



June 5, 2023

NOTICE OF MEETING – REQUEST FOR RSVPS

Members of the Joint Recycled Water Policy Committee with Cities of Palo Alto, East Palo Alto and Mountain View

Santa Clara Valley Water District:

Director Hon. Jim Beall, District 4
Director Hon. Tony Estremera, District 6
Director Hon. Richard P. Santos, District 3

City of Palo Alto:

Councilmember Hon. Lydia Kou
Councilmember Hon. Vicki Veenker

City of East Palo Alto:

Mayor Hon. Lisa Gauthier
Councilmember Hon. Carlos Romero, Alternate

City of Mountain View:

Vice-Mayor Hon. Pat Showalter
Mayor Hon. Alison Hicks, Alternate

Supporting Valley Water Staff Members:

Rick L. Callender, Esq., Chief Executive Officer
Melanie Richardson, Assistant Chief Executive Officer
Bhavani Yerrapotu, Acting Assistant Chief Executive Officer
Aaron Baker, Chief Operating Officer, Water Utility
Rachael Gibson, Chief of External Affairs
Darin Taylor, Chief Financial Officer
J. Carlos Orellana, District Counsel
Brian Hopper, Senior Assistant District Counsel
Emmanuel Aryee, Deputy Operating Officer, Water Utility Capital
Vincent Gin, Deputy Operating Officer, Water Supply Division
Gregory Williams, Deputy Operating Officer, Raw Water Division
Don Rocha, Assistant Officer, Office of The Chief of External Affairs
Kirsten Struve, Assistant Officer, Water Supply Division Deputy's Office
Hossein Ashktorab, Unit Manager, Recycled & Purified Water
Charlene Sun, Treasury and Debt Manager
Henry Barrientos, Senior Water Resources Specialist
Sherilyn Tran, Civic Engagement Unit Manager
Kristen Yasukawa, Supervising Program Administrator
Elise Latedjou-Durand, Senior Environmental Planner

Supporting City of Palo Alto Staff Members:

Mahealani Ah Yun, Deputy City Clerk
Karla Dailey, Senior Resources Planner, Utilities Department
Brad Eggleston, Director Public Works
Samantha Engelage, Senior Engineer
Diego Martinez Garcia, Associate Engineer, Environ Servs Div. Public Works
Karin North, Assistant Public Works Director
Alice Shambayati, Administrative Associate III

Supporting City of East Palo Staff Member:

Michelle Daher, Management Analyst
Humza Javed, Senior Engineer

Supporting City of Mountain View Staff Member:

Lisa Au, Assistant Public Works Director
Dawn Cameron, Public Works Director
Heather Glaser, City Clerk
Wanda Wong, Deputy City Clerk

The regular meeting of the Santa Clara Valley Water District Joint Recycled Water Policy Committee with Cities of Palo Alto/East Palo Alto/Mountain View is scheduled to be held on **Monday, June 12, 2023, at 1:00 p.m.**, at Santa Clara Valley Water District Headquarters Boardroom, 5700 Almaden Expressway, San Jose CA 95118.

A copy of the agenda and corresponding materials are on the following link:
<https://www.valleywater.org/how-we-operate/committees/board-advisory-committees>.

Please have these materials available for the meeting.

Thank you!

Glenna Brambill
Management Analyst II
Santa Clara Valley Water District
Office of the Clerk of the Board
1-408-630-2408

Join Zoom Meeting for the Public and non-presenting staff
<https://valleywater.zoom.us/j/88121054661>

Meeting ID: 88121054661
One tap mobile
+16699009128,, 88121054661# US (San Jose)

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

Meeting ID: 881 2105 4661
Find your local number: <https://valleywater.zoom.us/j/kcRSMXMNzh>



Santa Clara Valley Water District Joint Recycled Water Policy Committee with Cities of Palo Alto/E. Palo Alto/Mtn View

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

Alternate Location: Palo Alto City Hall – Community Meeting Room
Ground Floor 250 Hamilton Ave, Palo Alto, CA 94301

REGULAR MEETING AGENDA

**Monday, June 12, 2023
1:00 PM**

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

JOINT RECYCLED WATER POLICY
COMMITTEE W/ CITIES OF PALO
ALTO, EAST PALO ALTO &
MOUNTAIN VIEW

Richard P. Santos - District 3
Jim Beall - District 4,
Tony Estremera - District 6

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, (Staff Liaison)

Glenna Brambill, (COB Liaison)
Management Analyst II
gbrambill@valleywater.org
1-408-630-2408

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
Joint Recycled Water Policy Committee with Cities of PA/EPA/MV
REGULAR MEETING
AGENDA

Monday, June 12, 2023

1:00 PM

*****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/88121054661>

Meeting ID: 881 2105 4661 Join
by Phone:
1 (669) 900-9128, 88121054661#

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 two 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.

[23-0542](#)

Recommendation: Approve the October 25, 2021, Meeting Minutes.

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

Attachments: [Attachment 1: 10252021 JtRWPC Draft Mins](#)

Est. Staff Time: 5 Minutes

4. REGULAR AGENDA:

4.1. Election of Chair and Vice Chair.

[23-0661](#)

Recommendation: Elect 2023 Chair and Vice Chair.

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

Est. Staff Time: 5 Minutes

4.2. Valley Water's Purified Water Project.

[23-0543](#)

Recommendation: Receive an update on Valley Water's Purified Water Project and provide feedback to staff.

Manager: Kirsten Struve, 408-630-3138

Attachments: [Attachment 1: Purified Water Project](#)

Est. Staff Time: 15 Minutes

4.3. Update on the Local Salt Removal Facility.

[23-0544](#)

Recommendation: Receive information and discuss next steps.

Manager: Kirsten Struve, 408-630-3138
Karin North (Assistant Director of Public Works-City of Palo Alto)

Attachments: [Attachment 1: PowerPoint Presentation](#)

Est. Staff Time: 15 Minutes

4.4. Next Meeting and Agenda Items.

[23-0545](#)

Recommendation: Discuss and confirm next meeting date and agenda items.

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

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.



Santa Clara Valley Water District

File No.: 23-0542

Agenda Date: 6/12/2023

Item No.: 3.1.

COMMITTEE AGENDA MEMORANDUM
Joint RWPC with Cities of Palo Alto/E. Palo Alto/Mtn View

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

SUBJECT:

Approval of Minutes.

RECOMMENDATION:

Approve the October 25, 2021, Meeting Minutes.

SUMMARY:

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 for review and approval.

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

ATTACHMENTS:

Attachment 1: 10252021 JtRWPC Draft Meeting Minutes

UNCLASSIFIED MANAGER:

Candice Kwok-Smith, 408-630-3193



**JOINT RECYCLED WATER POLICY COMMITTEE MEETING
(CITIES OF PALO ALTO/EAST PALO ALTO/MOUNTAIN VIEW/VALLEY WATER)**

DRAFT MINUTES

**MONDAY, OCTOBER 25, 2021
2:00 PM**

(Paragraph numbers coincide with agenda item numbers)

A meeting of the Joint Recycled Water Policy Committee (Palo Alto/East Palo Alto, Mountain View) (Committee) was held on October 25, 2021, via Zoom in San Jose, California.

1. CALL TO ORDER/ROLL CALL

A meeting of the Joint Recycled Water Policy Committee (Palo Alto/East Palo Alto, Mountain View) was called to order by Committee Chair Director Gary Kremen at 2:05 p.m.

Committee Members in attendance were: City of East Palo Alto Mayor/Councilmember: Hon. Lisa Gauthier; City of Mountain View Councilmember: Hon. Pat Showalter, City of Palo Alto Council Member: Hon. Alison Cormack; Valley Water Board Representatives: Director Tony Estremera (District 6), Director Gary Kremen (District 7), and Director Richard P. Santos (District 3).

Valley Water Staff in attendance were: Gina Adriano, Hossein Ashktorab, Aaron Baker, Ricardo Barajas, Henry Barrientos, Glenna Brambill, Jason Chiar, Keila Cisneros, Phillippe Daniel (Contractor), Melissa Fels, Vincent Gin, Linh Hoang, Brian Hopper, Girlie Jacobson, Candice Kwok-Smith, Heath McMahon, Leslie Orta, Mike Potter, Melanie Richardson, Don Rocha, Charlene Sun, Kirsten Struve, Sherilyn Tran, and David Tucker.

Guests in attendance were: City of Palo Alto: Lisa Bilir, Karla Dailey, Samantha Engelage, Diego Martinez Garcia, and Karin North; City of Mountain View: Lisa Au; and Carollo Engineers: Sanjay Reddy.

Public attendees were: Al, Hon. Jim Beall, Peter Drekmeier, Eric Rosenblum, and Director John L. Varela (Valley Water, District 1).

Attachment 1
Page 1 of 3

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

There was no one present who wished to speak.

3. APPROVAL OF MINUTES

It was moved by Director Tony Estremera, seconded by Director Richard P. Santos and carried, by roll call and unanimous vote to approve the minutes of the June 4, 2021, Joint Recycled Water Policy Committee meeting, as presented.

4. ACTION ITEMS

4.1 UPDATE ON COLLABORATION WITH PARTNERS RELATED TO PURIFIED WATER

Kirsten Struve and Karin North reviewed the materials as outlined in the agenda item and on the handout.

The Joint Recycled Water Policy Committee (Palo Alto/East Palo Alto, Mountain View) discussed the following: separation of projects, dual plumbing, the project making progress, helping with delays, and outreach.

The Joint Recycled Water Policy Committee (Palo Alto/East Palo Alto, Mountain View) took no action.

4.2 COUNTRYWIDE WATER REUSE MASTER PLAN

David Tucker reviewed the materials as outlined in the agenda item.

The Joint Recycled Water Policy Committee (Palo Alto/East Palo Alto, Mountain View) discussed the following: stakeholder meetings, thanked staff for meeting with Sustainable, graywater consideration, water tours, potable water reuse, City of East Palo Alto participating and engaging, East Sanitary District, blending and mixing terms, direct potable reuse, dual plumbing, recycle water, pipeline issues and sources of water.

Director Tony Estremera was available to answer questions.

The Joint Recycled Water Policy Committee (Palo Alto/East Palo Alto, Mountain View) took no action.

4.3 NEXT MEETING AND AGENDA ITEMS

Glenna Brambill reviewed the materials as outlined in the agenda item.

Aaron Baker and Karin North suggested meeting every other month during this time of the drought emergency.

The Joint Recycled Water Policy Committee (Palo Alto/EPA, Mtn View) took no action.

5. CLERK REVIEW AND CLARIFICATION OF COMMITTEE REQUESTS AND RECOMMENDATIONS

Board Committee Liaison Glenna Brambill reported there were no action items for Board consideration.

6. ADJOURNMENT

Committee Chair Director Gary Kremen adjourned the meeting at 3:13 p.m.

Glenna Brambill
Board Committee Liaison
Office of the Clerk of the Board

Approved:



Santa Clara Valley Water District

File No.: 23-0661

Agenda Date: 6/12/2023

Item No.: 4.1.

COMMITTEE AGENDA MEMORANDUM **Joint RWPC with Cities of Palo Alto/E. Palo Alto/Mtn View**

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

SUBJECT:

Election of Chair and Vice Chair.

RECOMMENDATION:

Elect 2023 Chair and Vice Chair.

SUMMARY:

Per the Board Resolution, the duties of the Chair and Vice Chair are as follows:

The officers of each Committee shall be a Chair and Vice Chair, both of whom shall be members of that Committee. The Chair and Vice Chair shall be elected by the Committee, each for a term of one year commencing on January 1 and ending on December 31 and for no more than two consecutive terms. The Committee shall elect its officers at the first meeting of the calendar year. All officers shall hold over in their respective offices after their term of office has expired until their successors have been elected and have assumed office.

The Chair shall preside at all meetings of the Committee, and he or she shall perform other such duties as the Committee may prescribe consistent with the purpose of the Committee.

The Vice Chair shall perform the duties of the Chair in the absence or incapacity of the Chair. In case of the unexpected vacancy of the Chair, the Vice Chair shall perform such duties as are imposed upon the Chair until such time as a new Chair is elected by the Committee.

Should the office of Chair or Vice Chair become vacant during the term of such office, the Committee shall elect a successor from its membership at the earliest meeting at which such election would be practicable, and such election shall be for the unexpired term of such office.

Should the Chair and Vice Chair know in advance that they will both be absent from a meeting, the Chair may appoint a Chair Pro-tempore to preside over that meeting. In the event of an unanticipated absence of both the Chair and Vice Chair, the Committee may elect a Chair Pro-tempore to preside over the meeting in their absence.

BACKGROUND:

The District Act provides for the creation of advisory boards, committees, or commissions by resolution to serve at the pleasure of the Board.

Accordingly, the Board has established Advisory Committees, which bring respective expertise and community interest, to advise the Board, when requested, in a capacity as defined: prepare Board policy alternatives and provide comment on activities in the implementation of the District's mission for Board consideration. In keeping with the Board's broader focus, Advisory Committees will not direct the implementation of District programs and projects, other than to receive information and provide comment.

Further, in accordance with Governance Process Policy-3, when requested by the Board, the Advisory Committees may help the Board produce the link between the District and the public through information sharing to the communities they represent.

The Board may also establish Ad-hoc Committees to serve in a capacity as defined by the Board and will be used sparingly.

ATTACHMENTS:

None

UNCLASSIFIED MANAGER:

Candice Kwok-Smith, 408-630-3193



Santa Clara Valley Water District

File No.: 23-0543

Agenda Date: 6/12/2023

Item No.: 4.2.

COMMITTEE AGENDA MEMORANDUM Joint RWPC with Cities of Palo Alto/E. Palo Alto/Mtn View

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

SUBJECT:

Valley Water's Purified Water Project.

RECOMMENDATION:

Receive an update on Valley Water's Purified Water Project and provide feedback to staff.

SUMMARY:

The Santa Clara Valley Water District (Valley Water) continues to collaborate with the cities of Palo Alto and Mountain View on recycled and purified water planning and expansion projects. Valley Water must meet future water demand and identify a sustainable water supply to combat the effects of climate change.

In 2019, Valley Water and the Cities of Palo Alto and Mountain View executed a Partnership Agreement to Advance Resilient Water Reuse Programs in Santa Clara County (Agreement). The Agreement includes three major components: Partial funding by Valley Water (\$16 million) for a local salt removal facility at the Palo Alto Regional Water Quality Control Plant (RWQCP) or other water-related projects; a Valley Water option to use an average of 9 million gallons per day (MGD) of effluent from the RWQCP to be treated at a regional purification facility; and a water supply option for the cities of Palo Alto and Mountain View to request additional water supply if needed.

Palo Alto agreed to assist with siting a regional purification facility in the City and to make best efforts to accommodate reverse osmosis concentrate (ROC) discharge to the wastewater treatment plant's outfall. Per the terms of the Agreement, Valley Water has been making annual payments of \$0.2 million since 2020 (escalated each year) for the effluent transfer option and provided funding reimbursement for the design of the local salt removal facility. Valley Water will provide an annual payment of \$1.0 million for the effluent once the project is complete.

Project Overview, Delivery Method and Costs

The Purified Water Project is part of Valley Water's water resources strategy to provide a reliable water supply from a variety of sources consistent with its Water Supply Master Plan 2040. Valley

Water's objectives are to:

- Implement an indirect potable reuse supply project that provides up to 10 million gallons per day (MGD) production capacity of sustainable water supply for long-term and future demands.
- Design-construct-operate the project so that it reduces or minimizes environmental impacts.
- Deliver the project in a manner that is cost-effective and provides value to the ratepayers.

The Purified Water Project would include the construction of a new regional advanced water purification facility, associated pump station at the RWQCP, and conveyance pipelines. Conveyance will be needed to move effluent from the RWQCP to the purification facility and from the facility to Valley Water's existing Los Gatos Recharge System complex located in the City of Campbell. The Valley Water Board of Directors directed Valley Water staff in December 2021 to finalize agreements with Palo Alto to locate the facility on the City's property on San Antonio Road (the former Los Altos Treatment Plant (LATP) site).

Valley Water plans to implement the Purified Water Project via a Design Build Finance Operate Maintain (DBFOM) delivery method also known as a Public-Private Partnership (P3) to harness private sector innovation. The P3 will deliver this project on behalf of Valley Water who is the owner of the project. Valley Water will work with the P3 to obtain needed permits, which will be in Valley Water's name. The project is projected to cost \$1.2 billion. Valley Water is pursuing grants and loans for the project.

The benefits to Palo Alto and Mountain View include payments for treated wastewater and a land lease, as well as increased use of treated wastewater to further regional sustainability and climate adaptation goals.

Former Los Altos Treatment Plant (LATP) Site

The proposed site for the regional water purification facility in Palo Alto is a 6.8-acre portion of the larger 13.3-acre LATP Site known as Area B. Located at the end of San Antonio Road in Palo Alto, the LATP Site was determined to be the most feasible location based on the Northwest County Recycled Water Strategic Plan (Strategic Plan), a collaboration between Valley Water and Palo Alto, which was completed between 2019 and 2020.

The environmental work to date has included the delineation of existing wetlands and characterization of contaminated material site conditions. The geotechnical work included a field exploration to determine surface and subsurface soil conditions, and design recommendations at the site. Palo Alto and Valley Water staff are collaborating to obtain the necessary regulatory approvals to address any contamination at the site.

Valley Water and Palo Alto are negotiating a land lease for construction of the facility and the pump station at the RWQCP. A Comprehensive Plan amendment for a portion of the Area B site will be needed. The project will be subject to discretionary review by the Architectural Review Board. A June 5, 2023, Screen Check Council Item is being scheduled.

Valley Water has been coordinating with the proposed Project HomeKey emergency shelter project

which will be located on another portion of the LATP site. Staff believes these two projects can coexist since, unlike the RWQCP, the purification plant does not emit any odors and is relatively quiet. Staff also recognizes a need to address the impacts associated with the construction of the purification facility.

Reverse Osmosis Concentrate

Reverse Osmosis is a process that removes minerals, viruses, and other constituents; the same technology is used to convert seawater into fresh drinking water. The average efficiency of Reverse Osmosis is 85 percent. That means, for every 100 gallons of treated wastewater feedwater, the purification facility will produce 85 gallons of purified water and 15 gallons of ROC. ROC contains all the pre-existing constituents contained in the feedwater i.e. the treated wastewater from the RWQCP. During the treatment process, no other chemicals or constituents get added to ROC.

Valley Water has been operating a large, advanced water purification facility in San José since 2014. The Silicon Valley Advanced Water Purification Center (SVAWPC) is capable of producing up to 8 MGD of highly purified water. The ROC produced at the SVAWPC is blended with the wastewater effluent at the San José-Santa Clara Regional Wastewater Facility and discharged to the Bay under their existing wastewater permit. This approach has been used without any negative environmental impact. Valley Water is working closely with the Palo Alto RWQCP staff and the regulators on an approach for discharging the ROC from the regional water purification facility in Palo Alto in a similar fashion.

The San Francisco Bay Regional Water Quality Control Board (Regional Board), which issues the RWQCP's discharge permit, has been very supportive of the proposed Purified Water Project and this blending approach. The Regional Board has concurred in writing (Letter of Concurrence dated 9/9/2021) with a suite of technical studies that will be conducted by Valley Water to inform the renewal of the RWQCP's permit required to support the ROC discharge. The Regional Board will require further studies and may require pretreatment of ROC through feasible means in the future which may include Nature-Based Solutions such as a horizontal levee system. Risk associated with the discharge of ROC will be borne by Valley Water in the Operations and Maintenance agreement being developed.

Timeline and Agreements

Valley Water's procurement process is ongoing. A Request for Qualification (RFQ) was released and eight statements of qualifications were submitted. Four teams were shortlisted. A Request for Proposals (RFP) and the draft EIR are anticipated to be released in mid-2023, once needed agreements are executed with the City of Palo Alto.

In recognition that there is significant effort expended by Palo Alto staff and consultants, Valley Water is providing funding for these efforts. The Palo Alto City Council approved a staff funding agreement in April 2023.

Additional agreements include the lease agreement for the LATP site, a lease for the pump station at the RWQCP and an Operations and Maintenance Agreement, which will include ROC management.

These agreements are currently being developed and will be brought to the Palo Alto City Council and Valley Water Board, tentatively in August 2023. These agreements are included in the Palo Alto City Council Priorities. It is anticipated that operations for the purification facility would begin in late 2028.

Stakeholder Engagement

Palo Alto and Valley Water staff collaborate on outreach for the project. Valley Water staff conduct tours of the Silicon Valley Advanced Water Purification Center for several stakeholder groups in Palo Alto and surrounding area. Valley Water presented a Purified Water Project update at the September 2021 City of Palo Alto Parks and Recreation Committee meeting. Valley Water staff also held informational meetings with environmental stakeholders in Mountain View and Palo Alto, and faith-based organizations. The Palo Alto City Council received information on the project in September 2022.

In addition, Valley Water worked with the Santa Clara County Medical Association (SCCMA) to coauthor a series of articles on the benefits of Purified Water. In June 2022, SCCMA released a special Water edition of their medical journal, "The Bulletin" highlighting Purified Water as a safe and drought-proof source of local water supply.

Environmental Review

Valley Water, acting as lead agency for the proposed Water Purification Project, has determined that an EIR is required to satisfy the requirements of CEQA. Palo Alto will be the responsible party throughout the CEQA process. Valley Water is currently in the process of preparing the Draft EIR which the City is currently reviewing prior to its release.

ATTACHMENTS:

Attachment 1: PowerPoint Presentation

UNCLASSIFIED MANAGER:

Kirsten Struve, 408-630-3138



Valley Water Purified Water Project

Joint Recycled Water Policy Committee (Cities of Palo Alto/E. Palo Alto/Mtn View) Meeting, June 12, 2023

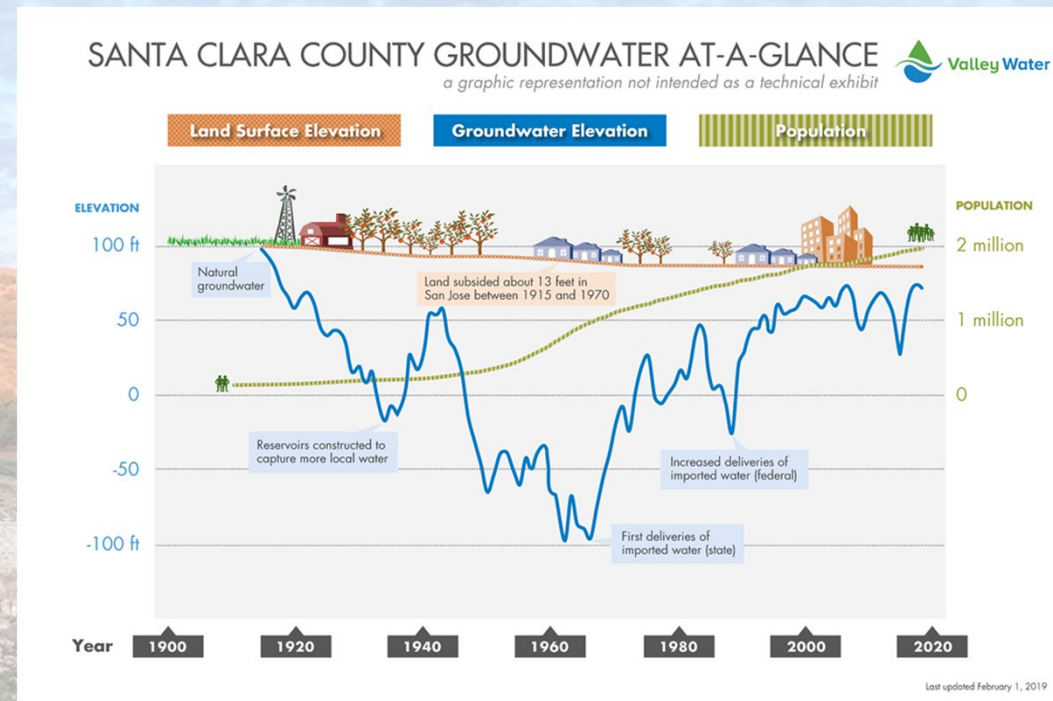








Project Overview

Purified Water: Future Water Supply Reliability

- Protects us from impacts of climate change
- Creates a new drought-resilient and locally-controlled water supply
- Reduces dependency on imported water
- Protects our region's groundwater supplies



Recycled and Purified Water is an important component of the water supply portfolio

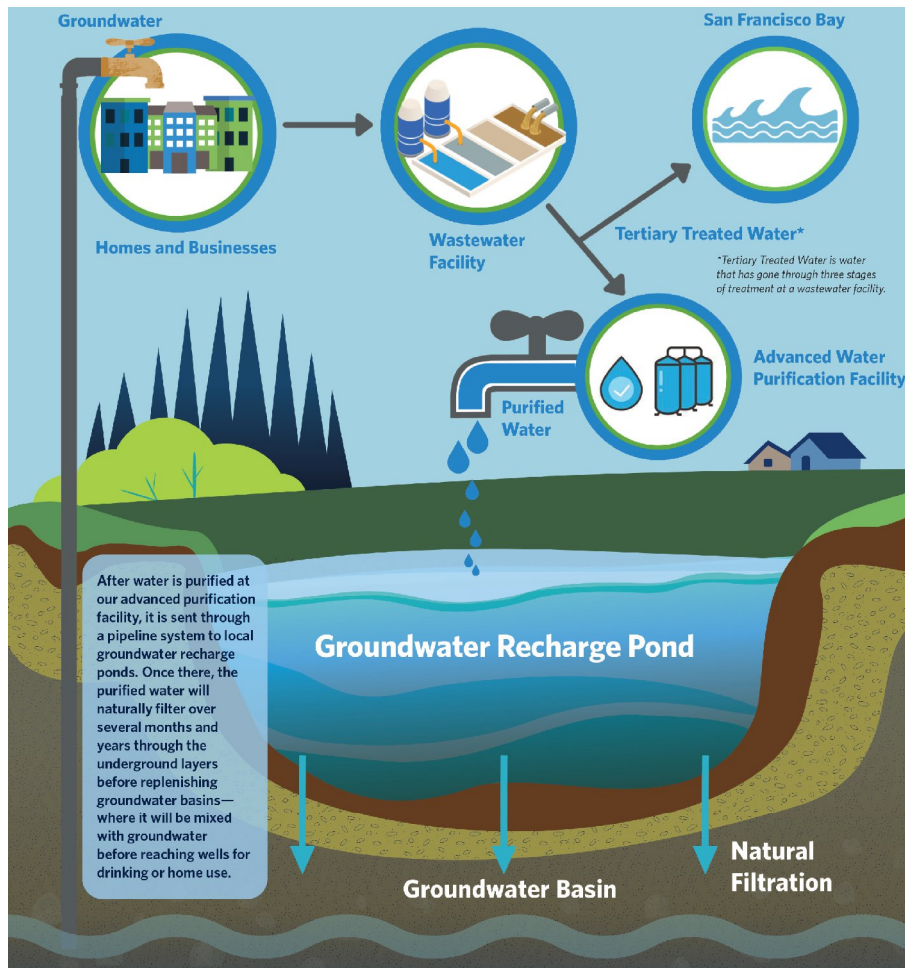
	Local Water (30%) <ul style="list-style-type: none">• Groundwater aquifer• Reservoirs
	Imported Water (50%) <ul style="list-style-type: none">• Delta conveyed• Hetch Hetchy
	Recycled Water (5%) <ul style="list-style-type: none">• Wastewater Treatment• Advanced Purification
	Conservation (15%) <ul style="list-style-type: none">• Residential• Commercial, Agriculture

Existing 2019 Partnership Agreement to Advance Resilient Water Reuse Programs

- Valley Water funding of \$16 million (for local salt removal facility or other water related projects)*
- Effluent transfer option to Valley Water for a regional purification facility (\$0.2M/yr → \$1M/yr when exercised)*
- Water supply option for the Cities of Palo Alto and Mountain View

*Amounts escalated annually per 2019 Agreement

Indirect Potable Reuse



ADVANCED WATER PURIFICATION PROCESS

HIGHLY TREATED WASTEWATER

This water originally comes from the drains of homes and businesses and is treated three times at a wastewater facility.



#1 MICROFILTRATION



#2 REVERSE OSMOSIS



#3 UV LIGHT DISINFECTION AND ADVANCED OXIDATION

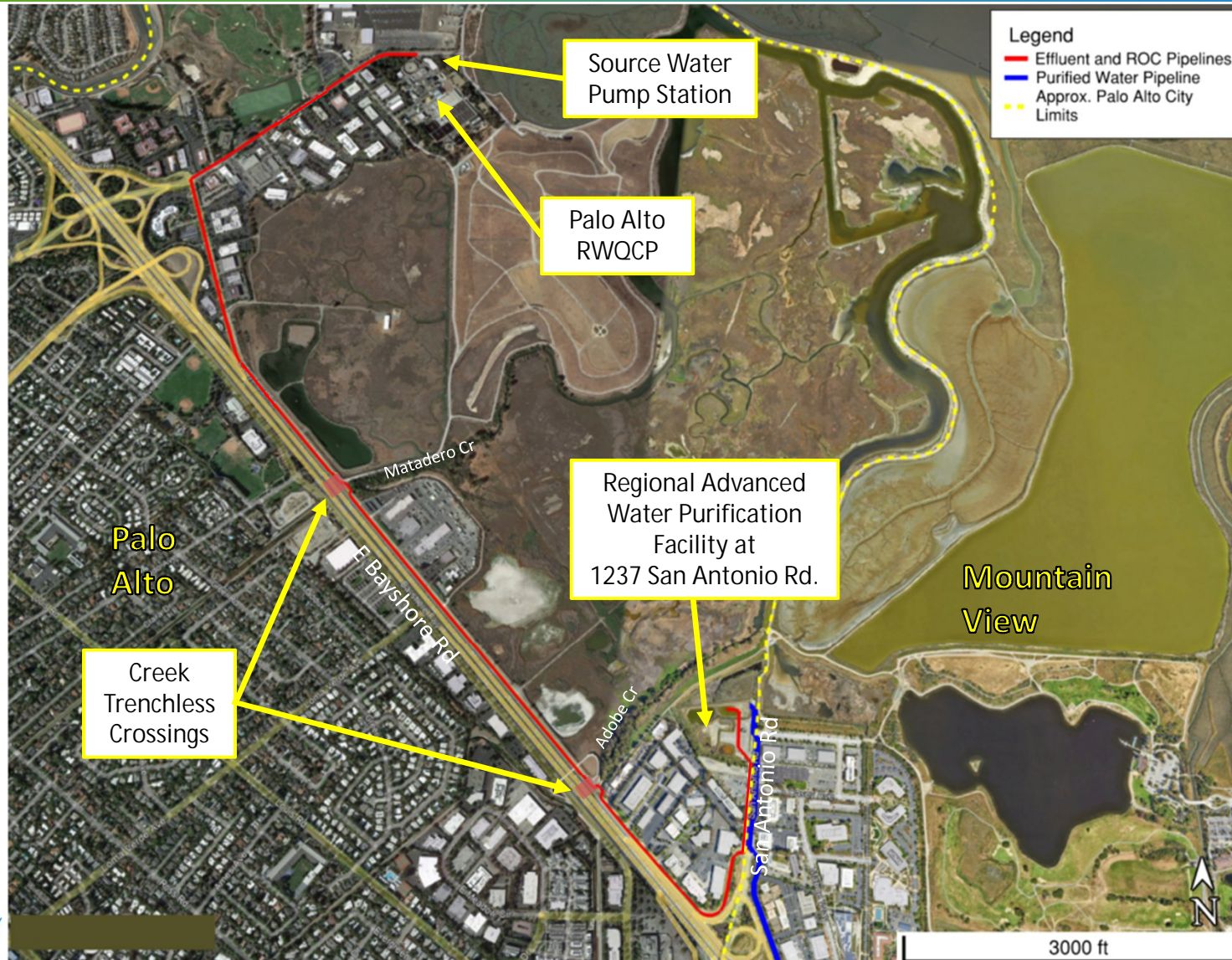
6

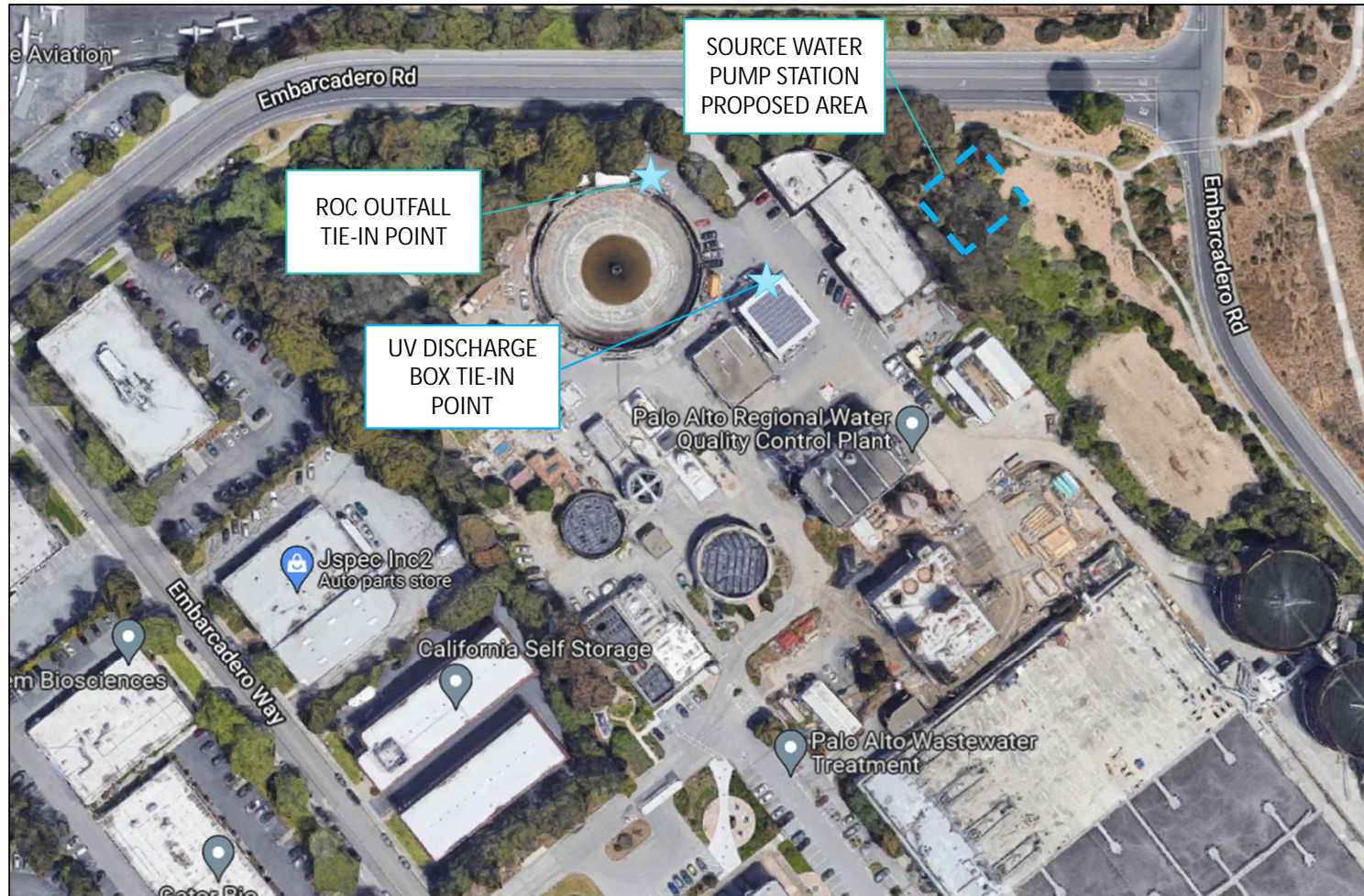
valleywater.org

Purified Water Project Overview



Project Elements in Palo Alto





Source Water Pump Station (SWPS) and Tie-in Locations

valleywater.org

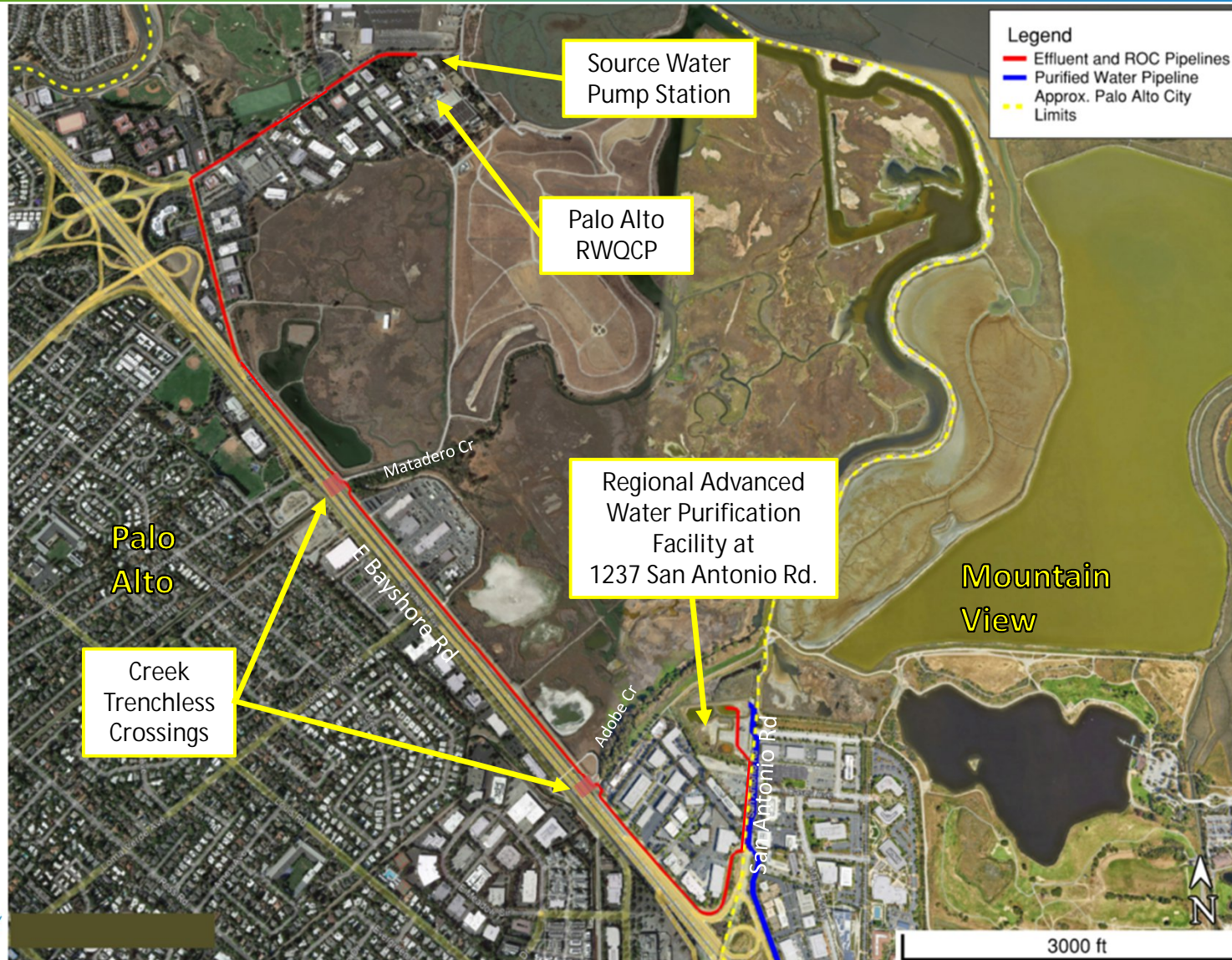
SWPS Rendering

10



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Project Elements in Palo Alto



Regional AWPf At 1237 San Antonio Road

- Former Los Altos Treatment Plant (LATP) Site
- Deemed most feasible location based on the Northwest County Recycled Water Strategic Plan (RMC, 2020)
- Environmental work delineated wetlands and characterized contaminated materials on the site – currently working on approvals to address these
- Performed geotechnical field investigations
- Requires a Comprehensive Plan Amendment
- Coordinating with the design team of the adjacent Project HomeKey

AWPF Depi cti on - Overhead

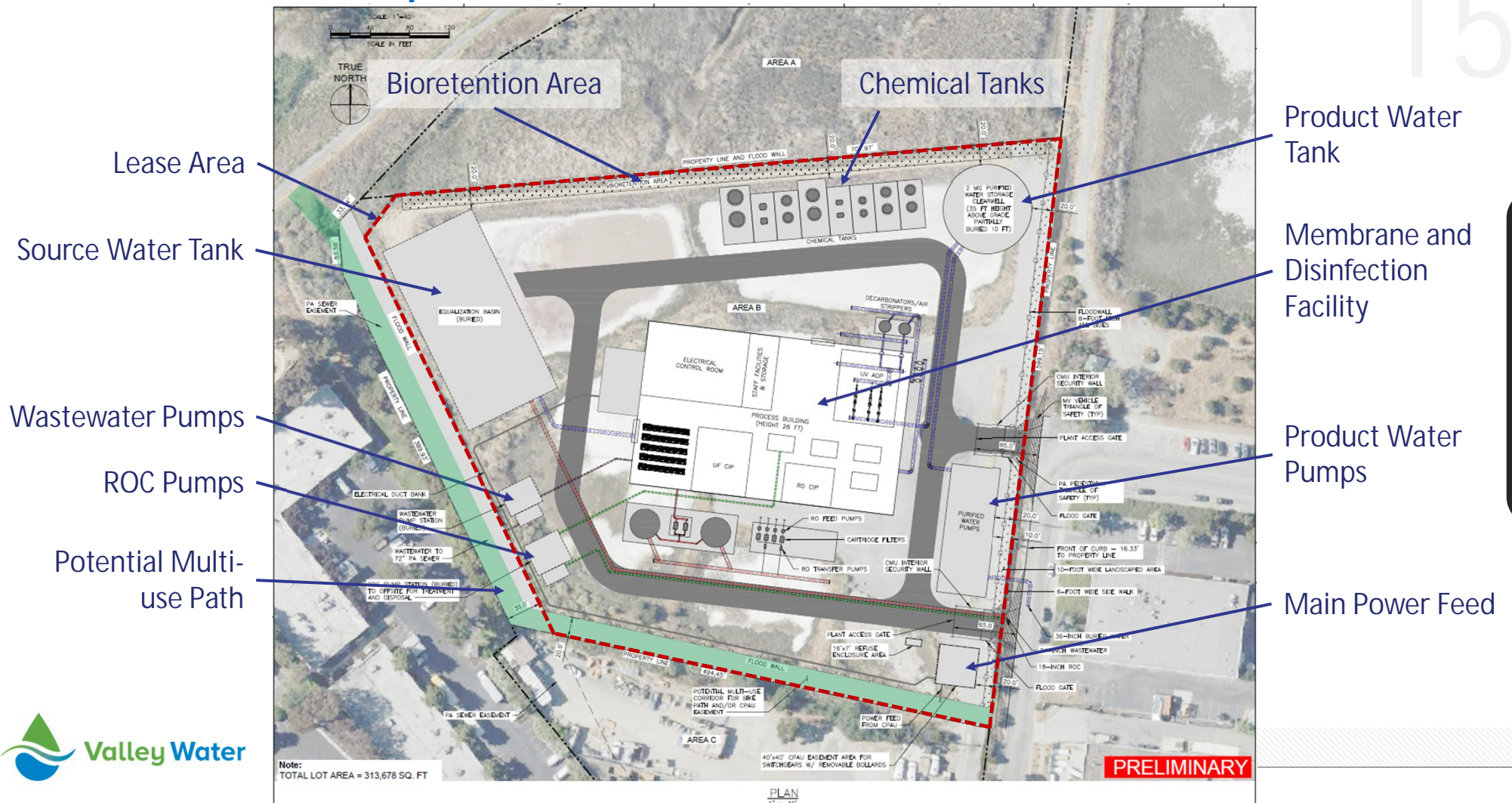


AWPF Depi cti on - Overhead



AWPF Conceptual Site Plan

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Project Delivery Method

- Using Design-Build-Finance-Operate-Maintain (DBFOM) Delivery Method
 - A private entity delivers the project, Valley Water retains ownership and partners with the private entity as part of a P3
- We are currently preparing a concept level design to include in the upcoming RFP release (Q3 2023)
- Estimated project cost: \$1.2B



(P3) Public Private Partnership



Project Agreements

Executed and Pending Agreements

Executed:

- 2019 Partnership Agreement to Advance Resilient Water Reuse Programs
- Staff Funding Agreement

Pending:

- Ground Lease Agreements
 - Option to Lease
 - LATP Site
 - Pump station and tie-in pipe runs at RWQCP site
- O&M Agreement, including ROC



CEQA and Coordination with Planning Department

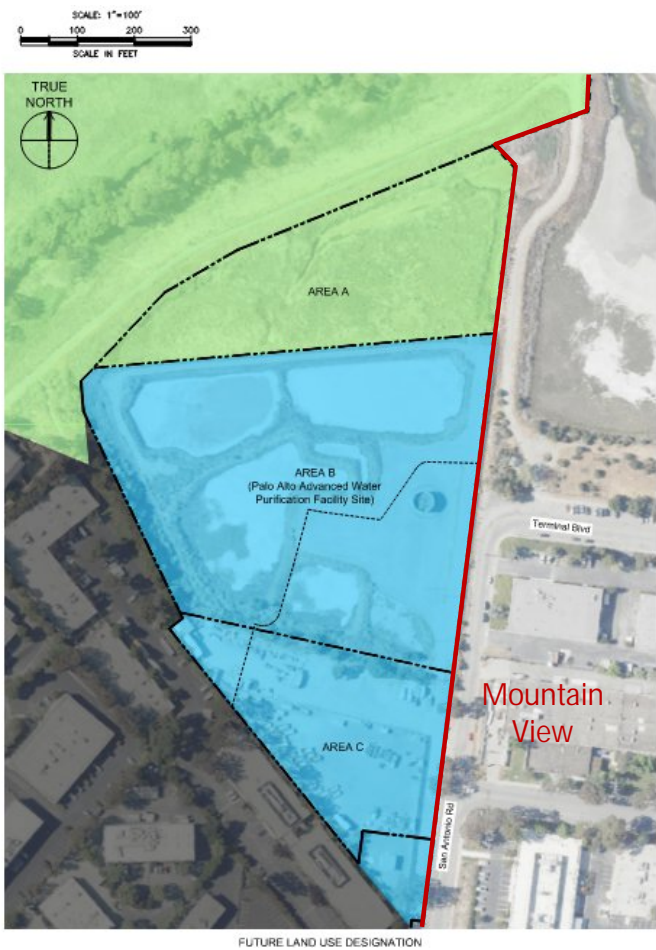
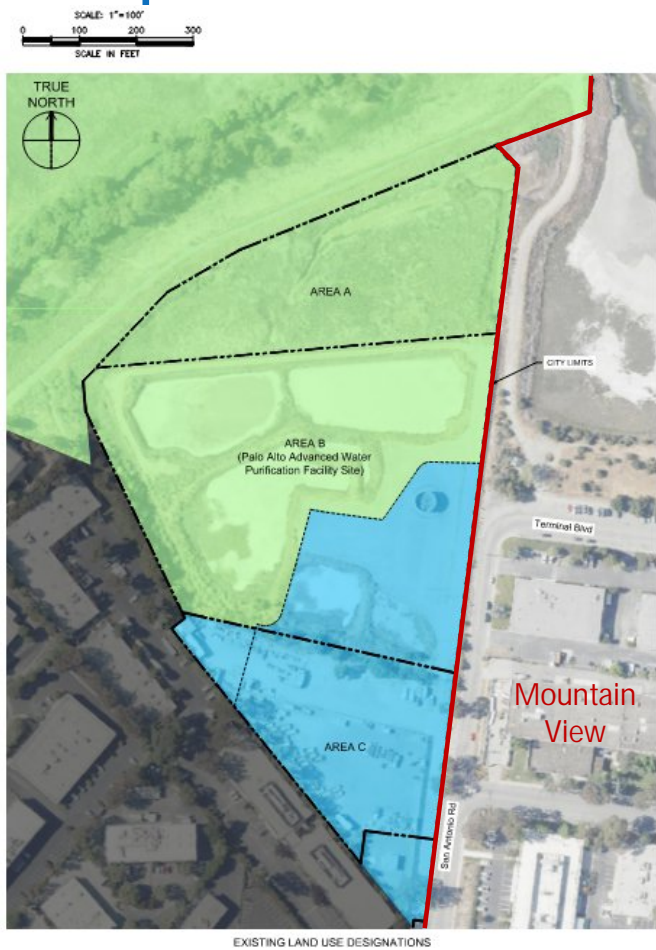
CEQA

- Working with Palo Alto and other Partners on the draft EIR
- Releasing the DEIR for 45-day public review once RFP is issued

Coordination with Planning Department

- Prescreening Application submitted
- Conducted meetings with the Development Review Committee
- Upcoming: Comprehensive Plan Amendment for LATP site
- Upcoming: Four Planning Applications
- Upcoming: Separate Rough Grading and Building Permits

Comprehensive Plan Amendment for LATP Site



- Public Conservation Land
- Major Institution/Special Facilities
- Research/Office Park

Stakeholder & Community Outreach

- Public Meetings
- Website
- Mailers
- Media campaign
- Public Tours
- Stakeholder meetings
- Continued collaboration with City staff
- Committee and Council updates

**Pure Water.
Pure Life.**

Hear what Zoe says! ▶
www.purewater4u.org

Zoe Lofgren
Congresswoman
19th Congressional District

siliconvalley
ADVANCED WATER PURIFICATION CENTER

Valley Water



SPECIAL ISSUE

**WATER AND HEALTH:
THE COMING WATER CRISIS AND
WHAT WE CAN DO ABOUT IT**

**Purified Water
& Conservation**

**Together,
our future is
drought-
proof.**

Valley Water

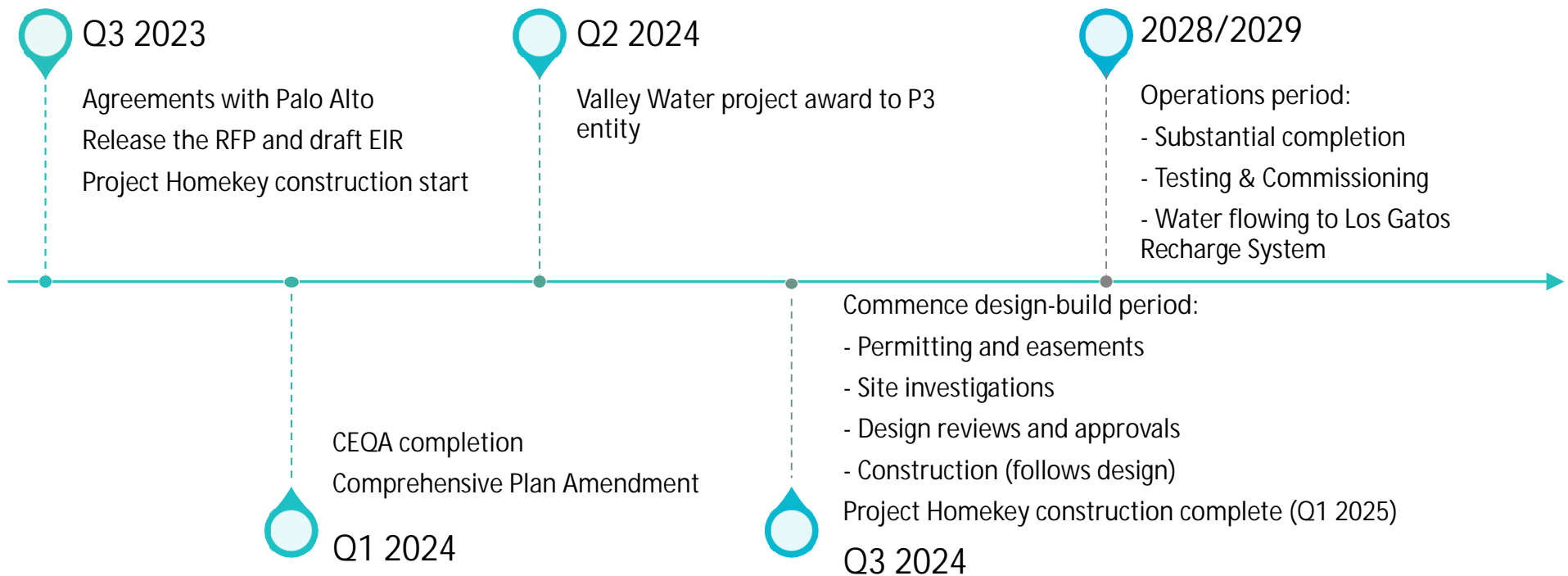


watersavings.org

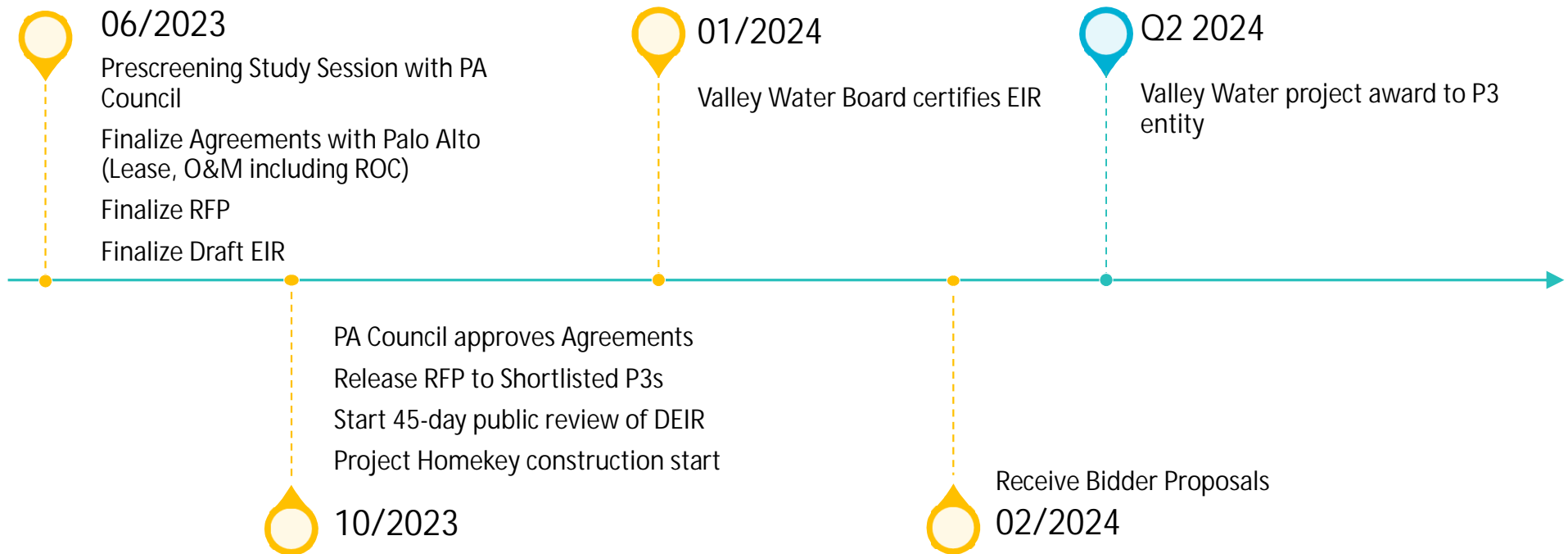


Project Timeline

Tentative Timeline



Twelve-Month Lookahead



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Questions?

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Santa Clara Valley Water District

File No.: 23-0544

Agenda Date: 6/12/2023

Item No.: 4.3.

COMMITTEE AGENDA MEMORANDUM **Joint RWPC with Cities of Palo Alto/E. Palo Alto/Mtn View**

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

SUBJECT:

Update on the Local Salt Removal Facility.

RECOMMENDATION:

Receive information and discuss next steps.

SUMMARY:

This agenda item provides a finance plan update on costs, design progress and a tentative schedule for the City of Palo Alto and the City of Mountain View

Local Salt Removal Facility

In March 2016, City of Palo Alto (Palo Alto) approved a contract with MNS Engineers and GHD along with an Agreement for staff to collaborate with the Santa Clara Valley Water District (Valley Water) and the City of Mountain View (Mountain View) on a Feasibility Study that evaluated salt reduction treatment technologies, facility sizing, siting, and preliminary cost estimates. Following the recommendations of the Feasibility Study, a Preliminary Conceptual Design Report for a phased local salt removal facility (also referred to as the Advanced Water Purification System) was completed in December 2017. The local salt removal facility will improve the recycled water quality by reducing its average concentration of TDS from 800 ppm to 450 ± 50 ppm by blending product water (reverse osmosis permeate) with the existing recycled water. The highly treated water would enable Palo Alto and Mountain View to expand its non-potable recycled water use and/or provide a first step toward small-scale direct or indirect potable reuse in Palo Alto.

In December 2019, Palo Alto, Mountain View and Valley Water signed an Agreement to Advance Resilient Water Reuse Programs in Santa Clara County. The Agreement included funding (\$16M) that could be put towards finalizing the design and building the local salt removal facility. As such, in March 2021 the City proceeded with a Request for Proposals and hired Black & Veatch to design the local salt removal facility which included updated cost estimates.

Due to increases in construction prices as well as refinement of design elements, the cost estimate for the local salt removal facility at the 30% design (\$52M) and 90% design (\$56M) were significantly higher than that of the preliminary design in 2017 (\$22M). Staff has worked to mitigate some of these increases by seeking out grant opportunities as well as considering alternative bidding options, pre-selection of equipment where possible, optimization of product water (permeate) storage tank, etc. Palo Alto City Council directed staff to prepare a Preliminary Finance Plan to describe the costs associated to the Project for Palo Alto and Mountain View, the various funding sources available and the fiscal impacts to the City.

Staff worked with Woodard & Curran to produce a Preliminary Finance Plan. The incorporated assumptions regarding estimated construction costs, construction schedules, and facility operations are based on the Black & Veatch 90 percent design milestone deliverables. The most recent estimated local salt removal facility capital cost is \$56,302,667 and includes Phase 1 design, construction, change order contingency, and program & construction management. Total project costs for Phase 1 assume a facility capacity of 1.125 million gallons per day (MGD) with equipment sized, spaced, and configured for a potential Phase 2 expansion to 2.25 MGD

Funding for the local salt removal facility is projected to come from several sources. External funding sources include the \$16M from the 2019 Agreement with Valley Water and a \$12,867,875 US Bureau of Reclamation grant, leaving a remaining funding requirement of \$27,434,792 (Table 1).

Table 1: Summary of Project Capital Costs and Available External Funding (based on 90% design deliverables)

	Amount
Capital Cost Estimate for Local Salt Removal Facility	\$56,302,667
Valley Water Funding	-\$16,000,000
US Bureau of Reclamation Grant	-\$12,867,875
Remaining Capital Cost to Be Paid By Cities	\$27,434,792

There will be new operating & maintenance (O&M) expenses following the local salt removal facility construction completion. Black & Veatch prepared O&M cost estimates based on the projected operating expenses for several production rates O&M cost will vary year by year depending on the actual demand by the users and it's estimated to average \$1M per year for the first 10 years of operation.

Next Steps

Mountain View City Council will discuss on June 27, 2023 the Preliminary Finance Plan and decide if staff moves forward with a new cost share Agreement with Palo Alto to cover the capital costs of the local Salt Removal Facility as well as to update the existing O&M Agreement to include these costs.

Palo Alto staff will continue internal discussions before taking the Preliminary Finance Plan to Council in June 2023.

If Project moves forward, staff will prepare an updated schedule, cost estimate and continue working

with City's Planning Department to approve construction of the Project.

ATTACHMENTS:

Attachment 1: PowerPoint Presentation

UNCLASSIFIED MANAGER:

Kirsten Struve, 408-630-3138

Karin North (Assistant Director of Public Works-City of Palo Alto)



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Update on Local Salt Removal Facility Joint Committee Meeting

June 12, 2023

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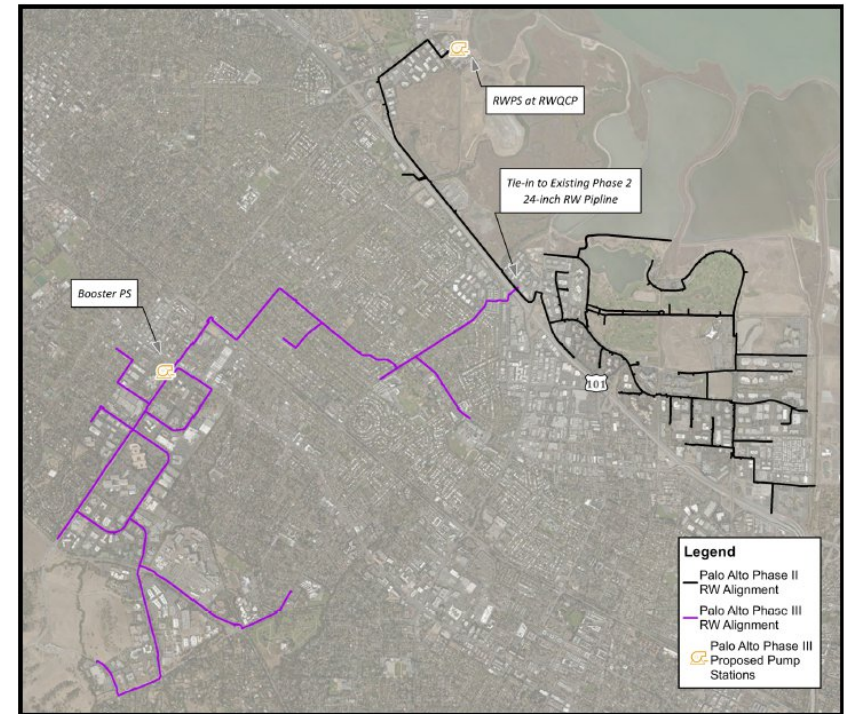


AGENDA

1. Project Overview
2. Design summary
3. Timeline
4. Permitting
5. Next Steps

Local Salt Removal Facility - Background

- Salinity Reduction Policy (600 ppm)
- Sewer repairs to reduce Inflow & Infiltration
- EIR for Phase III determined salt content in recycled water as a negative impact
- EIR Addendum to add local Salt Removal Facility as mitigation measure



Local Salt Removal Facility - Project Overview



- Project purpose:
 - To improve the recycled water quality from the RWQCP by lowering salt content
 - Higher quality recycled water decreases potable water demand for irrigation uses
- Phase I – 1.125 MGD permeate production
- Phase II – 2.25 MGD permeate production

Agency Roles

Project Component	Valley Water Role	Palo Alto Role	Mountain View Role
Local Salt Removal Facility	<ul style="list-style-type: none">-Funding-Support Valley Water's goal to increase recycled water use within the County	<ul style="list-style-type: none">-Funding-Design, construction, operation, and maintenance-Distribute enhanced recycled water	<ul style="list-style-type: none">-Funding-Distribute enhanced recycled water

Design Milestones

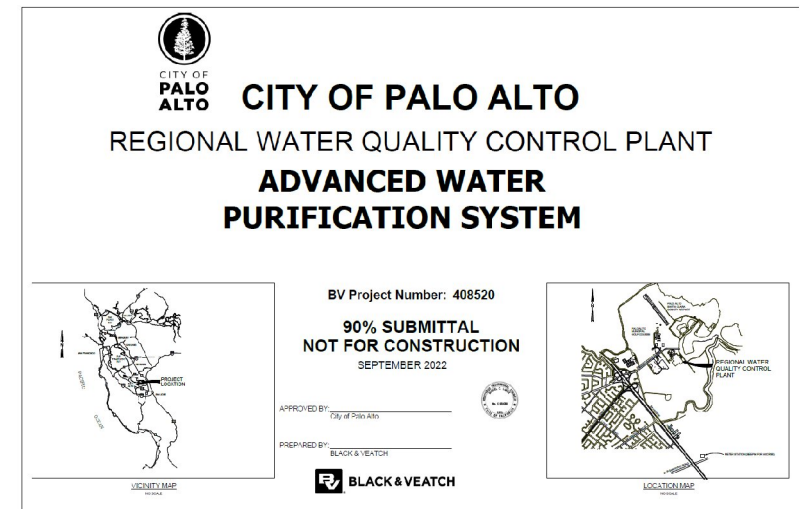
• Contract approved by Council	March 2021
•30 % Design	December 2021
•60% Design	May 2022
•90% Design	November 2022
•100% Design	expected June 2023

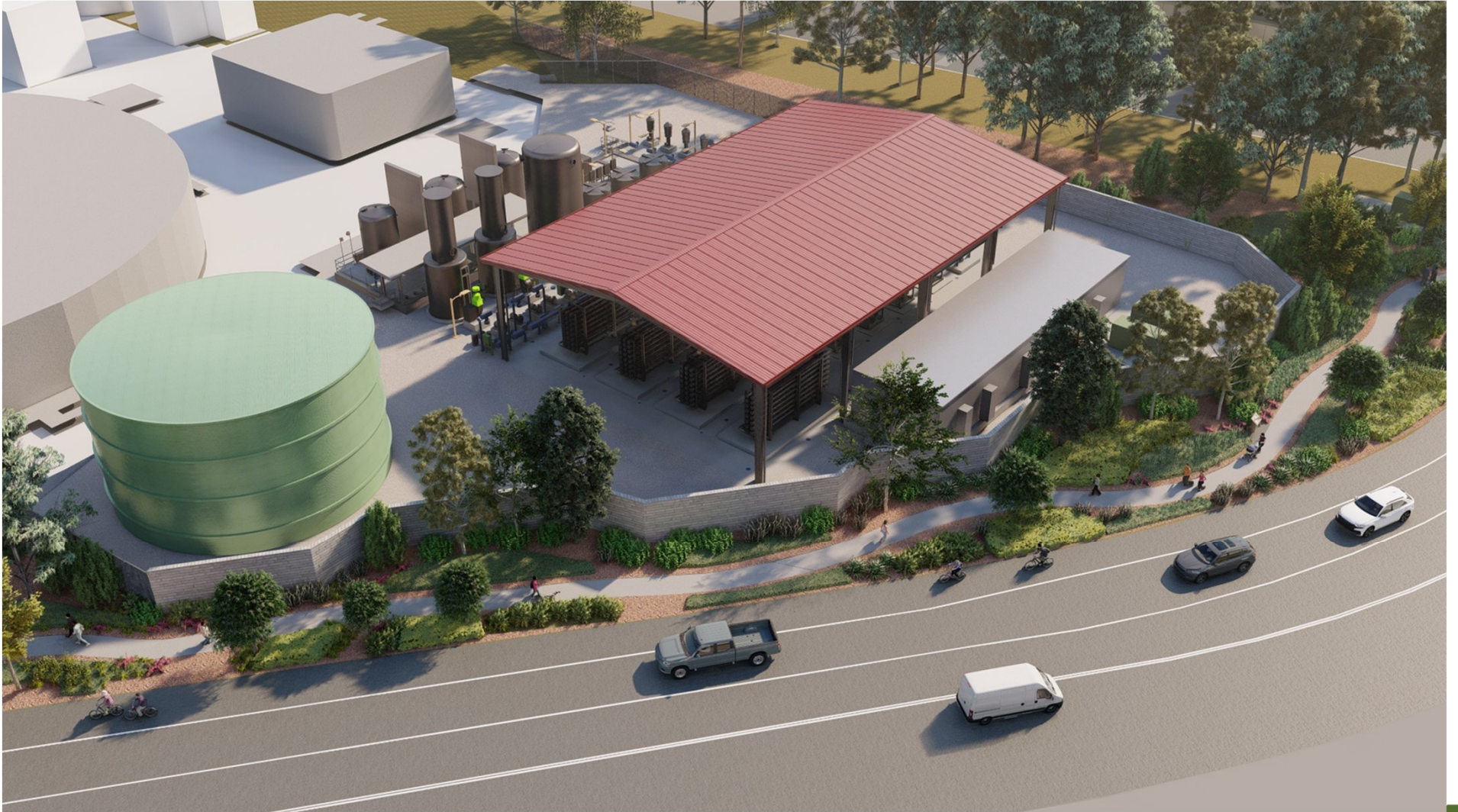
Project includes:

- Replacement of soil filter
- New permeate storage tank
- MF/RO process
- Blending station
- Landscaping, paving and site work



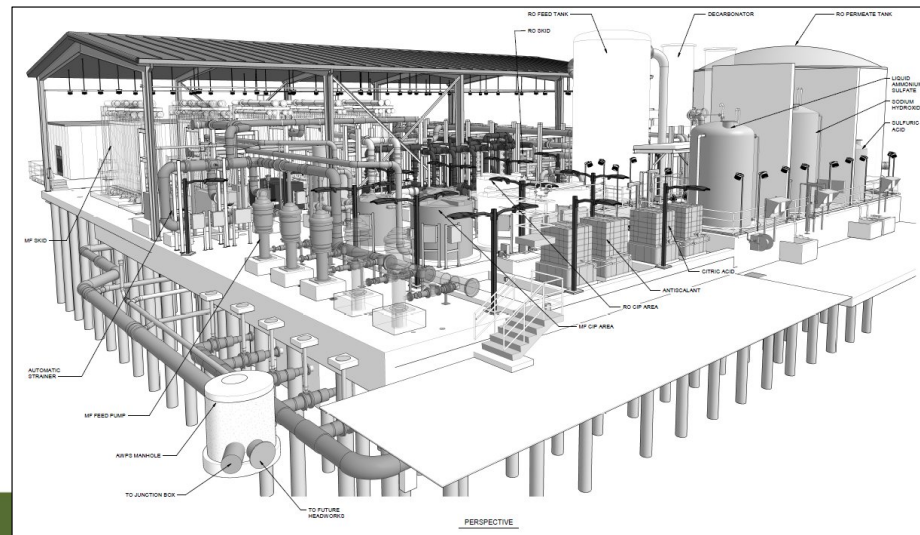
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Permitting

- CEQA and EIR Addendum
- Air District (BAAQMD) Authority to Construct
- Title 22 Engineering Report
- Regional Board ROC discharge approval
- City of Palo Alto Permits: Architectural Review Board, City Council, Building Permit and Site /Design Review.



Cost Estimates (90% Design – October 2022)

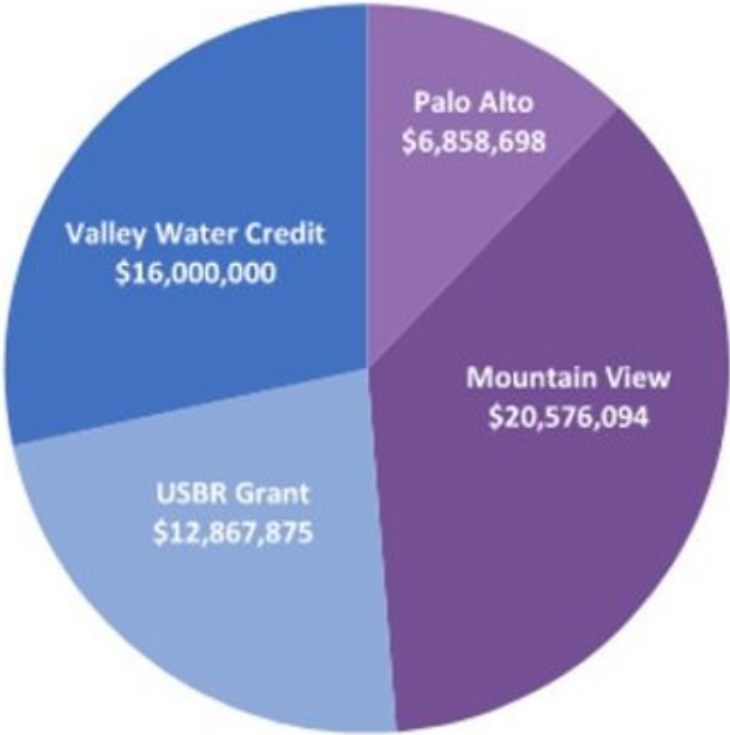
Facility	1.125 MGD	1.125 MGD
Indexed Dollar Value	2020	2022
Construction Costs		
Direct and Contractor Costs	\$13,904,000	\$37,098,000
Design Contingency and Market Volatility	\$4,900,800	\$4,013,000
Escalation	\$698,200	\$1,886,000
Estimated Bid	\$19,503,000	\$42,997,000
Other Project Costs		
Owner controlled change order contingency, engineering services, construction management, and program management	\$2,850,000	\$12,685,000
Odor Control Construction		\$620,000
Total Project Costs	\$22,353,000	\$56,303,000



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Capital Cost Share - \$56 million

- External Funding:
- Valley Water option payment from 2019 Agreement
 - Federal Grant United States Bureau of Reclamation



- Internal Funding:
- Mountain View most likely secured
 - Palo Alto evaluating funding



O&M Costs

- Operating cost allocation FY 2026 - \$840,000 for 1.27 MGD enhanced recycled water
 - O & M Labor
 - Maintenance and Repairs
 - Energy
 - Chemicals
 - Membrane Consumables



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Next steps

- Finance evaluation on-going
- Mountain View City Council – June 2023
- Palo Alto City Council – August 2023
- Design Completion ~ June 2023
- Permitting & Financial Agreements – late 2023
- Estimated construction start ~ mid 2024
- Construction complete ~ end of 2026



Santa Clara Valley Water District

File No.: 23-0545

Agenda Date: 6/12/2023

Item No.: 4.4.

COMMITTEE AGENDA MEMORANDUM
Joint RWPC with Cities of Palo Alto/E. Palo Alto/Mtn View

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

SUBJECT:

Next Meeting and Agenda Items.

RECOMMENDATION:

Discuss and confirm next meeting date and agenda items.

SUMMARY:

Review calendar for potential meeting dates in 2023.

ATTACHMENTS:

None.

UNCLASSIFIED MANAGER:

Candice Kwok-Smith, 408-630-3193

