



Santa Clara Valley Water District Board Policy and Planning Committee Meeting

Headquarter Boardroom
5700 Almaden Expressway

SPECIAL MEETING AGENDA

**Thursday, September 7, 2023
2:30 PM**

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

BOARD POLICY AND PLANNING COMMITTEE

Nai Hsueh - Director District 5
Tony Estremera, Director District 6
Rebecca Eisenberg, Director District 7

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COMMITTEE CLERK

Michele L. King, CMC
Clerk, Board of Directors

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
Board Policy and Planning Committee
SPECIAL MEETING
AGENDA

Thursday, September 7, 2023

2:30 PM

Headquarter Boardroom
5700 Almaden Expressway
San Jose, 95118

IMPORTANT NOTICES AND PARTICIPATION INSTRUCTIONS

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

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

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

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

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This agenda has been prepared as required by the applicable laws of the State of

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Join Zoom Meeting

<https://valleywater.zoom.us/j/81170871803>

Meeting ID: 811 7087 1803

Join by Phone:

1 (669) 900-9128, 81170871803#

1. CALL TO ORDER:

1.1. Roll Call.

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

Notice to the public: Members of the public who wish to address the Board/Committee on any item not listed on the agenda may do so by filling out a Speaker Card and submitting it to the Clerk or using the "Raise Hand" tool located in the Zoom meeting application to identify yourself to speak. Speakers will be acknowledged by the Board/Committee Chair in the order requests are received and granted speaking access to address the Board/Committee. Speakers' comments should be limited to three minutes or as set by the Chair. The law does not permit Board/Committee action on, or extended discussion of, any item not on the agenda except under special circumstances. If Board/Committee action is requested, the matter may be placed on a future agenda. All comments that require a response will be referred to staff for a reply in writing. The Board/Committee may take action on any item of business appearing on the posted agenda.

3. APPROVAL OF MINUTES:

3.1. Approval of Minutes.

[23-0905](#)

Recommendation: Approve the August 10, 2023, Minutes.

Manager: Michele King, 408-630-2711

Attachments: [Attachment 1: August 10, 2023, Minutes](#)

4. INFORMATION AND ACTION ITEMS:

4.1. 2023 Climate Change Action Plan Update.

[23-0906](#)

Recommendation: A. Receive information on the Greenhouse Gas Reduction Plan, including updated greenhouse gas emissions inventory methodology and the associated 2045 net-zero target; and
B. Receive an update on Implementation of Climate Change Adaptation Actions.

Manager: Lisa Bankosh, 408-630-2618

Attachments: [Attachment 1: GHG Inventory Summary](#)
[Attachment 2: Adaptation Action Status](#)
[Attachment 3: Flagship Metrics](#)
[Attachment 4: PowerPoint](#)

4.2. Board Governance Encampments of Unsheltered People Ends Policy E-6.

[23-0908](#)

Recommendation: A. Review and provide input on the draft Encampments of Unsheltered People Ends Policy E-6; and
B. Recommend that staff present the Encampments of Unsheltered People Ends Policy E-6 to the full Board for consideration.

Manager: Jennifer Codianne, 408-630-3876

Attachments: [Attachment 1: Draft Ends Policy](#)

- 4.3. Review Feedback Provided by the Board Advisory Committees Relating to Assigned Purposes, Accomplishments, and Suggested Areas of Improvement and Identify any Improvement Recommendations for Full Board Consideration. [23-0909](#)

Recommendation: A. Review feedback provided by the Board Advisory Committee Chairs/Vice Chairs and full committees relating to the assigned purposes, accomplishments, and suggest areas of improvement; and
B. Identify any improvement recommendations for full Board consideration.

Manager: Michele King, 408-630-2711

- 4.4. Review Committee 2023 Work Plan and Meeting Schedule. [23-0907](#)

Recommendation: A. Review the 2023 Board Policy and Planning Committee's Work Plan and incorporate any new tasks; and
B. Schedule Committee meetings as appropriate.

Manager: Michele King, 408-630-2711

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

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 2:000 p.m., on October 2, 2023.



Santa Clara Valley Water District

File No.: 23-0905

Agenda Date: 9/7/2023
Item No.: 3.1.

COMMITTEE AGENDA MEMORANDUM Board Policy and Planning Committee

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

SUBJECT:

Approval of Minutes.

RECOMMENDATION:

Approve the August 10, 2023, 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.

ENVIRONMENTAL JUSTICE IMPACT:

There are no Environmental Justice impacts associated with this item.

ATTACHMENTS:

Attachment 1: August 10, 2023, Minutes

UNCLASSIFIED MANAGER:

Michele King, 408-630-2711



BOARD POLICY AND PLANNING COMMITTEE MEETING

DRAFT MINUTES

Thursday, August 10, 2023
2:00 PM

(Paragraph numbers coincide with agenda item numbers)

1. **CALL TO ORDER**

1.1 ROLL CALL

A special meeting of the Santa Clara Valley Water District (Valley Water) Board Policy and Planning Committee (Committee) was called to order at 2:00 p.m. on August 10, 2023.

Board Members in attendance: Director Nai Hsueh – District 5; Director Tony Estremera – District 6, constituting a quorum of the Committee. Director Rebecca Eisenberg – District 7, arrived as noted below.

Staff members in attendance: Lisa Bankosh, Rechelle Blank, John Bourgeois, Theresa Chinte, Jennifer Codianne, Chris Hakes, Michele King and Carlos Orellana, Melanie Richardson, Don Rocha, Bhavani Yerrapotu, and Tina Yoke.

2. **Time Open for Public Comment on Any Item Not on Agenda**

Committee Chair Hsueh declared time open for public comment on any item not on the agenda. There was no one present who requested to speak.

Chair Hsueh moved Item 3.1-Approval of Minutes to the end of the agenda.

4. **Information and Action Items**

4.1 Review the Draft Board of Directors Code of Ethics and Conduct Policy and Recommend Sending to the Full Board for Review and Approval

Director Eisenberg arrived during discussion of this item.

Chair Hsueh reviewed the current draft Board of Director Code of Ethics and Conduct Policy (Policy). The Committee provided the following revisions:

Opening

Remove “D. Reporting Misconduct and Associated Enforcement and Consequences” from the list of applicable sections since it has been marked for deletion.

Ethics

4. Conduct of Public Meetings, second sentence, replace “ad hominem” with “personal.”

5. Decisions Based on Merit, move “with the public interest in mind” after “decisions.”

Conduct

At the end of the third paragraph add “stakeholders,” after “employees” in response to Katja Irvin’s request listed in Handout 4.1-A.

1. Board Members Conduct with One Another, Follow the role of the Board Chair in maintaining order, replace “parliamentary procedure” with Board parliamentary procedures as documented in Board Governance Policy GP-12, Conduct of Board Meetings,”

2. Board Members’ Conduct with Valley Water Staff, Never publicly criticize an individual employee, add “including through social media” after “in public”

3. Board Members’ Conduct with the Public, add “or the organization which they represent” after “public forum” in the second to last sentence,” in response to Katja Irvin’s request listed in Handout 4.1-A.

Director Eisenberg demands that the words “including Board Appointed Officers (BAOs)” added to section **2. Board Members’ Conduct with Valley Water Staff** be removed because it will muzzle the many times we’ve spoken out to the press when we’ve had ethical issues.

It was recommended that Director Eisenberg’s objection to the new addition of “Board Appointed Officers (BAOs)” in section **2. Board Members’ Conduct with Valley Water Staff**, Never publicly criticize an individual employee, because it prohibits a Director from speaking negatively about the CEO, District Counsel and the Clerk because they are different from personnel.

Katja Irvin, thanked the Committee for considering her requests and adding language where appropriate. She also requested that committee meeting minutes could be clearer on identifying guests versus members of the public.

It was moved by Director Estremera, seconded by Director Hsueh, with Director Eisenberg voting no, to incorporate the additional changes to the draft Policy and present the final version to the full board for consideration, and include a note that the Board should review and discuss Director Eisenberg’s objection to the new addition of “Board Appointed Officers (BAOs)” in Section **2. Board Members’ Conduct with Valley Water Staff**, Never publicly criticize an individual employee, because it prohibits a Director from speaking negatively about the CEO, District Counsel and the Clerk because they are different from personnel.

Director Eisenberg expressed concern for the format of Committee meetings, including seating, and Zoom functionality. Chair Hsueh stated that she would convey Director Eisenberg’s concerns to the full Board.

Chair Hsueh returned to Item 3.1 – Approval of Minutes.

3. 3.1 Approval of Minutes.

The Committee considered the June 5 and June 30, 2023, meeting minutes.

Director Eisenberg expressed objection to the Committee action documented for June 5, 2023, item 4.1 – Review Board Governance Policies Related to the Election of the Board Chairperson/Vice Chairperson and the role of the Board Chairperson. She indicated that she felt the motion documented in the Minutes was not the motion that was being deliberated and voted on at the time.

It was moved by Director Estremera, seconded by Director Hsueh, with Director Eisenberg voting no, to approve the June 5, 2023, Minutes as presented.

It was moved by Director Estremera, seconded by Director Hsueh, with Director Eisenberg voting no, to approve the June 30, 2023, Minutes as presented.

Chair Hsueh move the agenda to Item 4.2.

4. Information and Action Items

4.2 Board Governance Encampments of Unsheltered People Ends Policy E-6.

Rechelle Blank, Deputy Operating Officer, made herself available for any questions on this item.

Director Estremera suggested, and the Committee concurred, that Chair Hsueh work with staff on refining and reformatting the proposed policy and return to the Committee for review. The Committee also suggested that the Board recommend the review of this policy by the Environmental Creek Cleanup Committee after the full Board reviews the BPPC proposed language.

Katja Irvin suggested that the EUP objects listed in the EUP goals were not actually objectives and Chair Hsueh could consider this in her review with staff.

4.3 Discuss Candidate Statement Fee Associated with Filing for a Santa Clara Valley Water District Board of Director Seat and Identify Board Actions to Support Potential Future Candidates, if any.

Estremera recommend that Valley Water pay or reimburse 50% or an amount specified by the Board toward candidate filing fees.

Eisenberg would like Valley Water to refund the fee in its entirety and for the Board to look at creating campaign contribution limits and revising the District Act so a more representative group of people can serve.

It was moved by Director Estremera, seconded by Director Hsueh, and unanimously approved, to recommend to the Board to consider supporting each candidate with their statements fees by providing financial reimbursement of 50% or more, as the Board may determine.

4.4 2023 Climate Change Action Plan Update.

Chair Hsueh continued this item to the September Committee meeting.

4.5 Review Committee 2023 Work Plan and Meeting Schedule.

Chair Hsueh reviewed the work plan and meeting scheduled.

5. CLERK REVIEW AND CLARIFICATION OF COMMITTEE REQUESTS.

Michele King, Clerk of the Board, reviewed the actions taken by the Committee.

6. ADJOURNMENT

Chair Director Hsueh adjourned the meeting at approximately 3:50 p.m.

Michele L. King
Clerk of the Board

Approved:



Santa Clara Valley Water District

File No.: 23-0906

Agenda Date: 9/7/2023

Item No.: 4.1.

COMMITTEE AGENDA MEMORANDUM Board Policy and Planning Committee

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

SUBJECT:

2023 Climate Change Action Plan Update.

RECOMMENDATION:

- A. Receive information on the Greenhouse Gas Reduction Plan, including updated greenhouse gas emissions inventory methodology and the associated 2045 net-zero target; and
- B. Receive an update on Implementation of Climate Change Adaptation Actions.

SUMMARY:

Background

In 2021, the Board of Directors adopted Valley Water's first comprehensive Climate Change Action Plan (CCAP). The CCAP includes seven goals, with Goals 1 through 3 focused on climate mitigation, Goals 4 through 6 focused on climate adaptation, and Goal 7 focused on emergency preparedness. Each CCAP goal is achieved through several high-level strategies and specific actions. At the time of CCAP adoption, the Board directed staff to develop a CCAP Implementation Program and provide updates on progress on a regular basis.

Climate Change Mitigation: Greenhouse Gas Reduction Plan

Prior to the adoption of CCAP, staff provided periodic reports to the Board of Directors on emissions reduction for achieving carbon neutrality by 2020, a policy adopted by the Board in 2013. This GHG reduction work was guided by a voluntary framework that accounted for both GHG emissions and offsets associated with co-benefits of Valley Water's environmental stewardship mission and actions such as water conservation.

Carbon neutrality under this framework was achieved in 2014. The 2021 CCAP formalized Valley Water's climate change mitigation program, establishing Goal 1 (Reduce Direct Emissions), Goal 2 (Expand Renewable Energy and Improve Efficiency), and Goal 3 (Reduce Indirect Emissions). As part of the Implementation Program, high priority mitigation actions were identified, including updating this carbon accounting methodology and preparing a qualified GHG Reduction Plan.

Preparation of the Greenhouse Gas Reduction Plan is well underway. Working with a consultant

team, staff reviewed practices of other water agencies and updated accounting methodology, completed the emissions inventory (Attachment 1).

- Scope 1 (direct emissions) sources were not changed but updated with different emissions factors.
- Scope 2 (purchased electricity) now accounts for transmission and distribution losses.
- Scope 3 (indirect) emissions are being expanded to account for additional sources emissions from construction, emissions from sediment hauling conducted as part of the Stream Maintenance Program, solid waste and wastewater generated at facilities.

As directed by Assembly Bill 1279 (The California Climate Crisis Act), the State has established goals of carbon neutrality by 2045, and that Statewide 2045 GHG emissions will be at least 85 percent below 1990 levels. Valley Water aims to reduce GHG emissions in proportion to the State's targets. As a part of reduction target setting, staff is critically reviewing how Scope 3 (indirect) emissions and GHG offsets were accounted for under the previous methodology and will incorporate the latest state guidance for reducing these emissions, including advocacy, collaboration or partnership with regulatory and resource agencies, contractors, and suppliers. The Committee will receive a presentation on the Greenhouse Gas Reduction Plan target setting and next steps.

Climate Adaptation

CCAP goals that relate to climate adaptation consist of Goal 4 (Water Supply Adaptation), Goal 5 (Flood Protection Adaptation), Goal 6 (Ecosystem Adaptation), and Goal 7 (Emergency Preparedness). Staff prioritized actions within each goal according to cost, risk of impact, effectiveness, stakeholder feedback, and co-benefits, identifying 60 high-priority actions. To effectively represent Valley Water's priorities, and efficiently communicate progress on these priorities to the public, the CCAP Implementation Team also developed "flagship" metrics based on the high priority actions. Status of these high-priority actions and flagship metrics are provided in Attachments 2 and 3, and progress examples are described below.

Adaptation Priority Action Progress Examples

Goal 4: Water Supply Adaptation

Action: Increase capture and infiltration of stormwater and floodwater.

Progress Update: Valley Water is currently reviewing a draft flood managed aquifer recharge (FloodMAR) study report from UC Water. Valley Water is interested in whether Flood-MAR can enhance water supply while also providing co-benefits related to watershed stewardship. In addition, special studies and evaluations of brackish water and stormwater capture and treatment opportunities are being explored in coordination and collaboration with the cities of San Jose and Santa Clara, San Jose Water Company, and Stanford University.

Action: Develop storage, recharge, and conveyance options that support climate change adaptation efforts and are climate resilient.

Progress Update: In FY22 and FY23, staff are 1) Evaluating out-of-county groundwater banking opportunities, 2) Tracking Semitropic planning efforts and State reporting, and 3) Reviewing a draft San Pedro Ponds study report from consultants, which evaluates eight alternatives

to restore percolation rates at the ponds while reducing impacts on nearby septic systems.

Action: Enhance collaboration with wastewater agencies and publicly owned treatment works on source control and wastewater collection system maintenance to enhance recycled water and protect groundwater.

Progress Update: Purified Water Project. Staff continues to work with the City of Palo Alto for the Purified Water Project to build an Advanced Water Purification Facility to produce 10 MGD of purified water to be conveyed to the Los Gatos Recharge System in the City of Campbell for Indirect Potable Reuse. In addition, Valley Water is supporting the design and construction of a 1.25 MGD Desalting Facility to be built at Palo Alto Regional Water Quality Control Plant which would enhance the quality of the Recycled Water produced by Palo Alto. In parallel, efforts are underway to identify opportunities for expansion of Recycled Water in the County of Santa Clara in coordination with the cities of Palo Alto, Mountain View, Sunnyvale, San Jose, Santa Clara, Morgan Hill and Gilroy.

Goal 5: Flood Adaptation

Action: Continue to seek partnerships and expand coordination to enhance fluvial and coastal flood protection projects, consistent with the Natural Flood Protection (NFP) procedures

Progress Update: Shoreline Phase 1, Reaches 1-3 levee in Economic impact area (EIA) 11 (Alviso) is under construction. Phase 1 protects against coastal flooding and sea level rise. Shoreline Phase 2, under ongoing coordination with Army Corps, suggests no federal interest in a levee along the Palo Alto Flood Basin reach since the Corps' study was completed and shows the area is well protected by the existing berms, Palo Alto Flood Basin, and concrete freeway barriers along Hwy 101.

Action: Ensure regional collaboration in rising sea level efforts by continuing engagement with regional efforts such as Adapting to Rising Tides, CHARG and the One Bay Plan.

Progress Update: As a partner in CHARG, Valley Water has funded and collaborated on a technical white paper titled "Guidelines and Considerations for Modeling Sea-Level Rise Flood Hazards in San Francisco Bay." This report is currently being reviewed by CHARG members.

Action: Develop planning and design procedures that incorporate climate change solutions for climate related flood impacts.

Progress Update: Coastal flood protection projects are currently designed to accommodate up to 2.6 ft of sea level rise for a 100-year flow event with coincident 10-year coastal flood event (i.e., Shoreline level of flood protection). Sea level rise has also been included in planning for facilities located within the coastal floodplain such as the Silicon Valley Advanced Water Purification Center's expansion. Approaches to add flexibility to fluvial flood projects are currently under development.

Goal 6: Environmental Stewardship Adaptation

Action: Identify and pursue projects that increase the connectivity of coastal habitats and preserve the transition zone between the Bay's shoreline and streams' tidal zones, including wetland restoration and ecotone levees.

Progress Update: Calabazas/San Tomas Aquino Creek-Marsh Connection Project. The project submitted an application to the EPA SFWQIF Grant in 2022 and was awarded \$3.8M; details of awards are subject to the grant agreement which is yet to be finalized.

Action: Avoid the spread of invasive species through prevention and removal efforts.

Progress Update: Quagga zebra mussel monitoring was conducted in all Valley Water's reservoirs, BIF, and San Luis Reservoir per mussel prevention plan, with no detections; and Valley Water and County Parks received \$1 M in funding from the California Department of Boating and Waterways for mussel prevention program. Worked with Santa Clara County Parks and CDFW to develop signage related to "no move mussels, and conducted public education and outreach.

To augment Valley Water's invasive plant management efforts, a consultant team has been retained to develop the Integrated Invasive Plant Management Program and the Early Detection and Rapid Response programs. Program development began with internal stakeholder engagement meetings, gap analysis, and gathering of background and technical information. Next steps include manual outline development and initiation of the CEQA process.

Action: Promote climate-smart planting, such as by coordinating with the Valley Habitat Agency, to include climate-smart planting palettes.

Progress Update: Point Blue Conservation Science has developed a climate smart restoration tool that provides site-specific restoration plant palettes. Valley Water will promote the use of the Point Blue tool and climate smart restoration in *general*. *In addition, Valley Habitat Agency, to which Valley Water is a partner, has used this in one implemented project (Pajaro River Agriculture Preserve, in cooperation with OSA) and two projects in planning stages (Pacheco, Davidson Property).*

Goal 7: Emergency Preparedness

Action: Complete flood management plans/procedures (e.g., emergency action plans (EAPs) and annexes) based on risk priorities.

Progress Update: 2 new EAPs complete in FY2022, the Lower Peninsula Watershed EAP and the Palo Alto Flood Basin procedure, consistent with Safe Clean Water Project F2, in addition to an existing 19 EAPs. These plans are developed for creeks and reservoirs in Santa Clara County to help coordinate with other agencies and proactively plan for disasters such as floods and earthquakes. In FY2023, the development of the plans for Berryessa Creek and Lower Penitencia Creek is now taking place.

Action: Coordinate with cities and the County of Santa Clara in development of a multi-jurisdiction hazard mitigation plan that addresses wildfire risk and other climate related impacts.

Progress Update: In 2023, Valley Water is now partnering with the County of Santa Clara to determine what the county's jurisdiction methodology is in order to assist with risk assessing and overall management of hazard impacts on operations.

Action: Improve communication to the public about climate-related disasters.

Progress Update: Valley Water's annual flood awareness campaign includes messaging on climate change impacts. Additionally, having endured consecutive years of being in a drought, Valley Water's annual water conservation campaign was expanded to further emphasize drier conditions and extreme weather related to climate change.

Outreach and Collaboration

The CCAP Implementation Team staff participating in various regional efforts on climate mitigation and adaptation to ensure Valley Water is aligned and can contribute meaningful input to address these challenges. Example of these regional efforts include the Santa Clara County Climate Collaborative, County Climate Roadmap, and Coastal Hazards Adaptation Resiliency Group (CHARG). For the County Climate Collaborative, Valley Water is represented on the Leadership Advisory Team and the sea level rise and flooding working groups. On a nationwide level, staff participate in the US Water Alliance's Utility GHG Reductions Cohort Peer Exchange.

ENVIRONMENTAL JUSTICE IMPACT:

There are no Environmental Justice impacts associated with this item. Greenhouse gas emission reduction and climate change adaptation may result in benefits to the Santa Clara County community, including the disadvantaged communities.

ATTACHMENTS:

Attachment 1: GHG Inventory Summary
Attachment 2: Adaptation Action Status
Attachment 3: Flagship Metrics
Attachment 4: PowerPoint

UNCLASSIFIED MANAGER:

Lisa Bankosh, 408-630-2618

Preliminary GHG Inventory Results Summary Using Updated Methodology

For Board Policy and Planning Committee's August 10, 2023 Meeting

Notes to the Table:

All data presented in metric tons of carbon dioxide equivalent (MTCO₂e) per year

* Activity data not available for sediment hauling and business travel in 2017. Excluded from baseline calculation.

** Employee commute and business travel emissions excluded from inventory in 2020 and 2021 due to the impacts of the COVID-19 Pandemic.

Scope	Emissions Sector	Included In CCAP	2017 *	2018	2019	2020 **	2021 **	2017 - 2021 Baseline
1	Facility Natural Gas	Yes	625	765	727	747	763	725
1	On-road Fleet	Yes	964	1,032	1,134	1,172	1,208	1,102
1	Off-road Fleet	Yes	866	561	704	763	620	703
1	High GWP Gases	Yes	0	0	0	0	0	0
2	Facility Energy	Yes	14	79	0	9	0	20
3	Imported Water	Yes	6,802	10,151	2,469	3,697	5,457	5,715
3	Employee Commute	Yes	3,431	3,039	3,094	-	-	3,188
3	Business Travel	Yes	-	67	227	-	-	147
3	Construction	No	5,752	6,516	7,985	7,149	7,123	6,905
3	Solid Waste	No	482	436	453	467	541	476
3	Wastewater	No	347	314	327	336	390	343
3	Sediment Hauling	No	-	47	177	167	77	117
TOTAL			19,283	23,006	17,296	14,507	16,179	19,441

The Numbers are Preliminary and Subject to Refinements

CCAP High Priority Adaptation Actions: FY2022/FY2023 Update

Goal	Strategy	Action	Status	Program/Plan/Project Linkage	Implementation Actions	FY2022/FY2023 Progress
4	S4.1: Diversify local water supplies and expand drought-resistant water supply.	4.1.3 Collaborate on water reuse research projects.	Ongoing	Water Supply Planning (desal) Recycled Water Program	1. Perform a feasibility study of a desalination project located in Santa Clara County. 2. Expand use of recycled water	1. Desalination feasibility study drafted. Staff is working with consultant to finalize the feasibility study. Once finalized staff will take to the Recycled Water Committee and potentially the BOD if directed. Feasibility study is focused on environmental issues related to the construction of a desal facility in the South Bay only. Planning level studies would follow if the BOD directs staff to do so. 2. Valley Water has continued efforts to expand water reuse by: collaborating with the City of Palo Alto to develop and construct purification facilities in Palo Alto to advance treat wastewater for indirect potable reuse at the Los Gatos Recharge System; working with the City of Sunnyvale to evaluate the applicability and timing of future non-potable and potable reuse opportunities in their city; partnering with San Jose to evaluate options to maximize wastewater reuse for non-potable reuse through South Bay Water Recycling and options for wastewater purification and future reuse through direct and indirect potable reuse opportunities in North County; and coordination with our South County partner agencies to maximize non-potable reuse in Gilroy and evaluate future water purification opportunities in the Cities of Gilroy and Morgan Hill.
4	S4.1: Diversify local water supplies and expand drought-resistant water supply.	4.1.4 Expand on-site reuse	Expand	Water Conservation Programs (including landscape and graywater rebates)	1. Implement Safe Clean Water activities such as fire station water reuse. 2. Broaden participation in Valley Water's graywater program.	Engaged with fire stations in San Jose and Palo Alto to procure water-recycling trucks for training purposes known as "Pump Pods" through leveraging the Water Efficient Technology Rebate that offers up to \$100,000 for qualifying project. No participation in FY 22. Created a new Getting Started with Graywater Frequently Asked Questions document, and 11 successful graywater projects installed.
4	S4.1: Diversify local water supplies and expand drought-resistant water supply.	4.1.5. Resolve regulatory challenges to innovative local water solutions and increase coordination on alternative water uses.	Expand	Direct Potable Reuse (DPR)	1. Continue to work on adoption of Model Water Efficient New Development Ordinance (MWENDO). 2. Continue to actively engage in state DPR regulation development.	1. Valley Water is updating the Ordinance in preparation for the upcoming 2025 building code adoption cycle. It is anticipated that revisions will include a supplemental provision to encourage cities and the County to prohibit irrigation of decorative, non-functional turf with potable water on CII sites within their jurisdictions. 2. Valley Water continues to work with State regulatory staff and interested stakeholders to further develop and refine direct potable reuse regulations to implement and expand water reuse in California. Draft regulations are expected Summer 2023, followed by continued regulatory development and public comment periods extending into next year, with state approved regulations anticipated in 2024.

CCAP High Priority Adaptation Actions: FY2022/FY2023 Update

Goal	Strategy	Action	Status	Program/Plan/Project Linkage	Implementation Actions	FY2022/FY2023 Progress
4	S4.1: Diversify local water supplies and expand drought-resistant water supply.	4.1.7 Increase capture and infiltration of stormwater and floodwater. Implement green stormwater infrastructure projects to maximize runoff retention, including those identified in the Stormwater Resources Plans as having water supply benefits.	Expand	Stormwater Resource Plans Municipal Regional Stormwater Permit Annual Reports Flood Managed Aquifer Recharge (FloodMAR)	1. Identify areas with multiple Green Stormwater Infrastructure (GSI) benefits such as water supply, water quality improvements, and flood risk reduction, while also considering benefits to DACs. 2. Complete the FloodMAR planning study.	1. Reviewing stormwater resource plans for Santa Clara basin and south county for potential locations. 2. VW is currently reviewing the draft FloodMAR study report from UC Water.
4	S4.1: Diversify local water supplies and expand drought-resistant water supply.	4.1.8 Expand collaboration with stormwater agencies and South County stormwater permittees on green infrastructure and stormwater infiltration to ensure groundwater quality is protected.	Expand	Stormwater Resource Plans Land use-water coordination Groundwater Management Plan	1. Review stormwater resource plans 2. Carry out land use-water resource coordination with cities 3. Monitor groundwater quality for any areas of concern.	1. Reviewing stormwater resource plans for Santa Clara basin and South County for potential project locations. 2. Water Supply Planning and Watershed Stewardship and Planning units met with 11 cities to discuss coordination of land use-water resources topics. Several cities interested in regular meetings to continue collaboration. 3. Annual groundwater monitoring indicates groundwater quality remained generally good in the principal aquifer.
4	S4.2: Improve demand management and increase water conservation efforts.	4.2.4 Increase water conservation by methods such as encouraging climate appropriate landscapes.	Expand	Water Supply Planning and Conservation Agricultural Water Use Baseline Study Water Conservation Strategic Plan	1. Continue expanding Valley Water's conservation program. Justin: Leverage the findings of the 2021 Water Conservation Strategic Plan to implement targeting marketing strategies to increase participation in disadvantaged communities, as well as multi-family, commercial, industrial, and institutional properties. Leverage the Online Shopping Cart and Fixture Replacement Program to increase indoor water use efficiency. Consider developing pilot programs to evaluate the effectiveness of additional water conservation programs.	Final FY22 update: 80,078 AF conserved annually compared to a target of 109,000 AF by 2040. This is an increase over past years. Additional conservation updates include: - Increased lawn conversation rebate for low income households and veterans - Launch of the water conservation online shopping cart program - Fixture replacement program - Cost sharing program for advanced metering infrastructure (AMI) with water retailers
4	S4.4: Support efforts to maintain and enhance source water quality.	4.4.4 Enhance collaboration with wastewater agencies and publicly owned treatment works (POTWs) on source control and wastewater collection system maintenance to protect recycled water and groundwater	Expand	Recycled Water Program/Purified Water (P3) - Palo Alto/Mtn View - San Jose	1. Continue planning for the Purified Water Project.	Staff continues to work with the City Palo Alto for the Purified Water Project to built an Advanced Water Purification Facility to produce 10 MGD of purified water and send it to the Los Gatos Recharge System in the City of Campbell. Staff is currently working with the City to draft and execute a lease agreement and O&M agreement and take these to the BOD in Q3 of CY2023.
4	S4.4: Support efforts to maintain and enhance source water quality.	4.4.5 Conduct outreach to the public on water reuse and source water quality.	Expand	Communications Community Engagement Water Supply Master Plan	1. Carry out communication campaigns.	Spring and Summer conservation campaigns Say Yes drought campaign
4	S4.6: Increase flexibility and resilience of water utility operations and assets.	4.6.1 Develop storage, recharge, and conveyance options that support climate change adaptation efforts and are climate resilient.	Expand	Water Conservation and Planning Imported Water	1. Continue the evaluation of Semitropic diversification approaches. 2. Complete a planning study on improving recharge at San Pedro Ponds. 3. Evaluate Lexington Pipeline.	1. Evaluating the out-of-county groundwater banking opportunities 2. Tracking Semitropic planning efforts and State reporting 3. Received draft San Pedro Ponds study report from consultant.

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4	S4.6: Increase flexibility and resilience of water utility operations and assets.	4.6.2 Develop asset management plans that incorporate climate change solutions and improve the reliability of aging water supply infrastructure.	Expand	Asset Management Operations & Maintenance Program	1. Develop climate change goals for water utility master plans. 2. In annual maintenance work planning, evaluate climate change needs for upcoming asset replacement and rehab projects	FY22 - 0 asset management plans incorporate climate change. FY23 - 1 asset management plans will include climate change - Stevens Creek FY24 - 1-2 asset management plans will include climate change (District Wide Watershed Asset Management Plan and potentially one more creek) FY25 forward - New asset management plans in FY25 and after will incorporate climate change solutions to improve the reliability of aging water supply infrastructure, and to promote adaptation, resilience, and flexibility in flood protection assets.
4	S4.6: Increase flexibility and resilience of water utility operations and assets.	4.6.4 Increase resiliency to climate change impacts that create risks for operations and water utility assets, such as including small-scale mitigation and adaptation efforts in projects' O&M cycles.	Expand	Business Support and Asset Management	1. Consider goals for resilience in existing master plans. 2. Look for actions to increase resilience.	Tracking goals in existing master plans and looking for opportunities to increase resilience.
4	S4.6: Increase flexibility and resilience of water utility operations and assets.	4.6.5 Ensure that people, vehicles, and equipment can continue to access pipelines and other assets.	Ongoing	WU Maintenance	1. Inspections of structures that provide access are performed frequently and preventative maintenance repairs are conducted to ensure safe access is available	Work is tracked in Maximo as needed.
4	S4.7: Support ecological water supply management objectives	4.7.2. Implement the Fisheries and Aquatic Habitat Collective Effort (FAHCE) operations and adaptive management to support fisheries' environmental conditions.	Ongoing	FAHCE	FAHCE Planning/Permitting FAHCE flow and nonflow measures implementation	Regular updates provided through Stewardship Planning and Operations Committee
4	S4.7: Support ecological water supply management objectives	4.7.3 Continue to participate in statewide environmental flows discussions.	Ongoing	FAHCE program	FAHCE Planning/Permitting FAHCE flow and nonflow measures implementation	Regular updates provided through Stewardship Planning and Operations Committee
4	S4.7: Support ecological water supply management objectives	4.7.4 Participate in joint efforts with our partner water agencies and other state and federal agencies to support ecosystem restoration, research, and science-based water management for the SWP and CVP.	Ongoing	Imported Water	Participate in state and federal workgroups for ecological adaptations to water supply operations. Analyze and provide feedback on proposed state and federal actions	Regular meetings discussing the feasibility of proposed state and federal actions

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5	S5.1: Minimize riverine flooding risks	5.1.4 Create natural floodplain areas, stream-upland transition areas, and upland buffers around streams locally.	Ongoing	NFP Partnerships such as VW-OSA partnership in Coyote Valley	1. Document climate benefits as a part of these efforts. 2. Document opportunities (coordination between One Water and CCAP).	The Guadalupe and Pajaro One Water Watershed Plans are in development, and will incorporate opportunities to coordinate with the CCAP.
5	S5.1: Minimize riverine flooding risks	5.1.5 Expand procedures to plan and design capital projects for long-term stream resilience, including defining life-time costs, ensuring maintenance needs are defined and budgeted, ensuring documentation of mitigation and regulatory requirements, and training.	Ongoing	Business Planning and Analysis Asset Management Watersheds O&M	1. Use SCW F8 workflow as a mechanism to ensure maintenance needs are met or larger issues are forwarded to Watershed Asset Rehabilitation Program or Capital Improvement Program so that infrastructure remains resilient.	SCW F8 has analyzed and prioritized over 85 creeks based on current conditions. A draft list of potential asset renewal projects and comprehensive asset management plans. A handful of projects may go into WARP and the others to be submitted into the CIP. Based on this analysis, F8 team prioritized Stevens Creek to be the first Asset Management Plan to be developed with a holistic and geomorphic approach in order to address multiple issues related to flooding and aging infrastructure. This AMP is to be completed by July of 2023.
5	S5.2: Minimize flood risk in coastal areas	5.2.1 Continue to seek partnerships and expand coordination to enhance fluvial and coastal flood protection projects, consistent with the Natural Flood Protection (NFP) procedures, such as the South San Francisco Bay Shoreline Study , , SFEI's Resilient by Design, and the South Bay Salt Pond Project.	Expand	Shoreline Study South Bay Salt Pond Project (SBSP)	1. Share information with partners and receive information from partners on approaches to fluvial and coastal flood protection.	Shoreline Phase 1- Reaches 1-3 levee in EIA 11 (Alviso) is under construction. Protects against coastal flooding, sea level rise. Shoreline Phase 2 - Continuing coordination with the Army Corps. The economic analysis suggests no near-term federal interest in a project as the area is protected by existing berms, Palo Alto Flood Basin, and concrete freeway barriers along Hwy 101 through 2060. Valley Water is working with the Corps to refine the analysis and potentially identify smaller projects with near-term federal interest. Shoreline Phase 3 - Feasibility Study is expected to begin in July 2023, and will evaluate the shoreline areas of Mountain View, Sunnyvale and Santa Clara.
5	S5.2: Minimize flood risk in coastal areas	5.2.2 Continue work on capital projects and coordination with cities to address sea level rise related flooding risks.	Ongoing	Capital projects OTHER than Shoreline Study	1. Implement CIP projects and ensure they consider climate change impacts.	Capital flood protection projects after 2006 are incorporating measures of protection against sea level rise (up to 2 to 2.6 feet). Example projects include Shoreline Project, and flood protection projects on Permanente Creek, Lower Penitencia Creek, Berryessa Creek, Sunnyvale East Channel and Sunnyvale West Channel.
5	S5.2: Minimize flood risk in coastal areas	5.2.4 Design coastal and Baylands flood protection projects that respond to sea level rise (e.g. restoring coastal/ Baylands habitat, improving channel design and management as encouraged by SFEI Flood Control 2.0, etc.).	Ongoing	Calabazas and San Tomas Aquino Marsh Connection Project	1. Share information with partners and receive information from partners on approaches to fluvial and coastal flood protection.	Calabazas and San Tomas Aquino Marsh Connection Project has completed conceptual alternatives selection. By restoring the Pond A8 complex to tidal marsh, this project will provide a long-lasting, natural barrier between urbanized uplands and the bay, as well as provide wave damping during future coastal flood events. As long as there is enough sediment supply, this design will be resilient into the future. This project is moving forward along with the Shoreline project to provide protection against the high bay water levels from coastal events, however.
5	S5.2: Minimize flood risk in coastal areas	5.2.6 Install tidal gages to monitor and communicate rising sea levels.	Expand	HDMM Project	1. Track existing gauges, determine need for new gauges, install new gauges, and identify process for monitoring gauges.	New gage was added on Sunnyvale East Channel at the location just south of Pond A4 where the channel makes an abrupt right turn. Stage only.

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5	S5.2: Minimize flood risk in coastal areas	5.2.7 Ensure regional collaboration in rising sea level efforts by continuing engagement with regional efforts such as Adapting to Rising Tides, CHARG and their One Bay Plan.	Ongoing	Coastal Hazard Adaptation Resiliency Group (CHARG)	1. Document regional efforts Valley Water participates in, including Coastal Hazard Adaptation Resiliency Group (CHARG).	As a partner in CHARG, Valley Water has funded and collaborated on a technical white paper titled "Guidelines and Considerations for Modeling Sea-Level Rise Flood Hazards in San Francisco Bay". This report is currently being reviewed by CHARG members. VW also represented CHARG in BCDC's Bay Adapt process in the development of a joint platform for regional consensus-based strategies around rising sea levels (https://www.bayadapt.org/jointplatform/).
5	S5.3: Improve flood preparedness of people, property, and habitat.	5.3.3 Work with land use agencies to reduce vulnerability to flooding by minimizing development and prioritizing natural space in floodplains, such as through installing vegetated buffers along creeks and obtaining easements in priority areas for flood protection.	Expand	CPRU	1. Remind cities of guidelines and standards/encourage adoption. 2. Develop training/education. 3. Check in with cities through Land use-water meetings.	1. Community Projects Review Unit is informing external developers of the Guidelines and Standards for Land Use Near Streams with each review it carries out. 2. Presented a refresher on guidelines and standards at the Santa Clara County Association of Planning Officials. 3. FY2023 - In progress and coordinating with various cities.
5	S5.3: Improve flood preparedness of people, property, and habitat.	5.3.4 Continue to enhance monitoring and/or maintenance programs for levees and flood walls, such as through collaboration with local agencies and training EOC staff about flooding risk areas.	Ongoing	Asset Management Emergency Action Plans HH&G Unit	1. Convey problem areas (locations not meeting level of service) from asset management review to emergency response teams for EAPs/external coordination.	Valley Water maintains a "hot spots" list of locations where flooding has repeatedly occurred and/or flooding risk is higher, which is updated periodically. This is used in our emergency operations during storm events. HH&G is working with our O&M group to refine vegetation maintenance practices, based on recent hydraulic model calibrations to high flow events (e.g., leveed reach of San Tomas Aquino Creek).
5	S5.4: Implement projects and plans to increase the flexibility and resilience of flood protection operations and assets.	5.4.2 Develop planning and design procedures that incorporate climate change solutions for climate related flood impacts.	New		1. Codify guidance on how to incorporate climate-related flooding (fluvial and tidal) into project planning and design.	Valley Water is considering two primary aspects for flooding and climate change: increased intensity flows and sea level rise. For SLR, capital flood protection projects (2006 and after) with tidal reaches accommodate a measure of sea level rise, typically up to about 2 to 2.6 ft for a 100 year flow event with coinciding 10 year coastal flood event. This includes the Shoreline Project and other assets near the Bay including the Silicon Valley Advanced Water Purification Center's expansion. For increased intensity flows Valley Water is investigating options to increase resilience and flexibility, including options such as building wider levee foundations (in levee reaches) or footings (for floodwall reaches).
	S5.4: Implement projects and plans to increase the flexibility and resilience of flood protection operations and assets.	5.4.3 Develop asset management plans for flood protection assets that incorporate climate change solutions and promote adaptation, resilience, and flexibility.	Expand	Asset Management	1. Add section to asset management plans that discusses climate change.	FY22 - 0 asset management plans incorporate climate change. FY23 - 1 asset management plans will include climate change - Stevens Creek FY24 - 1-2 asset management plans will include climate change (District Wide Watershed Asset Management Plan and potentially one more creek) FY25 forward - New asset management plans in FY25 and after will incorporate climate change solutions to improve the reliability of aging water supply infrastructure, and to promote adaptation, resilience, and flexibility in flood protection assets.

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5	S5.4: Implement projects and plans to increase the flexibility and resilience of flood protection operations and assets.	5.4.8 Collaborate with local municipalities to incentivize green storm water infrastructure with benefits for flood attenuation.	New	Stormwater Resource Plans	1. Check in with cities through Land use-water meetings. 2. Encourage cities to carry out green stormwater infrastructure (GSI) including in disadvantaged communities. 3. Plan in conjunction with FloodMAR.	1. Water Supply Planning and Watershed Stewardship and Planning units met with 11 cities to discuss coordination of land use-water resources topics. Several cities interested in regular meetings to continue collaboration. 2. Environmental Planning Unit coordinated with regional partners to evaluate mechanisms to promote and facilitate development of GSI "regional projects." 3. FloodMAR study with UC Water received and under review.
5	S5.5: Expand the use of flood forecasting and modeling tools in the planning and design of agency projects to maximize protection from flood risks.	4.6.3 Improve hydrologic forecasting to better adapt to changing hydrology and extremes.	New	H&H, Flood forecasting. Safe Clean Water F7	Reach a total of 35 operational forecast points.	Continued ongoing operations for the current forecast points and updated runoff modeling to improve accuracy. Also included new weather forecasting tools and forecasts.
5	S5.5: Expand the use of flood forecasting and modeling tools in the planning and design of agency projects to maximize protection from flood risks.	5.5.5 Continue coordination with stakeholders to enhance monitoring and/or maintenance programs for Valley Water assets, such as through expanding the use of rain and stream gauges to help identify areas at risk of overtopping or flooding during large storm events.	Expand	H&H	Perform outreach with external stakeholders who have flood knowledge, collaborate with internal stakeholders, upkeep and validate existing information and data.	Used flooding in 2022/2023 to validate and determine areas of existing and new risk. When new risks are identified, to memorialize and record.
5	S5.5: Expand the use of flood forecasting and modeling tools in the planning and design of agency projects to maximize protection from flood risks.	5.5.6 Update and expand the implementation of Flood Risk Reduction Studies, which include hydrology, hydraulics, geotechnical and remapping work of floodplain.	Expand	H&H One Water	1. Hydraulic Modeling Updates: could include incorporating recent survey data into models, calibrating to recent storm high water marks/flooding footprints, creating floodplains for different sized storms to improve our understanding of risk, etc. 2. Hydrology Modeling Updates: could include updating land use to recent or future conditions, performing new studies based on best, recent knowledge for urban hydrology, etc.	Updates include: 1D Steady Hec Ras models created that are based on all-new survey data: North and South Morey Creeks, Lions Creek, and Princeville drain. Progress on 2D Hec Ras modeling of floodplains: - Llagas watershed (Llagas Ck, Madrone Channel, Tennant Creek, West Little Llagas Creek & Bypass, East Little Llagas Creek). Completed - Upper Penitencia Creek Floodplain model- old model is being updated with new survey data & calibrated to 2023 high water marks. - Uvas Creek Floodplain Model- updated with 2020 county lidar and calibrated to 2023 high water marks.

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6	S4.5: Implement source water improvement and water treatment actions.	4.5.4. Design and develop invasive species control strategies for Valley Water's facilities and conveyance structures that are specific to the target organism (e.g. quagga and zebra mussels).	Expand	Valley Water's Dreissenid Mussel Prevention Plan Valley Water's quagga and zebra mussels monitoring program DWR's quagga and zebra mussels monitoring program Santa Clara County Parks and Valley Water Vessel Inspection Program Bay Area Regional Consortium Quagga and Zebra Mussels Coordinated Prevention Plan	1. Look for grant funding opportunity 2. Install signage at Valley Water's reservoir related to "don't move mussel" and "no wet live bait". 3. Expand public education and outreach	1. Conducted quagga zebra mussel monitoring in all Valley Water's reservoirs, BIF, and San Luis Reservoir per mussel prevention plan and no mussel was detected. 2. Completed annual quagga zebra mussel compliance report for CDFW 3. Valley Water and County Parks received 1 M funding from the California Department of Boating and Waterways for mussel prevention program 4. Worked with Santa Clara County Parks and CDFW to develop signage related to "no move mussels" 5. In collaboration with County Parks, conducted public education and outreach (billboards, buss tail, Calero Water and Wags Festival)
6	S6.1: Protect and enhance riverine, coastal, and other watershed ecosystems to improve climate change resilience and wildlife habitat.	5.2.3 Identify and pursue projects that increase the connectivity of coastal habitats and preserve the transition zone between the Bay's shoreline and streams' tidal zones, including wetland restoration and ecotone levees.	Expand	Calabazas/San Tomas Creek-Marsh Connection Project Pond A4 Resilient Habitat Restoration Project	1. Implement projects in CIP 2. Look for grant funding opportunities	1. Pond A4 was added to the Creek-Marsh Connection Project in Aug 2022 and currently conceptual alternatives that potentially connect Calabazas and STA to A8 Ponds, and Sunnyvale East/West Channels to Pond A4, are being explored. 2. The project submitted an application to the EPA SFWQIF Grant in 2022 and was awarded \$3.8M but details of awards are subject to the grant agreement which is yet to be finalized.
6	S6.1: Protect and enhance riverine, coastal, and other watershed ecosystems to improve climate change resilience and wildlife habitat.	6.1.11 Collaborate with land use agencies and municipalities to improve watershed and flood plain management and related goals and activities that increase climate change adaptability.	Expand	Community Projects Review Unit development review Land use-water meetings with cities	1. Check in with cities through Land use-water meetings 2. Encourage cities to include protected areas in their General Plans	New measure to be implemented in FY23/FY24. Held presentation for Santa Clara County Association of Planning Officials and emphasized how they can support water resource protection and stream stewardship in their general plans and policies.
6	S6.1: Protect and enhance riverine, coastal, and other watershed ecosystems to improve climate change resilience and wildlife habitat.	6.1.12 Improve operations to improve water quality for ecosystems, including by collaboration with land use agencies and municipalities.	Expand	Guadalupe Mercury TMDL Program	1. Collaborate with experts on studies to inform management actions to reduce mercury contamination in fish.	1. Collaborative agreement with UC Davis to study greenhouse gas emissions from reservoirs. Work in progress. 2. Collaborative agreement with UC Merced to study sorbents for Hg Control in Reservoirs. Work in progress. 3. Collaborative agreement with UC Santa Cruz to study atmospheric mercury deposition to reservoirs in approval process. 4. Collaborative agreement with UC Davis to study methylmercury production in Guadalupe Reservoir. Contract drafting in process.
6	S6.1: Protect and enhance riverine, coastal, and other watershed ecosystems to improve climate change resilience and wildlife habitat.	6.1.2. Continue to complete Integrated Water Resources Master Plans for each watershed as part of the One Water program.	Expand	One Water Plan	1. Incorporate climate change considerations and resilience via Objective E (climate change) in the One Water watershed plans. 2. Align One Water with CCAP.	1. Finalizing Objective E metrics for One Water and aligning with CCAP flagship metrics where feasible. 2. Draft list of watershed actions for Guadalupe and Upper Pajaro River Watersheds, with consideration of climate resilience.

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6	S6.1: Protect and enhance riverine, coastal, and other watershed ecosystems to improve climate change resilience and wildlife habitat.	6.1.4 Develop asset management plans for ecosystem assets that incorporate climate change solutions such as adaptation, resilience, and flexibility.	Expand	Safe Clean Water Project F8 Sustainable Creek Infrastructure	1. Stevens Creek AMP – in progress 2. District-wide Watershed AMP update 3. Individual creek AMP's to be developed in future for creeks with systemic issues.	1. Stevens Creek AMP is in progress. At a high level, we have incorporated alternative management strategies to address current flood concerns, aging infrastructure, and channel instability. The plan will describe how sea level rise should be incorporated in future planning studies if creek were to be improved. Lastly, will also describe any channel work will be considerate of adequate fish passage/habitat. Therefore, we also incorporated an alternative strategy that considers using the reservoir for flood flow storage to reduce the amount of construction/impacts in the channel. 2. District-wide watershed AMP update to begin in July 2023 (FY24)
6	S6.1: Protect and enhance riverine, coastal, and other watershed ecosystems to improve climate change resilience and wildlife habitat.	6.1.5. Monitor algal blooms in Valley Water's reservoirs and manage effectively using nutrient source reduction and/or in-reservoir treatment.	Expand		MS: Consider development of a Harmful Algal Bloom (HAB) monitoring and response program for reservoirs.	1. Monthly water quality profiles including algal pigments (chlorophyll and phycocyanin) from Almaden, Calero, Guadalupe, and Stevens Creek Reservoirs. 2. Water quality profiles (Temp, pH, Turbidity, Fluorescence, DO, Conductivity) and cyanotoxin (Microcystin, Cylindrospermopsin, Anatoxin-A, Saxitoxin): year-round monthly at Calero and monthly between May and October at San Luis Reservoir.
6	S6.1: Protect and enhance riverine, coastal, and other watershed ecosystems to improve climate change resilience and wildlife habitat.	6.1.6 Implement habitat conservation and restoration activities, informed by climate-smart and climate-resilient best practices, throughout the watersheds Valley Water operates in.	Expand	Valley Habitat Plan Santa Cruz Mountain Stewardship Network Coyote Valley Conservation Master Plan One Water plans SCW Project D4 SCW Project D6 SCW Project D7	Prepare and submit business cases for habitat conservation and restoration activities that are identified in One Water and other relevant plans; add restoration activities to CIP projects; develop contracting pathways for restoration activities	Implemented projects: Hale Creek Pilot Enhancement Project Singleton Road bridge replacement Lower Penitencia creek wetland bench Calera Creek inset floodplains Evelyn and Bolsa fish passage remediation progress
6	S6.1: Protect and enhance riverine, coastal, and other watershed ecosystems to improve climate change resilience and wildlife habitat.	6.1.7 Continue to utilize excavated sediment to create and rehabilitate habitat, including ecotone levees in coastal areas.	Ongoing	Stream Maintenance Program, South Bay Salt Pond Project D3	Determine ways to increase % of sediment reuse, including partnership with SFEI for EPA WQIF grant funds	No reuse for FY22 at A8 Ponds as it didn't meet USFWS QAPP. Staff received Board approval to add Pond A4 Resilient Habitat Restoration Project to use A4 as alternate sediment reuse location. This project will expand sediment reuse opportunities to create more coastal habitats and allow SMP sediment to be used to create habitat in Valley Water's own Pond
6	S6.1: Protect and enhance riverine, coastal, and other watershed ecosystems to improve climate change resilience and wildlife habitat.	6.1.8. Continue to protect the climate resiliency of open spaces with regional partners, such as through collaboration with the Valley Habitat Agency, the Santa Clara County Open Space Authority, and the Mid-Peninsula Regional Open Space District.	Ongoing	Valley Habitat Plan, Santa Cruz Mountain Stewardship Network	Maintain active collaboration, provide technical expertise, and provide funding to support climate adaptation in watershed lands	Board confirmation of Valley Habitat Plan Amendment process and cost allocation to include coverage of the Stream Maintenance Program (improves mitigation effectiveness). Provided funding and technical review for a county-wide fine-scale vegetation map, completed March 2023. As a Steering Committee and founding member of the Santa Clara County Wildlife Corridor Technical Working Group, Valley Water collaborates with public agencies and nonprofit organizations to improve habitat connectivity. Partnering with the Valley Transportation Authority, Caltrans, and the Santa Clara Valley Habitat Agency, Valley Water will soon build a wildlife jump-out along US-101 in Coyote Valley, which will be the first in the Bay Area (estimated to be completed in summer 2023).

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6	S6.2: Develop and expand programs and plans that support more climate-resilient ecosystems.	6.2.1 Establish political and legal mechanisms for mutually beneficial inter-agency programs, plans, and projects that restore regional ecosystems.	Expand	San Francisco Bay Restoration Regulatory Integration Team (BRRIT)	Participate in regional efforts and local partnerships to protect and restore ecosystems	VW staff is engaged with the BRRIT on our Bay projects such as the Calabazas/San Tomas Creek-Marsh Connection Project, as well as staying engaged with the Policy Management Committee on regional regulatory issues. Successful engagement with the RWQCB through our MOU process has continued this year and helped to resolve potential project issues.
6	S6.2: Develop and expand programs and plans that support more climate-resilient ecosystems.	6.2.10. Avoid the spread of invasive species through prevention and removal efforts.	Expand	Valley Water Invasive Plant Management Program (IPMP)	1. IPMP 2. EDRR	A consultant team has been retained to develop the IIPMP (Integrated Invasive Plant Management Program) and EDRR programs. Program development began in FY22/23 with internal stakeholder engagement meetings, gap analysis, and gathering of background and technical information. Next steps include manual outline development and initiation of the CEQA process.
6	S6.2: Develop and expand programs and plans that support more climate-resilient ecosystems.	6.2.13. Update Valley Water's Water Resource Protection Ordinance and Manual	Expand	CPRU	Expanding on work that the ROWUPP Capstone started by updating the WRPM protections for all Valley Water facilities.	FY23--CPRU has compiled a list of current relevant criteria for uses of Valley Water right of way for each facility type. Preparing to send to SMEs for confirmation or update of existing criteria to be used.
6	S6.2: Develop and expand programs and plans that support more climate-resilient ecosystems.	6.2.2. Continue to support and expand funding partnerships with regional land conservation and management agencies to promote landscape-scale habitat linkages and preserve conservation values.	Ongoing	SCW Project D7	1. Engage with conservation partners to discuss conservation planning opportunities on a regular basis	Staff regularly met with conservation partners to identify opportunities to support acquisition of habitat lands and provide meaningful mitigation for project impacts, and initiated development of a MOU to disperse funds through Safe Clean Water Project D7.
6	S6.2: Develop and expand programs and plans that support more climate-resilient ecosystems.	6.2.4 Implement actions related to ecosystem connectivity and resilience that are included in existing plans and programs	Expand	Valley Habitat Plan Regional Conservation Investment Strategy One Water Safe Clean Water Priority D FAHCE SGMA Groundwater dependent ecosystem (GDE) monitoring Stewardship and mitigation site monitoring	1. Track actions from plans and programs and propose for CIP, small capital projects, mitigation, and/or partner project as appropriate. 2. Continue to develop and/or update plans and programs to identify priorities for actions that can contribute to ecosystem connectivity and resilience.	Tracking connectivity through One Water - Coyote Creek Watershed Plan. Collecting data on habitat connectivity for Guadalupe and Upper Pajaro River Watershed Plans.
6	S6.2: Develop and expand programs and plans that support more climate-resilient ecosystems.	6.2.6. Improve aquatic habitat connectivity through the Fisheries and Aquatic Habitat Collaborative Effort (FAHCE) and other programs and projects.	Expand	Water rights	FAHCE Planning/Permitting FAHCE flow and nonflow measures implementation FAHCE adaptive management program (including monitoring program)	Regular updates provided through Stewardship Planning and Operations Committee

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Goal	Strategy	Action	Status	Program/Plan/Project Linkage	Implementation Actions	FY2022/FY2023 Progress
6	S6.2: Develop and expand programs and plans that support more climate-resilient ecosystems.	6.2.7 Continue to move towards a geomorphic watershed approach when designing streams.	Expand	H&H Watershed Stewardship and Planning	1. Conduct studies to consider priority locations for gravel augmentation and large woody debris. 2. Conduct studies to consider priority locations for fish migration improvements.	Geomorphologic principles are being applied to many Valley Water projects. By considering these principles during the design phase, the hope is to build projects that are more resilient into the future. There are two county-wide studies underway to address the larger picture: 1.Phase 1 and Phase 2 (Phase 2 is being finalized) Countywide Studies of Major Streams to Identify Priority Locations for Gravel Augmentation and Large Woody Debris Placement. 2.Countywide Studies of Major Streams to Identify priority locations for fish migration impediments removal and installation of large woody debris and gravel as appropriate (study of Alamitos, Guadalupe and Arroyo Calero to be completed by FY26, Stevens Creek done in March of 2022) In addition, there are a number of projects in progress which incorporate geomorphic principles. For example: Upper Penitencia Creek Study Stevens Creek Asset Management Plan Lower Llagas Flood Capacity Restoration Evelyn Fish Passage Project
6	S6.2: Develop and expand programs and plans that support more climate-resilient ecosystems.	6.2.8 Participate in statewide coordination on managing functional environmental flows in a climate-responsive manner.	Ongoing	Steelhead Regional Temperature Study	1. Implement Regional Temperature Study Work Plan	Valley Water, in collaboration with the San Francisco Bay Regional Water Quality Control Board, is conducting a Regional Temperature Study to analyze available data, identify data gaps, and develop scientific studies that can be used to refine protective temperature evaluation guidelines to support cold freshwater, migration, fish spawning, and related beneficial uses of Central California Coast (CCC) steelhead. Phase 1 of study is underway, with Phase 2 to follow.
6	S6.2: Develop and expand programs and plans that support more climate-resilient ecosystems.	6.2.9. Promote climate-smart planting, such as by coordinating with the Valley Habitat Agency to include climate-smart planting palettes in the Valley Habitat Plan.	Expand	Plant palettes developed for Safe Clean Water program Valley Habitat Plan	1. develop one palette for residential and/or commercial use 2. develop one palette for natural landscape use (e.g. restoration projects) 3. Coordinate with VHA	Point Blue Conservation Science has developed a climate smart restoration tool that provides site-specific restoration plant palettes. VHA has used this in one implemented project (Pajaro River Agriculture Preserve, in cooperation with OSA) and two projects in planning stages (Pacheco, Davidson Property). VHA will not be including explicit specific palettes in the VHP but will continue to utilize climate smart palettes in planting projects.
6	S6.3: Expand the availability of data in regional ecosystems in order to avoid detrimental climate change-related ecosystem impacts.	6.3.1 Continue and improve monitoring and land management activities to ensure preservation of conservation values throughout the county.	Expand	SCW D5 monitoring SCW D2 (future - early detection rapid response for invasives) Stewardship and mitigation site monitoring FAHCE aquatic habitat and temperature monitoring Partner organization monitoring and management programs	1. Continue and expand sharing of data that is required as part of permitting or Safe Clean Water KPIs, or already provided to the public (such as flow data) 2. Continue and expand monitoring of stream temperature 3. Periodically analyze and report on compilation of monitoring data to present and understand trends and relationships to climate change	Project D5 reference vegetation study database available to public Project D5 watershed assessment reports available to the public Flow data compiled and provided online Water temperature and other biological monitoring data on EM-IMS
6	S6.3: Expand the availability of data in regional ecosystems in order to avoid detrimental climate change-related ecosystem impacts.	6.3.6 Add depressional wetlands (ponds), lacustrine wetlands (vegetated margins of lakes and reservoirs), and tidal Baylands to ambient condition surveys conducted for the Safe, Clean Water Program's Project D5 (Ecological Data Collection and Analysis).	New	One Water D5 SGMA groundwater dependent ecosystem (GDE) monitoring	Assess ecological conditions and consider new assessments for depressional and estuarine habitats (including impacts from climate change)	No progress at this time. These assessments still need to be built into the long-term budget forecast for Project D5 if determined necessary.

CCAP High Priority Adaptation Actions: FY2022/FY2023 Update

Goal	Strategy	Action	Status	Program/Plan/Project Linkage	Implementation Actions	FY2022/FY2023 Progress
7	S7.1: Maximize Valley Water's emergency preparedness for climate related impacts (e.g.: from flooding, extreme heat events, fire, severe storms).	5.3.1 Use flood forecasts to collaborate on flood protection efforts such as watershed level Emergency Action Plans and flood warning systems, for vulnerable areas and populations (e.g.: homeless persons and disadvantaged communities).	Ongoing	Emergency Response Upgrades (SCW F7)	Convey forecasting info to emergency response teams for EAPs/external coordination	Continued to improve on forecasting capabilities.
7	S7.1: Maximize Valley Water's emergency preparedness for climate related impacts (e.g.: from flooding, extreme heat events, fire, severe storms).	7.1.2 Create, maintain and update Emergency Action Plans (EAPs) that include vulnerable areas and populations and anticipates higher severity and frequency of climate change impacts.	Expand	Emergency Action Plans Safe Clean Water Program	Complete flood management plans/procedures (e.g. EAPs and annexes) based on risk priorities.	2 EAPs complete: Added Upper Penitencia Creek (July 2022) to the Joint Emergency Action Plan. Completed the Lower Peninsula Watershed Emergency Action Plan (LPEAP) and added Palo Alto Flood Basin (July 2022).
7	S7.1: Maximize Valley Water's emergency preparedness for climate related impacts (e.g.: from flooding, extreme heat events, fire, severe storms).	6.2.11. Coordinate with cities and the County of Santa Clara in development of a multi-jurisdiction hazard mitigation plan that addresses wildfire risk and other climate related impacts.	New	Local Hazard Mitigation Plan	Risk assessment accomplished for the 2017 Valley Water LHMP.	In 2023, Valley Water is now partnering with the County of Santa Clara to determine what the county's jurisdiction methodology is in order to assist with risk assessing and overall management of hazard impacts on operations.
7	S7.1: Maximize Valley Water's emergency preparedness for climate related impacts (e.g.: from flooding, extreme heat events, fire, severe storms).	7.1.1 Develop a centralized approach for data and projections (e.g., preferred general circulation models (GCMs), representative concentration pathways (RCPs), downscaling methods, etc.) for use throughout Valley Water to assess, predict, and respond to climate change impacts.	Expand	CCAP	Review climate data and modeling methods incorporated into CCAP Vulnerability Analysis. Determine necessary updates and create a centralized source for relevant information.	Data review to occur in FY24
7	S7.1: Maximize Valley Water's emergency preparedness for climate related impacts (e.g.: from flooding, extreme heat events, fire, severe storms).	7.1.3 Improve staff training about responding to and addressing climate-related disasters.	Expand	Office of Emergency Services	Within the Office of Emergency Services, formal classes for cross functional teams, that support the EOC, are held periodically. In addition, training exercises are also periodically held which include local jurisdictions (e.g. City of San Jose, City of Palo Alto, Morgan Hill, Gilroy).	In FY23 OES hosted 3 training courses offered by the California Specialized Training Institute (CSTI). •(G-775) EOC Mgmt. & Operations •(G-626E) Essentials in Action Planning •(G-191) ICS/EOC Interface These courses were offered March 13-17, 2023. Training exercises include Anderson Dam DENS drill/Action Plans for all reservoirs; Anderson Dam table top and full exercise (FERC). Lastly, a training workshop for the Guadalupe Flood Barrier was held with the City of San Jose and its multiple departments.
7	S7.1: Maximize Valley Water's emergency preparedness for climate related impacts (e.g.: from flooding, extreme heat events, fire, severe storms).	7.1.4 Improve communication to the public about climate-related disasters.	Expand	Office of Communications	1. Develop messaging to public focused on climate change impacts. 2. Develop messaging specific to DAC/underserved areas focused on climate change.	Valley Water's annual flood awareness campaign includes messaging on climate change impacts. Additionally, having endured consecutive years of being in a drought, Valley Water's annual water conservation campaign was expanded to further emphasize drier conditions and extreme weather related to climate change.

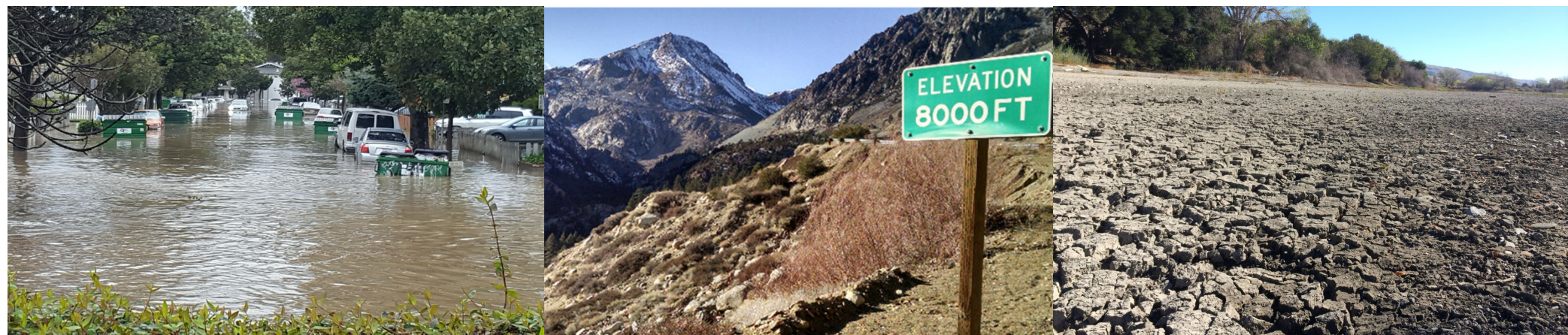
CCAP High Priority Adaptation Actions: FY2022/FY2023 Update

7	S7.1: Maximize Valley Water's emergency preparedness for climate related impacts (e.g.: from flooding, extreme heat events, fire, severe storms).	7.1.6 Ensure assets are equipped to handle climate-related emergencies such as increased heat.	Expand	Asset Management Program	1. Add section to asset management plans that discusses climate change.	FY22 - 0 asset management plans incorporate climate change. FY23 - 1 asset management plans will include climate change - Stevens Creek FY24 - 1-2 asset management plans will include climate change (District Wide Watershed Asset Management Plan and potentially one more creek) FY25 forward - New asset management plans in FY25 and after will incorporate climate change solutions to improve the reliability of aging water supply infrastructure, and to promote adaptation, resilience, and flexibility in flood protection assets.
7	S7.1: Maximize Valley Water's emergency preparedness for climate related impacts (e.g.: from flooding, extreme heat events, fire, severe storms).	7.1.7 Continue engagement with the Santa Clara County Emergency Managers Association (SCCEMA).	Ongoing	Office of Emergency Services	1. Participate in meetings with SCCEMA.	Valley Water OES staff continues to participate in the monthly EMA meetings where inclement weather storms are discussed during season and information is shared from Valley Water's Hydrology Team as well as information on reservoir capacity status from Water Supply operations. In addition, the information sharing from the many other jurisdictions assists with planning and preparation and recovery as needed.

Goal	Strategy	Flagship Metric	Target	FY2022/FY2023 Progress
4	S4.1: Diversify local water supplies and expand drought-resistant water supply.	Percent of local supply in overall portfolio	10% of supplies from recycled water by 2030. At least 1000 AF of stormwater by 2040.	Supply of recycled water is tracking at 6% compared to a target of 10% of total supplies. Stormwater as a type of supply is tracking at 0 acre feet compared to a target of 1000 acre feet by 2040. This is a new measure and staff are investigating optimal ways to capture stormwater at this stage.
4	S4.2: Improve demand management and increase water conservation efforts.	Average annual water conservation savings	Conserve 109,000 AF conserved annually by 2040 (compared to 1992 baseline)	Final FY22 update: 80,078 AF conserved annually compared to a target of 109,000 AF by 2040. This is an increase over past years. Additional conservation updates include: - Increased lawn conversation rebate for low income households and veterans - Launch of the water conservation online shopping cart program - Fixture replacement program - Cost sharing program for advanced metering infrastructure (AMI) with water retailers
4	S4.6: Increase flexibility and resilience of water utility operations and assets.	Optimize water supply system to maximize Valley Water's ability to store and retrieve dry year supplies during an extended drought.	1. Complete Anderson Reservoir by FY2032. 2. Complete other seismically restricted reservoirs by 2035.	Anderson Dam Seismic Retrofit - Anderson Dam Tunnel Project to be completed by 2024 - Anderson Reservoir will be refilling by 2031 and ADSRP construction completed by 2032. Complete Guadalupe Dam Seismic Retro fit Project by 2031 Complete Calero Dam Seismic Retrofit Project by 2035 Complete Almaden Dam Improvement Project 2035
4&5	S5.4: Implement projects and plans to increase the flexibility and resilience of flood protection operations and assets.	All future asset management plans incorporate climate change impact assessment	100% target starting FY23.	FY22 - 0 asset management plans incorporate climate change. FY23 - 2 asset management plans will include climate change (Stevens Creek and District-wide asset mgmt. plan) FY24 forward - New asset management plans in FY24 and after will incorporate climate change solutions to improve the reliability of aging water supply infrastructure, and to promote adaptation, resilience, and flexibility in flood protection assets.

5	S5.5: Expand the use of flood forecasting and modeling tools in the planning and design of agency projects to maximize protection from flood risks.	All flood protection projects are planned and designed with flexibility and according to updated procedures that incorporate future climate change scenarios in flood risk modeling.	100% target	<p>Valley Water is addressing climate related flood impacts for tidal and fluvial/stream projects.</p> <p>Tidal: Most flood protection capital projects with tidal reaches from 2006 and after accommodate a measure of sea level rise, typically up to about 2 to 2.6 ft for a 100 year flow event with coincident 10 year coastal flood event.</p> <p>Fluvial: Valley Water is still in the process of determining how to address climate risk for flooding on streams. Some possible approaches include adaptive projects, such as building wider levee foundations (in levee reaches) or footings (for floodwall reaches), or buying out of land/properties near existing detention ponds so that levees/floodwalls/detention ponds could be expanded more readily to accommodate increased risks.</p>
5&6	S5.3: Improve flood preparedness of people, property, and habitat.	Review of all development projects includes analysis for floodplain preservation/restoration	100% target	Community Projects Review Unit is informing external developers of the Guidelines and Standards for Land Use Near Streams with each review it carries out.
6	S6.1: Protect and enhance riverine, coastal, and other watershed ecosystems to improve climate change resilience and wildlife habitat.	Channel length with connected riverine aquatic and riparian habitat	Increase channel length with a riparian width of >10 m for the mainstem and tributaries.	Tracking data per watershed for channel length with connected riverine aquatic and riparian habitat. Data now collected for Coyote, Guadalupe and Upper Pajaro Watersheds.
6	S6.1: Protect and enhance riverine, coastal, and other watershed ecosystems to improve climate change resilience and wildlife habitat.	Total acreage of restored tidal marsh in Santa Clara County	5,355 acres planned for restoration to tidal marsh	<p>490 acres of tidal marsh restoration complete (Ponds A6 and A17)</p> <p>South San Francisco Bay Shoreline Project Phase 1 has broken ground and will continue through FY28. Project will restore 2,895 acres of tidal marsh when complete (Ponds A9 -A15, A18).</p> <p>Calabazas San Tomas Aquino Creeks-Marsh Connection Project began planning and pre-project monitoring phase. Project will support eventual restoration of A8 complex and A4.</p> <p>Valley Water exploring partnership opportunities with VTA to include Pond A4 in beneficial reuse of material excavated for downtown San Jose BART extension.</p>

6	S6.2: Develop and expand programs and plans that support more climate-resilient ecosystems.	Climate resistant plant palettes are developed in coordination with Valley Habitat Agency.	# projects utilizing climate smart palettes in planning or implementation phase	Three projects utilizing climate smart palettes as of FY23. Point Blue Conservation Science has developed a climate smart restoration tool that provides site-specific restoration plant palettes. VHA has used this in one implemented project (Pajaro River Agriculture Preserve, in cooperation with OSA) and two projects in planning stages (Pacheco, Davidson Property). VHA will not be including explicit specific palettes in the VHP but will continue to utilize climate smart palettes in planting projects.
6	S6.2: Develop and expand programs and plans that support more climate-resilient ecosystems.	Implement programs to monitor and address aquatic invasive species and harmful algal blooms	No detections of invasive mussel species in Valley Water reservoirs, and no detections of cyanotoxins in surface waters	FY22: No detections of invasive mussel species in Valley Water reservoirs, and no detections of cyanotoxins in surface water.
7	S7.1: Maximize Valley Water's emergency preparedness for climate related impacts (e.g.: from flooding, extreme heat events, fire, severe storms).	Complete flood management plans/procedures (e.g. EAPs and annexes) based on risk priorities.	SCWF2 KPI: Complete 2 flood management plans/procedures per year, selected by risk priority, for the next 15 years.	For FY22 staff is tracking existing flood management plans and procedures (e.g. emergency action plans) plus newly created plans and procedures tracked by the Safe Clean Water Program. Results are as follows: Pre-FY22 (19 EAPs (creeks and reservoirs) complete) + FY22 (2 EAPs complete) = 21 total EAPs to date. This 21 complete is 43% of the target of 49 total when you consider Valley Waters commitment to develop 2 flood management plans/procedures (e.g. EAPs) per year for the first 15 years of the SCW Program.
7	S7.1: Maximize Valley Water's emergency preparedness for climate related impacts (e.g.: from flooding, extreme heat events, fire, severe storms).	31 forecast points (22 stream + 9 reservoir) SCWF7 (KPI#2): Improve flood forecast accuracy and emergency response time working with the National Weather Service and through research and development.	35 forecast points	Continued ongoing operations for the current 31 forecast points and updated runoff modeling to improve accuracy. Considering an additional 4 forecast points for a total of 35 forecast points. Also included new weather forecasting tools and forecasts: In FY22, Valley Water completed migrating the old ALERT1 webpage to a cloud-hosting service, which should improve performance and reliability. The new surface water monitoring website will replace the old ALERT webpage and consolidate the flood warning and flood watch pages. During the year, Valley Water also began initial work on incorporating forecast data from UC San Diego Scripps Institute – Center for Western Weather and Water Extremes (C3WE). C3WE has become a research leader in atmospheric rivers, the primary rain generator in the western United States, improving on current forecasts from NWS.



CCAP Annual Implementation Update

Board Policy and Planning Committee
September 7, 2023



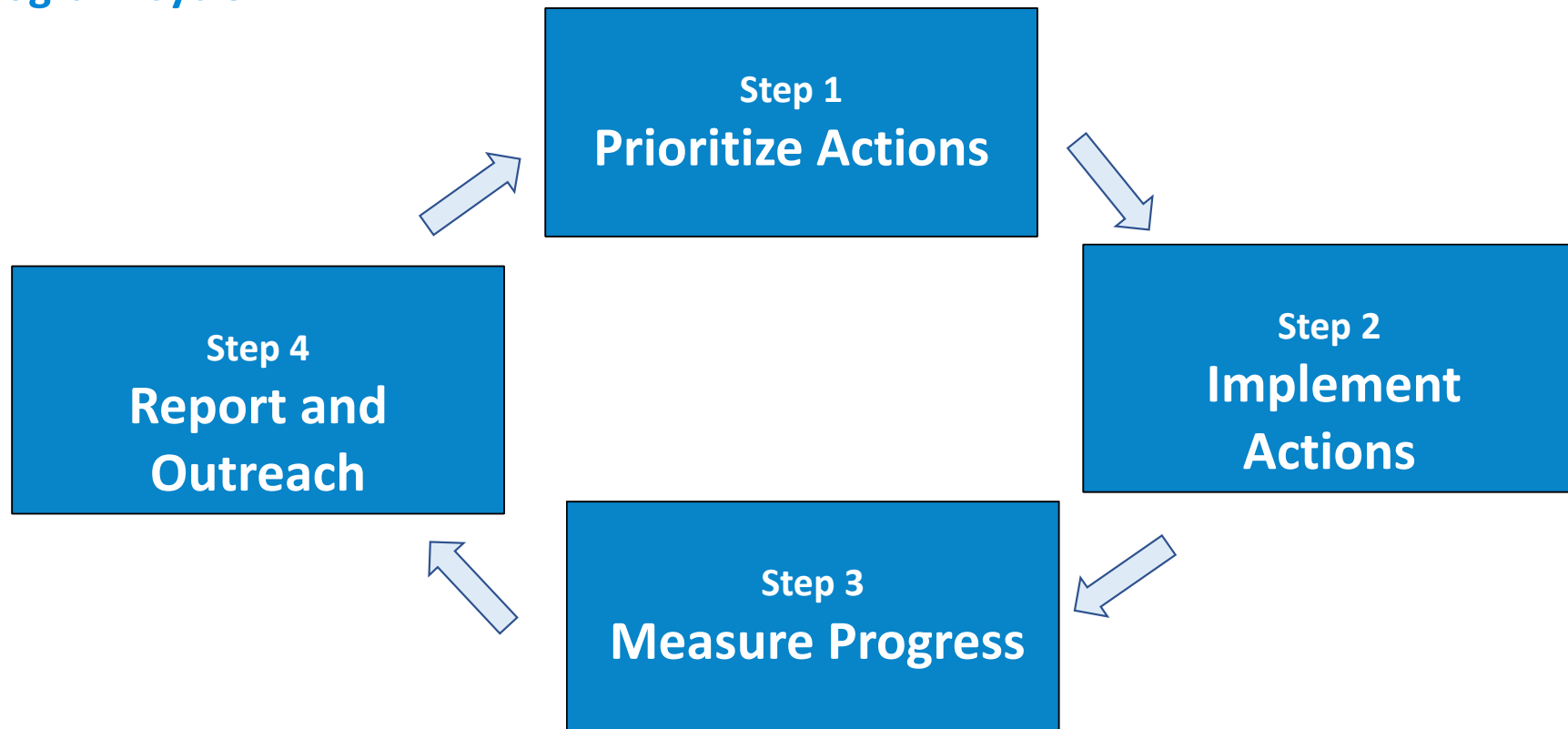
Climate Change Action Plan

Valley Water's framework for climate change response

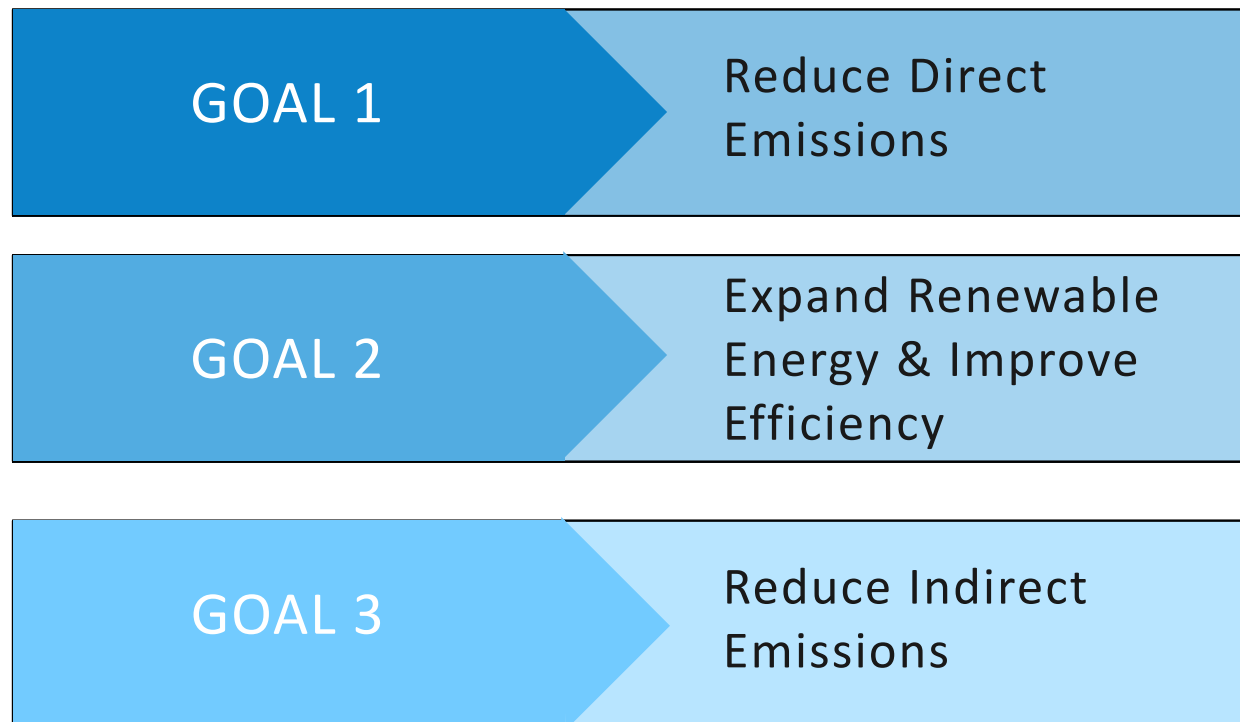
- Identify **vulnerabilities** and assess **risk** to water supply, flood protection, and stewardship objectives
- Present climate change mitigation and adaptation **strategies and actions** to address risks
- **Report progress** and **gather feedback**

CCAP Implementation Program

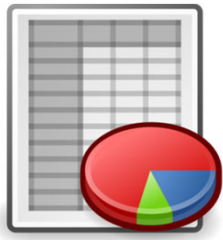
Program Cycle



CCAP Mitigation Goals



Climate Mitigation Priorities

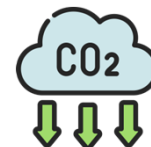


Action 1.6.2: Include additional GHG sources in inventory



Action 1.6.4: Evaluate preparation of Qualified GHG Reduction Plan

Purpose of CEQA-Qualified GHG Reduction Plan



Quantify baseline and projected GHG emissions



Establish reduction targets



Identify feasible GHG reduction measures (including performance standards)

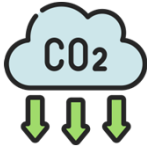


Develop implementation steps (and financing mechanisms)



Adopt document in a public process following environmental review

Benefits of CEQA-Qualified Climate Action Plan



Addressing GHG emissions through adopted plan

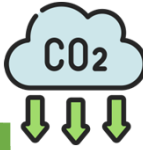


CEQA tiering/streamlining (legally defensible project-level analysis approach)



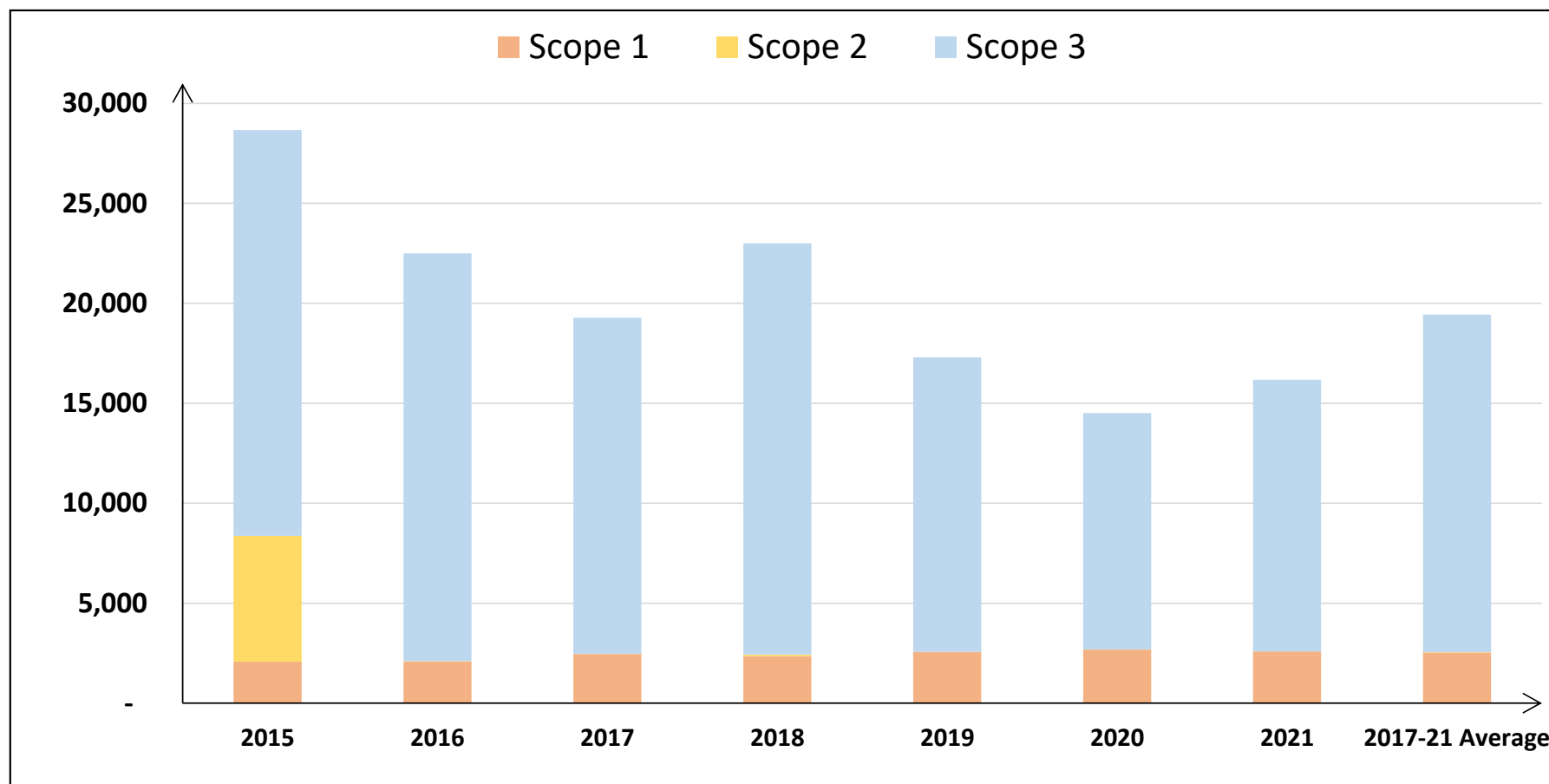
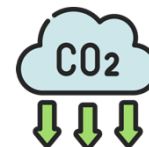
Compliance with CARB, OPR, and BAAQMD guidelines

Updated Emission Accounting Methodology

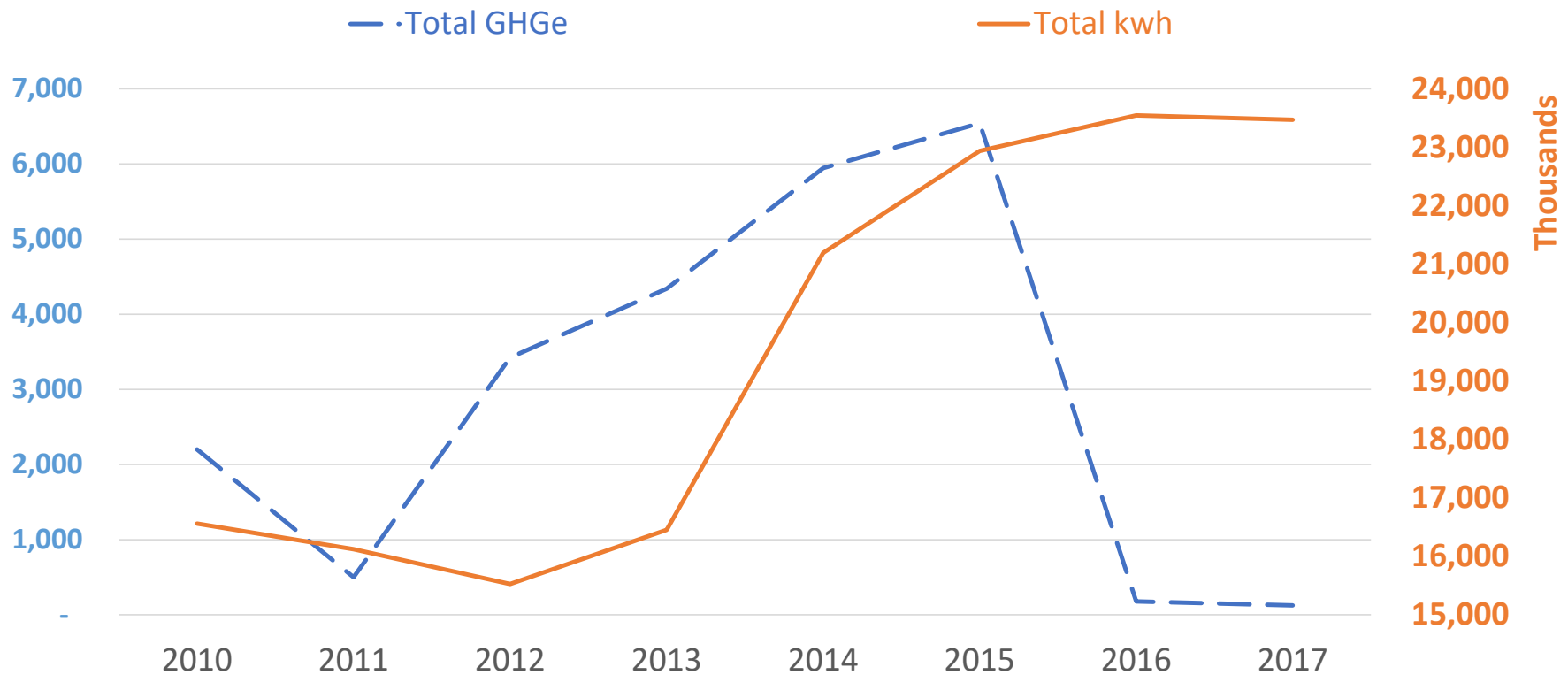
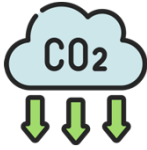


Emission Scope	Emission Sources Accounted For As of June 2020	2023 Update Being Considered
Scope 1	Gasoline/Diesel/Natural Gas/Refrigerant uses from Valley Water Fleet and Operations	No Change in Emission Sources Emission Factors from CARB's EMFAC Model Rather Than the Climate Registry
Scope 2	Purchased Electricity from <ul style="list-style-type: none"> Power and Water Resources Pooling Authority (PWRPA), PG&E and Various Community Choice Aggregations (CCA) 	Added Transmission/Distribution Loss
Scope 3	Imported Water Employee Commute Business Commute	Added: Construction Solid/Wastewater Related Waste Hauling from Maintenance Sites

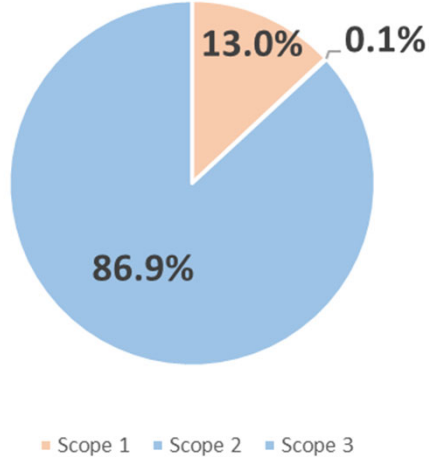
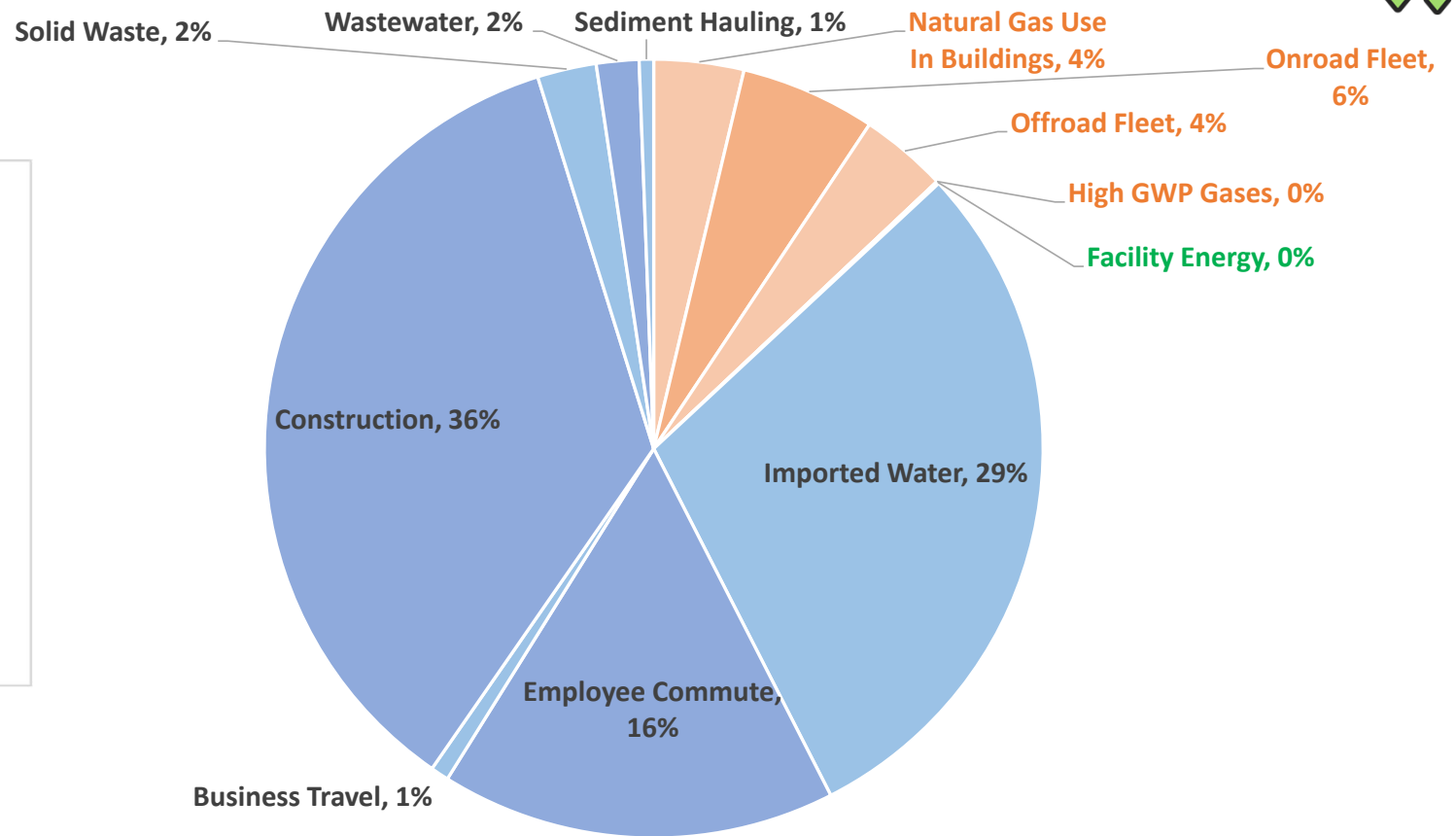
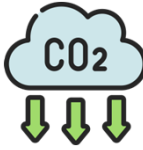
Updated Emission by Scope (MT CO₂e)



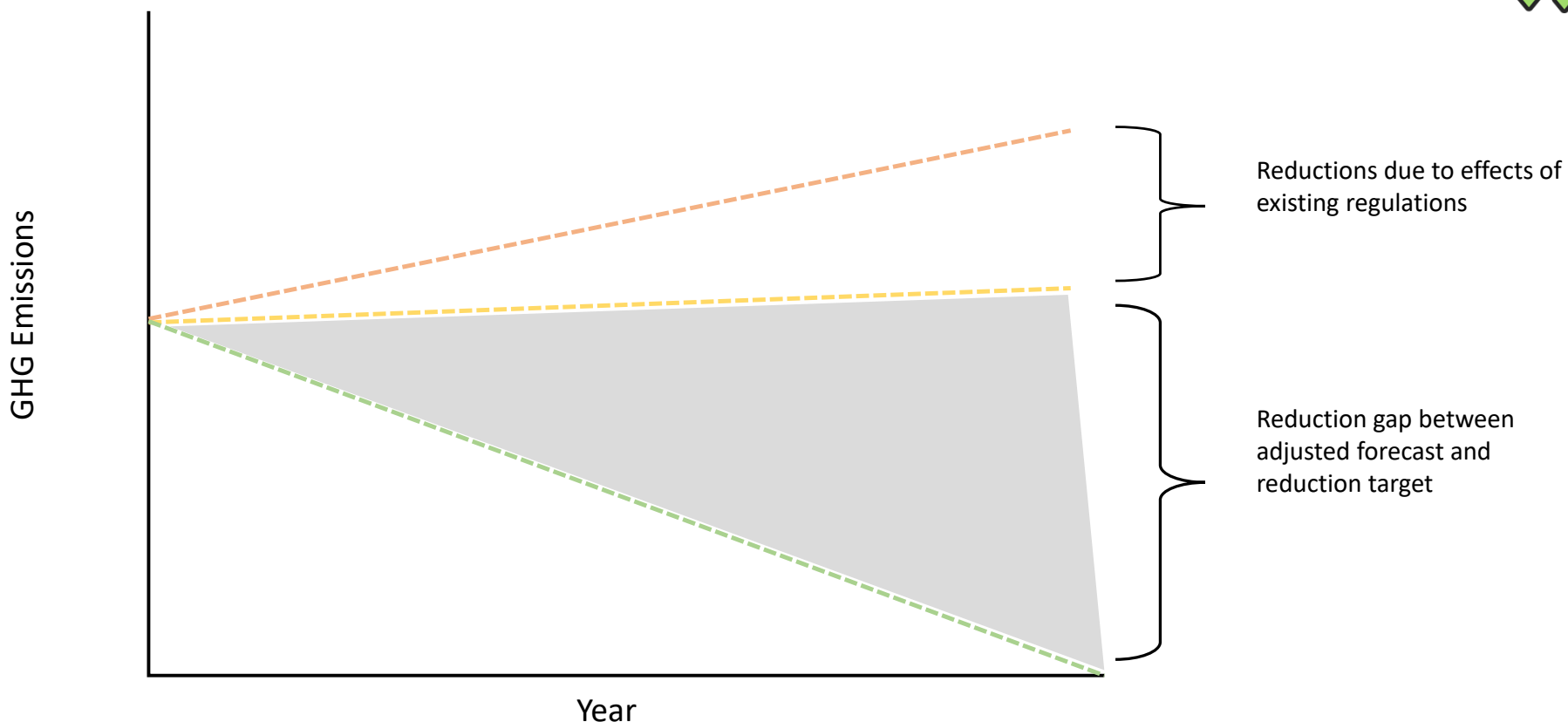
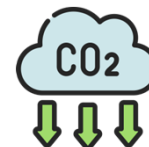
Emission Reduction Through Greener Energy



Baseline (2017-2021: GHG Emissions by Sector (MT CO2e)

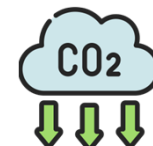


GHG Forecast and Targets



*For illustrative purposes only

Considerations for Forecast and Targets



State Policy and Trends

- AB 1279
- Advanced Clean Fleet requirements
- State Water Project emissions
- Availability of carbon-free power from PWRPA

Valley Water Policy and Actions

- Ends Policy E-5
- Recycled water expansion
- Larger capital projects
- Scale of reduction measures

Carbon Offsets

- Offset availability
- CEQA defensibility
- Cost

GHG Reduction Targets

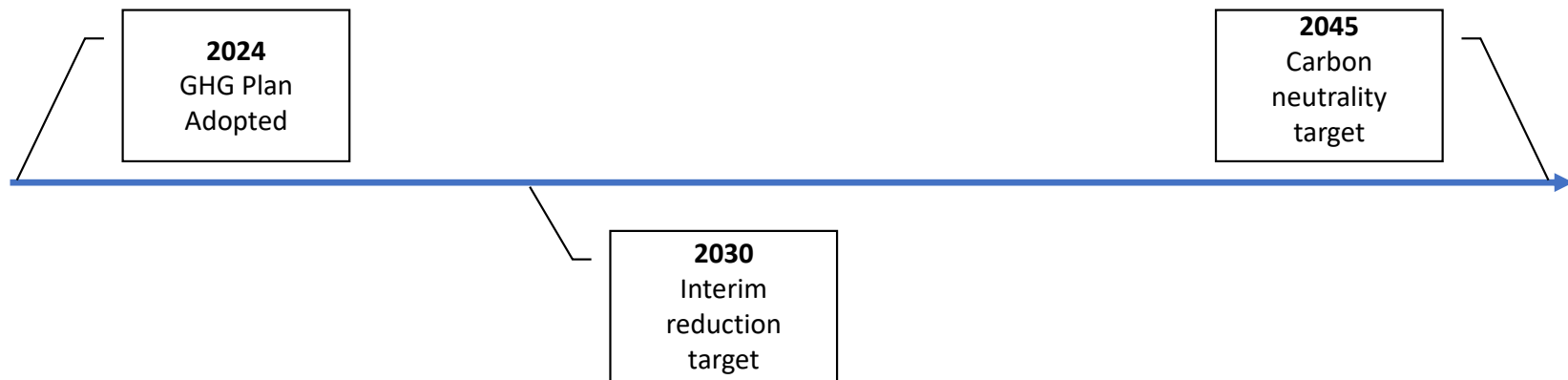


Proposed Carbon Neutrality Target Year

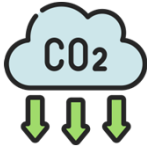
- 2045: Consistent with AB 1279

Proposed Interim Target Year

- 2030: Linear reduction between baseline emissions and 2045 carbon neutrality target
- Provides checkpoint between plan adoption and carbon neutrality target



Developing/Tracking GHG Reduction Measures



Step 1: Quantify current emissions.

Step 2: Forecast future emissions, accounting for business needs increases and legislative reductions

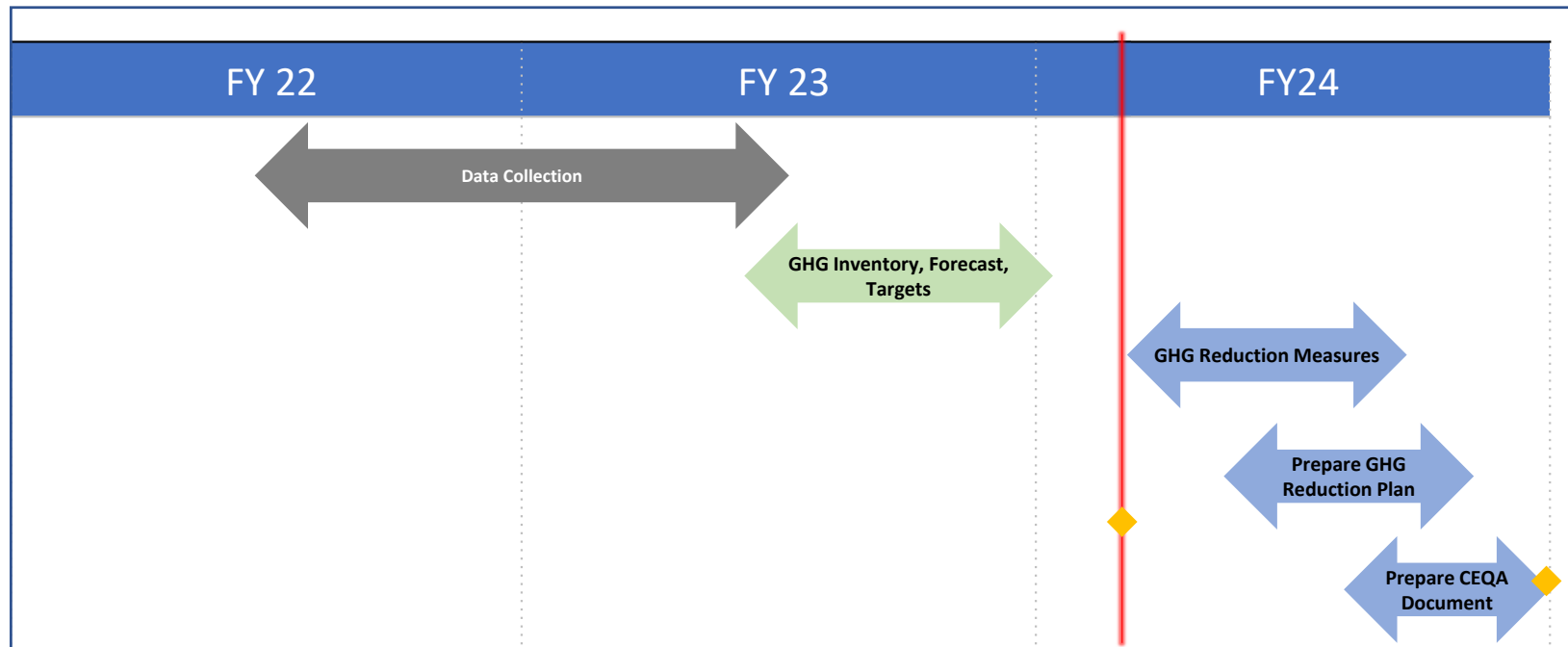
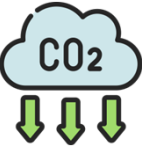
Step 3: Determine specific measures needed and resources and timeline for implementation

Step 4: Continue to track emissions inventory and evaluate effectiveness of the reduction measures implemented.



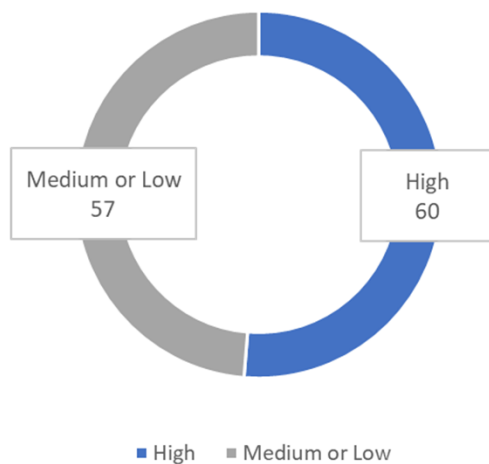
GHG Reduction Plan

Next Steps and Schedule



CCAP Adaptation Goals

High Priority Actions (Goals 4 - 7)

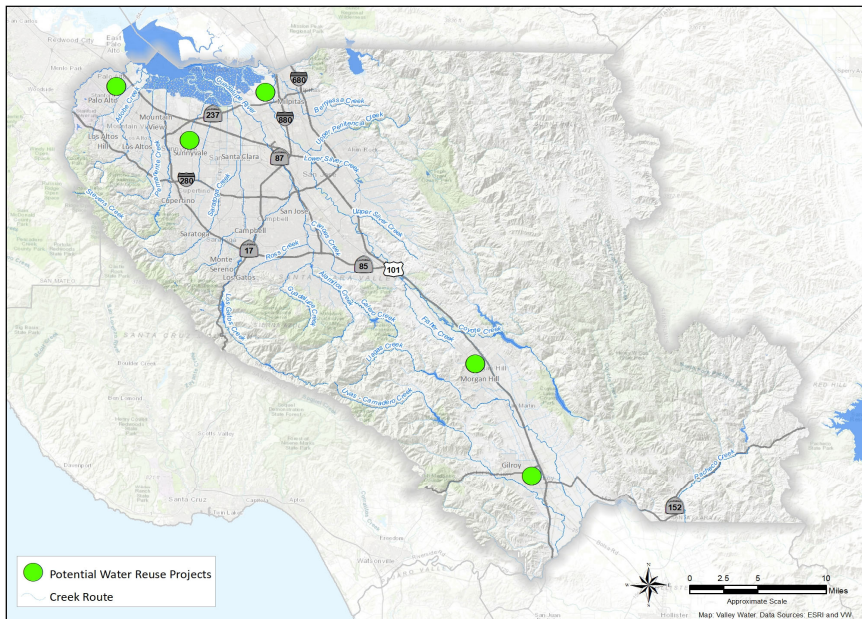


GOAL 4	Water Supply Adaptation
GOAL 5	Flood Protection Adaptation
GOAL 6	Ecosystem Adaptation
GOAL 7	Emergency Preparedness

Flagship Metrics: Water Supply Adaptation

**Average annual water conservation savings,
targeting 109,000 AF annually by 2040.**

Progress Update: 80,070 AF conserved in FY2022



Percent of local supply in overall portfolio.

Progress Update: 6% actual vs 10% target by 2030.

Flagship Metrics: Stewardship Adaptation

All flood protection projects are planned and designed with **flexibility** and according to updated procedures that **incorporate future climate change scenarios** in flood risk modeling.

Progress Update:

1. All projects with tidal influence planned for sea level rise up to 2.6 feet.
 - Shoreline Phase 1
 - Sunnyvale West Channel
2. Fluvial project adaptation under development



Flagship Metrics: Ecosystem Stewardship

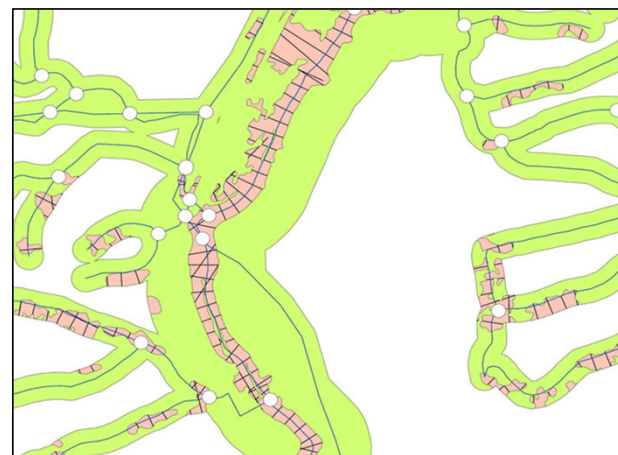
Channel length with contiguous riparian habitat per watershed

Progress Update:

Guadalupe: 35% of channel

Total acreage of restored tidal marsh in Santa Clara County

Progress Update: 490 acres of tidal marsh restoration complete (Ponds A6 and A17)

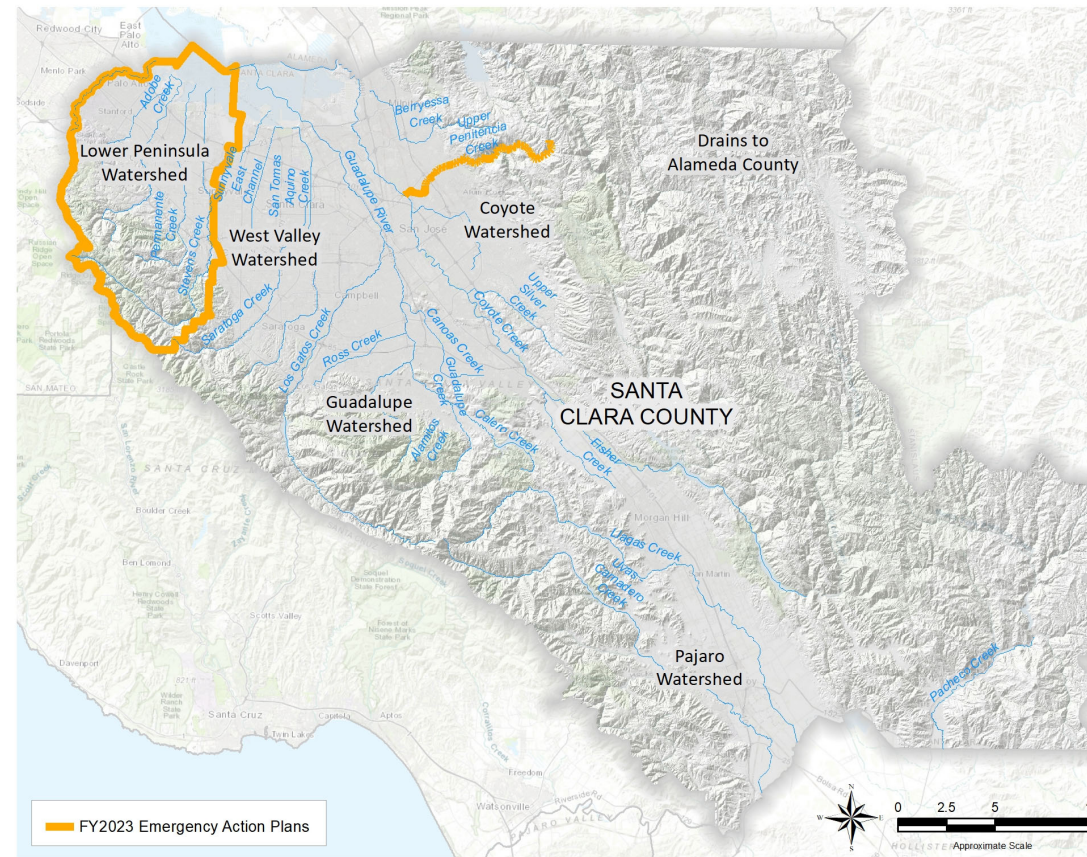


Flagship Metrics: Emergency Preparedness

Complete flood management plans/procedures (e.g., EAPs and annexes) based on risk priorities.

Progress Update:

Added Upper Penitencia Creek to the Joint Emergency Action Plan
Completed the Lower Peninsula Watershed Emergency Action Plan



CCAP Implementation Program Outreach

Staff engaged in numerous working groups and forums to collaborate with other public agencies

- Santa Clara County Climate Collaborative
- Bay Adapt
- SF Bay Regional Coast Hazards Adaptation Resiliency Group (CHARG)
- US Water Alliance GHG Reduction Cohort



QUESTIONS





Santa Clara Valley Water District

File No.: 23-0908

Agenda Date: 9/7/2023

Item No.: 4.2.

COMMITTEE AGENDA MEMORANDUM Board Policy and Planning Committee

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

SUBJECT:

Board Governance Encampments of Unsheltered People Ends Policy E-6.

RECOMMENDATION:

- A. Review and provide input on the draft Encampments of Unsheltered People Ends Policy E-6;
and
- B. Recommend that staff present the Encampments of Unsheltered People Ends Policy E-6 to
the full Board for consideration.

SUMMARY:

At its June 5, 2023, meeting, Santa Clara Valley Water District (Valley Water) Board Policy and Planning Committee considered staff's recommendation to create a new Board Governance Policy that provides a vision and framework for addressing the broad impact of unsheltered people living in encampments on Valley Water land. The Committee directed staff to revise the draft Encampments of Unsheltered People Ends Policy E-6 based on Committee input and bring the item back to the Committee for additional review.

Staff asks that the Committee review the draft Encampments of Unsheltered People Ends Policy E-6 (Attachment 1), provide input as necessary, and recommend next steps for presentation to the full Board.

ENVIRONMENTAL JUSTICE IMPACT:

While the draft Encampments of Unsheltered People Ends Policy does not itself constitute Environmental Justice impacts, a new Board Governance Policy that provides a vision and framework for addressing the broad impact of unsheltered people living in encampments on Valley Water land provides an opportunity to empower community members to participate in the decision-making process of projects that impact their communities.

File No.: 23-0908

Agenda Date: 9/7/2023
Item No.: 4.2.

ATTACHMENTS:

Attachment 1: Draft Ends Policy

UNCLASSIFIED MANAGER:

Jennifer Codianne, 408-630-3876

Revised as of August 31, 2023

PROPOSED DRAFT ENDS POLICY LANGUAGE

Ends Policy E-6 Title: Encampments of Unsheltered People (EUP)

Valley Water is committed, through a regional approach, to address the human health, safety, operational and environmental challenges posed by encampments of unsheltered people on Valley Water lands along waterways and at water supply and flood risk reduction facilities.

Accordingly, the following goal and objectives are adopted:

EUP GOAL

- 6.1. Achieve a functional zero level of unsheltered people on Valley Water lands along waterways and at water supply and flood risk reduction facilities.

EUP Objectives

- 6.1.1. Actively participate in a collaborative regional approach with the County, cities, and other service providers to support their efforts in addressing the challenges posed by encampments of unsheltered people.
- 6.1.2. Increase level of service of encampments cleanup efforts based on need and resource availability.
- 6.1.3. Identify Valley Water lands for regional partners to use for housing or other services for unsheltered people.



Santa Clara Valley Water District

File No.: 23-0909

Agenda Date: 9/7/2023

Item No.: 4.3.

COMMITTEE AGENDA MEMORANDUM Board Policy and Planning Committee

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

SUBJECT:

Review Feedback Provided by the Board Advisory Committees Relating to Assigned Purposes, Accomplishments, and Suggested Areas of Improvement and Identify any Improvement Recommendations for Full Board Consideration.

RECOMMENDATION:

- A. Review feedback provided by the Board Advisory Committee Chairs/Vice Chairs and full committees relating to the assigned purposes, accomplishments, and suggest areas of improvement; and
- B. Identify any improvement recommendations for full Board consideration.

SUMMARY:

One of the tasks assigned to the Board Policy and Planning Committee (BPPC) is to review the effectiveness of the Board's Advisory Committees. Regular feedback from the Board's Advisory Committees is an important part of ensuring that they are being productively engaged in the Board's work and District Mission.

To assist the BPPC in accomplishing this task, the Board Advisory Committees' 2022 and/or 2023 Chairpersons and/or Vice Chairpersons were invited to the February 6, 2023, BPPC meeting, and the subject was placed on the Board Advisory Committee agendas, for feedback on committee assigned purposes, accomplishments and to suggest areas of improvement.

The feedback that was provided has been placed in two categories - What's Working and Possible Improvements.

What's Working
There are engaged members serving on the EWRC.

Engaging with staff in advance of EWRC meetings to identify subjects which the Valley Water Board would be interested in receiving feedback and mapping out agenda items for the entire year has work well. Generally, there are two things on each agenda for discussion, one more substantive than the other.

Possible Improvements

Encourage Board Advisory Committee members to considering joining the Water Ambassador Program.

Request that an orientation be offered to incoming Board Advisory Committee members that contains information like that in the Water Ambassador Program.

EWRC working groups still need some improvement for better engagement. They could benefit from direct staff intervention and assistance with proactively agendizing subjects for discussion. Perhaps working groups can meet on an ad hoc basis to address timely information to present to the full committee.

Ensure new Board Advisory Committee membership appointments are timely to maximize membership time.

Bridge knowledge divide among Water Commission members by supporting less turnover of new members from appointing agencies.

When information on water rates is provided to the Water Commission, it would be helpful if it was packaged in a way that is simple and easy to communicate to constituents.

Board Advisory Committees could benefit from Board feedback on how they are performing and whether the Board is receiving what they were hoping to receive.

Create a process to timely inform Committees of Board agenda items that may be of interest.

Commission/Committee Chair/Vice Chair could benefit from direct staff support and assistance with proactively agendizing timely subjects for Committee discussion.

Growers needs to be educated on run off into creeks (Potential Agricultural Water Advisory Committee Agenda Item)

Underserved minority farmers could use help understanding conservation farming techniques. (Potential Agricultural Water Advisory Committee Agenda Item)

ENVIRONMENTAL JUSTICE IMPACT:

There are no Environmental Justice impacts associated with this item.

File No.: 23-0909

Agenda Date: 9/7/2023
Item No.: 4.3.

ATTACHMENTS:

None.

UNCLASSIFIED MANAGER:

Michele King, 408-630-2711



Santa Clara Valley Water District

File No.: 23-0907

Agenda Date: 9/7/2023
Item No.: 4.4.

COMMITTEE AGENDA MEMORANDUM Board Policy and Planning Committee

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

SUBJECT:

Review Committee 2023 Work Plan and Meeting Schedule.

RECOMMENDATION:

- A. Review the 2023 Board Policy and Planning Committee's Work Plan and incorporate any new tasks; and
- B. Schedule Committee meetings as appropriate.

SUMMARY:

This allows the Committee an opportunity to review its 2023 Work Plan and meeting schedule (Attachment 1) and identify additional tasks and schedule meetings as appropriate.

ENVIRONMENTAL JUSTICE IMPACT:

There are no Environmental Justice impacts associated with this item.

ATTACHMENTS:

Attachment 1: 2023 BPPC Work Plan

UNCLASSIFIED MANAGER:

Michele King, 408-630-2711

2023 Board Policy and Planning Committee Work Plan and Schedule

Subject	Task	1/11/23	2/6/23	3/6/23	4/3/23	4/28/23	6/5/23	6/30/23	8/10/23	9/7/23	10/2/2023	11/6/2023	12/4/2023
Board Planning Process	A. Provide Support for Board Planning Activities												
	1. Discuss FY23-24 Board Budget Message & Board Work Plan						X						
	2. Planning for Board's FY23-24 Strategic Planning Workshop												
	B. Provide Support for Board Policy Review												
	1. Update on Expansion of the Water Resources Protection Manual	X											
	2. Fuel Management Policy and Wildfire Resilience Plan												
	3. One Water Watershed Plans										X		
	4. Update on Climate Change Action Plan Implementation Update.	X							X	X			
	5. Develop a Board Ethics and Code of Conduct Board's Governance Policy for Board Approval.			X		X	X	X	X				
	6. Review Board Governance Policies related to the Election of the Board Chairperson/Vice Chairperson and the Chairperson's role.			X			X						
Board Committees Principles and Structures	7. Unhoused Ends Policy						X		X	X			
	8. Review Governance Policies of the Board: Executive Limitations												
Board Committees Principles and Structures	C. Align Board Committees' Work Plans with Board Planning Calendar												
	1. Review Effectiveness of Board Advisory Committees (External) - Meet with BPPC prior to presenting Accomplishment Reports to Board.		X		X					X			
Other Assignments Requested by Board	D. Other Assignments as Requested by the Board												
	1. Analyze Santa Clara County Civil Grand Jury Final Report: If You Only Read the Ballot, You're Being Duped, October 7, 2022, and Provide Recommendations to Full Board by March 31, 2023.		X										
	2. Review Candidate Statement Fee Associated with Filing for a Santa Clara Valley Water District Board of Director Seat								X				

2023 Board Policy and Planning Committee Accomplishments Report

Subject	Task	Action Taken
Board Planning Process	A. Provide ongoing support for Board Planning Activities	
	1. Discuss FY23-24 Board Budget Message & Board Work Plan	6/5/23 - Committee reviewed draft plan, provided input and recommended approval to the Board.
	2. Planning for Board's FY23-24 Strategic Planning Workshop	
	B. Provide Support for Board Policy Review	
	1. Expansion of the Water Resources Protection Manual	1/11/23 - Received an update and provided input on the WRPM and outreach efforts related to the guidelines and standards for land use near streams.
	2. Fuel Management Policy and Wildfire Resilience Plan	
	3. One Water Watershed Plans	
	4. Climate Change Action Plan Implementation Update.	1/11/23 - Received an update and provided input on high-priority climate change mitigation and adaption actions. 8/8/23 – This item was continued to the September Committee meeting.
	5. Develop a Board Ethics and Code of Conduct Board's Governance Policy for Board Approval.	3/6/23 - Committee requested the Chair work with staff to create a draft policy framework for review and input. 6/30/23 – Committee reviewed draft policy, provided input, made revisions and will recommend that the Board approve. 8/8/23 – Committee reviewed the updated draft policy, provided additional input and approved presenting to the full board for review and approval.
	6. Review Board Governance Policies related to the Election of the Board Chairperson/Vice Chairperson and the Chairperson's role.	3/6/23 - Committee requested that staff return to the Board to clarify this assignment and probably outcome. 6/5/23 – Committee reviewed policy and recommended to the Board that it be revised to allow the Board Chairperson/Vice Chairperson be elected by a simple majority; and requested more direction on the policy related to the role of the Chairperson.

	7.	Unhoused Ends Policy	6/5/23 - Committee reviewed draft policy, provided input and requested that staff return in August with new draft. 8/8/23 – Committee requested that staff work with Chair Hsueh on the draft policy and schedule on future committee agenda.
	8.	Review Governance Policies of the Board: Executive Limitations	
Board Committees Principles and Structures	C.	Align Board Committees' Work Plans with Board Planning Calendar	
	1.	Review Effectiveness of Board Advisory Committees (External) - Meet with BPPC prior to presenting Accomplishment Reports to Board.	2/6/23 - Board Advisory Committee Chairs/Vice Chairs attended meeting and provided feedback. Information collected will be shared with the Committees and will return to the BPPC for possible recommendations to the Board.
Other Assignments Requested by Board	D.	Assignments as Requested by the Board	
	1.	Analyze Santa Clara County Civil Grand Jury Final Report: If You Only Read the Ballot, You're Being Duped, October 7, 2022, and Provide Recommendations to Full Board by March 31, 2023.	2/5/23 - BPPC reviewed the report and made recommendations to the full board.
	2.	Review Candidate Statement Fee Associated with Filing for a Santa Clara Valley Water District Board of Director Seat	8/20/23 - Committee recommended to the Board to consider supporting each candidate with their statements fees by providing financial reimbursement of 50% or more, as the Board may determine.