows, review temporal representativeness, and discuss factors which could influence future wastewater availability. Both agricultural and urban water use in California have experience significant downward trends over the last two decades, and these reductions in water use are expected to continue. The actual wastewater available for future water purification efforts may be significantly less based on ongoing discussions with our wastewater partners; and considering treated wastewater reserved for future NPR, and environmental and regulatory flow diversions; as well as the possible prerequisite to blend Reverse Osmosis Concentrate before discharge to the environment.

ATTACHMENTS:

Attachment 1: PowerPoint

UNCLASSIFIED MANAGER:

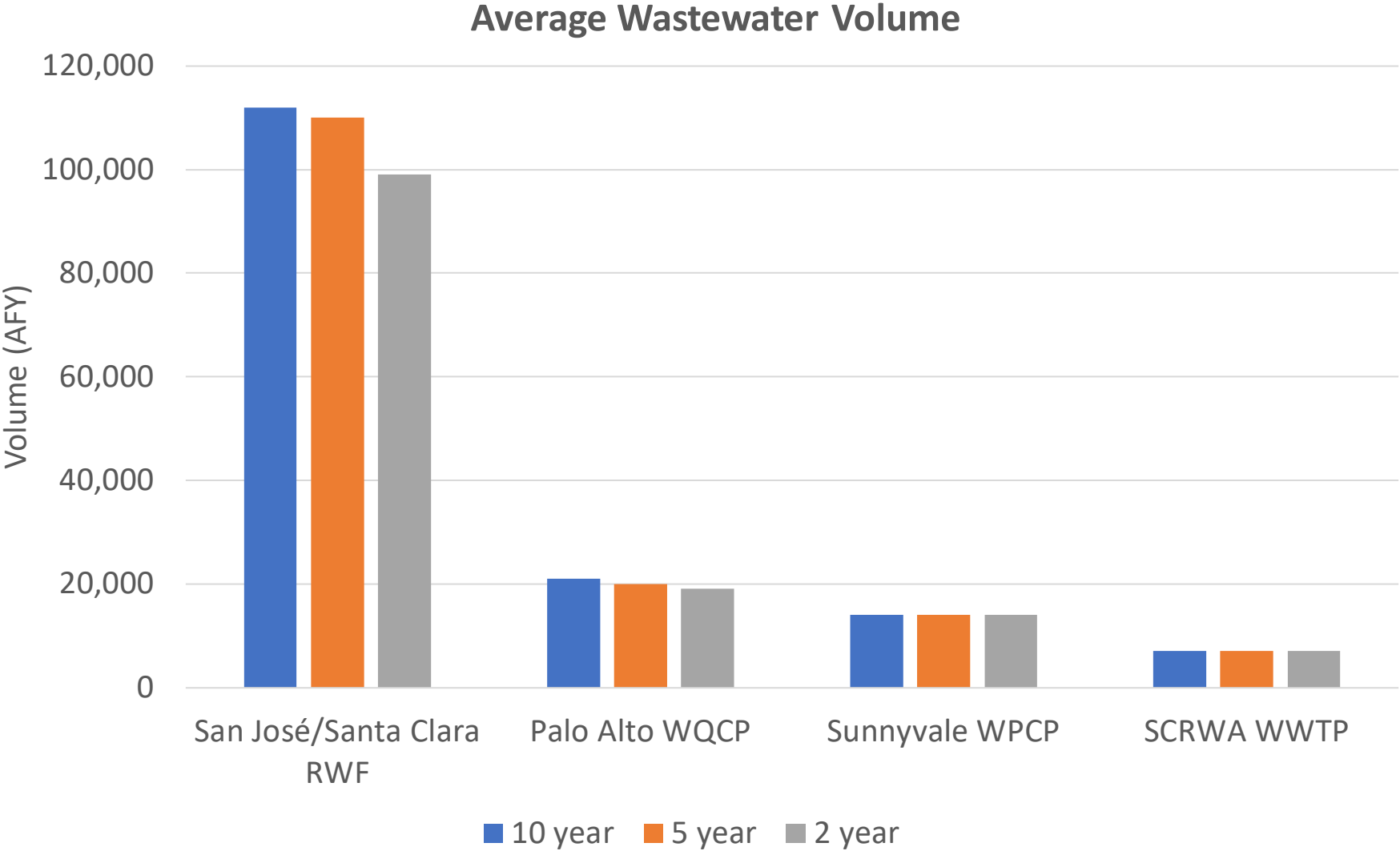
Kirsten Struve, 408-630-3138



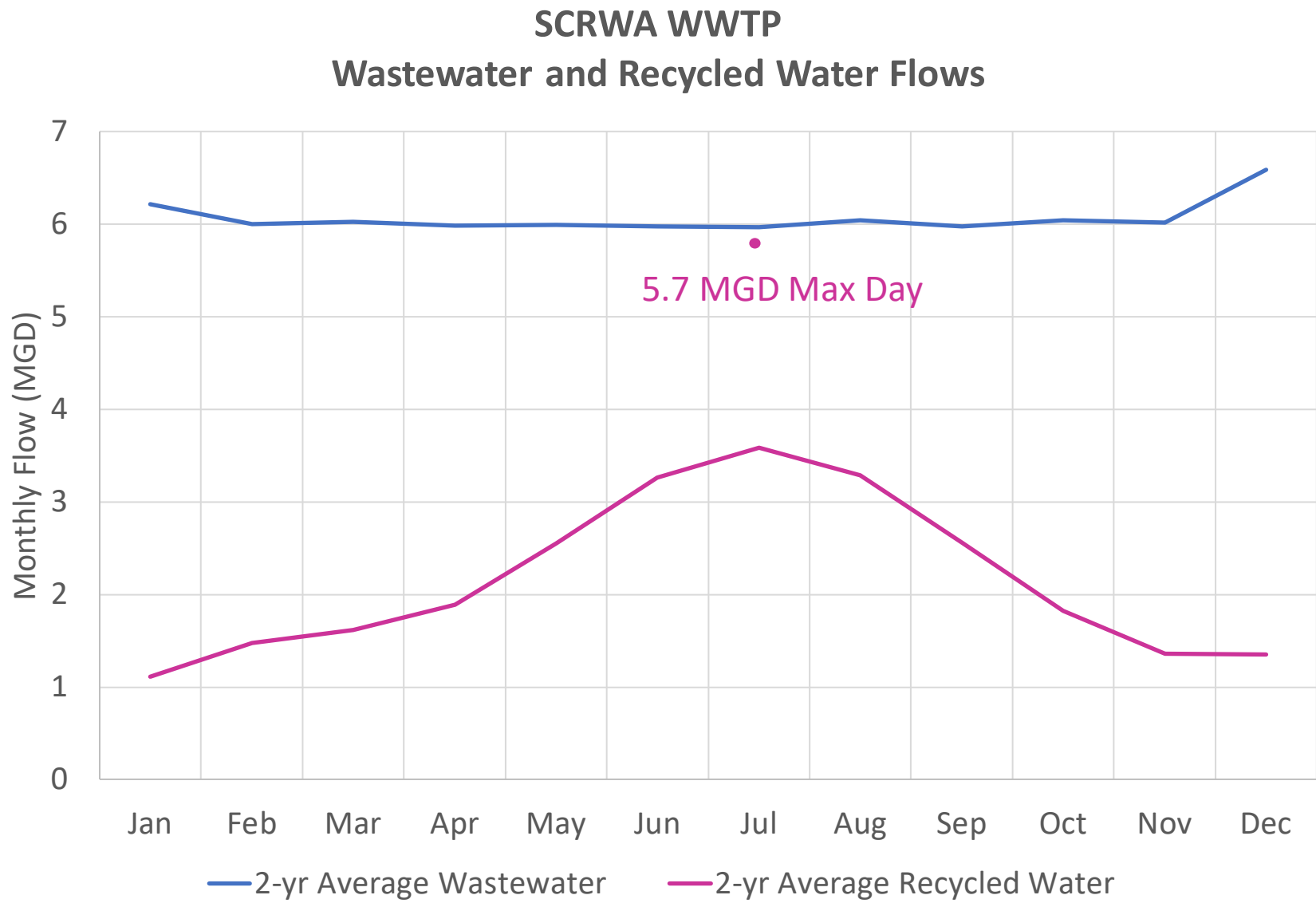
Maximum Wastewater Availability for Water Reuse

Recycled Water Committee Meeting, May 24, 2023

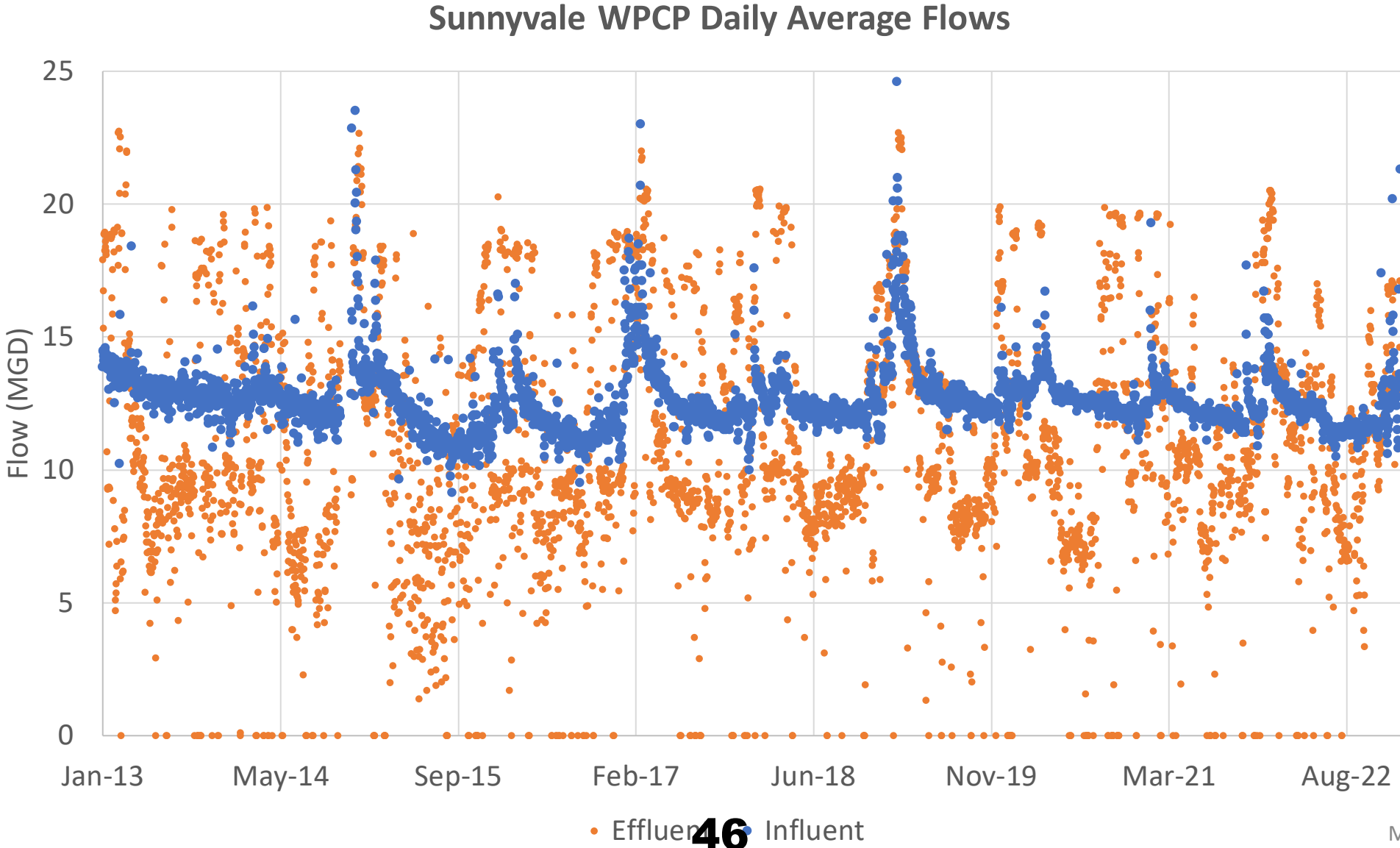
Countywide Wastewater Influent



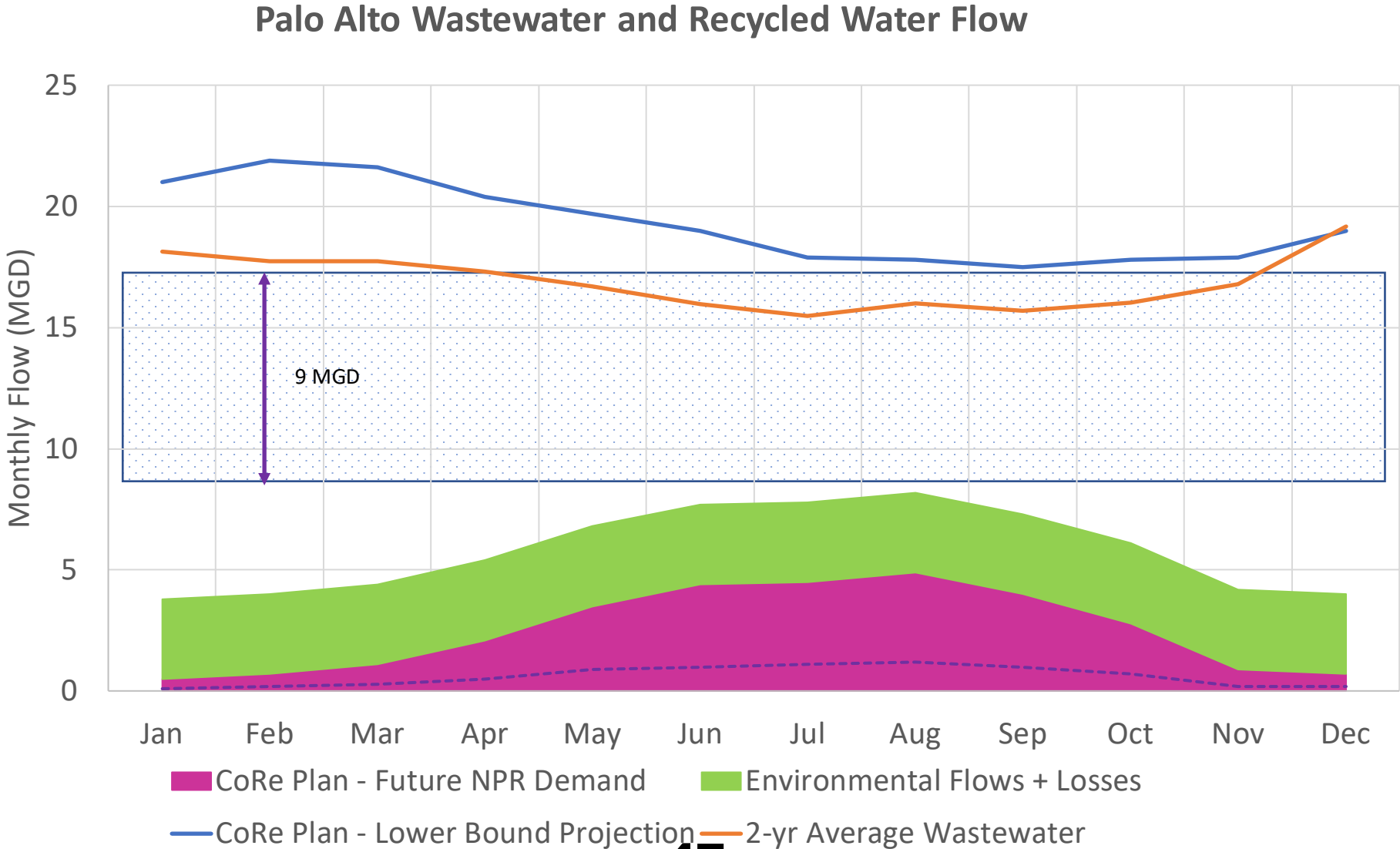
Seasonal Wastewater Availability



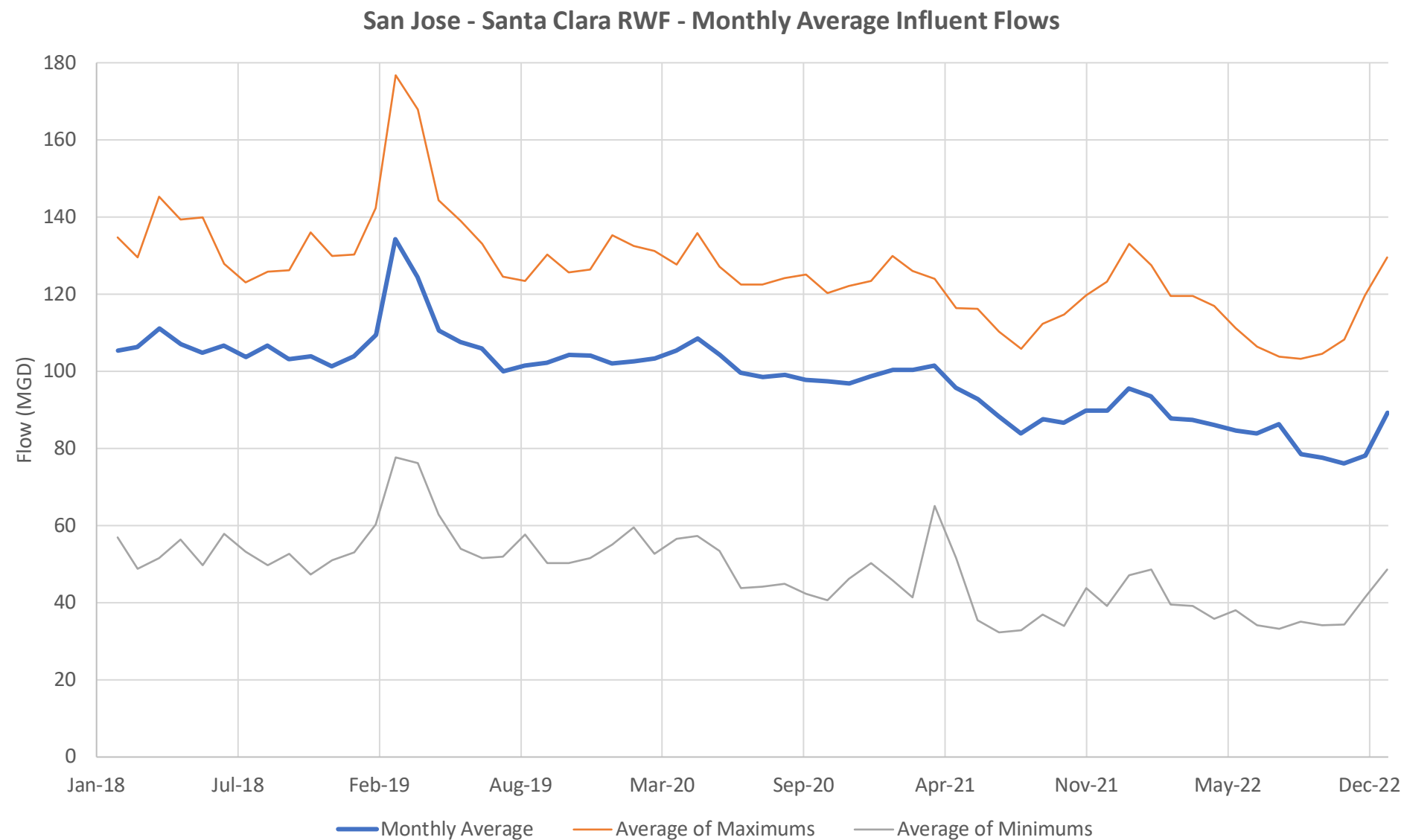
Wastewater Operational Variability



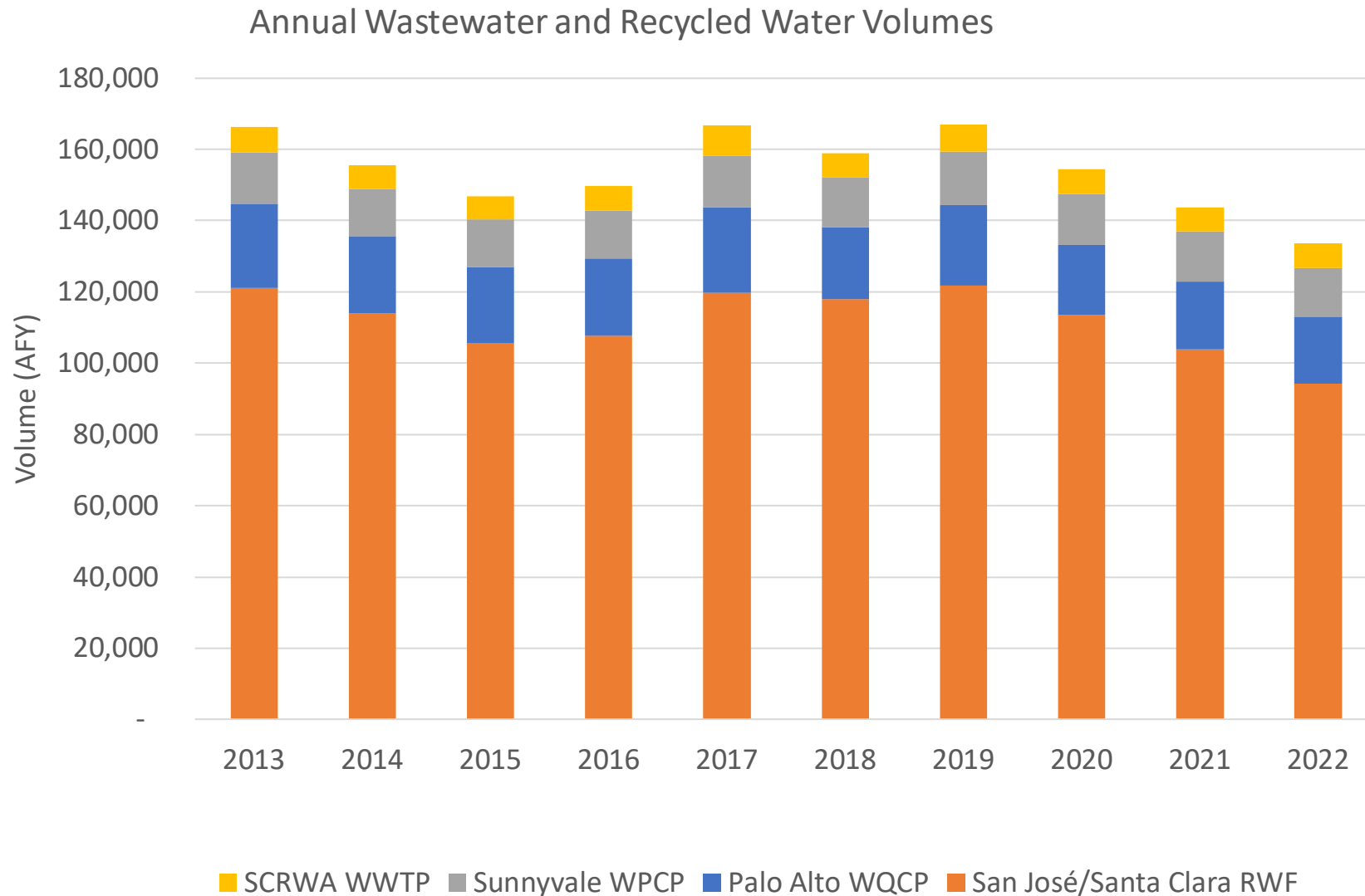
Wastewater Availability?



Wastewater Influent Variability



Maximum Wastewater Availability



Future Challenges

- **Temporal wastewater availability.**
- **Impacts of future drought.**
- **Unknown environmental requirements.**
- **Competing non-potable reuse projects.**
- **Impacts of future conservation.**



Santa Clara Valley Water District

File No.: 23-0547

Agenda Date: 5/24/2023

Item No.: 4.5.

COMMITTEE AGENDA MEMORANDUM Recycled Water Committee

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

SUBJECT:

Receive the Joint Recycled Water Policy Advisory Committee (City of San Jose/Valley Water/City of Santa Clara) Meeting of April 13, 2023 Update.

RECOMMENDATION:

Receive information regarding the April 13, 2023 Joint Recycled Water Policy Advisory Committee (City of San Jose/Valley Water/City of Santa Clara) meeting, and provide feedback.

SUMMARY:

A meeting of the Joint Recycled Water Policy Advisory Committee (City of San Jose/Valley Water/City of Santa Clara) (JRWPAC) was held at Santa Clara Valley Water District's Board Room on April 13, 2023, and the following items were reviewed and discussed, and actions taken:.

A. Election of 2022 Joint Recycled Water Policy Advisory Committee (SCVWD/San Jose/ Santa Clara - TPAC) Chairperson.

Director Estremera was reelected as the 2023 Chairperson.

B. Collaboration between Valley Water and the Cities of San Jose and Santa Clara (Cities) pertinent to the expansion of water reuse.

Staff presented an update and information on collaborative efforts between the cities of San José and Santa Clara and Valley Water for promoting increased potable reuse and recycled water from the San José-Santa Clara Regional Wastewater Facility (RWF) and meeting future water needs by developing and expanding programs and partnerships for water reuse, including the use recycled water for potable non-potable use.

C. Review of the proposed budgets FY 23/24 for SVAWPC and SBWR.

San Jose's staff proposed Fiscal Year 2023-24 budget for the South Bay Water Recycling (SBWR) in the amount of \$16,519,540 and Valley Water's staff proposed Fiscal Year 2023-24 budget for the Silicon Advanced Water Purification Center (SVAWPC) in the amount of \$6,292,679. The JRWPAC Committee Members accepted the status reports on the proposed budgets.

**D. Consider an Update of the Joint Recycled Water Policy Advisory
Committee (City of San Jose/SCVWD/City of Santa Clara (TPAC) Name.**

Committee Members approved the update on the JRWPAC (City of San Jose/SCVWD/City of Santa Clara (TPAC)) name.

ATTACHMENTS:

None.

UNCLASSIFIED MANAGER:

Kirsten Struve, 408-630-3138



Santa Clara Valley Water District

File No.: 23-0527

Agenda Date: 5/24/2023

Item No.: 4.6.

COMMITTEE AGENDA MEMORANDUM Recycled Water Committee

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

SUBJECT:

Receive Upcoming 7th Independent Advisory Panel Meeting for Evaluation of the Purified Water Program and Related Efforts Update.

RECOMMENDATION:

Receive information on the 7th meeting of the Independent Advisory Panel for evaluation of Santa Clara Valley Water District's Purified Water Program and related efforts update.

SUMMARY:

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

In 2012, the Santa Clara Valley Water District (Valley Water) contracted with NWRI to establish an Independent Advisory Panel (IAP) comprised of water reuse academics, industry leaders and regulatory experts to review and provide feedback on Valley Water's developing water reuse program. Since 2012, the IAP has met six times to review technical materials and provide recommendations on program developments.

The upcoming IAP meeting is currently scheduled for June 21, 2023 and will be held at Valley Water's Board Room. Participates will be able to attend the meeting in-person or virtually.

Staff will present various topics and elements related to the purified water program and the proposed 10 million gallon per day purification facility that would be located in the City of Palo Alto, and seek review and input by the IAP. It is expected that the IAP will prepare a report containing their comments and recommendations within three months following the June 21, 2023 IAP meeting.

ATTACHMENTS:

Attachment 1: PowerPoint

UNCLASSIFIED MANAGER:
Kristen Struve, 408-630-3138

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



Valley Water

Clean Water • Healthy Environment • Flood Protection



INDEPENDENT ADVISORY PANEL

Chair: James Crook

Environmental Engineering Consultant

Katherine Cushing

San Jose State University

Jean Moran

California State University East Bay

Adam Olivieri

EOA, Inc.

Mehul Patel

Orange County Water District

Shane Snyder

University of Arizona

Independent Advisory Panel Meeting #7

3

- Will be hosted in Hybrid Format at Valley Water HQ on June 21th, 2023
- Partner agencies, stakeholder organizations, and regulators are invited to attend



Attachment 1

Page 3 of 4

Independent Advisory Panel Meeting #7

4

- Valley Water Staff will present the following topics:
 - Purified Water Project
 - Reverse Osmosis Concentrate Management (ROCM)
 - Recycled and purified Water Outreach Efforts
- IAP report containing feedback and recommendations expected within 2-3 months following the meeting.



Santa Clara Valley Water District

File No.: 23-0590

Agenda Date: 5/24/2023

Item No.: 4.7.

COMMITTEE AGENDA MEMORANDUM Recycled Water Committee

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

SUBJECT:

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

RECOMMENDATION:

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

Staff solicits Committee feedback on any additional timeline information for holding discussions on the assigned Work Plan items, and confirmation of the next meeting date on June 28, 2023.

ATTACHMENTS:

Attachment 1: 2023 Revised Work Plan

UNCLASSIFIED MANAGER:

Kirsten Struve, 408-630-3138

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PROPOSED RWC 2023 WORKPLAN

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

*Blue strikes - items added on updated work plan

*Red strikes - items deleted from current work plan

** Being updated/removed in FY23 Board Work Plan

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