

July 3, 2017

**MEETING NOTICE & REQUEST FOR RSVP**

**TO: ENVIRONMENTAL AND WATER RESOURCES COMMITTEE**

<b><u>Jurisdiction</u></b>	<b><u>Representative</u></b>	<b><u>Representative</u></b>	<b><u>Representative</u></b>
District 1	Bonnie Bamburg	Loren Lewis	Rita Norton
District 2	Patricia Colombe	Elizabeth Sarmiento	
District 3	Hon. Dean Chu	Rev. Jethroe Moore, II	Charles Taylor
District 4	John Bourgeois	Bob Levy	Richard R. Zahner
District 5	Hon. Tara Martin-Milius	Mike Michitaka	Marc Rauser
District 6	Maya Esparza	Hon. Patrick Kwok	
District 7	Tess Byler	Arthur M. Keller, Ph.D.	Stephen A. Jordan

The regular meeting of the Environmental and Water Resources Committee is scheduled to be held on **Monday, July 17, 2017, at 6:00 p.m.** in the Headquarters Building Boardroom located at the Santa Clara Valley Water District, 5700 Almaden Expressway, San Jose, California. Dinner will be served.

Enclosed are the meeting agenda and corresponding materials. Please bring this packet with you to the meeting. Additional copies of this meeting packet are available on-line at <http://www.valleywater.org/About/EnvironmentalandWaterResourcesCommittee.aspx>.

A majority of the appointed membership is required to constitute a quorum, which is fifty percent plus one. A quorum for this meeting must be confirmed at least 48 hours prior to the scheduled meeting date or it will be canceled.

Further, a quorum must be present on the day of the scheduled meeting to call the meeting to order and take action on agenda items.

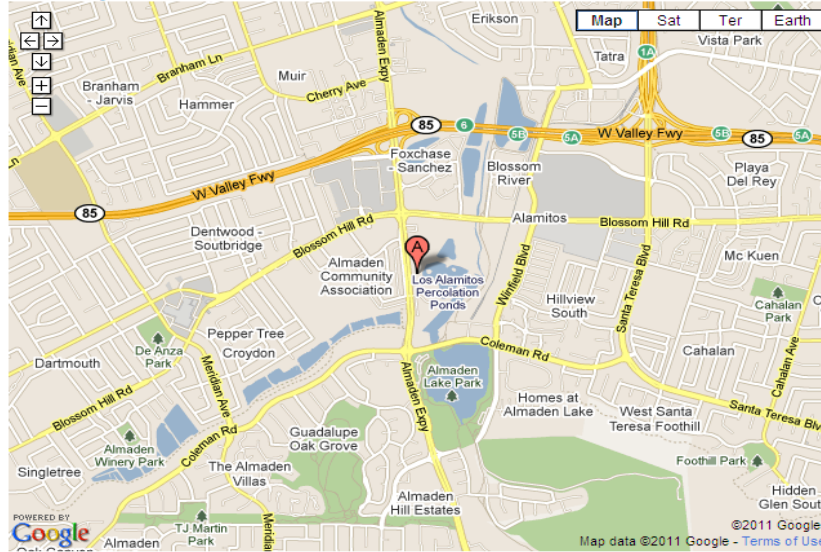
Members with two or more consecutive unexcused absences will be subject to rescinded membership.

Please confirm your attendance **no later than Thursday, July 13, 2017, 5:00 p.m.** by contacting Ms. Glenna Brambill at 1-408-630-2408, or [gbrambill@valleywater.org](mailto:gbrambill@valleywater.org).

Enclosures



**Santa Clara Valley Water District - Headquarters Building,  
5700 Almaden Expressway, San Jose, CA 95118**



**From Oakland:**

- Take 880 South to 85 South
- Take 85 South to Almaden Expressway exit
- Turn left on Almaden Plaza Way
- Turn right (south) on Almaden Expressway
- At Via Monte (third traffic light), make a U-turn
- Proceed north on Almaden Expressway approximately 1,000 feet
- Turn right (east) into the campus entrance

**From Morgan Hill/Gilroy:**

- Take 101 North to 85 North
- Take 85 North to Almaden Expressway exit
- Turn left on Almaden Expressway
- Cross Blossom Hill Road
- At Via Monte (third traffic light), make a U-turn
- Proceed north on Almaden Expressway approximately 1,000 feet
- Turn right (east) into the campus entrance

**From Sunnyvale:**

- Take Highway 87 South to 85 North
- Take Highway 85 North to Almaden Expressway exit
- Turn left on Almaden Expressway
- At Via Monte (third traffic light), make a U-turn
- Proceed north on Almaden Expressway approximately 1,000 feet
- Turn right (east) into the campus entrance

**From San Francisco:**

- Take 280 South to Highway 85 South
- Take Highway 85 South to Almaden Expressway exit
- Turn left on Almaden Plaza Way
- Turn right (south) on Almaden Expressway
- At Via Monte (third traffic light), make a U-turn
- Proceed north on Almaden Expressway approximately 1,000 feet
- Turn right (east) into the campus entrance

**From Downtown San Jose:**

- Take Highway 87 - Guadalupe Expressway South
- Exit on Santa Teresa Blvd.
- Turn right on Blossom Hill Road
- Turn left at Almaden Expressway
- At Via Monte (first traffic light), make a U-turn
- Proceed north on Almaden Expressway approximately 1,000 feet
- Turn right (east) into the campus entrance

**From Walnut Creek, Concord and East Bay areas:**

- Take 680 South to 280 North
- Exit Highway 87-Guadalupe Expressway South
- Exit on Santa Teresa Blvd.
- Turn right on Blossom Hill Road
- Turn left at Almaden Expressway
- At Via Monte (third traffic light), make a U-turn
- Proceed north on Almaden Expressway approximately 1,000 feet
- Turn right (east) into the campus entrance



**Committee Officers**

Loren Lewis, Chair  
Elizabeth Sarmiento, Vice Chair

**Board Representative**

Tony Estremera, Board Representative  
Nai Hsueh, Board Alternate  
Linda J. LeZotte, Board Representative

**AGENDA**

**ENVIRONMENTAL AND WATER RESOURCES COMMITTEE**

**MONDAY, JULY 17, 2017**

**6:00 p.m. – 8:00 p.m.**

**Santa Clara Valley Water District  
Headquarters Building Boardroom  
5700 Almaden Expressway  
San Jose, CA 95118**

**Time Certain:**

**6:00 p.m.**

**1. Call to Order/Roll Call**

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

*Comments should be limited to two minutes. If the Committee wishes to discuss a subject raised by the speaker, it can request placement on a future agenda.*

**3. Approval of Minutes**

3.1 Approval of Minutes – April 17, 2017, meeting.

**4. Action Items**

4.1 Socially Responsible Investment Policy (Charlene Sun)

**Recommendation: Receive information regarding the principles of socially responsible investment policy and provide comments, if applicable.**

4.2 Santa Clara Valley Water District Communications and Community Engagement Program Update (Marty Grimes/Jose Villarreal)

**Recommendation: Receive update on the Santa Clara Valley Water District's (District) Communications Programs.**

4.3 Board Feedback on Safe, Clean Water and Natural Flood Protection Program (Jessica Collins)

**Recommendation: This is an information item only and no action is required.**

4.4 One Water Plan – July 2017 Update (Brian Mendenhall)

**Recommendations: Receive information and discuss District's One Water Plan, make recommendations regarding types of water resource management opportunities to prioritize and make recommendations on stakeholder groups to engage for Santa Clara County watershed-based planning.**

4.5 Water Supply Update and Drought Response (Tracy Hemmeter)

**Recommendation: This is an information item only and no action is required.**

4.6 Overview of Hydraulic Fracturing (Fracking) (Vanessa De La Piedra)

**Recommendation: This is an information item only and no action is required.**

4.7 Update from Working Groups (Committee Chair)

**Recommendation: Provide comment to the Board in the implementation of the District's mission as it applies to the working groups' recommendations.**

4.8 Review Environmental and Water Resources Committee Work Plan, the Outcomes of Board Action of Committee Requests and the Committee's Next Meeting Agenda (Committee Chair)

**Recommendation: Review the Board-approved Committee work plan to guide the committee's discussions regarding policy alternatives and implications for Board deliberation.**

**5. Clerk Review and Clarification of Committee Requests to the Board**

*This is a review of the Committee's Requests, to the Board (from Item 4). The Committee may also request that the Board approve future agenda items for Committee discussion.*

**6. Reports**

*Directors, Managers, and Committee members may make brief reports and/or announcements on their activities. Unless a subject is specifically listed on the agenda, the Report is for information only and not discussion or decision. Questions for clarification are permitted.*

6.1 Director's Report

6.2 Manager's Report

6.3 Committee Member Reports

**7. Adjourn:** Adjourn to next regularly scheduled meeting at 6:00 p.m., **October 16, 2017**, in the Headquarters Building Boardroom, 5700 Almaden Expressway, San Jose, CA 95118.

All public records relating to an open session item on this agenda, which are not exempt from disclosure pursuant to the California Public Records Act, that are distributed to a majority of the legislative body will be available for public inspection at the Office of the Clerk of the Board at the Santa Clara Valley Water District Headquarters Building, 5700 Almaden Expressway, San Jose, CA., 95118, at the same time that the public records are distributed or made available to the legislative body.

The Santa Clara Valley Water District will make reasonable efforts to accommodate persons with disabilities wishing to attend committee meetings. Please advise the Clerk of the Board office of any special needs by calling 1-408-630-2277.

**Environmental and Water Resources Committee's Purpose and Duties**

The Environmental and Water Resources Committee of the Santa Clara Valley Water District is established to assist the Board of Directors (Board) with policies pertaining to water supply, flood protection and environmental stewardship.

The specific duties are:

- Prepare policy alternatives;
- Provide comment on activities in the implementation of the District's mission; and
- Produce and present to the Board an Annual Accomplishments Report that provides a synopsis of the annual discussions and actions.

In carrying out these duties, Committee members bring to the District their respective expertise and the interests of the communities they represent. In addition, Committees may help the Board produce the link between the District and the public through information sharing to the communities they represent.

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ENVIRONMENTAL AND WATER RESOURCES COMMITTEE MEETING

# DRAFT MINUTES

**MONDAY, APRIL 17, 2017  
6:00 PM**

(Paragraph numbers coincide with agenda item numbers)

A regular scheduled meeting of the Environmental and Water Resources Committee (Committee) Meeting was held on April 17, 2017, in the Headquarters Building Boardroom at the Santa Clara Valley Water District, 5700 Almaden Expressway, San Jose, California.

**1. CALL TO ORDER/ROLL CALL**

Chair Loren Lewis called the meeting to order at 6:13 p.m.

Members in attendance were:

<b><u>District</u></b>	<b><u>Representative</u></b>
District 1	Bonnie Bamburg Loren Lewis Rita Norton
District 2	Elizabeth Sarmiento
District 3	Rev. Jethroe Moore, II* Charles Taylor
District 4	Bob Levy Richard Zahner
District 5	Hon. Tara Martin-Milius* Mike Michitaka Marc Rauser
District 7	Stephen A. Jordan Arthur M. Keller, Ph.D.*

Members not in attendance were:

<b><u>District</u></b>	<b><u>Representative</u></b>
District 2	Patricia Colombe
District 3	Hon. Dean Chu
District 4	John Bourgeois
District 6	Maya Esparza Hon. Patrick Kwok
District 7	Tess Byler

\*Committee members arrived as noted below.

Board members in attendance were: Director Tony Estremera, Board Representative, Director Nai Hsueh, Board Alternate and Director Linda J. LeZotte, Board Representative.

Staff members in attendance were: Glenna Brambill, Garth Hall, Tracy Hemmeter and Darin Taylor.

**2. PUBLIC COMMENT**

There was no one present who wished to speak.

**3. APPROVAL OF MINUTES**

It was moved by Ms. Bonnie Bamburg, seconded by Mr. Marc Rauser. and unanimously carried, to approve the January 23, 2017, Environmental and Water Resources Committee meeting minutes, as presented.

\*Ms. Tara Martin Milius arrived at 6:19 p.m.

\*Arthur M. Keller, Ph.D. arrived at 6:24 p.m.

**4. ACTION ITEMS**

**4.1 REVIEW AND COMMENT TO THE BOARD ON THE FISCAL YEAR 2017-2018 PROPOSED GROUNDWATER PRODUCTION CHARGES**

Mr. Darin Taylor reviewed the materials as outlined in the agenda item. The Board Agenda Memorandum, Public Hearing information for April 13, 2017, and the Protection and Augmentation of Water Supplies (PAWS) Report were distributed.

Hon. Tara Martin-Milius, Mr. Mike Michitaka, Director Tony Estremera, Mr. Marc Rauser, Arthur M. Keller, Ph.D., Ms. Bonnie Bamburg, Ms. Rita Norton, Mr. Bob Levy, Mr. Stephen Jordan, and Mr. Charles Taylor spoke on the Fiscal Year 2017-2018 proposed groundwater production charges.

Mr. Garth Hall was available to answer questions.

\*Rev. Jethroe Moore, II arrived at 6:42 p.m.

Committee's action item failed.

Chair Lewis moved to Agenda Item 5.1

**5.1 RECEIVE A BRIEF REPORT ON THE ONGOING DISCUSSION WITH THE SIERRA CLUB AND DISTRICT ON WATER PLANNING**

Ms. Tracy Hemmeter reviewed the materials as outlined in the agenda item.

Mr. Richard Zahner questioned if other organizations could participate.

No action was taken.

Chair Lewis moved to Agenda Item 4.2

#### **4.2 REALIGNMENT OF WORKING GROUPS**

Chair Loren Lewis reviewed the materials as outlined in the agenda items.

Arthur M. Keller, Ph.D., Vice Chair Elizabeth Sarmiento, Ms. Bonnie Bamburg, Mr. Mike Michitaka, Mr. Richard Zahner, Hon. Tara Martin-Milius, and Mr. Marc Rauser spoke on the realignment of working groups,

Director Nai Hsueh and Director Linda J. LeZotte, gave the Committee an overview of the Board's Planning Calendar and Work Plan to assist with the working groups' role.

##### **Committee action:**

It was moved by Arthur M. Keller, Ph.D., seconded by Hon. Tara Martin-Milius. and by majority vote carried, to approve the working groups using the list from the planning and monitoring calendar that the Board has already established. Ms. Glenna Brambill will email the list to the Committee so they can sign up for their desired working group(s).

#### **4.3 REVIEW OF ENVIRONMENTAL AND WATER RESOURCES COMMITTEE WORK PLAN, THE OUTCOMES OF BOARD ACTION OF COMMITTEE REQUESTS AND THE COMMITTEE'S NEXT MEETING AGENDA**

Chair Lewis and Ms. Glenna Brambill reviewed the materials as outlined in the agenda items.

##### **Committee action:**

It was moved by Arthur M. Keller, Ph.D., seconded by Mr. Bob Levy, and carried unanimously, to approve the Committee's request for the District's Energy Use Policy discussion and information of the District's environmental audit of disposable (paperware) products pertaining to their food services be added to the Committee's work plan.

#### **6. Clerk Review and Clarification of Committee's Requests to the Board**

Ms. Glenna Brambill reported there were two Committee actions to apprise the Board.

##### **Committee action:**

1. The Committee approved the working groups using the list from the planning and monitoring calendar that the Board has already established. Ms. Glenna Brambill will email the list to the Committee so they can sign up for their desired working group(s).
2. The Committee approved the Committee's request for the District's Energy Use Policy discussion and information of the District's environmental audit of disposable (paperware) products pertaining to their food services be added to the Committee's work plan.

#### **7. REPORTS**

##### **7.1 Director's Report**

Director Linda J. LeZotte Nai Hsueh reported on the following:

- Board Action
- Water District News
- Water Supply
- Flood Protection
- Community Outreach

### **7.2. Manager's Report**

Mr. Garth Hall reported on the following:

- Water Supply Central Valley availability of supply
- Oroville Spillway
- So Bay Aqueduct outage through June to repair pipeline
- Groundwater projections remain in normal range

### **7.3 Committee Member Reports**

Ms. Glenna Brambill read Hon. Dean Chu's certificate of appreciation from the Board Representatives and EWRC presented at the Board's March 28, 2017, meeting.

## **8. ADJOURNMENT**

Chair Mr. Loren Lewis adjourned at 8:26 p.m. to the next regular meeting on Monday, July 17, 2017, at 6:00 p.m., in the Santa Clara Valley Water District Headquarters Boardroom.

Submitted by:

Glenna Brambill  
Office of the Clerk of the Board

Approved:



Committee: Environmental Water and Resources  
Meeting Date: 07/17/17  
Agenda Item No.: 4.1  
Unclassified Manager: Darin Taylor  
Email: [dtaylor@valleywater.org](mailto:dtaylor@valleywater.org)  
Est. Staff Time: 15 minutes

## COMMITTEE AGENDA MEMO

**SUBJECT:** Socially Responsible Investment Policy

**RECOMMENDED ACTION:**

Receive information regarding the principles of socially responsible investment policy and provide comments, if applicable.

**SUMMARY:**

Per the Board Policy and Planning Committee's request for information regarding the principles of socially responsible investment policy, this report summarizes the general principles, how it has been implemented in other local agencies, and staff's recommendation on how such principles can be incorporated into the District's Investment Policy.

Background

The Government Finance Officers Association (GFOA) defines Socially Responsible Investing (SRI)\* as an investment approach where certain sectors or business activities are excluded from the portfolio through negative screening for moral, ethical, environmental, social, and governance (ESG) reasons. Examples of implementing SRI include impact investing in projects, companies, funds or organizations with the express goal of generating and measuring mission-related social, environmental, or economic change alongside financial return, as well as divestment of specific business sectors or companies that do not comply with the SRI principles (e.g. divestment of fossil fuel companies). The ESG factors that are currently commonly considered include the following:

**Table 1: ESG Factors**

Environmental	Social	Corporate Governance
Climate change	Stakeholder relations	Board composition
Energy & material efficiency	Labor relations	Executive compensation
Waste management	Working conditions	Shareholder rights
Air quality/pollution	Health and safety	Accountability & audit quality
Water use & management	Supply chain management	Transparency
Chemicals	Product safety	
Land use management	Treatment of customers	

Implementing SRI have financial and non-financial impacts. The financial impacts include assessing ESG factors to optimize risk-adjusted returns, influencing corporate behavior to enhance long-term outcomes, and

\* [http://gfoa.org/sites/default/files/SRI\\_Slides\\_0.pdf](http://gfoa.org/sites/default/files/SRI_Slides_0.pdf)

contributing to the integrity of the financial market. The non-financial impacts include assessing the long-term investment horizon to reflect concerns and values of stakeholders and managing the reputation and business risk of the organization.

Additional research on sustainable investing principles are summarized in the report ‘The 21<sup>st</sup> Century Investor: CERES Blueprint for Sustainable Investing’ (“Blueprint”). The Blueprint summarizes ten action steps for sustainable investment strategy:

1. Establish a commitment to sustainable investment through a Statement of Investment Beliefs
2. Establish board level oversight of sustainability policies and practices
3. Identify sustainability issues material to the fund
4. Evaluate material sustainability risks to the portfolio
5. Integrate sustainability criteria into investment strategies
6. Require sustainable investment expertise in manager and consultant procurement
7. Evaluate manager performance against sustainable investment expectations
8. Establish engagement strategies and proxy voting guidelines consistent with sustainable investment goals
9. Support policies and market initiatives that promote a sustainable global economy
10. Integrate sustainable investment approaches across all asset classes and strategies.

### Local Agency Investment Practices

Per a March 26, 2014 report on local government efforts to implement socially responsible investment policy prepared by the City of Portland<sup>†</sup>, 23 local government agencies were contacted for a survey on social responsibility investment practices. Of the 11 responses received, six agencies reported they have documented social criteria in their investment policies, and five agencies do not apply social criteria. Additionally, six of the 11 agencies do not invest in corporate securities, thus limiting their investments to U.S government securities. Of note are the City and County of San Francisco and Denver and Harvard University who have adopted formal social responsibility criteria in its investment policy (Appendix A).

### District Investment Policy

In accordance with Executive Limitation 4.9 regarding treasury and investment management, and pursuant to Title 5, Division 2, Part 1, Chapter 4, Articles 1 and 2 of the California Government Code, as amended from time to time (the “Government Code”), the District Board of Directors annually adopts the resolution delegating authority to deposit and invest funds to the Treasurer or her designee and approves the Investment Policy in May of each year for implementation on July 1 of each new fiscal year. The FY 2017-18 Investment Policy was approved by the Board on May 9, 2017.

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\* <https://www.ceres.org/resources/reports/the-21st-century-investor-ceres-blueprint-for-sustainable-investing/view>

† <https://www.portlandoregon.gov/omf/article/494707>

Given the various limitations imposed by the Government Code on allowable investments, should the Board determine it's in the District's best interest to incorporate socially responsible investment policy, staff recommends adding social responsibility as an additional investment objective in Section 3.4 of the District Investment Policy:

3.4 In addition to the investment objectives of safety, liquidity, and yield, the District shall not invest in corporate securities and banking institutions that do not meet the ESG factors outlined in Table 1 (above). The Investment Committee\* shall follow the ESG Guiding Principles (Appendix B) to evaluate and approve such investments to ensure compliance with the ESG factors.

The proposed amendment of the District Investment Policy would be subject to Board approval, to be agendaized after staff has received comments from the Board Advisory Committees.

#### Financial Impact

Staff estimates the potential financial impact of implementing the socially responsible investment policy is between \$9,000 to \$200,000 in lower annual interest earnings due to divestment of such corporate and banking securities that are not in compliance with the ESG Guiding Principles.

For further information, please contact Darin Taylor, Chief Financial Officer, at 408-630-3068.

#### **ATTACHMENTS:**

None

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\* Per the District Investment Policy, the Investment Committee members include the Chief Operating Officer - Administration, Chief Financial Officer, District Counsel, the Accounting Manager, and the Treasury and Debt Manager.

## **Appendix A - Local Agency Investment Practices**

### **A. CITY AND COUNTY OF SAN FRANCISCO OFFICE OF THE TREASURER & TAX COLLECTOR INVESTMENT POLICY**

Effective May 2016

#### **1.0**

<http://sftreasurer.org/sites/default/files/Investment%20Policy.pdf>

#### **13.0 Social Responsibility**

In addition to and subordinate to the objectives set forth in Section 4.0 herein, investment of funds should be guided by the following socially responsible investment goals when investing in corporate securities and depository institutions. Investments shall be made in compliance with the forgoing socially responsible investment goals to the extent that such investments achieve substantially equivalent safety, liquidity and yield compared to investments permitted by state law.

##### **13.1 Social and Environmental Concerns**

Investments are encouraged in entities that support community well-being through safe and environmentally sound practices and fair labor practices. Investments are encouraged in entities that support equality of rights regardless of sex, race, age, disability or sexual orientation. Investments are discouraged in entities that manufacture tobacco products, firearms, or nuclear weapons. In addition, investments are encouraged in entities that offer banking products to serve all members of the local community, and investments are discouraged in entities that finance high-cost check-cashing and deferred deposit (payday-lending) businesses. Prior to making investments, the Treasurer's Office will verify an entity's support of the socially responsible goals listed above through direct contact or through the use of a third party such as the Investors Responsibility Research Center, or a similar ratings service. The entity will be evaluated at the time of purchase of the securities.

##### **13.2 Community Investments**

Investments are encouraged in entities that promote community economic development. Investments are encouraged in entities that have a demonstrated involvement in the development or rehabilitation of low income affordable housing, and have a demonstrated commitment to reducing predatory mortgage lending and increasing the responsible servicing of mortgage loans. Securities investments are encouraged in financial institutions that have a Community Reinvestment Act (CRA) rating of either Satisfactory or Outstanding, as well as financial institutions that are designated as a Community Development Financial Institution (CDFI) by the United States Treasury Department, or otherwise demonstrate commitment to community economic development.

## B. CITY AND COUNTY OF DENVER

### DEPARTMENT OF FINANCE – CASH, RISK & CAPITAL FUNDING INVESTMENT POLICY

[https://www.denvergov.org/content/dam/denvergov/Portals/344/documents/crcf/Investment\\_Policy.pdf](https://www.denvergov.org/content/dam/denvergov/Portals/344/documents/crcf/Investment_Policy.pdf)

#### P. SOCIAL RESPONSIBILITY

The City and County of Denver will make its best efforts, with the resources available, to ensure that it does not participate in an ownership or capital-providing capacity with entities that;

1. Directly or indirectly participate in or support activities that do not have respect for human rights around the world; or
2. Are conducting business with a terrorist-sponsoring State

## C. Harvard University

<https://responsibleharvard.com/the-fair-harvard-fund/investment-policy-statement/>

This Investment Policy Statement (or “IPS”) has been adopted by the Investment Committee of the Fair Harvard Fund (the “Fund”). The IPS summarizes an investment philosophy and approach thought best to meet the Fund’s long-term return goals and investment principles at an appropriate level of risk. It is designed to provide a framework to help guide the Committee, investment managers and other parties involved in advising the portfolio, in setting objectives, selecting and monitoring portfolio investments, diversifying assets and evaluating performance.

**Negative Screens:** Investment managers must avoid investment in companies significantly involved in the production or sale of fossil fuels and tobacco. To the extent possible while maintaining adequate diversification, investments in companies involved in the production and distribution of the following should also be avoided:

- Oil, gas, and other fossil fuel sources
- Nuclear power
- Pornography
- Gambling
- Weapons and/or firearms
- Genetically modified organisms in agriculture
- Factory farming of meat or fish

Further, investment managers should seek to exclude investment in companies with a demonstrated record of the following:

- poor practices with respect to environmental regulation, greenhouse gas emissions, toxins, hazardous waste or environment justice
- human rights abuse, violations of international law, and/or materially or otherwise supporting repressive regimes

- endangering rural people's access to the land, water and other resources on which their livelihoods depend
- violating labor laws, abusing or otherwise mistreating workers and/or preventing or impeding unionization
- discrimination based on sexual orientation, gender, race, ethnicity, age or disability
- practices which have significant negative effects on affected communities, particularly those with minority or low-income residents
- restriction of access to affordable medicine in the developing world

**Positive Screens:** Consistent with a need for adequate liquidity, diversification and investment minimums seek out companies involved in the production of renewable energy and organic food, local food and sustainable agriculture and generally, invest in companies and investments that demonstrate commitment to:

- environmental sustainability, including reducing greenhouse gas emissions and sustainable forestry
- community development and/or investment, particularly in communities with minority or low-income residents
- diversity in hiring, executives and boards with respect to sexual orientation, gender, race, ethnicity
- living wages for all employees and collective bargaining
- transparency and accountability in corporate governance

## **Appendix B – District Investment Committee ESG Guiding Principles**

When evaluating potential investments in corporate and financial institution securities, the Investment Committee shall follow the guiding principles:

**Negative Screens:** No investments shall be made in companies significantly involved in the production or sale of fossil fuels, tobacco, and other products that are environmentally harmful. Furthermore, to the extent possible while maintaining adequate safety, liquidity and yield of the portfolio, no investments shall be made in companies with a demonstrated record of the following:

- poor practices with respect to environmental regulation, greenhouse gas emissions, toxins, hazardous waste or environment justice
- human rights abuse, violations of international law, and/or materially or otherwise supporting repressive regimes
- endangering rural people's access to the land, water and other resources on which their livelihoods depend
- violating labor laws, abusing or otherwise mistreating workers and/or preventing or impeding unionization
- discrimination based on sexual orientation, gender, race, ethnicity, age or disability
- practices which have significant negative effects on affected communities, particularly those with minority or low-income residents
- restriction of access to affordable medicine in the developing world

**Positive Screens:** To the extent possible while maintaining adequate safety, liquidity and yield of the portfolio, investments shall be made in companies involved in the production of renewable energy and organic food, local food and sustainable agriculture and generally, invest in companies and investments that demonstrate commitment to:

- environmental sustainability, including reducing greenhouse gas emissions and sustainable forestry
- community development and/or investment, particularly in communities with minority or low-income residents
- diversity in hiring, executives and boards with respect to sexual orientation, gender, race, ethnicity
- living wages for all employees and collective bargaining
- transparency and accountability in corporate governance





Committee:	Environmental and Water Resources
Meeting Date:	07/17/17
Agenda Item No.:	4.2
Unclassified Manager:	Rick Callender
Email:	<a href="mailto:rcallender@valleywater.org">rcallender@valleywater.org</a>
Est. Staff Time:	15 minutes

## COMMITTEE AGENDA MEMO

**SUBJECT:** Santa Clara Valley Water District Communications and Community Engagement Program Update

### RECOMMENDED ACTION:

Receive update on the Santa Clara Valley Water District's (District) Communications Programs

### SUMMARY:

This update gives the Environmental and Water Resources Committee information on current and future communications efforts to support the District Board of Directors in establishing key linkages between the District and the community in order to accomplish Board Policy GP-3.1 which states that "the Board will produce the link between the District and the public."

### BACKGROUND:

This update gives the Environmental and Water Resources Committee information on current and future communications efforts to support the District Board of Directors in establishing key linkages between the District and the community in order to accomplish Board Policy GP-3.1 define.

### BACKGROUND

Per Ends Policy 1.2, the District's communications goal is to communicate the District's programs, projects and challenges to the community, effectively and transparently, in order to foster public engagement.

#### Improvements in Coordination

District Communications and Community Engagement Program has been restructured. The unit is now under the direction of Chief of External Affairs, Rick Callender, who also oversees the District's Office of Government Relations. This joining of the two units under one manager has improved coordination between Communications and Government Relations.

The joining of Communications with Government Relations has resulted in the sharing of resources and employees, for instance, with Communications helping produce talking points when needed, and Government Relations providing more people to draw upon for emergency communications. That has been especially important during this winter, when heavy rains and flooding called for increased visibility and media access. Connection between the two units has increased, allowing a better understanding of each unit's activities and the opportunity to synchronize strategies and tasks.

## Activities and Plans

Improved coordination has also allowed the units to provide better support for the Board of Directors through increased awareness of activities throughout the county. While the education and volunteer programs have remained under a separate manager, they are expected to reunite with Communications and Government Relations under the new Chief of External Affairs, providing a more cohesive, one-stop-shop for Board members to reach their constituents and to hear from the people in their districts.

We continue to develop the Speakers Bureau program, recruiting more staff to give presentations about the District to community groups. Before offering the speaking opportunity to staff, however, we offer it to Board members. We plan to increase outreach for this program this year.

Other actions the unit has taken in the last six months and that are planned for the near future will continue to offer the Board members support in creative and useful ways.

### *Branding*

Image and reputation are important to an organization's ability to accomplish its work. A positive view of the District by the public makes it easier for the District to obtain funding as well as community and stakeholder support for various projects to protect water quality and supply and to provide flood protection.

With that in mind, the District needs to consider what image it wishes the public to conjure at the mention of its name. Beyond the vision and mission of the District, and more than a slogan, the Santa Clara Valley Water District's brand needs to convey our purpose and our value to the public. A strong brand also allows the *District*, especially the Directors, as they conduct outreach in their districts, to set the tone and impression through consistent messaging, rather than passively allowing others to describe us and by default set our brand for us.

The District will promote the brand through a variety of means, including providing on-message materials such as talking points, presentations and publications to Board members, an ad campaign, blog posts relating to the brand theme, videos, pitches to the media, and more.

This effort will take careful planning and thought, and will start with an assessment of the current image of the District among the public. The next step is to identify the desired brand image the District would like to be known for. For a branding initiative to be successful, the desired brand must reflect attributes that accurately describe the District. For example, if our desired brand image is one of "fiscal responsibility," we must be able to truly demonstrate our fiscal responsibility.

Staff will return to the Board in summer with branding options that incorporate the results of the public opinion survey. Once a brand identity is identified, it should be reflected in a wide array of communications efforts.

### *Reputation and trust campaign*

Informing the branding effort will be a year-long campaign (July 2017-July 2018) to improve the public's perception of the District.

This effort has begun with a poll, due in June, which will help us understand what people think about the District and what messages resonate with the public. The campaign will involve the entire organization working through an internal working group. The working group will help determine what strategies to use, particularly for an external campaign. The Board's leadership will also be valuable in shaping a message-driven District and connecting with the community. Results will be shared with the organization along with messages to be incorporated in all external communications.

### *Water Truck*

In addition to branding, staff is working on designs for the water truck that was included in the FY 17 budget and will be delivered in the coming weeks. There are a few choices including the District's Value of Water

campaign images; images from the Value of Water Coalition's campaign, a resource provided by the U.S. Water Alliance to build will for investment in water infrastructure and resources; and images promoting the District's high-quality water.

In the interim, the unit will seek employee input on the design.

#### *Redesign of Web*

The District has finalized a contract with a vendor to redesign the external website, to modernize it, organize information better and make it more user-friendly for the public. The District's website is an extensive repository for information that can help the public and employees, and the redesign will make that information more accessible, as well as showcase the District's stories.

As an example, in response to Board members' requests, we are working with other units to make it easier for the public to find flood information on the website, including real-time data during storms, and to ensure that that information is understandable by the public.

Staff will present an update on the redesign at the next communications presentation.

#### *Media Relations*

News media opportunities are offered to the Board chair, and in each district, we offer the Director for that district the opportunity to speak to the media and answer their questions. Staff continues to coordinate subject matter experts.

We also support the Board with a monthly guest column for their use, as well as producing letters to the editor and op-eds.

This winter has been a particularly busy one for media. The issue with the spillway at Oroville Dam focused media attention on all dams, including significant interest in the unrestricted and restricted capacity of Anderson Dam as well as its seismic stability.

Flooding in San Jose along Coyote Creek heightened that interest, and the intense volume of media inquiries caused by the floods led the unit to hire Singer Associates, a crisis communications firm, to assist in managing media inquiries and getting the District's message out to the community about the District's role in assessing and preventing flooding to the extent possible.

The transition from the drought to flooding has been intense, and the resulting media scrutiny has mirrored that intensity. The joining of Communications and Government Relations has helped provide a deeper bench of people available to disseminate important messages, and the change in procedure to offer opportunities to Board members has allowed the District to provide higher-level information to reporters.

Reaching all the people in the county is a priority for the District, and our working relationships with ethnic media outlets help us to expand the communities we touch. We will continue to work with these partners, and offer opportunities to the Board members to work with them as they arise.

While the recent winter has dramatically improved the current water supply outlook, the District remains focused on long-term water conservation needs and the promotion of water conservation as California's way of life. The 2016 Value Our Water campaign will continue in 2017 with additional elements to promote an on-going commitment to using water wisely.

#### *Flood awareness*

As part of its annual effort to raise awareness about the potential for flooding in Santa Clara County, the District conducted a flood awareness campaign that included radio and online ads, print ads in ethnic media, mall and transit shelter posters, billboard messages, Nextdoor messages, and boosted Facebook posts. There were also three targeted e-mail messages delivered to homeowners in floodplains on behalf of Chair Varela.

At the time of this agenda memo, the media buyer had not yet provided a final campaign report. Preliminary results of the paid media portion of the campaign indicate a total of 28 million impressions, up from the 24 million reported last year. The campaign launched the first week of January, with radio alerts timed to coincide with stormy weather, and ran through April 2017, with the heaviest messaging during the months of January through March.

This winter's flooding and extensive rains have prompted us to devise new ways of reaching more people with our flood preparedness message. Contingent upon budget approval, we anticipate taking a more grassroots approach to flood awareness, especially in areas impacted by flooding. For example, we plan to do tabling at busy neighborhood spots to get out the message about flood risks and family preparation. We will roll out our next flood awareness campaign beginning in November.

#### *Annual report/calendar*

To streamline the District's publications and to make the best use of District resources while reaching the public more effectively, Communications combined the annual report with the countywide mailer and calendar last year. The countywide mailer is sent to every household in Santa Clara County — almost 700,000 homes. The annual report had not been produced for some time, and the calendar has proven popular every year.

The resulting publication highlighted the District's accomplishments and looked ahead to upcoming projects. However, instead of mailing the calendar out to every home in the county, staff mailed a postcard inviting people to view the annual report online — an effort to reach people where they are more likely to go — and to sign up to receive the calendar in the mail. The calendar contained the annual report information, and we mailed it to 4,467 interested community members.

While this streamlining served us well last year, this year, we plan to take advantage of increased opportunities provided by the mailer's extensive reach to disseminate educational materials on flooding. With flooding fresh in people's minds, we believe they will be more receptive to messages about preparing for potential floods and how to protect themselves, their loved ones and their homes and businesses. An expanded mailer should allow us to maintain or even increase the number of points we acquire through the Community Rating System from the federal government, which benefits those who must purchase flood insurance.

This will also tie into our efforts to strengthen our connection to the community and to ensure that the community sees the District as a valuable resource and neighbor. This is connected to our branding effort's perception poll, scheduled for June. Understanding how the community sees us will help us assist the Board in further developing strong relationships with the community.

#### *Smartphone app*

Reading what's on our intranet, [aqua.gov](http://aqua.gov), can be difficult for those who work out in the field or who are away from their desks, as the site can only be accessed from within the firewall.

To allow employees more access to critical employee information, we are developing a smartphone app so employees can stay abreast of what is happening in the organization. The app will also allow Communications to send push notifications for emergency notices from upper management. The app was rolled out District-wide in May.

Community outreach and engagement activities allow Board members and the District to be visible in the community and make direct contact with members of the public. Since the joining of the Communications and Community Outreach unit with the Office of Government Relations, opportunities for the Board members to engage with their constituencies are better coordinated and aligned with the priorities of the Board of Directors in serving their districts.

The use of technology and other outreach tools increase the options for the public in how they receive information and engage with the District.

### *Nextdoor*

In September, the District became one of the government agencies allowed to post to Nextdoor, a neighborhood-based social media platform. Working collaboratively with Government Relations, we are sending all-county messages as appropriate, high-priority flood messages and project-specific messages targeted to specific neighborhoods. The Nextdoor messages have been an opportunity for Board members to directly communicate with the areas they represent.

The ability to target our audience in Nextdoor means that people are receiving timely messages appropriate for their neighborhood. It is an effective outreach tool in our community engagement toolbox and supplements the important work that our engagement specialists do.

This is in addition to the use of Facebook and Twitter to get our messages out, as well as the Valleywaternews.org blog and the eNewsletter, which now reaches more than 26,000 subscribers. Through the media update, sent to Board members when there has been media interest in the District, we encourage Directors to post the stories and tweets from our accounts to their own social media networks, thus broadening the number of people who receive District messages.

### *Live-streaming meetings*

We have begun live-streaming key Board and community events on Facebook Live to increase our accessibility and provide greater opportunities for residents to engage with and learn about District projects and issues.

We launched the service at the beginning of this year with the appointment of Chair Varela, and we recently live-streamed the Anderson Dam Seismic Retrofit Community Update and two of the Flood Response public meetings. The live-streamed meetings netted over 1,300 viewers with several questions submitted. This effort is still in the pilot stage while we further refine its use and effectiveness in supporting District projects and initiatives.

### *Project map*

This summer we expect to launch a project map tool using GIS that allows the public to search for District projects in their respective neighborhoods. The map will include interactive, mobile-friendly features including direct links to project information, project webpages and a form to sign up to receive project information via e-mail. We expect this tool to make us more accessible to the public and to increase public awareness of the benefits of District investments in water quality, flood protection, and stream stewardship.

### *Events and meeting calendar*

The District hosts public meetings on projects, as well as water conservation workshops, and sponsors and attends various community festivals and events throughout the year. Event and meeting publicity is done through mailed notices, social media posts, newspaper and online advertisements, stakeholder collaboration, e-mail lists and partnerships, and Nextdoor. A public events and meeting calendar will consolidate all information on these events and meetings, providing the public with a single District source for obtaining pertinent information on them. We expect to have the calendar on the District's website by the end of summer.

### *Project outreach and engagement*

We provide strategic outreach, communications, and community relations support for 24 large capital projects and five small capital projects. These projects are in various stages from planning to construction and require public input or awareness on the impacts to the neighborhood.

As the District moves forward with critical seismic and reliability, flood protection and stream stewardship projects, Santa Clara County residents will benefit from the new tools listed above. In identifying public meeting dates, Directors are consulted as these projects are in the communities they represent and their engagement is integral to all District project outreach and engagement efforts.

#### *Public engagement*

Open house events allow the District to educate the public on the various projects, programs, and services we provide. More than 230 residents visited the Penitencia Water Treatment Plant at an open house held in August. Ninety-nine percent of attendees rated the event as informative and 100 percent stated that it “boosted their understanding of how drinking water is treated.” The next open house will be at the Santa Teresa Water Treatment Plant in the fall.

#### Recycled and Purified Water Outreach

To secure support for a locally sustainable and drought-resistant water supply, we must continually promote public awareness of the District’s potable reuse efforts. To achieve that, we are building a widespread support base of key stakeholders and local community leaders who will provide active support for purified water and the Expedited Purified Water Program. The Directors will play a significant role in this strategy through specific engagement opportunities, particularly in the communities they represent.

#### *Surveys*

In January, the District used a research firm to measure the public’s acceptance for recycled water and its potential use as a future source for drinking water. The firm conducted a phone survey of 800 randomly chosen Santa Clara County voters in English, Chinese, Spanish and Vietnamese. Although the survey revealed useful information specifically related to the Asian community, concern over the framing of questions and definition of terms were raised, leading to calls for a new survey that better defines the terms of direct and indirect potable reuse. The survey was targeted for spring and results will help further define the District’s outreach strategy with key messaging and identify specific focus areas.

We are also compiling data from monthly surveys collected from Silicon Valley Advanced Water Purification Center visitors. In February, feedback from 56 individuals revealed at least 85 percent support for the potable reuse of recycled purified water.

#### *Tour program*

The Silicon Valley Advanced Water Purification Center continues to draw a wide variety of stakeholders for tours, including those from educational institutions, neighboring cities and public agencies.

#### *Ethnic outreach*

The communities served by the District are ethnically and culturally diverse. The outreach for purified water programs is reflective of this diversity by including ethnic-focused events. In 2016, we held a Latino Community Day to reach a multicultural audience, specifically families from the nonprofit Somos Mayfair organization.

To address skepticism from the Asian community for recycled water usage, as revealed in the January 2017 telephone survey, a community engagement plan developed specifically for the Asian community emphasizes partnerships with community- and faith-based organizations, and promotes speaking and traditional and social media engagements for the District’s Board and staff. Program staff are updating collateral materials to reflect these communities in a manner that promotes the message that the water is pure and new. On July 15, we will hold an Asian Community Day at the Purification Center.

#### *Social media*

Program staff consistently rely on social media channels, such as the District’s Facebook page, to connect on a weekly basis with users to promote the Recycled Water Program and ongoing tours at the Purification Center. We will continue to broaden our use of social media by increasing paid advertisements to reach users

beyond the existing network. Facebook has effectively assisted in boosting the level of interest in tours at the center.

#### *Employee engagement*

In addition to our external audiences, we are emphasizing outreach to our employees, believing that employee buy-in for recycled and purified water is crucial to winning public support.

#### *Community engagement*

Outreach for the Recycled Water Program will continue to evolve as the year progresses. Community outreach was key to the success of other communities introducing purified recycled water into their water supply portfolio. Board members have a key role in leading this charge through one-on-one conversations and presentations in the communities they represent. Additional tactics include:

- Increasing the number of speaker bureau opportunities for Directors to promote the program in their districts;
- Developing an employee ambassador program that empowers employees with a deep knowledge about recycled purified water so they may serve as key messengers in the community;
- Fostering stronger partnerships with regional public information officers to help promote purification center tours and speaker bureau engagements; and
- Launching a campaign of posters to be placed throughout District facilities that promote the recycled water message, as part of the internal outreach effort.

#### **ATTACHMENT(S):**

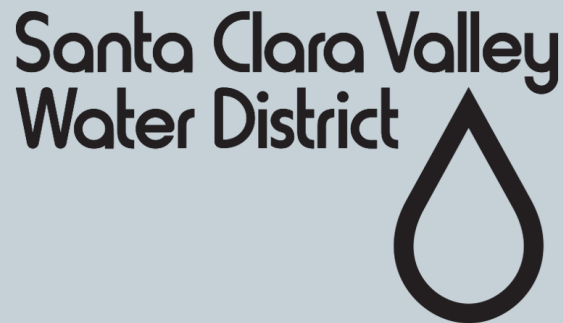
Attachment 1: PowerPoint Presentation



# Communications & Community Engagement Board Update to the Environmental and Water Resources Committee

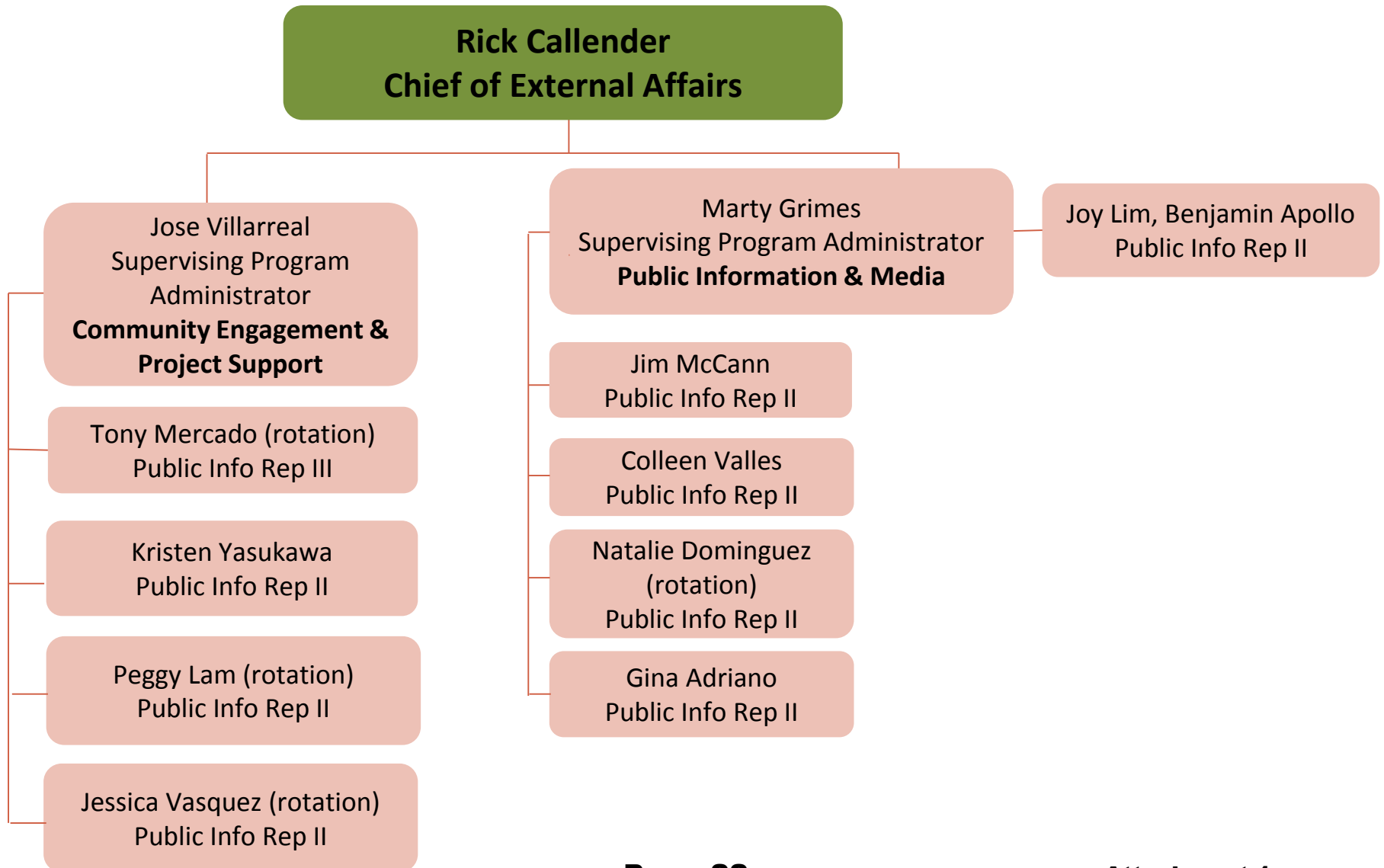


**July 17, 2017**



Providing Silicon Valley  
safe, clean water for a  
healthy life, environment and  
economy.

# Working together



# Leading with the Board





# Developing our brand

# Using new tools





OPEN: Management  
Analyst I  
4 days ago



OPEN: Water  
Resources Technician  
II  
4 days ago



OPEN: Associate Civil/  
Mechanical/Electrical  
Engineer



News Feed



Explore



Alerts



More

# Keeping employees informed

# Emergency response



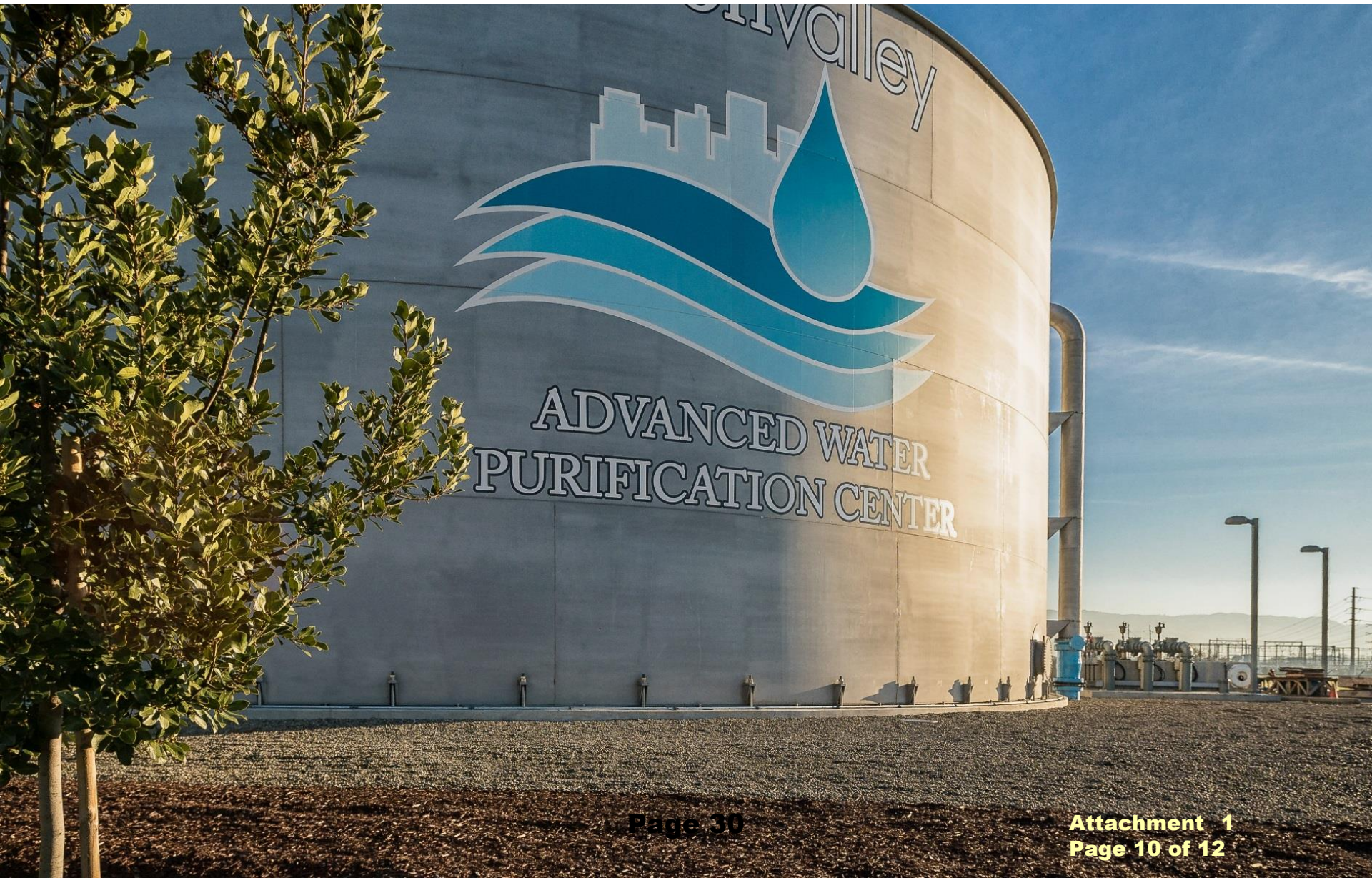
# Community engagement



# Project outreach



# Water for the future



# Seeing is believing



# Continued momentum





Committee:	Environmental and Water Resources
Meeting Date:	07/17/17
Agenda Item No.:	4.3
Unclassified Manager:	Ngoc Nguyen
Email:	<a href="mailto:nnguyen@valleywater.org">nnguyen@valleywater.org</a>
Est. Staff Time:	15 minutes

## COMMITTEE AGENDA MEMO

**SUBJECT:** Board Feedback on the Safe, Clean Water and Natural Flood Protection Program (Safe, Clean Water Program)

### RECOMMENDED ACTION:

This is an information only item and no action is required.

### SUMMARY:

#### *Safe, Clean Water Program Overview*

On November 6, 2012, voters approved the Safe, Clean Water Program as a countywide special parcel tax for 15 years with a sunset date of June 30, 2028. This program replaced the Clean, Safe Creeks and Natural Flood Protection Plan, which voters approved in November 2000. The Safe, Clean Water Program addresses the following needs, values, and priorities as identified by Santa Clara County stakeholders:

**Priority A:** Ensure a safe, reliable water supply

**Priority B:** Reduce toxins, hazards and contaminants in our waterways

**Priority C:** Protect our water supply from earthquakes and natural disasters

**Priority D:** Restore wildlife habitat and provide open space

**Priority E:** Provide flood protection to homes, businesses, schools, and highways

Each of these priorities has specific operational and capital projects, which have Key Performance Indicators (KPIs) meant to keep them on track to meet the overall program priorities. Additionally, the Program requires the Santa Clara Valley Water District (District) to prepare an annual report providing a progress update and fiscal year accomplishments for each project. Also, to ensure transparency and accountability, the Program requires that the annual report be reviewed by an Independent Monitoring Committee (IMC) of volunteers appointed by the District Board of Directors (Board).

The report provides the status of each project's progress towards accomplishing its KPIs and targets established in the 5-Year Implementation Plan. Each project's status is described by one of the following five categories:

**On Target:** Status indicates the project is on track to meet targets

**Adjusted:** Status indicates the potential that targets will not be met and implementation required adjustment (future year status' will be based upon the adjusted project targets)

**Not on Target:** Status indicates that the target has not been or will not be met

**Modified:** Status indicates the Board formally modified the project following a public hearing (future year status' will be based upon the modified project targets)

**Scheduled to Start:** Status indicates that the project is scheduled to start in a future fiscal year

In the Fiscal Year 2015-2016 Safe, Clean Water Annual Report, of the 38 projects under the Safe, Clean Water Program, 74%, or 28 projects, are on target; 21% (8 projects) required schedule adjustments; 2.5% or 1 project is not scheduled to start until Fiscal Year 2025; and 2.5% or 1 project was completed and closed out.

Each September, the Board receives the draft annual report, with unaudited financials for their review. The draft annual report also contains any proposed text adjustments. Per authorization from the Board, staff finalizes the draft report with the audited financials in October and submits the final version to the Board and the IMC in November each year. The IMC then reviews the annual report and submits its own report regarding the District's performance and progress toward accomplishing the Safe, Clean Water Program KPIs.

The Board's feedback, to date, regarding the Safe, Clean Water Program has been positive. The Board has been appreciative of staff's work toward accomplishing the KPI's and has praised the positive working relationship between staff and the IMC. The Board has been especially appreciative of the IMC's role and the members' dedication and time spent reviewing the annual reports in great depth. Board's feedback regarding the Safe, Clean Water Program can be found in the meeting minutes posted here:

<http://valleywater.org/About/BoardMeetings.aspx>.

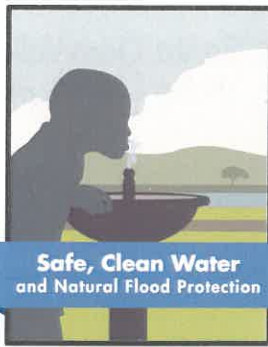
#### **BACKGROUND:**

Year four of the Safe, Clean Water Program just ended and the District is in the process of developing the Fiscal Year 2016-2017 Annual Report. The annual reports for year's one through three can be found on the District's website at: <http://www.valleywater.org/SCWAnnualReports/>. The IMC's reports in review of the annual reports can be found here: <http://valleywater.org/SCWIMC.aspx>.

To date, the District has held two public hearings for modifications to the Safe, Clean Water Program. The first was held on June 10, 2014 for modification to the San Francisquito Creek Flood Protection Project. The second was held on June 13, 2017 for modification to the Coyote Creek Flood Protection Project.

#### **ATTACHMENT(S):**

Attachment 1: Safe, Clean Water Fact Sheet



## Safe, Clean Water and Natural Flood Protection Program

Everyone needs safe, clean water and everyone needs to be safe from flooding. Safe, Clean Water is a 15-year program to secure the present and future water resources of Santa Clara County. The program ensures that critical projects will continue to be provided to the community in the following key priority areas:

- A. Ensuring a safe reliable water supply
- B. Reducing toxins, hazards and contaminants in our waterways
- C. Protecting our water supply from earthquakes and natural disasters
- D. Restoring wildlife habitat and providing open space
- E. Providing flood protection to homes, businesses, schools, and highways

These are priorities that the Santa Clara County community clearly cares about. Voters approved the special parcel tax initiative in November 2012 with nearly 74% in favor.

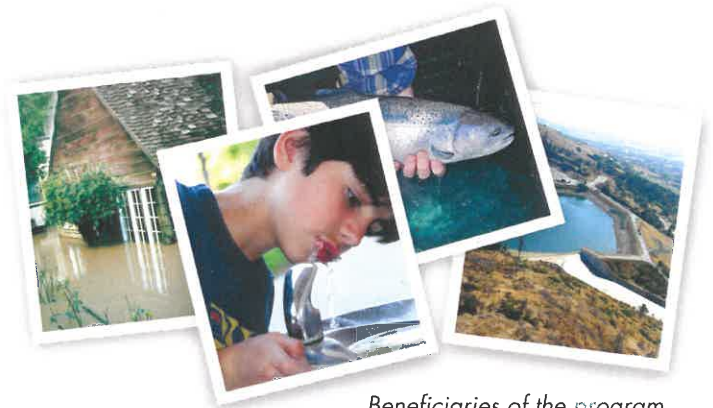
## Stakeholder engagement

We designed this program to reflect the community's values. The program development included direct input from more than 16,000 residents. Development of the 5-year implementation plan also included community and stakeholder outreach.

Because this program is for the community, we want to make sure the community is informed on the status of the Safe, Clean Water projects. The district has created a program website at:

[www.valleywater.org/safecleanwater.aspx](http://www.valleywater.org/safecleanwater.aspx)

The website provides updated information on the accomplishments, progress, financial expenditures and status, and grants/partnerships opportunities.



*Beneficiaries of the program*

## Monitoring progress and expenditures

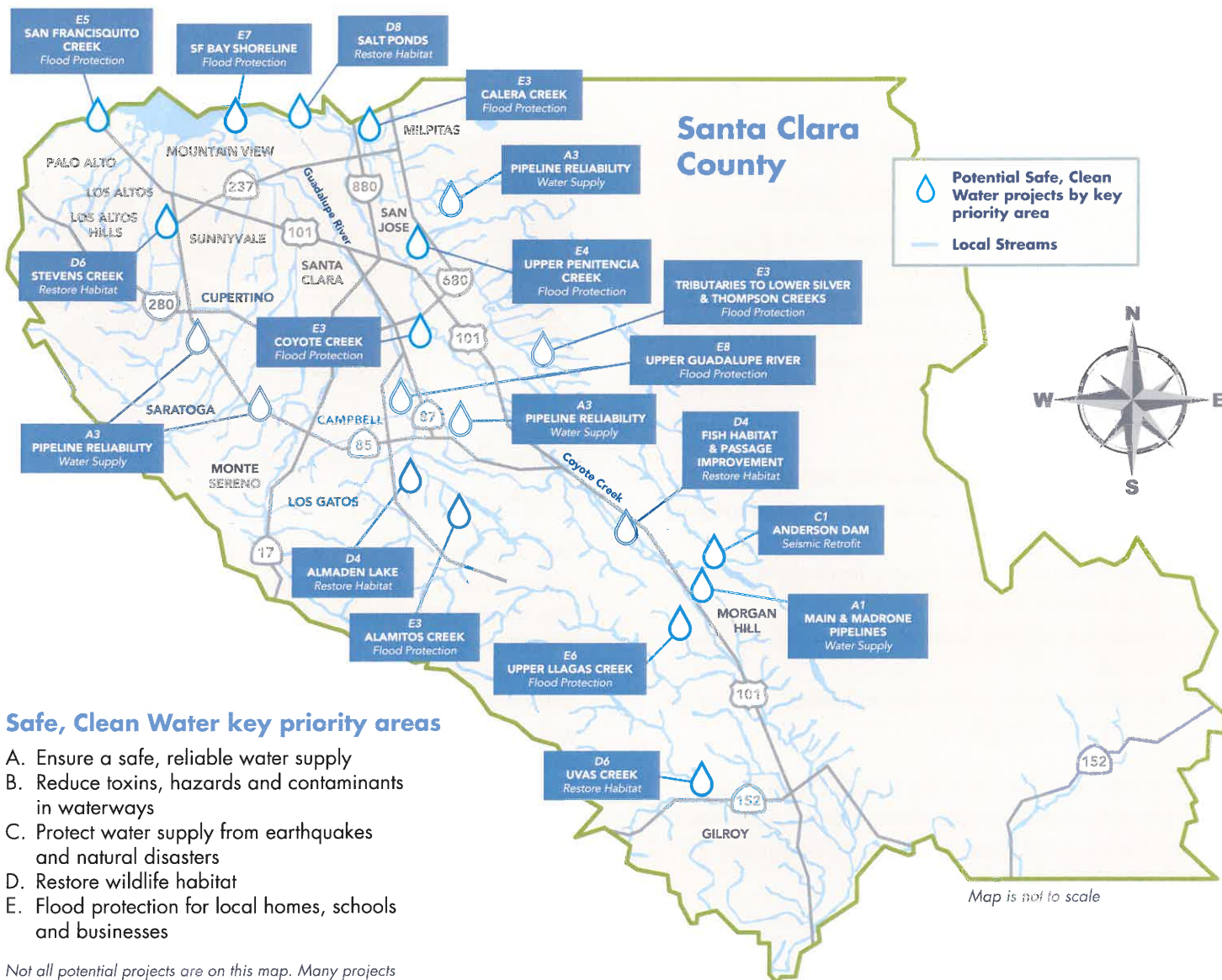
We want to make sure we stay true to our commitments and fulfill the community's expectations. The implementation and progress of the Safe, Clean Water program includes external oversight by an Independent Monitoring Committee (IMC). The IMC will monitor progress and expenditures according to Key Performance Indicators established for each project. The IMC will be conducting annual audits and reports of the program. In addition, on the fifth and tenth year of the program, the Board of Directors will commission independent professional audits and recommend any needed adjustments.

## Implementation plans

In order to ensure continuous monitoring, tracking and oversight of the program, the district adopted a 5-year implementation plan that began in fiscal year 2014. The implementation plan outlines targets toward the completion of the Key Performance Indicators and provides for periodic adjustments to reflect any economic, policy or regulatory changes during the 15-year program. Two additional 5-year implementation plans will follow in fiscal years 2019 and 2024.

Progress toward completion of the targets outlined in the 5-year plan will be measured on an ongoing basis and presented in an annual district report, along with published program expenditures.

# Entire county benefits from Safe, Clean Water projects



Not all potential projects are on this map. Many projects benefit the entire county and are not located on the map. For details, visit [www.valleywater.org/safecleanwater.aspx](http://www.valleywater.org/safecleanwater.aspx).

## CONTACT US

For more information, contact **Ngoc Nguyen** at **(408) 630-2632**, or visit our website at [valleywater.org](http://valleywater.org) and use our **Access Valley Water** customer request and information system. With three easy steps, you can use this service to find out the latest information on district projects or to submit questions, complaints or compliments directly to a district staff person.

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To get eNews, text **VALLEYWATER** to **22828**.



Committee:	Environmental and Water Resources
Meeting Date:	07/17/17
Agenda Item No.:	4.4
Unclassified Manager:	Vincent Gin
Email:	<a href="mailto:vgin@valleywater.org">vgin@valleywater.org</a>
Est. Staff Time:	20 minutes

## COMMITTEE AGENDA MEMO

**SUBJECT:** One Water Plan – July 2017 Update

### RECOMMENDED ACTION:

- A. Receive information and discuss District's One Water Plan.
- B. Make recommendations regarding types of water resource management opportunities to prioritize
- C. Make recommendations on stakeholder groups to engage for Santa Clara County watershed-based planning

### SUMMARY:

This item is being brought before the Environmental Water Resources Committee (Committee) based on previously expressed interest in the One Water Plan. One Water is the District's integrated water resources master plan, providing a 50-year roadmap for improved water resources management in Santa Clara County. This update will discuss coordination with additional planning efforts that consider water resources in Santa Clara County; challenges and constraints for water resources management; opportunities for improvement in water resources management, and next steps including additional stakeholder engagement. The project team requests Committee member comments on the work to date, as well as recommendations and ideas regarding opportunities for better water resources management and stakeholder engagement, especially as it pertains to environmental water resource/ecological resource topics.

### BACKGROUND:

#### One Water

Master planning efforts to date under One Water have resulted in a framework of a vision, goals, objectives and strategies, metrics associated with the objectives, a draft countywide report with identification of policy issues and large scale programs and projects for further consideration, and a comprehensive list of District and stakeholder input regarding opportunities in Coyote Watershed.

While stakeholder engagement was primarily done through a centralized Stakeholder Work Group (SWG) over the last two years, additional input was sought from municipalities and areas the District felt required additional representation, including community groups and agricultural representatives.

#### Related Efforts

Due to the multi-faceted nature of the One Water Plan it is not difficult to identify relevant planning efforts for coordination in our county. A few that have a substantial connection to One Water and its various water resource-related elements include: Pajaro Compass, Valley Greenprint, Resource Conservation Investment Strategy (RCIS), and the Stormwater Resource Plan (SWRP). All four efforts included stakeholder engagement, are multi-objective, and may lead to future partnerships that support One Water.

### *Pajaro Compass*

A planning effort looking to utilize volunteer conservation to increase the scale and pace of conservation in the Pajaro Watershed, which includes lands within Santa Clara County up to Morgan Hill. The effort encompasses the District's Uvas-Llagas watershed and considers similar One Water planning topics such as water resources, agriculture, climate change, and biodiversity.

### *Resource Conservation Investment Strategy (RCIS)*

RCIS is a new program being led by Santa Clara Valley Open Space Authority (OSA) to identify priority conservation areas to guide public and private conservation investments to conserve rare species. This effort is intended to compliment local habitat conservation plans (HCPs) and Natural Community Conservation Plans (NCCPs) such as the Valley Habitat Plan. The Strategy is tied to the Valley Transportation Authority's Measure B in that it can help fund large scale mitigation and conservation related to transportation project impacts. This effort is related to One Water due to its large-scale planning and identification of priority conservation actions.

### *Stormwater resource Plan (SWRP)*

The SWRP for the Santa Clara Basin within Santa Clara County will support the development and implementation of Green Infrastructure (GI) Plans within the Basin and produce a list of prioritized runoff capture and use projects eligible for future State implementation grant funds. These projects will improve water quality, reduce localized flooding, and increase water supplies for beneficial uses and the environment. This plan is being carried out by the District and Santa Clara Valley Urban Runoff Pollution Prevention Program (SCVURPPP) and will be coordinated with multiple efforts including the City of San Jose's Green Infrastructure Plan and storm drain master plan. The plan will tie into One Water through its existing Stakeholder Work Group as well as the multiple water resource elements under consideration including water quality, habitat, flood protection, and water supply and demand.

### *Valley Greenprint*

This was a major planning document prepared by OSA. The plan led to the passage of Measure Q, a ballot measure that provided funding for future conservation and water resource planning activities. The Greenprint includes several aspects similar to One Water (e.g., water resources, wildlands, recreation). Finally, the plan is leading to specific partnership activities between the OSA and District in the Coyote Valley area of San Jose.

## Challenges and Constraints

One Water has taken the approach of identifying a comprehensive list of challenges and constraints across the County and now for Coyote Watershed. The challenges are not new but are being captured in a single document as they relate to the many facets of water resources, including agriculture, ecological resources, flood risk reduction, landscape resources (open space, trails and recreation), water quality, and water supply.

Challenges identified that may impact ecological resources include: water quality impairments, flooding, water supply and demand, wildlife movement, fish passage, and recreational access. In addition to these water resource challenges, climate change and development pressures present challenging circumstances. In many cases these identified challenges may be met with inventive strategies and addressed as new opportunities through a cooperative approach.

## Opportunities

New activities to address challenges are being classified as opportunities under One Water. Initial concepts, ideas and considerations are called opportunities until they are further developed into site-specific projects and programs that may be specified, prioritized and recommended for future action. These opportunities are being reviewed following three central constructs: 1) activities are considered on a watershed basis; and 2) activities are formulated as integrated and multi-objective; and 3) activities meet One Water objectives and have the potential to improve watershed health as measured by designated metrics.

For Coyote Watershed, over 320 opportunities were documented from numerous stakeholder meetings and District staff coordination. These were then filtered to a list of 65 opportunities that were more site specific. Of these 65, nine themes have emerged as general categories. These themes are included below along an example of how they relate to ecological resources. With this memo, the District requests Committee feedback on priority water resource related issues and opportunities that you would like to see addressed through One Water, whether included below or not.

<b>Theme</b>	<b>Ecological Resource Related Issues</b>
Reduce flood risks	Reduction of flood risk through integrated projects may lead to less impact to existing habitat and expanded habitat for multiple species.
Protect and add new groundwater recharge	Pervious surface/undeveloped land as an opportunity for infiltration and potentially recharge as well as habitat.
Acquire and protect lands	Preservation of open space lands for habitat.
Restore and enhance habitat	Protection of wildlife corridors and creation or enhancement of riparian corridors.
Improve fisheries	Protection and improvement of aquatic habitat
Improve water quality conditions	Improved water quality to benefit aquatic species and human health and recreation.
Reduce sedimentation	Less poor quality sediment in streams would improve water quality to benefit aquatic species and reduce maintenance.
Install green infrastructure/stormwater improvements	Stormwater capture may provide additional water for species. Reduced stormwater to streams may reduce erosion and water quality impairments.
Complete trail reaches	Trail network connectivity where feasible and not a conflict with operations and habitat.

#### Stakeholder Engagement

Moving forward with the development of One Water, the District is planning to try a new approach to gathering stakeholder input while wrapping up Coyote Watershed master planning and getting started with engagement for Guadalupe, West valley, Lower Peninsula, and Uvas-LLagas Watersheds. The proposed shift is take our presentations and discussions to stakeholder groups rather than relying primarily on a centralized stakeholder work group. These groups will be a mix of local government, non-profit and non-governmental organizations, neighborhood groups, community groups, and District Board committees. It is also envisioned that the established One Water Stakeholder Work Group be called back together for follow up meetings and that toward the end of the primary stakeholder engagement efforts, an all hands meeting be organized to share gathered input and discuss the path forward. The intent of this change in approach is to reach a broader audience, reach the community beyond the groups more typically involved, and to find common ground for shared ownership of this long term, watershed-based, water resource master plan we have come to know as the One Water Plan. With this memo, the District requests Committee feedback on groups you would like see us engage over the next fiscal year.

#### Next Steps

Next steps for One Water include:

- Discussion with District Board of Directors on policy issues related to One Water
- Analysis of mapped opportunities and additional data sets to identify priority integrated projects in Coyote Watershed
- Development of watershed-based targets for each objective and metric in One Water
- Preparation of a Coyote Watershed report
- Implement a community outreach plan on a per watershed basis

**ATTACHMENT(S):**

Attachment 1: PowerPoint Presentation

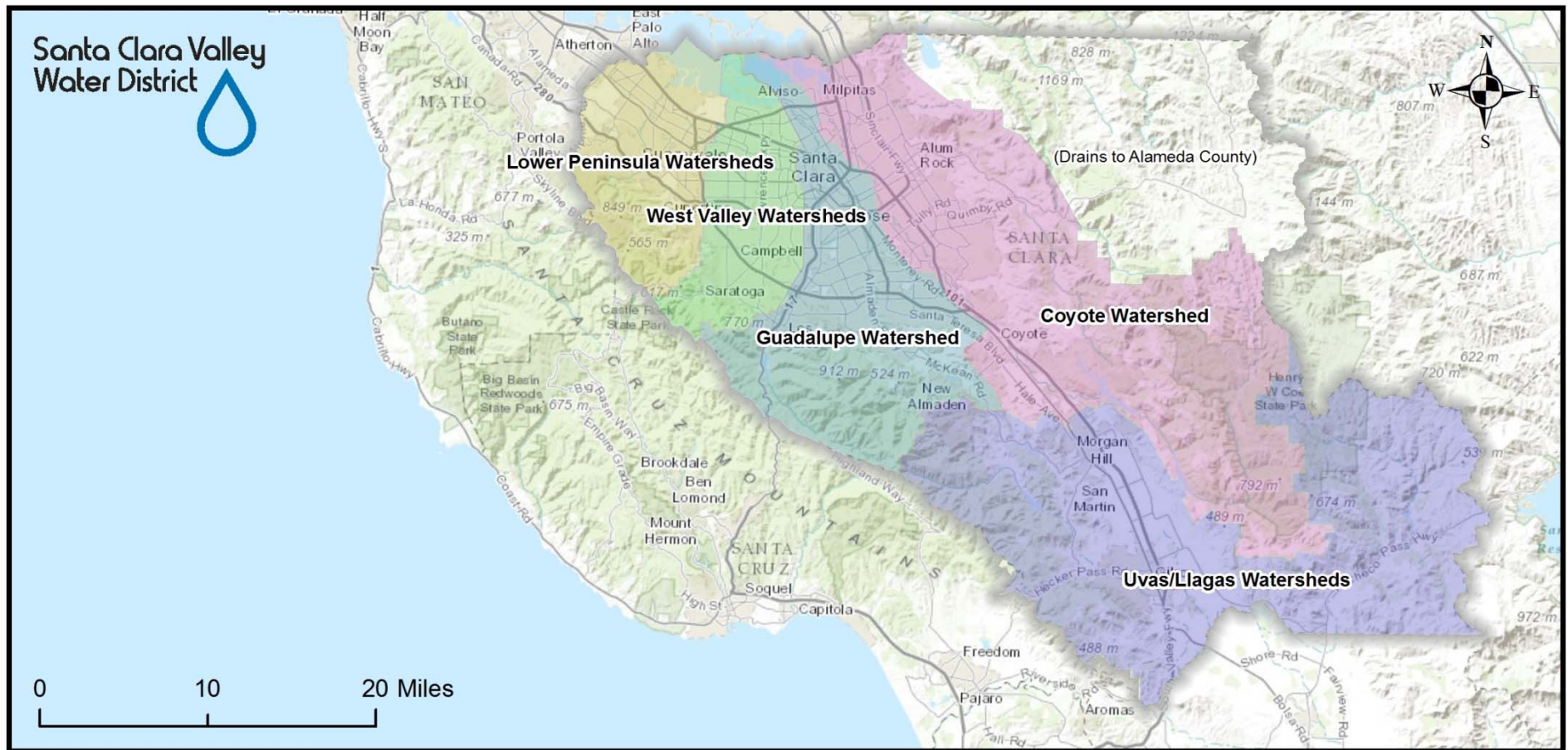
# One Water

## *An Integrated Water Resources Master Plan*

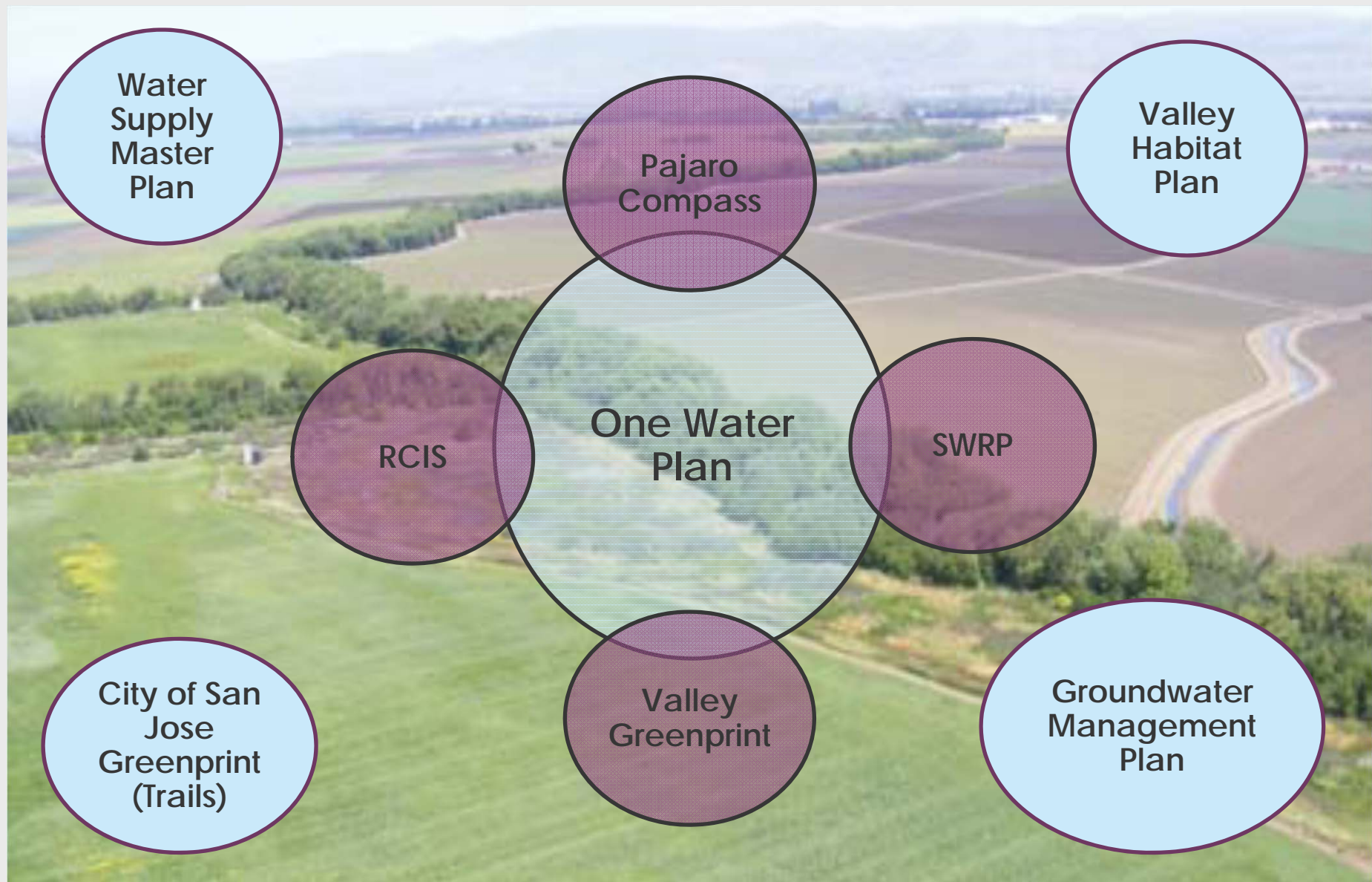
July 2017 Update



# Watershed View and an Integrated Approach



# Water Resource Related Planning Efforts

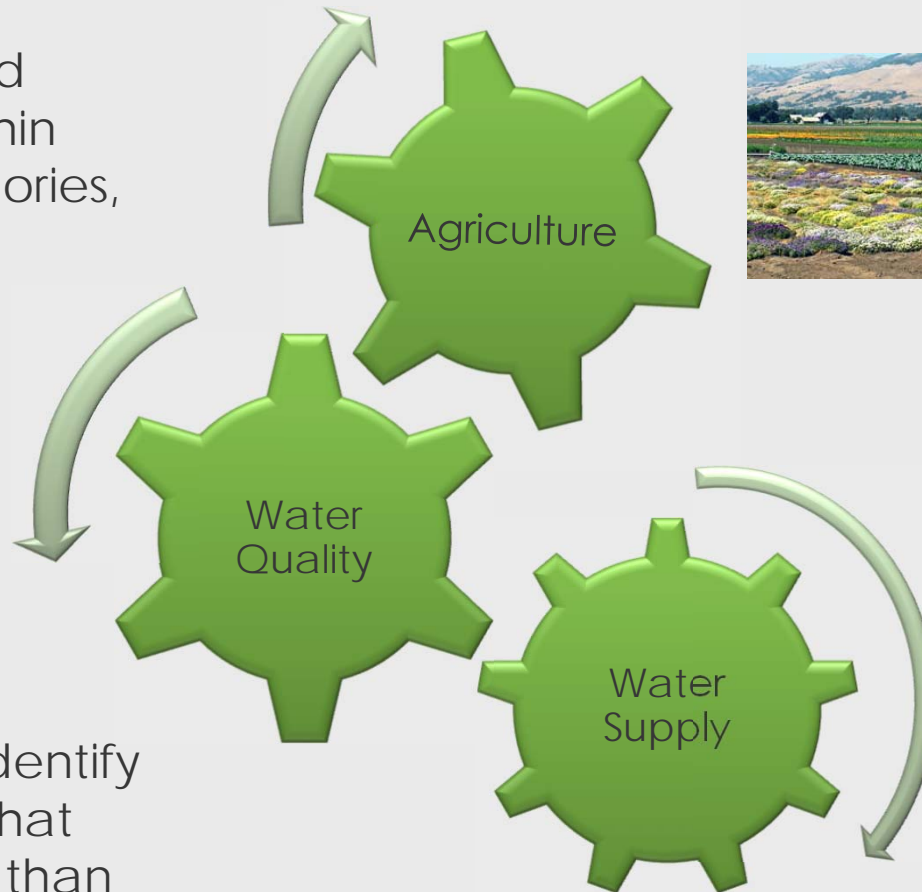


# Multi Objective Opportunities

Considering challenges and constraints within multiple categories, where is the overlap?



How can we identify opportunities that apply to more than one area of focus?

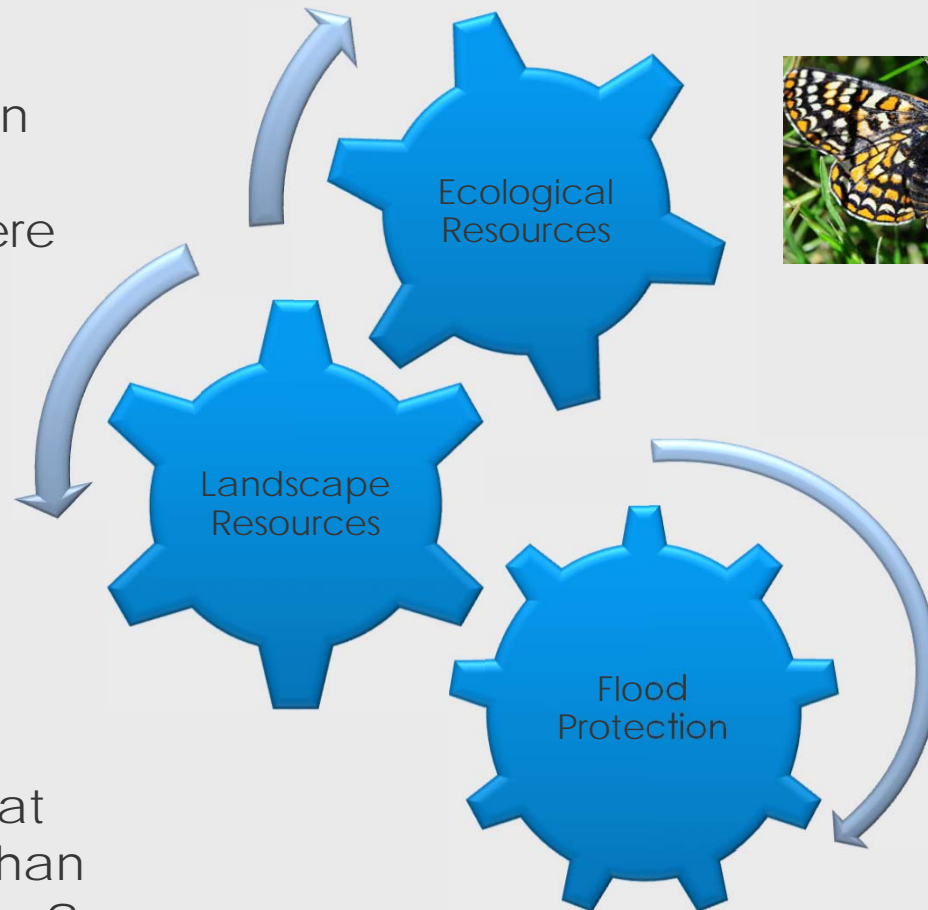


# Multi Objective Opportunities

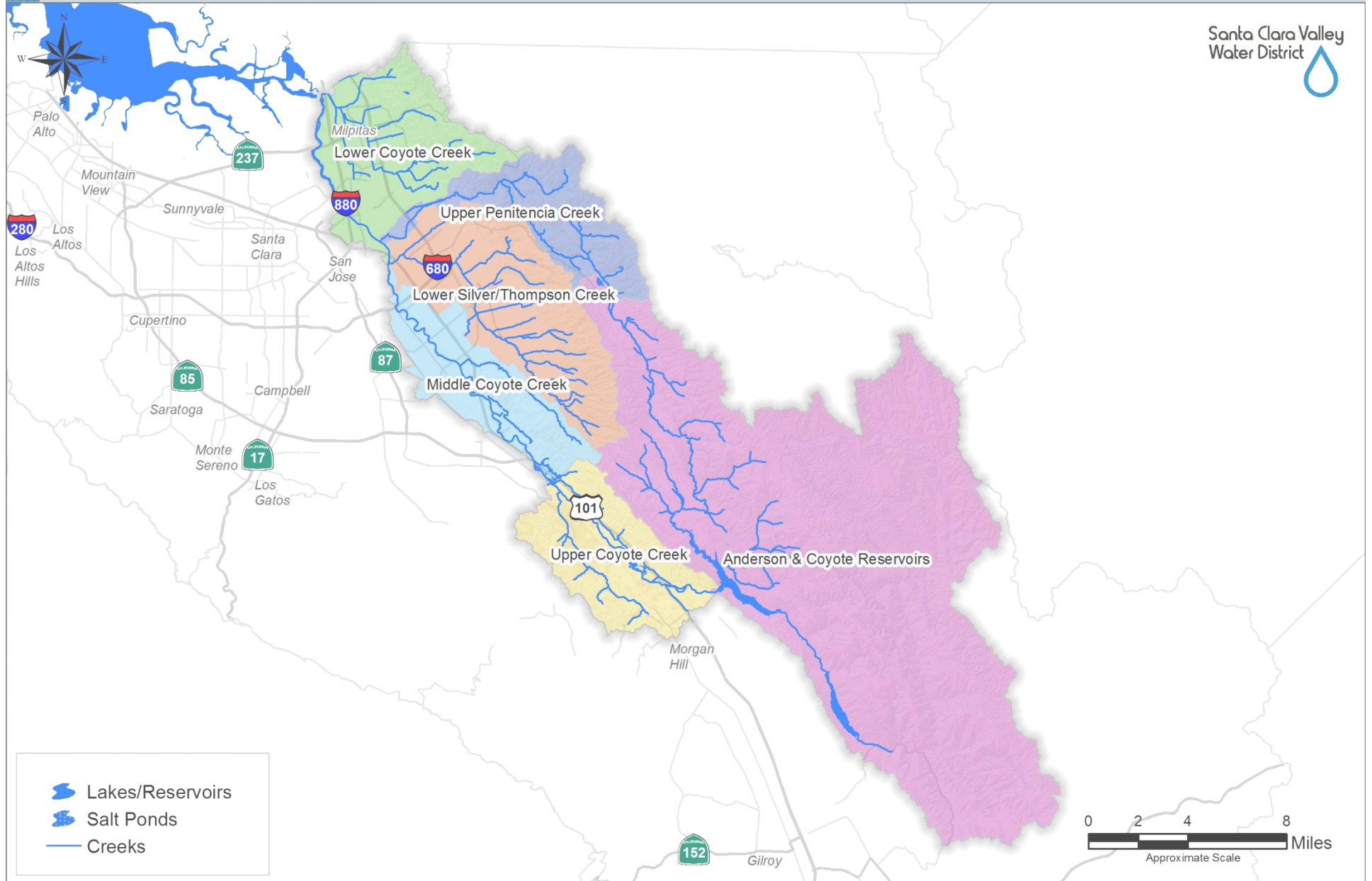
Considering challenges and constraints within multiple categories, where is the overlap?



How can we identify opportunities that apply to more than one area of focus?

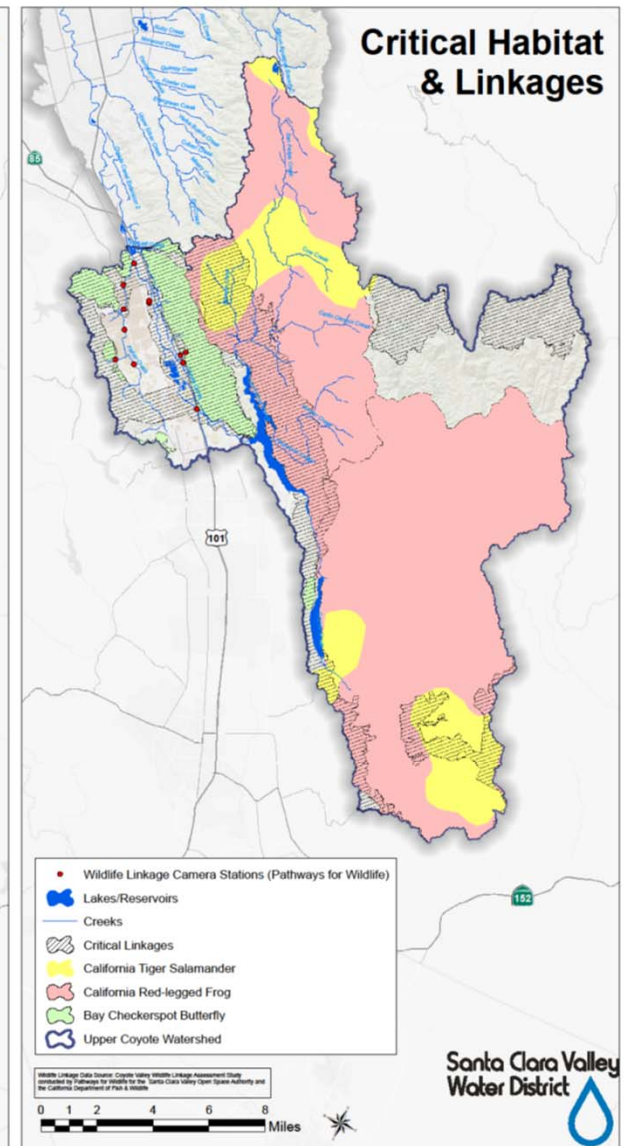
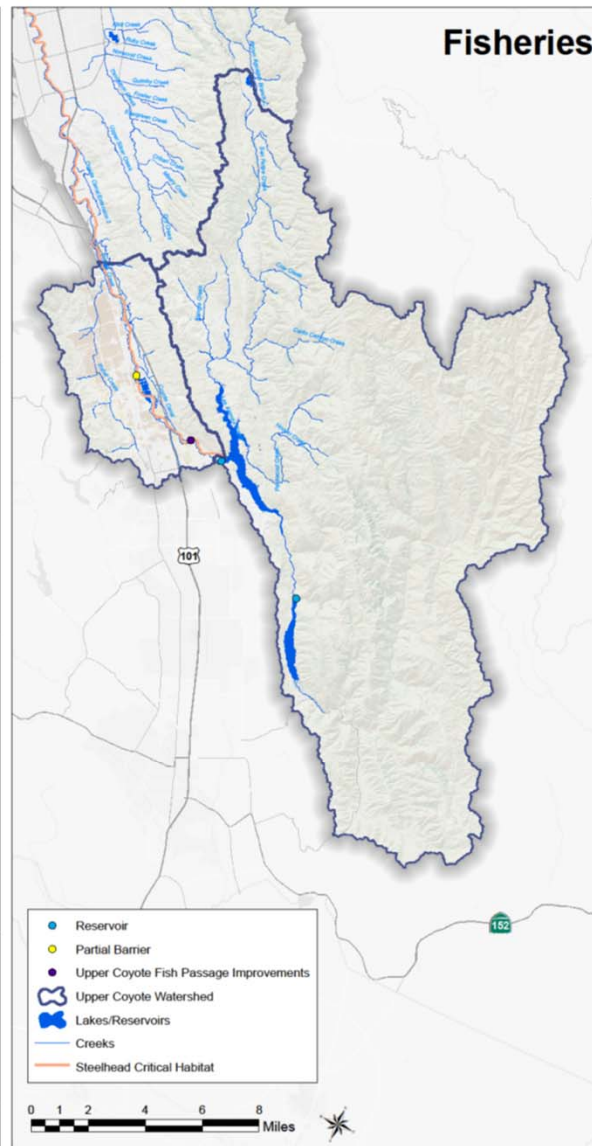
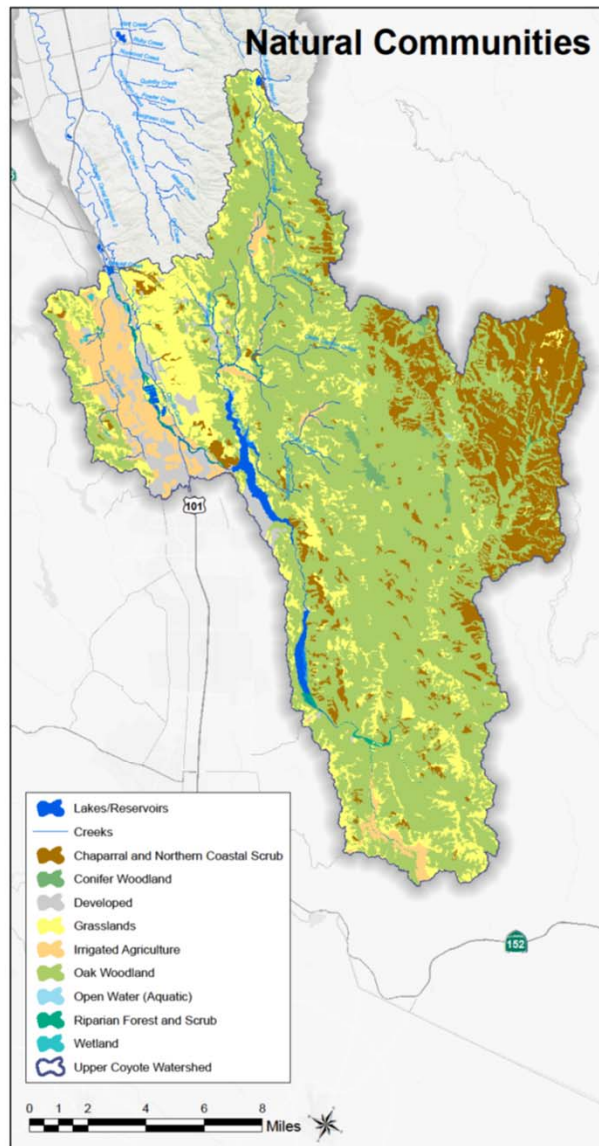


# Coyote Watershed



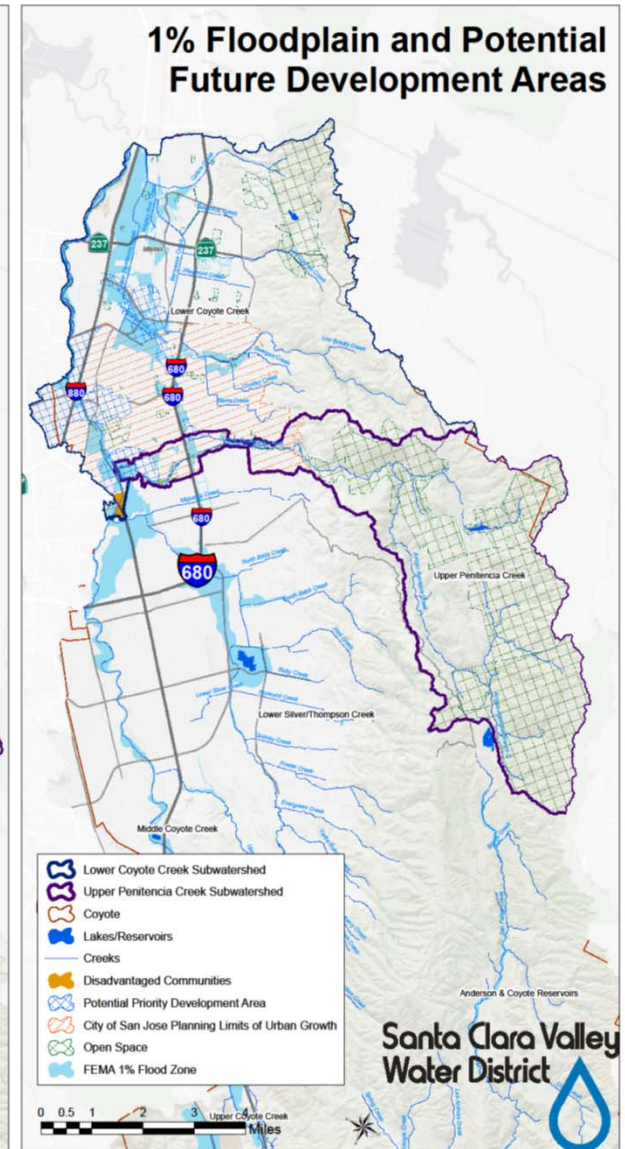
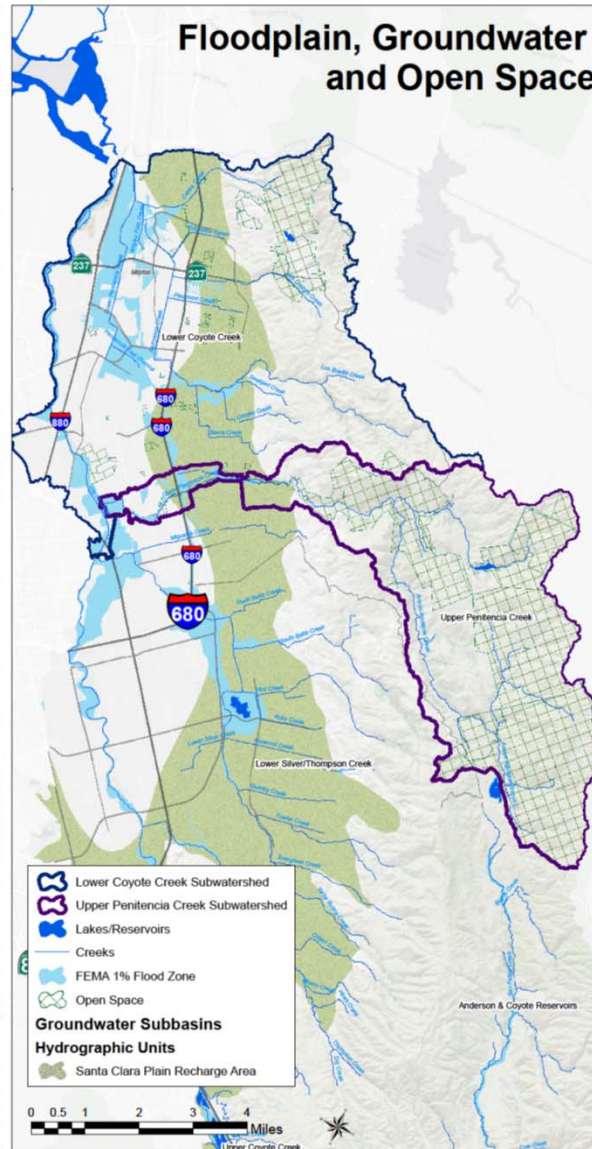
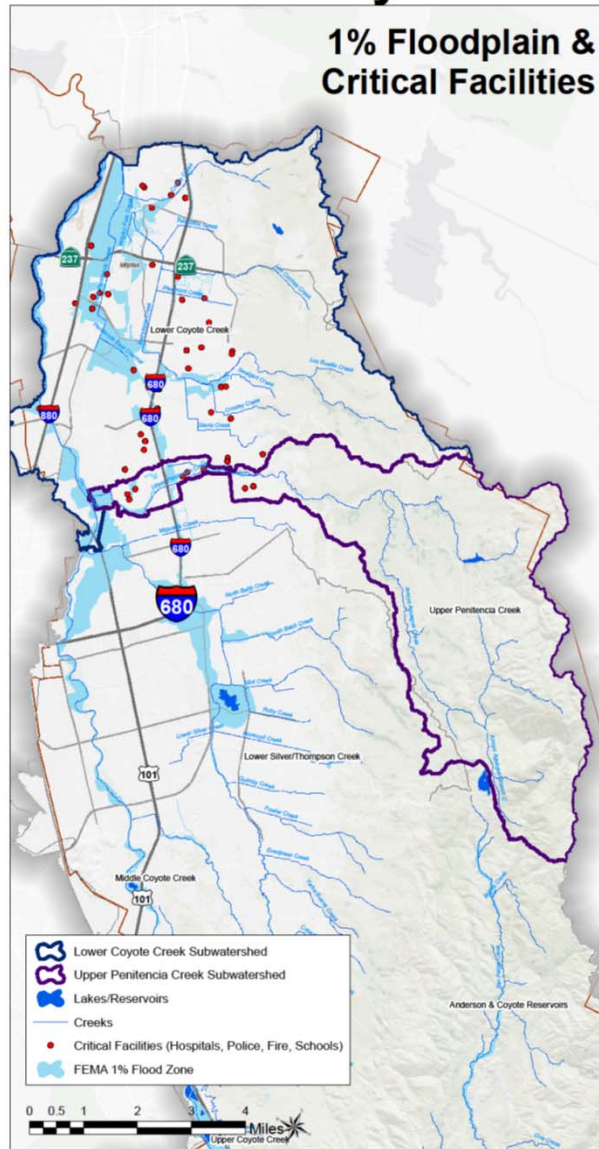
# Available Data Sets

## Upper Coyote Creek Watershed - Ecological Resources

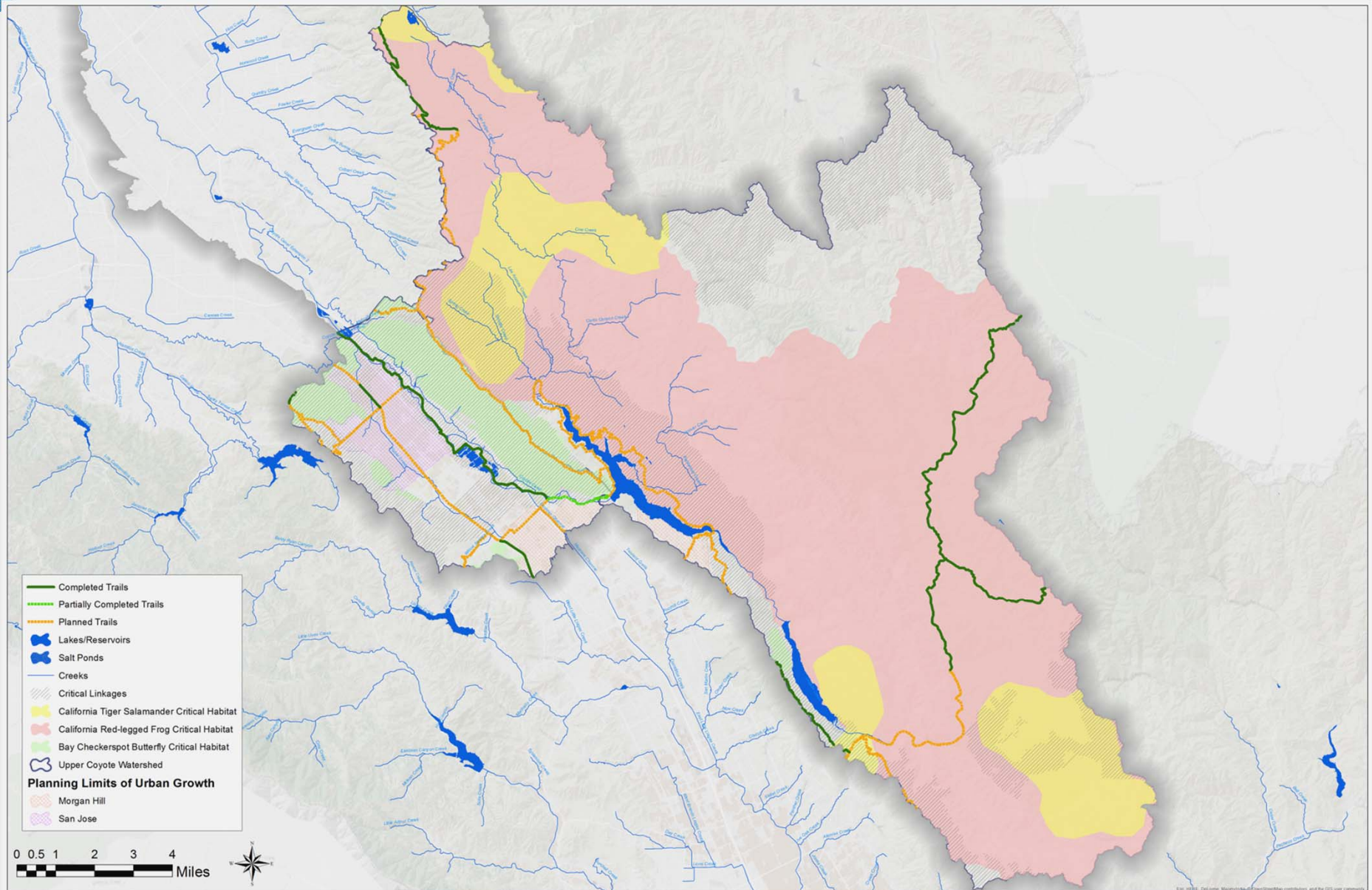


# Available Data Sets

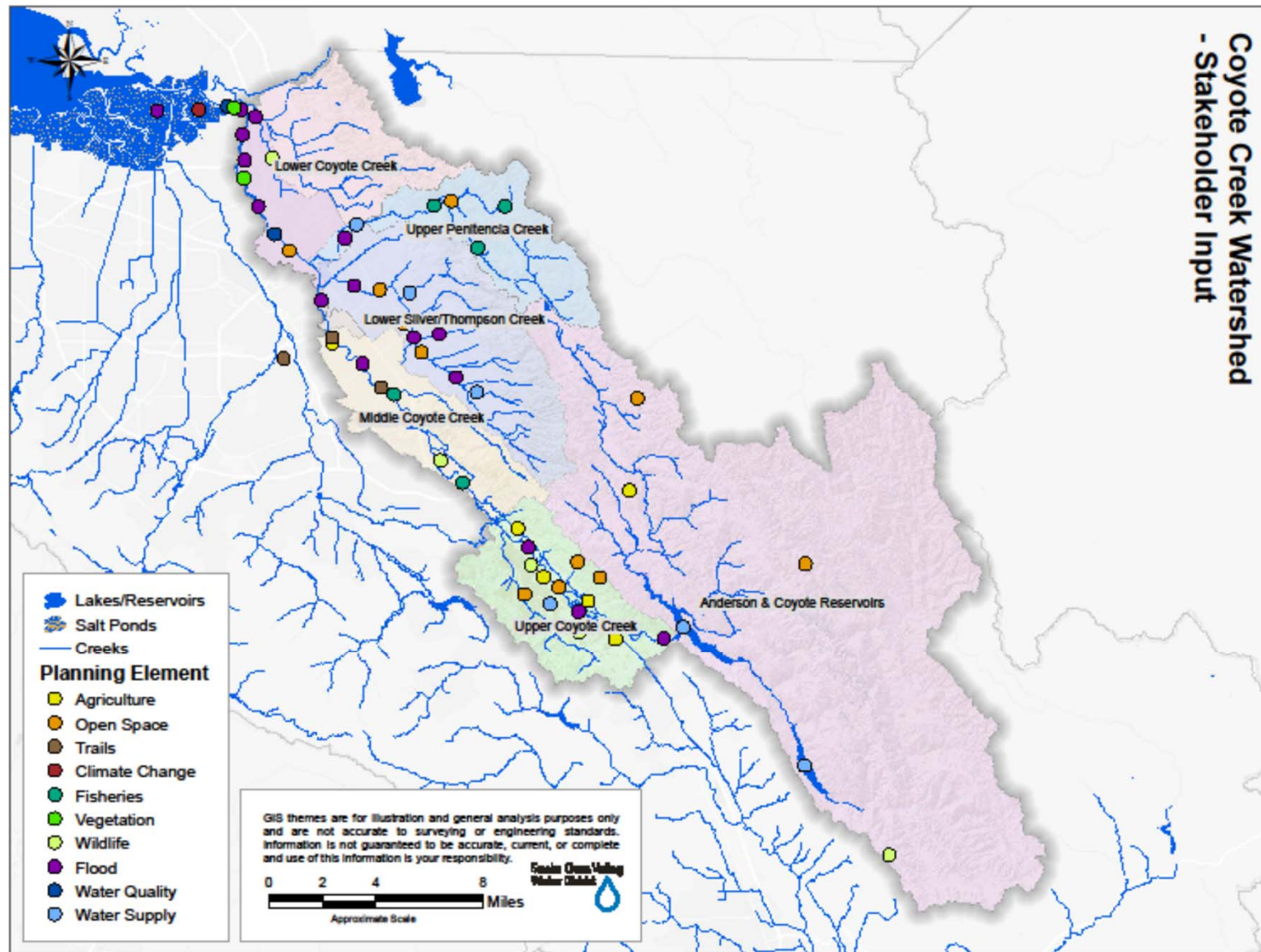
## Lower Coyote Creek Watershed - Flood Risk & Flood Protection



# Opportunities in Upper Coyote Watershed (Critical Linkages, Urban Growth, Landscape Resources)



# Capturing Stakeholder Input



# Coyote Watershed Themes

Theme	Ecological Resource Related Issues
Reduce flood risks	Reduction of flood risk through integrated projects may lead to less impact to existing habitat and expanded habitat for multiple species.
Protect and add new groundwater recharge	Pervious surface/undeveloped land as an opportunity for infiltration and potentially recharge as well as habitat.
Acquire and protect lands	Preservation of open space lands for habitat.
Restore and enhance habitat	Protection of wildlife corridors and enhancement of riparian corridors.
Improve water quality conditions	Improved water quality to benefit aquatic species.
Reduce sedimentation	Less sediment in streams may benefit aquatic species
Install green infrastructure/stormwater improvements	Stormwater capture may provide additional water for species. Reduced stormwater to streams may reduce erosion and water quality impairments.
Complete trail reaches	Trail network connectivity where feasible and not a conflict with operations and habitat.

# Stakeholder Engagement

Group	Techniques	Contact
DISTRICT		
PARTNER AGENCIES		
MUNICIPALITIES		
ELECTED OFFICIALS		
GENERAL PUBLIC		
RESIDENTS		
SCHOOLS		
BUSINESSES		
ENVIRONMENTAL and NON-GOVERNMENTAL GROUPS		
CIVIC GROUPS		
EVENTS AND FESTIVALS		

## Next Steps

- Discuss policy issues related to One Water with District Board
- Analyze available data sets and mapped opportunities to identify priority integrated, multi-objective projects in Coyote Watershed
- Develop watershed-based targets for One Water objectives
- Prepare draft Coyote Watershed report
- Implement a community outreach plan on a per watershed basis

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Committee:	Environmental and Water Resources
Meeting Date:	07/17/17
Agenda Item No.:	4.5
Unclassified Manager:	Garth Hall
Email:	<a href="mailto:ghall@valleywater.org">ghall@valleywater.org</a>
Est. Staff Time:	10 minutes

## COMMITTEE AGENDA MEMO

**SUBJECT:** Water Supply Update and Drought Response

### RECOMMENDED ACTION:

This is an information only item and no action is required.

### SUMMARY:

Staff will present up-to-date information on the 2017 water supply outlook, including water savings achieved, local water supply conditions, and imported water allocations. Staff will also describe efforts to make water conservation a way of life at the State and local level. Finally, staff will summarize the status of efforts to plan for water supply reliability over the next 20 years.

### BACKGROUND:

#### Current Hydrologic and Groundwater Conditions

The 2016/2017 Water Year, beginning October 2016, is significantly improved compared to the past five years, with many northern California hydrologic indicators at or near record levels. Locally, conditions are also favorable, after a quick transition from the five-year drought. Statewide conditions are significantly improved. Current conditions include:

- Water use reductions achieved by retailers and the community, and increased groundwater recharge in 2016, have resulted in significantly improved groundwater storage conditions. End-of-year groundwater storage in 2016 was 307,000 Acre Feet (AF), which is the 'Normal' Water Shortage Contingency Plan stage. This was a great improvement from end-of-year 2015 storage of 232,000 AF, which was in the 'Severe' stage.
- As of June 1, 2017, local (San Jose) rainfall for the 2017 water year, which began October 15, 2016, is 17.17 inches, or 125 percent of average to date. Local reservoir storage is 98 percent of the 20-year average for this time of year. Groundwater elevations in three key index wells have increased with recent storms, and are above or near pre-drought levels.
- Local and imported supplies were less constrained in 2016 than in the past few years, and the District took advantage by increasing recharge operations compared to previous years. Managed groundwater recharge in 2016 in the Santa Clara Plain was nearly two-and-a-half times the five-year average, and

groundwater storage improved compared to 2015. In 2017, managed groundwater recharge operations will be reduced due to facility maintenance needs, including repairing damage from the winter storms. However, even with reduced recharge operations, predicted end-of-year 2017 storage county-wide will be within Stage 1 (Normal) of the Water Shortage Contingency Plan (greater than 300,000 AF).

- Current State Water Project (SWP) allocations are 85 percent as of April 14, 2017.
- The U.S. Bureau of Reclamation announced on April 11, 2017, that Central Valley Project (CVP) allocations are 100 percent for both South of Delta M&I and Agricultural water service contractors. In accordance with our Reallocation Agreement, the District's total allocation will be 152,500 AF.
- The District is also planning to bank as much as 69,000 AF in to Semitropic, if the bank's put capacity allows. Current storage in Semitropic is 197,000 AF, or 56 percent of capacity. The maximum capacity is 350,000 AF, and the five-year average storage is 234,000 AF.
- San Luis Reservoir storage is projected to drop less extensively than in recent years, reaching a low of around 800,000 AF by the end of August 2017, and suggesting the reservoir will refill completely in early 2018. The total capacity of the reservoir is 2.04 million AF.
- Ongoing water use savings of 28 percent through the first four months of 2017, compared to 2013.

The June 2017 Water Tracker (Attachment 1) provides additional information on the current water supply conditions.

#### Making Conservation a Way of Life

The Governor issued Executive Order B-40-17 declaring an end to the drought state of emergency for most the state on April 7, 2017. The Governor's Executive Order is transitioning the state from drought response to the long-term framework "Making Water Conservation a California Way of Life" as explained in [http://www.water.ca.gov/wateruseefficiency/conservation/docs/20170407\\_EO\\_B-37-16\\_Final\\_Report.pdf](http://www.water.ca.gov/wateruseefficiency/conservation/docs/20170407_EO_B-37-16_Final_Report.pdf). The framework focuses on four key themes:

1. Use water more wisely: includes new water conservation standards for urban water suppliers and permanent reporting.
2. Eliminate water waste: includes permanent water use prohibitions and minimize water loss through distribution system leaks.
3. Strengthen local drought resilience: requires urban water suppliers to submit Water Shortage Contingency Plans, conduct 5-year Drought Risk Assessments, and conduct and submit water budget forecasts annually.
4. Improve agriculture water use efficiency and drought planning: requires agriculture water suppliers to develop an annual water budget, identify agriculture water management objectives and implementation plans, quantify measures to increase water use efficiency, and develop a drought plan. It also requires agriculture water suppliers providing over 10,000 acres of irrigated land to prepare, adopt, and submit a water management plan every five years.

The District Board approved a resolution on June 13, 2017 that continues the call for a 20 percent reduction in water use (compared to 2013), and calls for efforts to make water conservation a way of life in Santa Clara County. Like the Executive Order, the District resolution recommends permanent water waste prohibitions and use restrictions, including:

- The application of potable water to outdoor landscapes in a manner that causes runoff such that water flows onto adjacent property, non-irrigated areas, private and public walkways, roadways, parking lots, or structures;

- The use of a hose that dispenses potable water to wash a motor vehicle, except where the hose is fitted with a shut-off nozzle or device attached to it that causes it to cease dispensing water immediately when not in use;
- The application of potable water to driveways and sidewalks;
- The use of potable water in a fountain or other decorative water feature, except where the water is part of a recirculating system;
- The application of potable water to outdoor landscapes during and within 48 hours after measurable rainfall;
- The serving of drinking water other than upon request in eating or drinking establishments, including but not limited to restaurants, hotels, cafes, cafeterias, bars, or other public places where food or drink are served. and/or purchased;
- The irrigation with potable water of ornamental turf on public street medians; and
- The irrigation with potable water of landscapes outside of newly constructed homes and buildings in a manner inconsistent with regulations or other requirements established by the California Building Standards Commission and the Department of Housing and Community Development.

In addition, the District resolution recommends that all municipalities consider a permanent landscape irrigation schedule of no more than three days a week. To ensure that the community understands the new permanent prohibitions and restrictions, the District will continue its Water Waste Inspector Program.

Also, while not specifically outlined in the Resolution, the District will continue its effective water conservation and water use efficiency programs outlined in the attached Water Conservation Report to meet the District's long-term savings goal of nearly 100,000 AF by 2030. To meet this goal, new and innovation programs are continually considered and will be added to the 2017 update of the Water Supply Master Plan as appropriate.

#### Water Supply Master Plan Update 2017

The District is currently updating its Water Supply Master Plan. The Water Supply Master Plan is the District's strategy for providing a reliable and sustainable future water supply for Santa Clara County and ensuring new water supply investments are effective and efficient. Staff is addressing the uncertainty of the future under changed climate conditions, increased population growth, and new regulations by considering how different water supply investment portfolios perform under a variety of supply and demand scenarios.

All of the water supply investment portfolios build on a "no regrets" package of water conservation and demand management measures, which includes stormwater capture, leak detection and gray water program incentives, a new model ordinance, and advanced metering infrastructure. Some of the other projects that are being included in portfolios include California WaterFix, Los Vaqueros Expansion, Pacheco Reservoir, Sites Reservoir, additional potable reuse capacity, additional water rights purchases, and additional recharge capacity. The water supply projects that have been considered in the Water Supply Master Plan Update 2017 are described in Attachment 3.

#### **ATTACHMENT(S):**

Attachment 1: June 2017 Water Tracker  
 Attachment 2: FY16 District Water Conservation Report  
 Attachment 3: Project List  
 Attachment 4: PowerPoint



A monthly assessment of trends in water supply and use for Santa Clara County, California

## Outlook as of June 1, 2017

January and February storms generated extraordinarily large flows in local creeks, and District reservoirs are currently at 98% of average for this date.

On January 31, 2017, the Board of Directors (Board) approved a resolution calling for 20 percent reduction and continued certain water waste prohibitions, but removed the recommendation that retailers implement mandatory measures. The Board also called for continued restrictions on watering schedules to a maximum of three times a week.

On April 7, 2017, the Governor issued an Executive Order (EO) ending the drought state of emergency for a majority of the state. In response to the EO, the State Board rescinded their mandatory conservation and stress test requirements, however they are continuing with the water use prohibitions and monthly reporting for urban water retailers.

Groundwater recharge in 2016 was far greater than in normal years. Preliminary water supply analysis shows that 2017 District recharge, together with natural recharge, will sustain or further improve groundwater storage in 2017.

### Weather



#### Rainfall in San Jose

- Month of May = 0 inches
- Rainfall year to date = 17.17 inches (Rainfall year is July 1 to June 30)
- Normal rainfall for the full year = 14.33 inches
- June 2 Northern Sierra snowpack was 185% of normal for this date

### Local Reservoirs



- Total June 1 storage = 109,358 acre-feet
  - » 98% of 20-year average for that date
  - » 65% of total capacity
  - » 96% of restricted capacity (169,009 acre-feet total storage capacity limited by seismic restrictions to 113,667 acre-feet)
- Approximately 490 acre-feet of imported water was delivered into local reservoirs during May 2017
- Total estimated releases to streams (local and imported water) during April was 12,980 acre-feet

### Groundwater



- Groundwater (GW) Storage: Total storage at the end of 2017 is predicted to fall within Stage 1 (Normal) of the District's Water Shortage Contingency Plan

	Santa Clara Subbasin		Llagas Subbasin
	Santa Clara Plain	Coyote Valley	
May managed recharge estimate (AF)	6,500	900	2,000
January to May managed recharge estimate (AF)	13,800	4,100	4,000
January to May managed recharge, % of 5-year avg.	72%	100%	60%
April pumping estimate (AF)	6,200	900	2,400
January to April pumping estimate (AF)	17,700	3,200	9,500
January to April pumping, % of 5-year average	82%	108%	98%
GW index well level compared to last May	Increase	Increase	Increase

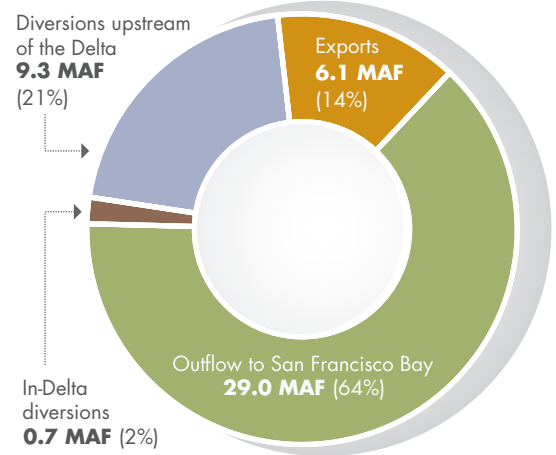
AF = acre-feet

## Imported Water



- As of June 1, 2017, the Statewide Average snowpack water content is 192% of the historic average for this date
- 2017 State Water Project (SWP) and Central Valley Project (CVP):
  - » 2017 SWP allocation: 85% announced on April 14, 2017, provides 85,000 acre-feet
  - » 2017 South-of-Delta CVP allocations announced on April 11, 2017.
    - M&I water service allocation: 100%, District's M&I allocation is 119,400 AF
    - Agricultural water service allocation: 100%, or 33,100 AF
- Reservoir storage information, as of June 1, 2017:
  - » Shasta Reservoir at 96% of capacity (112% of average for this date)
  - » Oroville Reservoir at 70% of capacity (82% of average for this date)
  - » San Luis Reservoir at 94% of capacity (118% of average for this date)
- District's Semitropic groundwater bank reserves: An estimated 196,697 acre-feet as of June 1, 2017
- Estimated SFPUC deliveries to Santa Clara County:
  - » Month of May = 3,450 acre-feet
  - » 2017 Total to Date = 13,864 acre-feet
  - » Five-year annual average is 48,700 acre-feet

**Delta Watershed Diversions and Outflow  
Typical Annual Balance  
Average Years (45.1 MAF)**



**Note:** Percentages may not add up to 100% due to rounding to the nearest percent.

## Treated Water



- Below average demands of 10,475 acre-feet delivered in May
- This total is 97% of the five-year average for the month of May
- Year-to-date = 34,102 acre-feet or 89% of the five-year average

## Conserved Water



- Saved 69,000 acre-feet in FY16 from long-term program (baseline year is 1992)
- Long-term program goal is to save nearly 72,000 acre-feet in FY17
- The Board has called for a 20% reduction and a limit of three days per week for irrigation of ornamental landscape with potable water
- Achieved a 28% reduction in water use through the first four months of 2017, compared to 2013

## Recycled Water



- Estimated May 2017 production = 1,500 acre-feet
- Estimated Year-to-Date through May = 4,800 acre-feet or 73% of the five-year average
- Silicon Valley Advanced Water Purification Center produced an estimated 1.3 billion gallons (3,900 acre-feet) of purified water in 2016. Since the beginning of 2017, about 900 acre-feet of purified water has been blended with existing tertiary recycled water for South Bay Water Recycling Program's customers



## CONTACT US

For more information, contact **Customer relations** at **(408) 630-2880**, or visit our website at [valleywater.org](http://valleywater.org) and use our **Access Valley Water** customer request and information system. With three easy steps, you can use this service to find out the latest information on district projects or to submit questions, complaints or compliments directly to a district staff person.



Follow us on:





### Historical ALERT Precipitation Gage Information

These data readings are Preliminary. Most data relayed by telemetry have received little or no review. Inaccuracies in the data may be present because of instrument malfunctions and/or physical changes at the measurement site. Subsequent review may result in significant revisions to the data.

Pacific Standard Time (Note: Gage clock may be different from current time)

Historic Data From: 06/01/2017 at 12:00:00 AM PST

Lower Peninsula Watershed									
Alert ID	Description	15 min. (in.)	30 min. (in.)	1 hour (in.)	3 hours (in.)	6 hours (in.)	12 hours (in.)	24 hours (in.)	Season to date (in.)
1457	Trappers Trail (6142)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	54.02
1510	Stevens Creek (6100)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	43.54
1454	Maryknoll Fields (6144)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	30.63
1500	Rancho San Antonio Park (	0.00	0.00	0.00	0.00	0.00	0.00	0.00	42.28
1521	Sunnyvale WTP (6048)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.76
1515	Mountain View (6121)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19.37
2099	Palo Alto (6129)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19.25
1880	Los Trancos (SMC)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1876	Huddart Park (SMC)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.69
1890	Wunderlich (JPA)	---	---	---	---	---	---	---	58.15
1889	Windy Hill (JPA)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	33.58
West Valley Watershed									
Alert ID	Description	15 min. (in.)	30 min. (in.)	1 hour (in.)	3 hours (in.)	6 hours (in.)	12 hours (in.)	24 hours (in.)	Season to date (in.)
1509	Valley Christian (6077)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.59
1511	West Yard (6108)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.20
Guadalupe River Watershed									
Alert ID	Description	15 min. (in.)	30 min. (in.)	1 hour (in.)	3 hours (in.)	6 hours (in.)	12 hours (in.)	24 hours (in.)	Season to date (in.)
2053	Guadalupe Slough (6016)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.46
2081	Mount Umunhum (6069)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.85
2068	Banjo Point (6138)	---	---	---	---	---	---	---	58.31
1526	Guadalupe (6123)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	73.54
2080	Almaden (6004)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	58.54
1513	Calero Watershed (6128)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	39.29
2066	Johnson Ranch (6036)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	37.52
1524	Rinconada WTP (6079)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	35.47
1527	Vasona Pump (6125)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	30.28
2065	Alamitos (6001)	---	---	---	---	---	---	---	21.54
1453	City of San Jose (6131)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.17
Coyote Creek Watershed									
Alert ID	Description	15 min. (in.)	30 min. (in.)	1 hour (in.)	3 hours (in.)	6 hours (in.)	12 hours (in.)	24 hours (in.)	Season to date (in.)
2070	Penitencia WTP (6099)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.68
2079	Coe Park (6017)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	47.52
2071	Cow Ridge (6127)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	43.03
2075	Coyote Reservoir (6021)	0.00	0.00	0.00	0.00	0.00	0.00	0.04	38.58
1465	Canada de los Osos (6145)	0.00	0.00	0.00	0.00	0.00	0.00	0.04	36.61
2067	U.T.C (6102)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.85
2073	Leroy Anderson Dam (6041)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	33.07
1551	Palm Ave (6141)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	32.80
1516	Evergreen (6132)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.89
2069	Haskins Ranch (6034)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	34.65



### Historical ALERT Precipitation Gage Information

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Pacific Standard Time (Note: Gage clock may be different from current time)

1514	Curtner Ranch (6023)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	24.92
Pajaro River Watershed									
Alert ID	Description	15 min. (in.)	30 min. (in.)	1 hour (in.)	3 hours (in.)	6 hours (in.)	12 hours (in.)	24 hours (in.)	Season to date (in.)
2072	Loma Prieta (6044)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	76.18
1530	Uvas Canyon County Park (	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.91
2057	Uvas Reservoir (6104)	---	---	---	---	---	---	---	68.03
1508	Castro Valley (6015)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	44.65
1461	Edmundson Ave (6143)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	45.55
1529	Church Ave Perc Ponds (61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	38.90
1528	West Little Llagas (6139)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	40.08
Far Eastern Santa Clara County Watershed									
Alert ID	Description	15 min. (in.)	30 min. (in.)	1 hour (in.)	3 hours (in.)	6 hours (in.)	12 hours (in.)	24 hours (in.)	Season to date (in.)
1519	Colt Ranch (6018)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	46.50
1517	Biel Ranch (6008)	0.00	0.00	0.00	0.00	0.00	0.00	0.04	36.85
1512	Mount Hamilton (6067)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	52.95
1518	Shanti Ashrama (6098)	0.00	0.00	0.00	0.00	0.00	0.00	0.12	40.87

Providing stream stewardship, wholesale water supply and flood protection for Santa Clara County.

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### Historical ALERT Reservoir Gage Information

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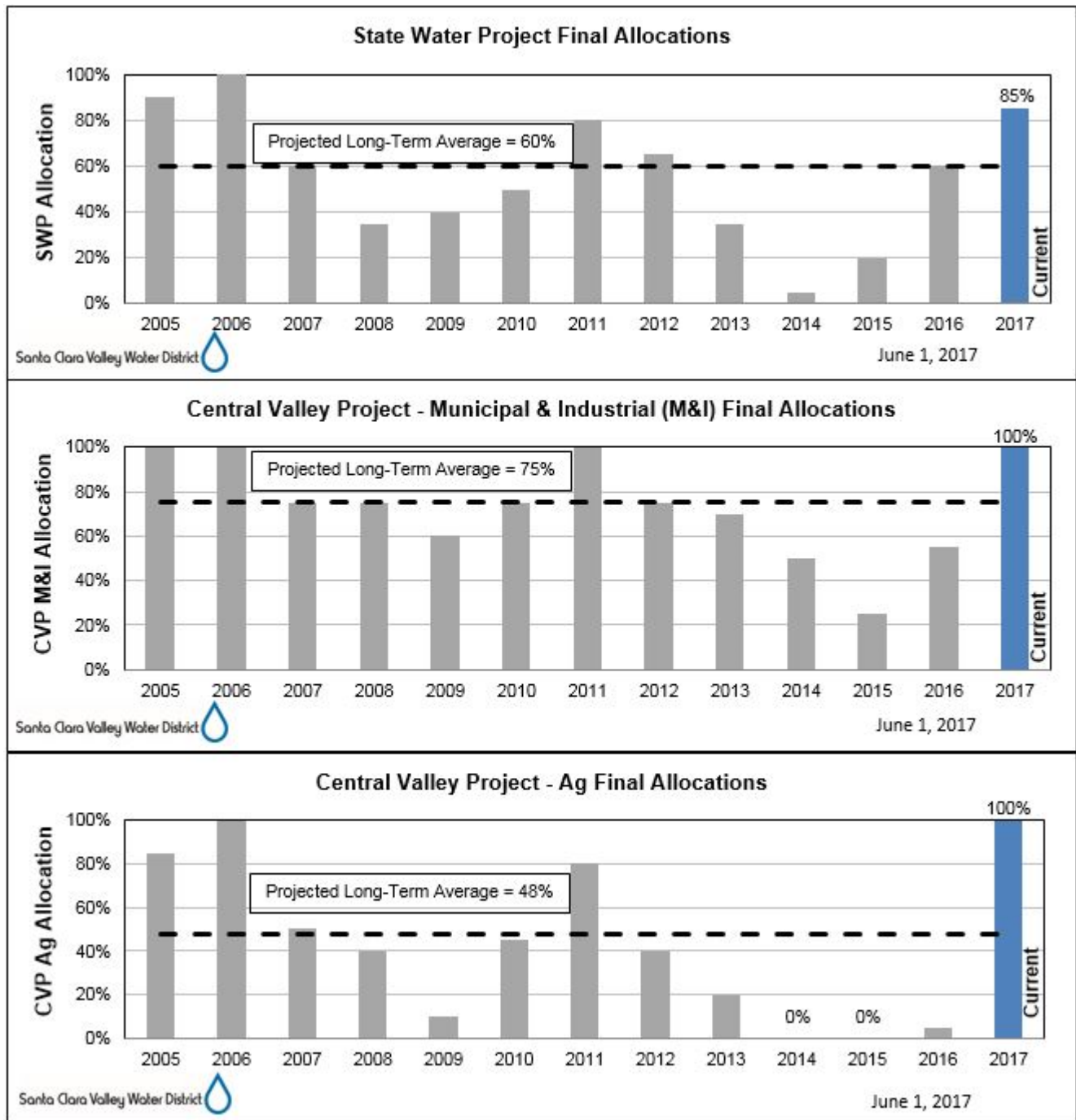
Pacific Standard Time (Note: Gage clock may be different from current time)

Historic Data From: 06/01/2017 at 12:00:00 AM PST

Stevens Creek Watershed							
Alert ID	Description	Date & Time (pst)	Reservoir Elevation (feet)	Spillway Elevation (feet)	Reservoir Storage (acre-feet)	Reservoir Capacity (acre-feet)	% of Reservoir Capacity
1464	Stevens Creek Reservoir	05/31/2017 11:16:05 PM	529.1	535.0	2,622.1	3,138	83.6
Guadalupe River Watershed							
Alert ID	Description	Date & Time (pst)	Reservoir Elevation (feet)	Spillway Elevation (feet)	Reservoir Storage (acre-feet)	Reservoir Capacity (acre-feet)	% of Reservoir Capacity
2090	Almaden Reservoir	05/31/2017 11:56:23 PM	604.7	608.8	1,362.4	1,586	85.9
2094	Calero Reservoir	05/31/2017 11:10:34 PM	463.6	483.5	4,407.5	9,934	44.4
2092	Guadalupe Reservoir	05/31/2017 11:10:04 PM	596.1	617.3	2,054.2	3,415	60.2
4007	Lexington Reservoir (GOES)	06/01/2017 12:00:00 AM	646.6	649.9	17,736.0	19,044	93.1
1468	Vasona Reservoir	05/31/2017 11:20:03 PM	293.8	294.8	441.9	495	89.3
Coyote Creek Watershed							
Alert ID	Description	Date & Time (pst)	Reservoir Elevation (feet)	Spillway Elevation (feet)	Reservoir Storage (acre-feet)	Reservoir Capacity (acre-feet)	% of Reservoir Capacity
2074	Coyote Reservoir	05/31/2017 11:41:44 PM	757.1	777.2	11,965.3	23,244	51.5
1480	Anderson Reservoir	05/31/2017 11:31:13 PM	588.1	625.0	51,337.1	90,373	56.8
Pajaro River Watershed							
Alert ID	Description	Date & Time (pst)	Reservoir Elevation (feet)	Spillway Elevation (feet)	Reservoir Storage (acre-feet)	Reservoir Capacity (acre-feet)	% of Reservoir Capacity
1470	Chesbro Reservoir	05/31/2017 10:49:00 PM	524.3	525.0	7,794.7	7,945	98.1
1472	Uvas Reservoir	05/31/2017 11:04:53 PM	486.8	487.5	9,637.1	9,835	98.0
<b>District Totals:</b>					109,358	169,009	64.7

Providing stream stewardship, wholesale water supply, and flood protection for Santa Clara County.

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State of California

DEPARTMENT OF WATER RESOURCES  
CALIFORNIA STATE WATER PROJECT

California Natural Resources Agency

### NOTICE TO STATE WATER PROJECT CONTRACTORS



**Date:** APR 14 2017

**Number:** 17-05

**Subject:** 2017 State Water Project Allocation – 85 Percent

**From:**

A handwritten signature in blue ink, reading "Mark E. Andersen".

**Mark E. Andersen**  
**Acting Deputy Director**  
Department of Water Resources

The Department of Water Resources (DWR) is increasing the allocation of 2017 State Water Project (SWP) water for long-term contractors from 2,536,267 acre-feet to 3,563,951 acre-feet. Based on recent precipitation, runoff, and current water supply conditions, SWP supplies are projected to be 85 percent of most SWP contractors' 2017 requested Table A amounts, which totals 4,172,786 acre-feet. Attached is the revised 2017 SWP 85 percent allocation table.

This allocation increase is made consistent with the long-term water supply contracts and public policy. DWR's approval considered several factors including existing storage in SWP conservation reservoirs, SWP operational constraints such as the conditions of the recent Biological Opinions for delta smelt and salmonids, and the longfin smelt incidental take permit, and 2017 contractor demands. DWR may revise allocations if warranted by the year's developing hydrologic and water supply conditions.

To come up with the new 85 percent schedule, DWR will use the current long-term SWP contractors' 100 percent schedules that they submitted in October, 2016 as part of their initial request, unless contractors submit updated schedules. DWR will send the approved monthly water delivery schedules to the long-term SWP contractors.

If you have any questions or need additional information, please contact Pedro Villalobos, Chief, State Water Project Analysis Office, at (916) 653-4313.

Attachment

### 2017 STATE WATER PROJECT ALLOCATION (ACRE-FEET)

SWP CONTRACTORS	TABLE A	INITIAL REQUEST	APPROVED ALLOCATION	PERCENT INITIAL REQUEST APPROVED (3)/(2)
	(1)	(2)	(3)	(4)
<b><u>FEATHER RIVER</u></b>				
County of Butte	27,500	27,500	27,500	100%
Plumas County FC&WCD	2,700	2,700	2,295	85%
City of Yuba City	9,600	9,600	9,600	100%
<b>Subtotal</b>	<b>39,800</b>	<b>39,800</b>	<b>39,395</b>	
<b><u>NORTH BAY</u></b>				
Napa County FC&WCD	29,025	29,025	29,025	100%
Solano County WA	47,756	47,756	47,756	100%
<b>Subtotal</b>	<b>76,781</b>	<b>76,781</b>	<b>76,781</b>	
<b><u>SOUTH BAY</u></b>				
Alameda County FC&WCD, Zone 7	80,619	80,619	68,526	85%
Alameda County WD	42,000	42,000	35,700	85%
Santa Clara Valley WD	100,000	100,000	85,000	85%
<b>Subtotal</b>	<b>222,619</b>	<b>222,619</b>	<b>189,226</b>	
<b><u>SAN JOAQUIN VALLEY</u></b>				
Oak Flat WD	5,700	5,700	4,845	85%
County of Kings	9,305	9,305	7,909	85%
Dudley Ridge WD	45,350	45,350	38,548	85%
Empire West Side ID	3,000	3,000	2,550	85%
Kern County WA	982,730	982,730	835,321	85%
Tulare Lake Basin WSD	87,471	87,471	74,350	85%
<b>Subtotal</b>	<b>1,133,556</b>	<b>1,133,556</b>	<b>963,523</b>	
<b><u>CENTRAL COASTAL</u></b>				
San Luis Obispo County FC&WCD	25,000	25,000	21,250	85%
Santa Barbara County FC&WCD	45,486	45,486	38,663	85%
<b>Subtotal</b>	<b>70,486</b>	<b>70,486</b>	<b>59,913</b>	
<b><u>SOUTHERN CALIFORNIA</u></b>				
Antelope Valley-East Kern WA	144,844	144,844	123,117	85%
Castaic Lake WA	95,200	95,200	80,920	85%
Coachella Valley WD	138,350	138,350	117,598	85%
Crestline-Lake Arrowhead WA	5,800	5,800	4,930	85%
Desert WA	55,750	55,750	47,388	85%
Little Rock Creek ID	2,300	2,300	1,955	85%
Metropolitan WDSC	1,911,500	1,911,500	1,624,775	85%
Mojave WA	85,800	85,800	72,930	85%
Palmdale WD	21,300	21,300	18,105	85%
San Bernardino Valley MWD	102,600	102,600	87,210	85%
San Gabriel Valley MWD	28,800	28,800	24,480	85%
San Geronio Pass WA	17,300	17,300	14,705	85%
Ventura County WPD	20,000	20,000	17,000	85%
<b>Subtotal</b>	<b>2,629,544</b>	<b>2,629,544</b>	<b>2,235,113</b>	
<b>TOTAL</b>	<b>4,172,786</b>	<b>4,172,786</b>	<b>3,563,951</b>	

SWPAO  
4/14/2017

5/2/2017

Reclamation Releases 100 Percent Water Supply Allocation for Central Valley Project Contractors South-of-Delta

MENU

## News & Multimedia

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NEWS & MULTIMEDIA

## Reclamation Releases 100 Percent Water Supply Allocation for Central Valley Project Contractors South-of-Delta

Media Contact: Russell Grimes, 916-978-5100

For Release: April 11, 2017

SACRAMENTO, Calif. – The Bureau of Reclamation today announced an update to the 2017 water supply allocation for all Central Valley Project contractors South-of-Delta to 100 percent of their contract supply for the first time since 2006.

“Following the California Department of Water Resources exceptional March 30 snow survey results, Reclamation is pleased to announce this increase to a 100 percent allocation for our South-of-Delta water contractors,” said Acting Regional Director Pablo Arroyave. “However, as Governor Brown reminded us last week when lifting California’s drought state of emergency, the next drought could be around the corner. It is crucial that we remain vigilant in conserving our precious water resources.”

5/2/2017

Reclamation Releases 100 Percent Water Supply Allocation for Central Valley Project Contractors South-of-Delta

On Feb. 28 and March 22, 2017, Reclamation announced a 100 percent allocation for all CVP contractors with the exception of agricultural water service contractors South-of Delta (contractors in the Delta Division, San Felipe Division, and the San Luis Unit), who were initially allocated 65 percent of their contract supply, and Municipal and Industrial (M&I) contractors South-of-Delta, who were initially allocated 90 percent of their contract supply.

On March 30, 2017, DWR reported an average statewide snow water equivalent in the Sierra Nevada of 45.8 inches, or 164 percent of the historical average for March 30 (27.9 inches). As a result of the water availability south of the Delta and the amount of snowpack in the central and southern Sierra Nevada, Reclamation is able to make this significant water supply allocation increase.

Reclamation is announcing the following updated allocations:

#### South-of-Delta Contractors

- M&I water service contractors South-of-Delta are allocated 100 percent of their contract supply.
- Agricultural water service contractors South-of-Delta are allocated 100 percent of their contract supply.

Given the magnitude of this allocation, the amount of water carried over from last year, and the overall availability of surface water, Reclamation strongly encourages the use of surface supplies instead of ground water wherever possible through the remainder of the 2017 water year. In order to promote effective use of supplies in San Luis Reservoir this year and efficiency for next year's operations, Reclamation will limit the overall amount of water to be carried over to the 2018 contract year to 150,000 acre-feet. Reclamation will continue to work with contractors regarding a strategy for water carried over from the 2016 water year and plans to effectively carry over water for the 2018 contract year.

Information on CVP water supplies is available at <https://www.usbr.gov/mp/cvp-water/index.html>. For additional information, please contact Public Affairs at 916-978-5100 (TTY 800-877-8339) or [mppublicaffairs@usbr.gov](mailto:mppublicaffairs@usbr.gov).

###

Reclamation is the largest wholesale water supplier in the United States, and the nation's second largest producer of hydroelectric power. Its facilities also provide substantial flood control, recreation, and fish and wildlife benefits. Visit our website at <https://www.usbr.gov> and follow us on Twitter @USBR.

Relevant Link:

5/2/2017

Reclamation Releases 100 Percent Water Supply Allocation for Central Valley Project Contractors South-of-Delta

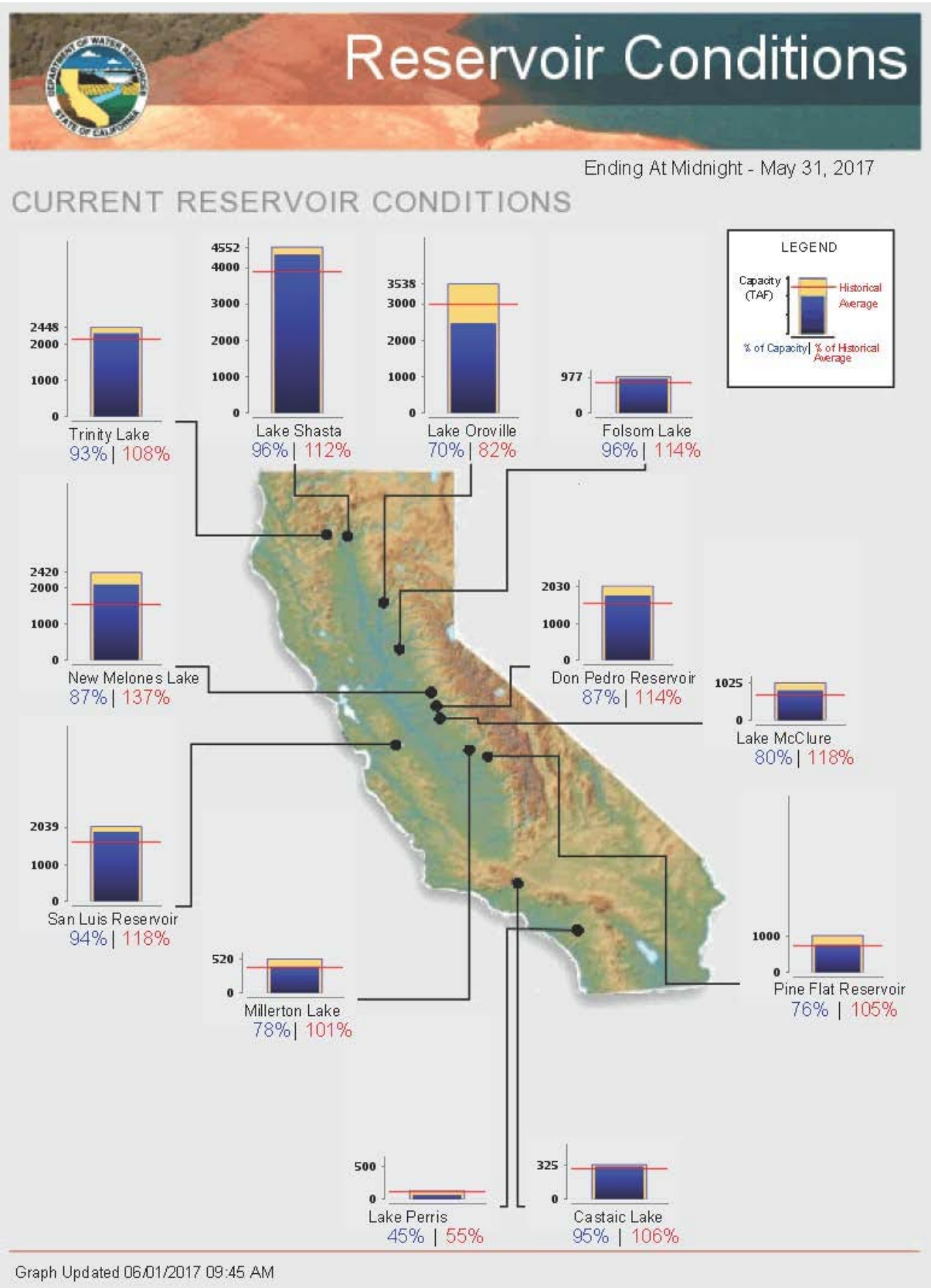
South-of-Delta Water Allocation Update

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### DEPARTMENT OF WATER RESOURCES California Data Exchange Center

#### Daily Reservoir Storage Summary

ENDING AT MIDNIGHT - 05/31/2017

FOR SELECTED RESERVOIRS IN NORTHERN AND SOUTHERN CALIFORNIA

Report generated: 06/01/2017 09:04

Water Storage											
Reservoir Name	StalID	Capacity (AF)	Elevation (FT)	Storage (AF)	Storage Change	% of Capacity	Average Storage	% of Average	Outflow (CFS)	Inflow (CFS)	Storage - Year Ago This Date
TRINITY RIVER											
TRINITY LAKE	CLE	2,447,650	2,359.97	2,286,603	-2,968	93	2,114,470	108	5,440	4,017	1,379,782
WHISKEYTOWN	WHI	241,100	1,209.03	237,991	-,896	99	236,815	100	2,475	2,033	231,878
LEWISTON	LEW	14,660	1,901.81	14,517	60	99	13,851	105	6,117	6,151	13,639
RUSSIAN RIVER											
SONOMA(WARM SPRINGS)	WRS	381,000	----	----	----	----	228,803	----	----	----	239,413
MENDOCINO (COYOTE)	COY	122,400	----	----	----	----	81,952	----	----	----	86,371
SACRAMENTO RIVER											
SHASTA	SHA	4,552,000	1,060.22	4,353,084	-5,499	96	3,900,859	112	8,290	5,569	4,167,076
KESWICK	KES	23,772	584.27	22,057	398	93	22,028	100	9,844	10,046	22,488
FEATHER RIVER											
OROVILLE	ORO	3,537,577	823.28	2,465,532	-10,308	70	2,989,908	82	13,624	8,513	3,307,332
ANTELOPE	ANT	22,566	5,002.82	23,332	-38	103	21,820	106	----	----	22,890
FRENCHMAN	FRD	55,477	5,588.17	55,744	-32	100	42,294	132	----	----	24,972
LAKE DAVIS	DAV	83,000	5,775.08	84,693	-,201	102	67,879	125	----	----	56,647
YUBA RIVER											
BULLARDS BAR	BUL	966,000	1,950.84	941,515	3,147	97	837,338	112	2,749	4,297	901,286
ENGLEBRIGHT	ENG	70,000	----	----	----	----	67,482	----	----	----	65,751
AMERICAN RIVER											
FOLSOM	FOL	977,000	462.38	936,873	12,576	96	820,791	114	6,366	12,760	826,034
UNION VALLEY	UNV	266,369	4,863.87	248,875	-1,199	93	226,314	110	----	----	258,548
LOON LAKE	LOH	69,306	6,407.90	66,383	0	96	60,425	110	----	----	67,073
ICE HOUSE	ICH	43,496	5,446.07	40,891	118	94	37,835	108	----	621	41,852
NIMBUS	NAT	9,000	122.10	7,386	-,598	82	8,073	91	6,368	6,069	7,742
CACHE CREEK											
INDIAN VALLEY	INV	300,000	----	----	----	----	188,698	----	----	----	95,615
STONY CREEK											
BLACK BUTTE	BLB	143,700	----	----	----	----	96,484	----	----	----	84,784
CALAVERAS RIVER											
NEW HOGAN	NHG	317,000	----	----	----	----	173,751	----	----	----	129,884
MOKELUMNE RIVER											
CAMANCHE	CMN	417,120	217.26	291,194	-66	70	286,360	102	3,300	3,478	291,450
PARDEE	PAR	203,795	568.62	206,005	304	101	189,853	109	3,709	----	196,015
STANISLAUS RIVER											
DONNELL'S	DON	64,320	----	58,312	-,118	91	58,724	99	4,069	----	58,731
BEARDSLEY	BRD	97,800	----	81,402	-,100	83	79,523	102	3,910	----	93,133
TULLOCH	TUL	67,000	507.75	64,186	-,931	96	64,905	99	5,973	5,512	64,735
NEW MELONES	NML	2,400,000	1,059.34	2,079,169	5,096	87	1,519,399	137	5,337	7,983	624,233
TUOLUMNE RIVER											
DON PEDRO	DNP	2,030,000	808.74	1,768,620	6,282	87	1,553,016	114	----	----	1,533,984
HETCH HETCHY	HTH	360,000	----	----	----	----	276,643	----	----	----	289,827
CHERRY VALLEY	CHV	273,500	----	----	----	----	189,759	----	----	----	234,762
MERCED RIVER											
MC CLURE (EXCHEQUER)	EXC	1,024,600	836.47	824,338	7,739	80	700,966	118	----	----	585,491
CHOWCHILLA RIVER											
EASTMAN (BUCHANAN)	BUC	150,000	----	----	----	----	89,025	----	----	----	55,791
FRESNO RIVER											

# Water Tracker

## Imported Water – State Storage Summary (Continued)

June 2017

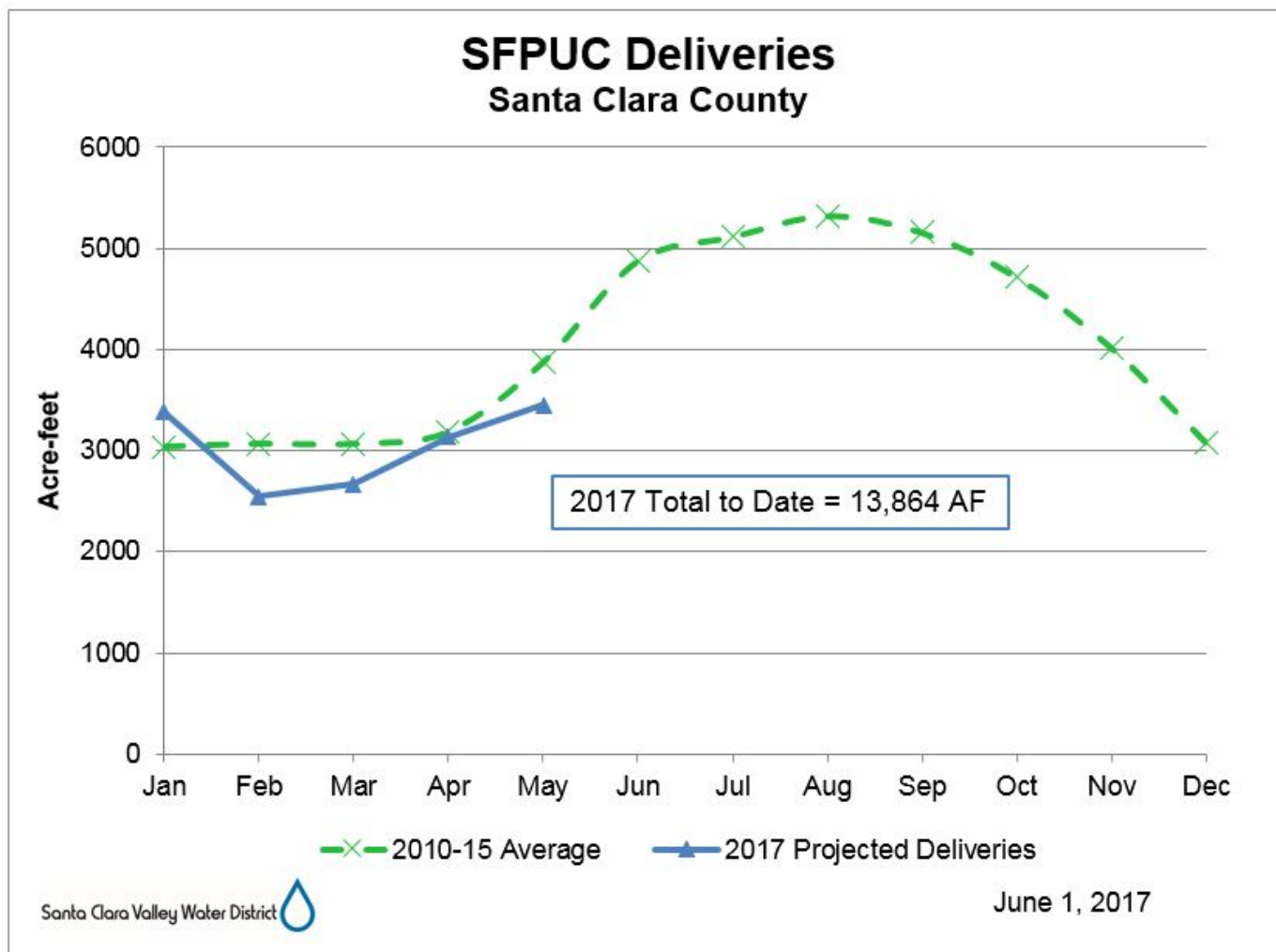
### DEPARTMENT OF WATER RESOURCES California Data Exchange Center

HENSLEY (HIDDEN)	HID	90,000	---	---	---	---	52,075	---	---	---	45,252
<b>SAN JOAQUIN RIVER</b>											
MILLERTON (FRIANT)	MIL	520,500	553.33	407,481	2,254	78	402,643	101	13,297	14,454	360,010
<b>SAN LUIS CREEK</b>											
SAN LUIS	SNL	2,041,000	533.62	1,909,871	-4,607	94	1,617,177	118	---	---	677,366
<b>KINGS RIVER</b>											
PINE FLAT	PNF	1,000,000	---	---	---	---	722,430	---	---	---	629,320
<b>KAWEAH RIVER</b>											
KAWEAH (TERMINUS)	TRM	185,600	---	---	---	---	120,758	---	---	---	149,259
<b>TULE RIVER</b>											
SUCCESS	SCC	82,300	---	---	---	---	54,001	---	---	---	52,904
<b>KERN RIVER</b>											
ISABELLA	ISB	568,000	---	---	---	---	299,496	---	---	---	133,875
<b>TRUCKEE RIVER</b>											
STAMPEDE	STP	226,500	5,943.12	207,500	1,800	92	151,524	137	---	---	105,800
INDEPENDENCE LAKE	INP	17,295	6,948.28	16,794	-14	97	16,517	102	---	---	17,265
DONNER LAKE	DNN	9,700	5,932.96	7,116	240	73	8,927	80	---	---	9,432
<b>SANTA YNEZ RIVER</b>											
CACHUMA LAKE	CCH	205,000	715.03	98,721	-20	48	169,869	58	28	25	27,990
<b>SOUTH COAST</b>											
PYRAMID	PYM	180,000	2,574.72	165,701	-878	92	163,054	102	---	---	168,203
CASTAIC	CAS	325,000	1,508.84	310,102	697	95	292,562	106	---	---	203,882
LAKE PERRIS	PRR	131,452	1,554.73	59,660	34	45	109,254	55	---	---	44,640

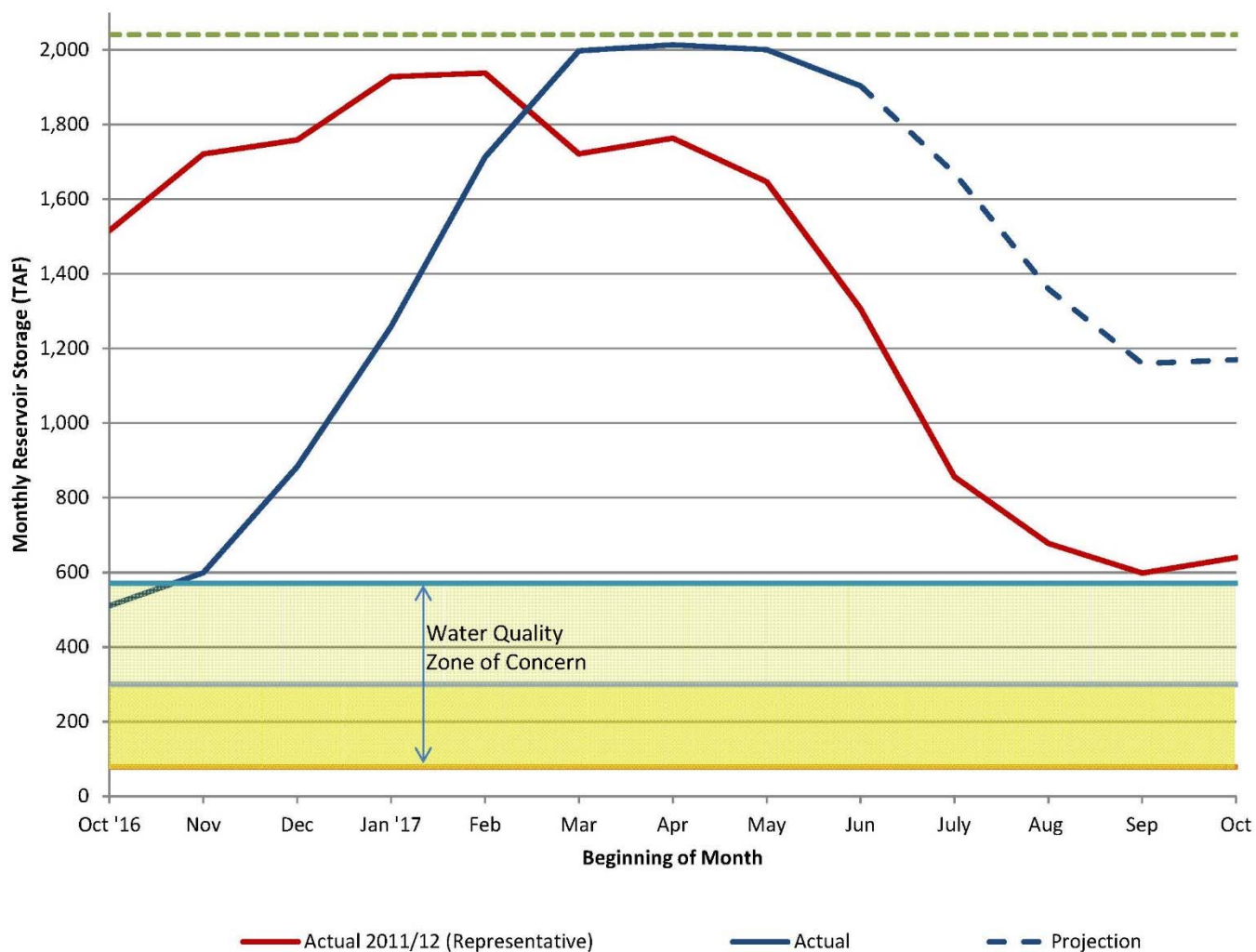
**Total Storage (AF)** 20,341,648 **Total Average Storage** 18,785,073 **Total % Group Average** 108.29%

AF - Acre Feet CFS - Cubic Feet per Second

Note: Reservoir Flows are daily averages.



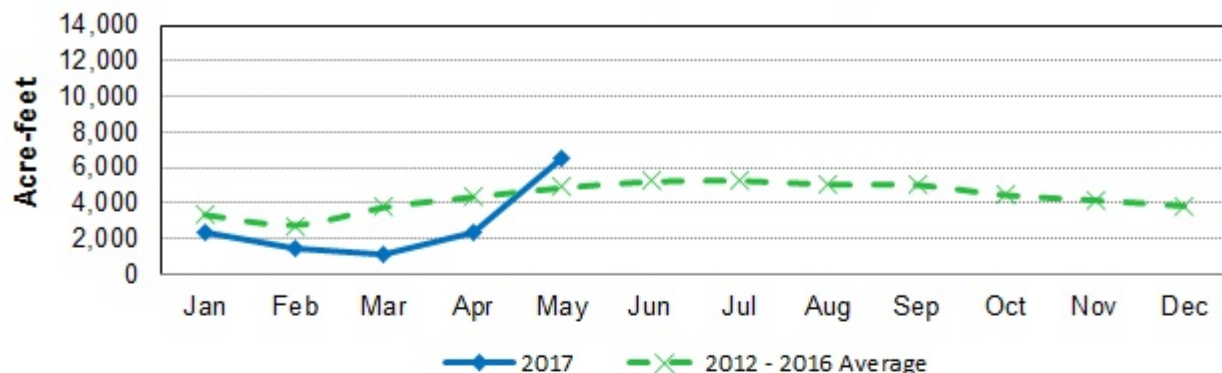
### 2016/17 San Luis Reservoir Storage



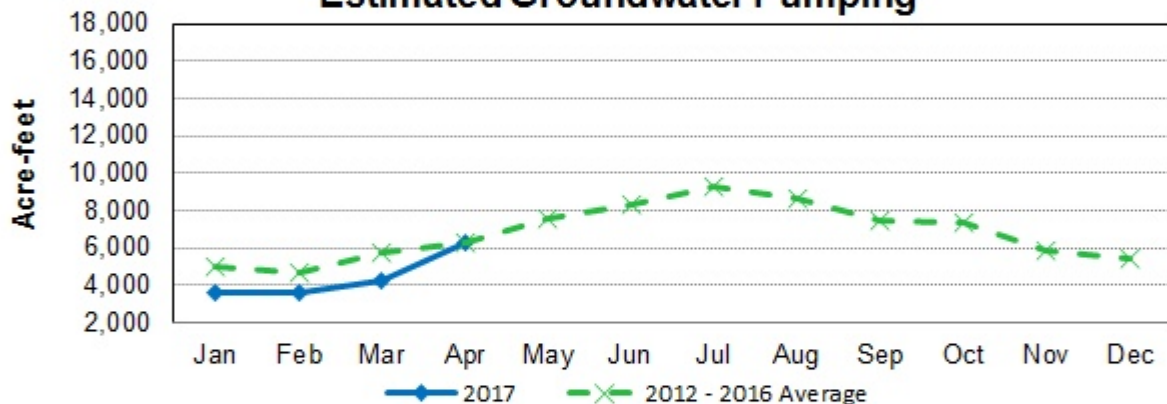
Note: Projection based on May 24, 2017 SLD MWA May Project Operations Update for the 90% exceedance probability

### Santa Clara Plain

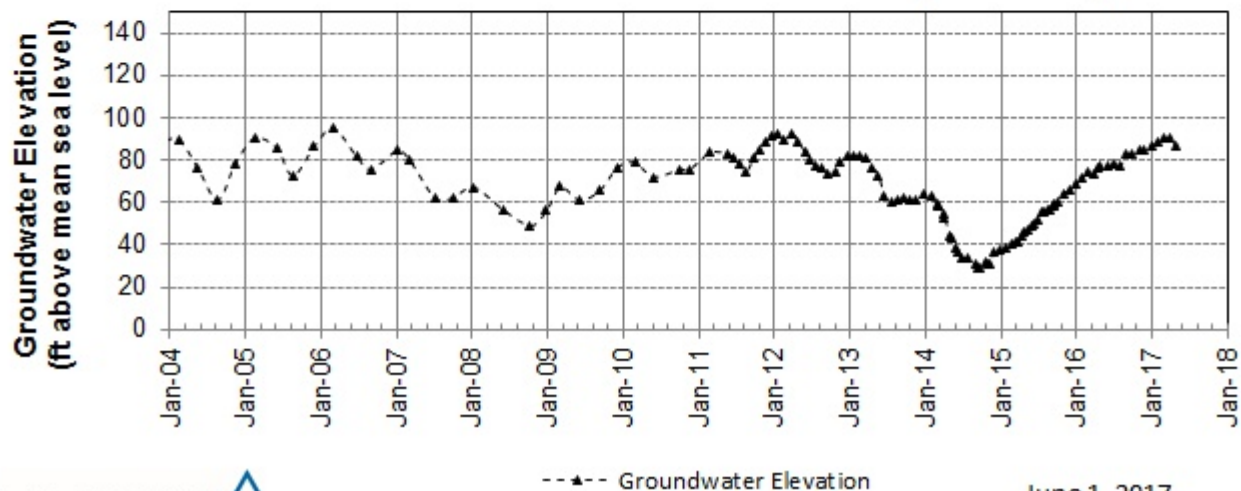
#### Estimated Managed Recharge



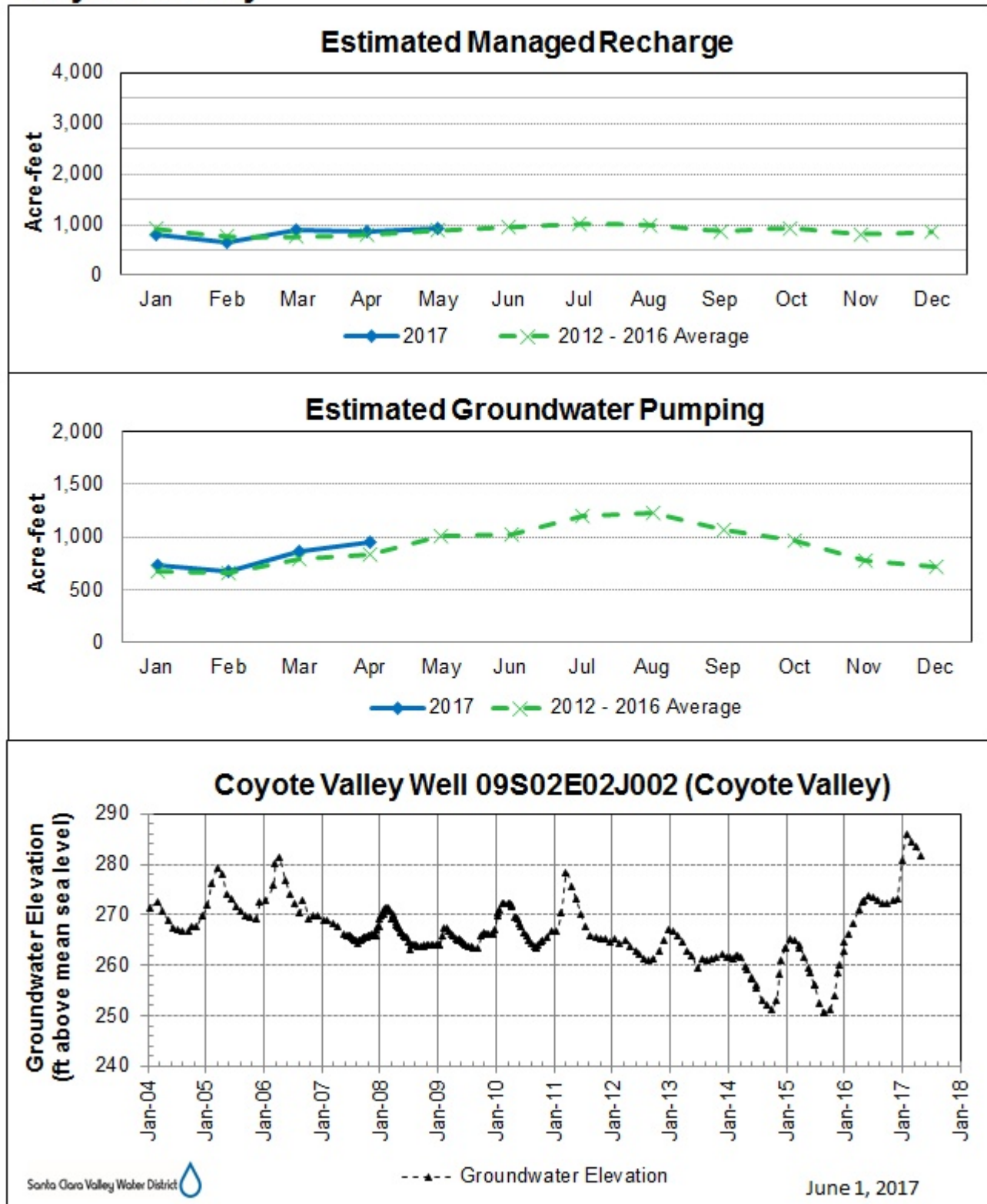
#### Estimated Groundwater Pumping



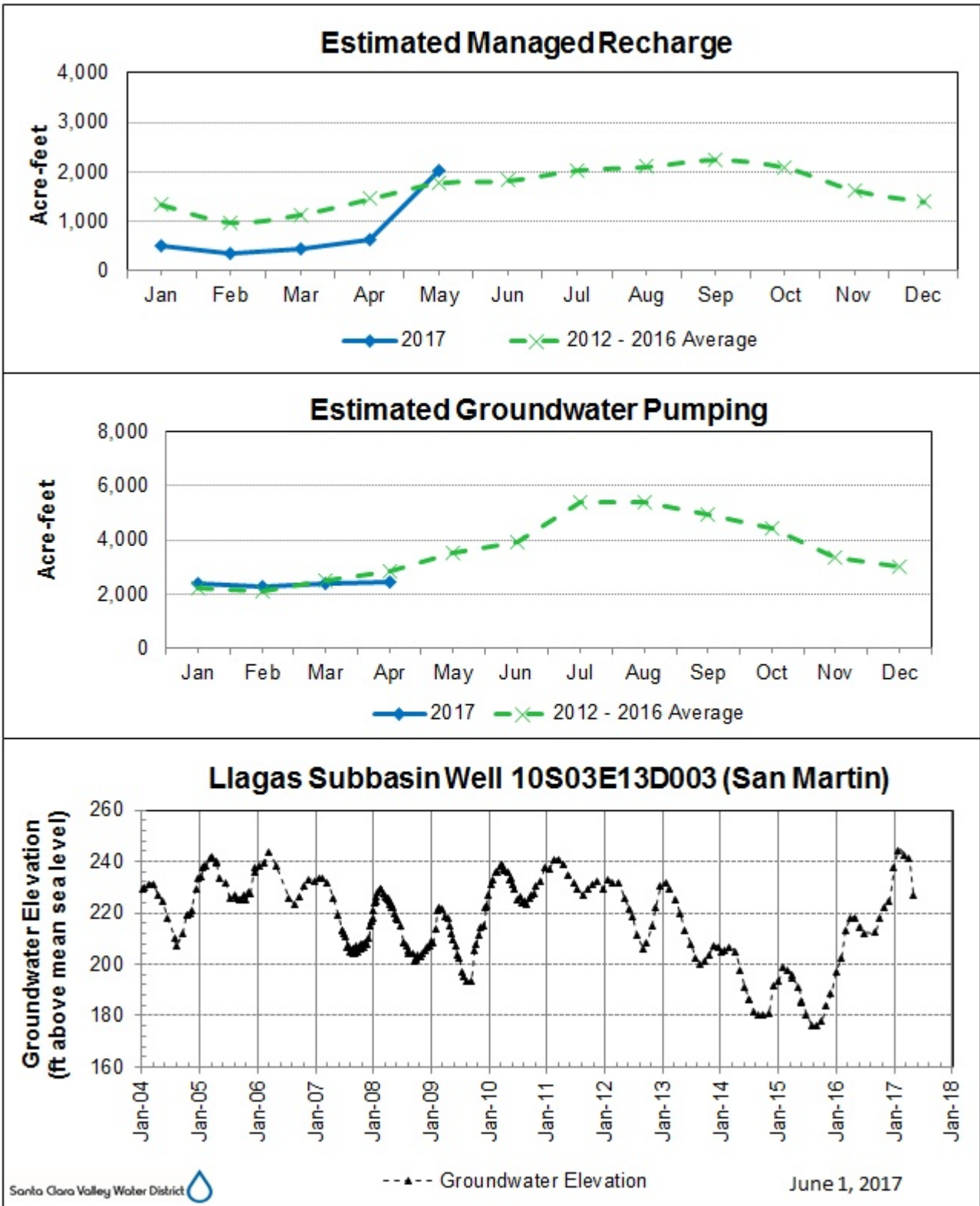
#### Santa Clara Plain Well 07S01W25L001 (San Jose)



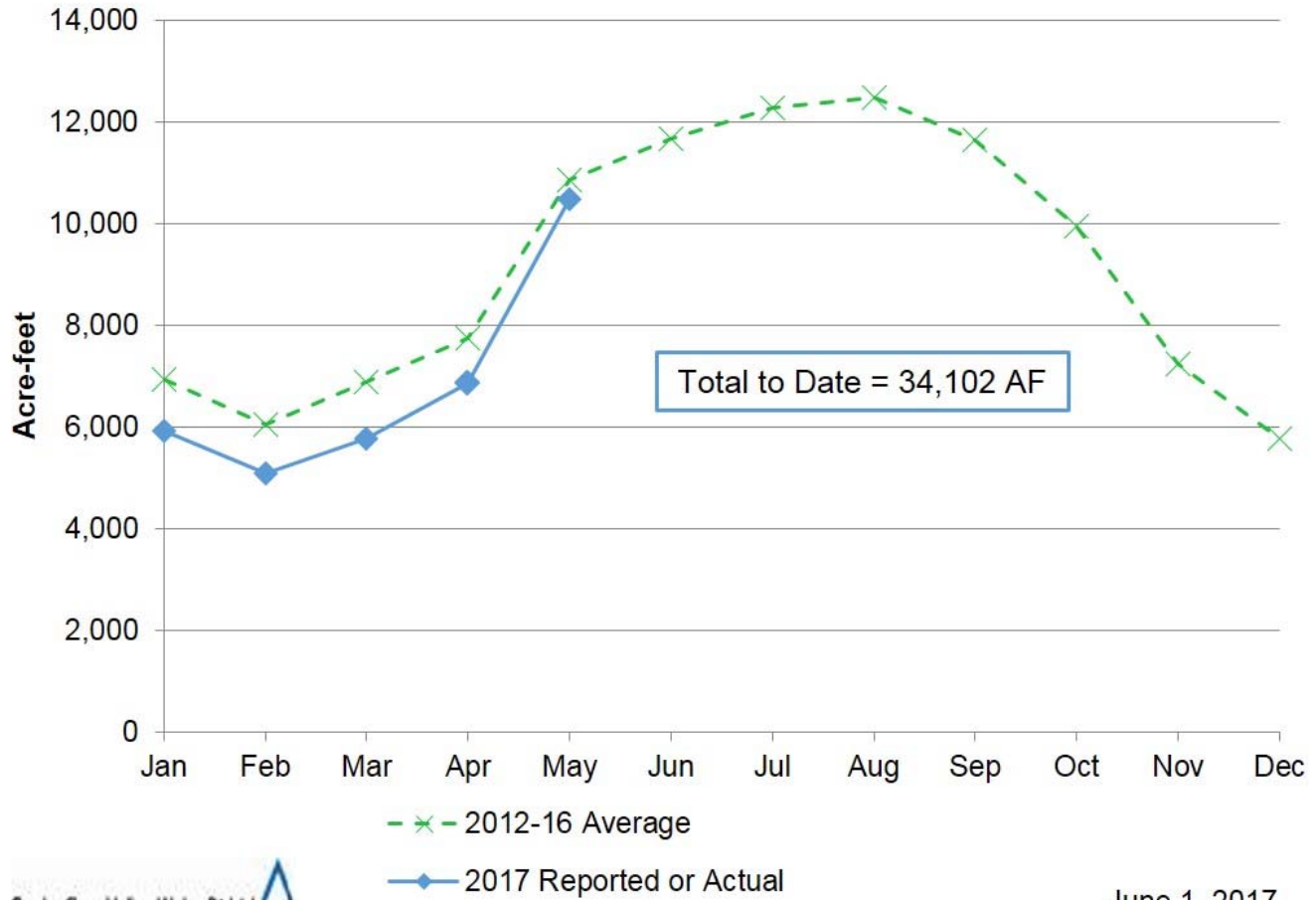
### Coyote Valley

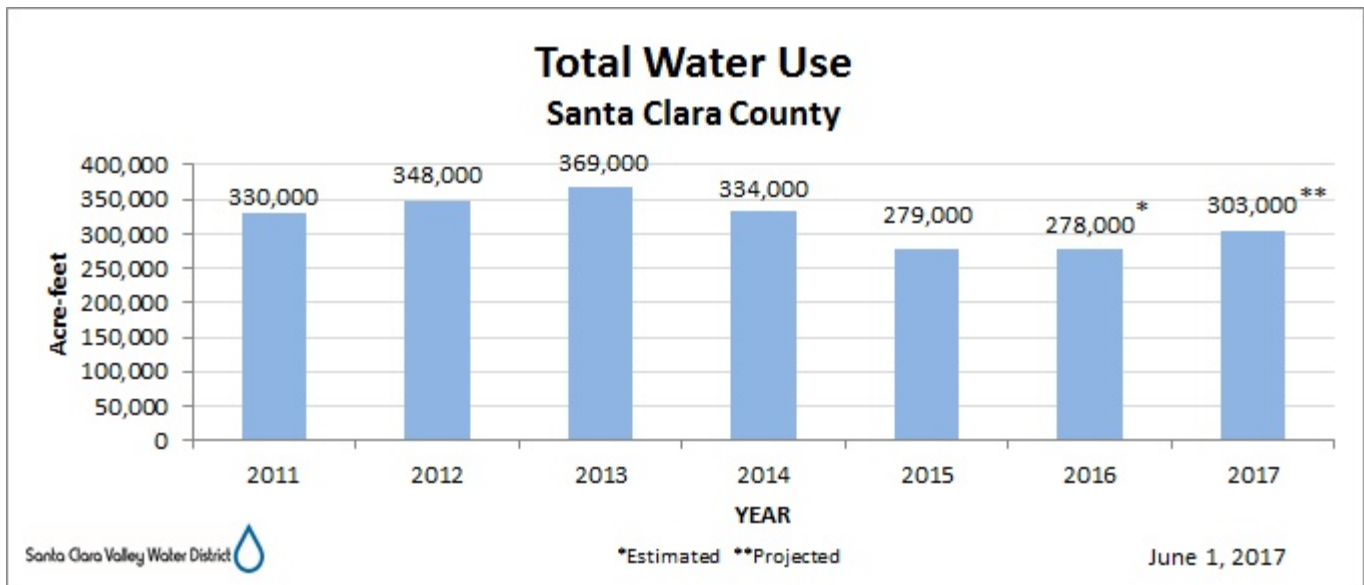


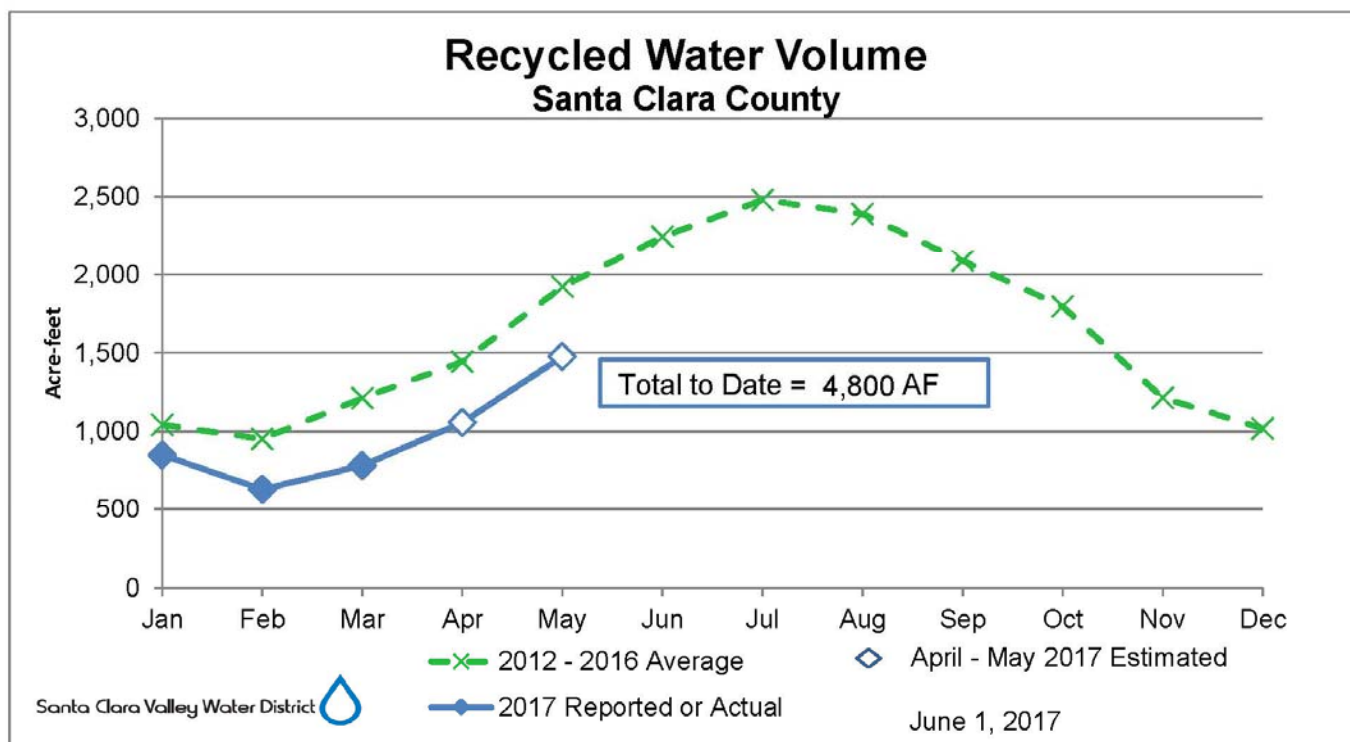
### Llagas Subbasin



### Treated Water Deliveries Santa Clara County

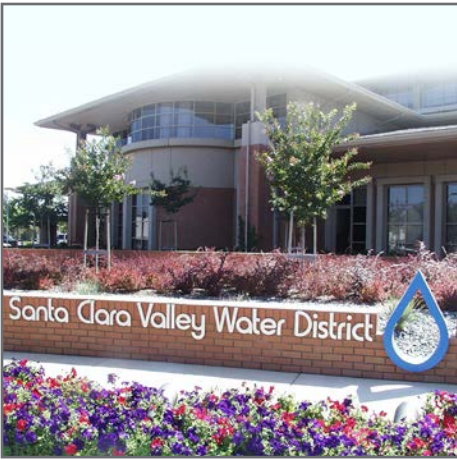








# Water Conservation Report



# About Us

The Santa Clara Valley Water District manages an integrated water resources system that includes the supply of clean, safe water, flood protection and stewardship of streams on behalf of Santa Clara County's 1.9 million residents. The water district effectively manages 10 dams and surface water reservoirs, three water treatment plants, an advanced water purification center, a state-of-the-art water quality laboratory, nearly 400 acres of groundwater recharge ponds and more than 275 miles of streams.

We provide wholesale water and groundwater management services to local municipalities and private water retailers who deliver drinking water directly to homes and businesses in Santa Clara County.

## Summary

This Water Conservation Report documents the actions taken by the Santa Clara Valley Water District, and the community at large, to achieve water conservation goals for fiscal year 2016.

The water district supports an extensive long-term water conservation program, which it considers an essential component in meeting its long-term water reliability goals. These water conservation programs are offered to residents and businesses in all types of rainfall years (wet or dry).

During the most recent drought, the water district saw a dramatic increase in participation in its water conservation programs, including the Landscape Rebate Program, which experienced a fivefold increase in requests for participation. Businesses and residents installed climate appropriate landscapes and others let their lawns go brown, setting examples as "Water Wise Champions." The water district kicked off a few new programs, including a popular Graywater Laundry to Landscape Rebate Program; a Landscape Water Use Evaluation Program for large landscapes; and water conservation research grants, which are funded by the Safe, Clean Water and Natural Flood Protection Program.

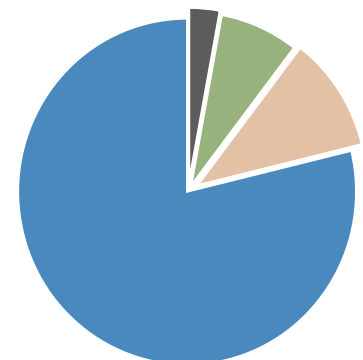
The water district also continued to maintain a dedicated public presence, speaking at over 100 community events, neighborhood association meetings, workshops, and business events each year. Events focused on educating residents and businesses on long term water conservation programs and short term drought response.

As a result of the combined efforts between the water district and the community, nearly 70,000 acre-feet of water was saved in FY 2015/16 through our long-term conservation program. This savings is, for the most part, in addition to short-term reductions (as much as 80,000 acre-feet in 2016) that were achieved primarily in response to the drought. For more information on water district drought response strategies and water savings, please review the water district's Drought Monthly Status Report available on our drought page.

## Santa Clara Valley Water District Board of Directors

The Santa Clara Valley Water District is governed by an elected, seven member Board of Directors. In February 2014, the Board created a Water Conservation Ad Hoc Committee, whose purpose is to support the Board in achieving its policy to provide a reliable water supply to meet current and future water usage. In 2016, this committee became the Water Conservation and Demand Management Committee.

## Long-Term Water Conservation Savings in FY 2015/16 in Acre-Feet (AF)

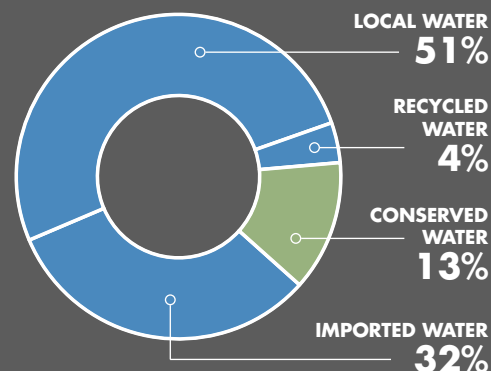


- **Agriculture 2.9%**  
2,000 AF/year
- **Landscape 7.5%**  
5,200 AF/year
- **Commercial 10.8%**  
7,500 AF/year
- **Residential 78.8%**  
54,500 AF/year
- TOTAL:**  
**69,200 AF/year**

## Population and Water Use Over Time



## Water Supply Portfolio Average for 2006-2015



## Water Conservation Programs

Program Name	Program Participation for FY 2015/16	Total Program Participation to Date
<b>Residential Programs</b>		
Water Wise House Calls	5,419	45,928
High-Efficiency Toilet Program*	1,190	26,414
Residential High-Efficiency Clothes Washer Rebate Program	5,123	173,401
Graywater Laundry to Landscape Rebate Program	18	31
Home Water Use Report	579,671	686,945
Showerhead Distribution	5,329	180,772
Aerator Distribution	9,100	173,980
<b>Landscape Programs</b>		
Landscape Survey Program (By calendar year)	28	1,697
Landscape Water Use Evaluation Program (# of sites)	1,303	1,303
Landscape Water Use Evaluation Program (Reports)	12,734	20,386
Weather-Based Irrigation Controller Rebates	1,122	3,414
Landscape Conversion Rebates (in sq ft converted)	5,349,768	9,694,905
Irrigation Hardware Rebates	101,171	248,652
<b>Commercial, Industrial, Institutional (CII) Programs</b>		
Commercial Clothes Washer Rebate Program	266	4,913
CII & Multi-Family Dwelling High-Efficiency Toilet Installation Program**	1,375	28,952
Custom/Measured Rebates Program (in CCF saved/year)	3,475	655,698
Pre-Rinse Spray Valve Program	113	4,702
Submeter Rebate Program	297	6,580
Aerator Distribution (0.5 gpm)	2,580	11,230
CII High-Efficiency Urinal Valve Installation Program	438	2,555
CII High-Efficiency Toilet Rebate Program	7	161

\* In addition, the water district has rebated/installed 244,020 residential Ultra-Low Flush Toilets.

\*\* In addition, the water district has rebated/installed 8,870 commercial Ultra-Low Flush Toilets.

## Santa Clara Valley Water District Invests in Conservation

Water conservation, which is primarily funded through groundwater production charges, is an essential component in meeting the water district's mission of providing a reliable water supply for current and future generations.

The water district's annual budget for water conservation in FY 2015/16 was \$10.3M, which included an additional \$5M in response to the popularity of the Landscape Rebate Program. In response to the drought, the water district board also approved an additional \$4.6M for water conservation programs.

Because of the investments the water district has made in conservation since 1992, water use in this county has remained relatively consistent, despite a 25 percent increase in population over the same time period.



# Water Conservation in the Home

The water district continues to expand programs in the residential sector, which remains one of the key areas for water conservation. The water district employs a variety of rebates, workshops, and outreach at community events to promote residential water savings.

In FY 2015/16, the total annual long-term savings attributable to all residential conservation programs reached 54,500 acre-feet.

## Water-Wise House Call Program

The water district has been providing free Water Wise House Calls to Santa Clara County residents since 1998. The program is available to residents of single family homes and to owners managers of apartments, condominiums and mobile home complexes. During the survey, technicians check and install free toilet flappers, showerheads and aerators, check for toilet flapper leaks, measure fixture flow rates, and offer conservation information.

Surveyors also test the customer’s irrigation system for distribution uniformity, calculate and program a personalized irrigation schedule, and provide landscaping tips. The survey also serves as a pre-inspection for the Landscape Rebate Program.

The surveyors performed over 5,400 residential home surveys during FY 2015/16. Approximately 46,000 home surveys have been completed since the program began.

## Graywater Laundry to Landscape Rebate Program

On January 1, 2014, the water district began offering a Graywater Laundry to Landscape Rebate Program, generating much interest from the public. The rebate amount started at \$100, and in response to the drought, increased to \$200. In addition to providing a rebate for properly connecting a clothes washer to a laundry to landscape system, the water district’s graywater program provides information, resources, and workshops on graywater as well as pre and post inspections for customers with site-specific characteristics.

Graywater use in the landscape decreases potable water use by approximately 17 gallons per person per day or 14,565 gallons per household (on average), depending on the site and system design. California Plumbing Code (CPC) does not require a permit for installing a laundry to landscape system. However, the CPC is specific as to how laundry to landscape systems should be installed. To protect public health and safety, prior to giving project approval, the district checks each applicant’s property’s depth to groundwater. At post inspections, applicants must demonstrate adherence to the CPC’s specifications to help ensure graywater does not pool or drain to their neighbors’ properties.

There were 18 completed graywater rebates in FY 2015/16, for a total of 31 since the program began.

## Residential High Efficiency Clothes Washer Rebate Program

The water district began offering rebates for new, qualifying water efficient clothes washers in 1995. In FY 2015/16, over 5,000 rebates were issued; since the program began, more than 173,000 rebates have been issued.

The water district portion of the High Efficiency Clothes Washer Rebate program was up to \$125 per washer in FY 2014/15, which combined with an energy rebate from PG&E, provided a total combined rebate of \$200 for the purchase and installation of qualifying Energy Star Most Efficient washers and a water agency rebate of up to \$50 for CEE Tier 3 washers. In January 2015, qualifying standards were streamlined to rebate only for qualifying Energy Star Most Efficient washers with a water agency portion of \$100 and a PG&E portion of \$50. The maximum rebate of \$150 continued through 2016.

This program has provided an opportunity for the water district to partner with PG&E and the other participating Bay Area water agencies since January 2008 allowing customers to apply for the rebate using one application form for both the water and energy rebate. This program continues to transform the market by offering rebates for the most efficient washing machines while making it easier for customers to apply for the combined rebate.

## High-Efficiency Toilet Rebate Program

The water district's High Efficiency Toilet (HET) Rebate Program has been offered to customers since FY 2003/04. In FY 2013/14, the water district provided a rebate of up to \$125 for PREMIUM model High Efficiency Toilets and up to \$50 for non-PREMIUM model High Efficiency Toilets for residents, multi-family sites, institutions, and businesses.

Beginning in January 2014, the state of California required that all toilets sold and installed in California flush at 1.28 gpf or less. Accordingly, the HET Rebate Program began rebating only for PREMIUM model HETs up to \$125 per toilet. PREMIUM model HETs save nearly 20 percent more water than 1.28 gpf models and perform better than most other toilets available.

The water district has issued more than 26,000 High Efficiency Toilet rebates since the program began in FY 2013/14. In FY 2015/16, a total of 1,190 residential and 7 commercial rebates were issued, the final year of the program.



## Home Water Use Reports

The Home Water Use Reports Program delivers individual customer water use reports to provide water consumption information, messaging, and water savings recommendations to water users. The water reports are based on data analytics and are distributed to residential customers through an interactive mobile and web-based customer portal, email, and/or paper reports. This program is also offered in some areas to commercial customers.

This program is managed by local water retailers and co-funded by the water district. Since the program began in FY 2013/14, nearly 687,000 reports have been delivered.

## Low Flow Showerhead and Residential Aerator Distribution Program

In FY 2015/16, the water district distributed roughly 17,000 residential aerators, commercial aerators and low flow showerheads. Showerheads and aerators are provided free of charge, by request, to the public and to local water retailers; they are also installed in residences during Water Wise House Calls.

Approximately 366,000 showerheads and aerators have been distributed since the program started.



# Water Conservation in Business

The water district combines education, technical assistance, equipment upgrades and financial incentives to encourage reduced water consumption among commercial, industrial and institutional water users.

Annual long-term water savings attributable to business conservation programs reached 7,500 acre-feet in FY 2015/16.

## Commercial Rebate Program

The Commercial Rebate Program is designed to give commercial, industrial and institutional sites a variety of incentives to help them save water. Qualifying projects are divided up into two types: Custom/Measured Rebates and Set Rebates.

### CUSTOM/MEASURED REBATE PROGRAM

The Custom or Measured Rebate Program provides rebates for process, technology, and equipment retrofits that save water. The rebate rate is \$4.00 per hundred cubic feet (CCF) of water saved annually with a minimum annual water savings requirement of 100 CCF. In April 2014, in response to the drought, the rebate was temporarily increased to \$8.00 per hundred cubic feet of water saved annually.

To date, the water district has funded 102 projects saving approximately 656,000 CCF/year. In FY 2015/16, there were four projects, which saved a combined amount of nearly 3,500 CCF/year.

## Set Commercial Rebates

### WASHER REBATES

The Commercial Clothes Washer Rebate Program provides laundromats and apartment complexes in Santa Clara County a rebate of up to \$400 for each purchased or leased commercial high-efficiency clothes washer. In April 2014, in response to the drought, the rebate was temporarily increased to \$800 per washer.

The water district rebates the most water efficient machines. By doing this, the water district hopes to influence buyers to make the most water-efficient choice (Tier 3) and maximize water savings. The Commercial Clothes Washer Rebate Program provided 266 rebates in FY 2015/16, and ended in December 2016. Since the start of the program, approximately 4,900 rebates have been issued.

### CONNECTIONLESS FOOD STEAMERS REBATES

The Connectionless Food Steamer Rebate is an incentive of up to \$485 per compartment for restaurants that replace water-intensive connected steamers to ones that use a pan in the bottom of the steamer ("connectionless"). In April 2014, in response to the drought, the rebate was temporarily increased to \$1,000 per compartment. Since the program began, two food steamers have been rebated. The program ended in December 2016.

## AIR-COOLED ICE MACHINE REBATES

The Air-Cooled Ice Machine Rebate gives up to \$1,000 per ice machine, for replacing a water-cooled ice machine for one that is air-cooled. No rebates have been issued since the program began, and the program ended in December 2016.

## HIGH-EFFICIENCY URINAL REBATES

The High-Efficiency Urinal Rebate is directed at commercial facilities that have old, inefficient urinals; these sites can take advantage of this rebate by replacing these fixtures with WaterSense certified ones that flush at 0.125 gallons (one pint). The sites received a rebate of \$300 per urinal. Since the program began, two rebates have been issued, the program ended in December 2016.

## SUBMETER REBATES

This program, which began as a pilot program in FY 2000/01, gives a rebate for every water submeter installed at mobile home parks, condominium or apartment complexes. During the three-year pilot program, 1,187 rebates were installed in mobile home parks. Water use records from participating mobile home parks showed an average water savings of 23 percent per mobile home. Due to the results of the pilot study, the program was initiated again in 2007, and expanded to include condominium and apartment complexes in FY 2012/13. In FY 2015/16, the rebate amount increased from \$100 to \$150 per installed submeter and nearly 300 were installed, bringing the total number rebated since the program began to 6,580.



## Pre-Rinse Spray Valve Distribution

The water district provides pre-rinse spray valves, with a flow rate of 1.15 gallons per minute, to commercial sites, such as restaurants, corporate cafeterias and commercial kitchens. The water district also provides sprayers to water retailers to distribute to their commercial customers. A total of 113 of these sprayers were distributed through this program in FY 2015/16. Roughly 4,700 sprayers have been installed since the start of the program.

## Commercial and Apartment High Efficiency Toilet and Urinal Flush Valve Installation Program

This program provides free installation of high-efficiency toilets (HETs) and urinal flush valves (HEUs) in the commercial, industrial and institutional sectors, as well as in the multi-family sector.

There were approximately 600 HETs installed in the commercial, industrial and institutional sectors and 700 HETs installed in the multi-family dwelling sector, for a total of about 1,300 installations for FY 2015/16. There were also about 430 high-efficiency urinal flush valves installed in FY 2015/16. Since the program began, more than 29,000 HETs and 2,500 HEUs have been installed.

## Commercial Faucet Aerator Program

For the last several years, the water district has been offering free faucet aerators, with a flow rate of 0.5 gallons per minute, to qualifying businesses and schools, to replace aerators that are currently flowing at 1.0 gpm or more. The water district distributed roughly 2,500 of these 0.5 gpm aerators in FY 2015/16. Since the water district began this program, approximately 11,000 of these aerators have been distributed.



# Water Conservation in Landscape

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On average, over half of the water used by residents in the county is used to irrigate outdoor landscape. Landscape offers the greatest potential for water savings in both the residential and commercial sectors. The water district offers a variety of landscape programs, including landscape field surveys, water budgets, rebates for converting high water using landscape and upgrading irrigation hardware, as well as classes and workshops, all of which help businesses and homeowners become more water efficient. The long-term water savings attributed to these programs for FY 2015/16 is approximately 5,200 acre-feet per year.

## Landscape Survey Program

Since 1994, the Santa Clara Valley Water District has been helping landscape managers improve their irrigation efficiency. Through the Landscape Survey Program, surveyors perform complimentary evaluations to assist Commercial, Industrial, and Institutional (CII) as well as multi-family property owners understand how to better manage their landscape irrigation. Landscape surveys have shown a potential savings of up to \$1,000 in water savings per acre of irrigated landscape.

The Landscape Survey Program is available to any Santa Clara County business owner or property manager who would like to improve the efficiency of their irrigation system and has a half-acre or more of irrigated landscape.

The components of a Landscape Survey include: a system check, site specific recommendations, as well as a site report. Participants from this program are encouraged to participate in the Landscape Rebate Program. In 2016, the Landscape Survey Program evaluated 28 sites. Since the program began, over 1,697 sites have been surveyed. In 2015, program services transitioned to be managed within the Landscape Water Use Evaluation Program.

## Landscape Water Use Evaluation Program

The Landscape Water Use Evaluation Program (LWUEP) was launched in May 2014. A total of 557 sites were enrolled in the program at the outset from the following retailer service areas: City of Gilroy, City of Mountain View, City of Palo Alto, City of Sunnyvale, City of Santa Clara and City of Morgan Hill. By the end of FY 2015/16, the number of sites totaled over 1,300 and nearly 13,000 reports for these sites were distributed.

All sites enrolled in the program receive a monthly water usage report. The reports provide an objective evaluation of a site's water use at a glance every billing period. Various data inputs, including irrigated area, vegetation types, type of irrigation system, and daily weather (evapotranspiration minus effective rainfall) are included in a detailed calculation in order to develop the water budgets. Sites are encouraged to share the monthly reports with everyone involved with landscape decision making at the site, including the bill payer, site manager, landscape contractor and board members. Sites are also eligible to receive a complimentary on-site landscape field survey by an irrigation expert and receive a thorough investigation of the site's irrigation issues.

Sites receiving the monthly water budget reports reduce water usage by 20 percent on average when all the relevant parties receive the report and take appropriate actions. As of the end of 2015, the sites enrolled in the water district program were saving 54 percent (or 1,312 acre-feet per year) on irrigation usage as compared to a cumulative average of the previous 12 months.

## Landscape Rebate Program

The Landscape Rebate Program is designed to assist homeowners, commercial, industrial and institutional property owners, as well as multi-family complexes increase their outdoor water use efficiency by converting to qualifying low water using landscape and/or upgrading to qualifying irrigation equipment. Simple changes in plant type and irrigation methods can greatly reduce the water required for an attractive landscape. There are many qualifying plants in Santa Clara County that require little to no irrigation once established. There are also several irrigation equipment upgrades that increase a site's irrigation efficiency, all of which can result in saving water, energy and money.

In January 2014, the Landscape Conversion rebate was increased from \$0.75/sq ft to \$1.00/sq ft. However, in April 2014 in direct response to the drought, the water district board approved increasing some of the rebate amounts for the Landscape Rebate Program. The Landscape Conversion Rebate doubled, going from \$1/sq ft to \$2/sq ft. The City of Palo Alto Utilities (CPAU) chose to also increase their cost sharing rebate, increasing the rebate for CPAU customers from \$2/sq ft to \$4/sq ft. The rebate for Dedicated Landscape Meters and 13-24 and 25+ station Weather Based Irrigation Controllers were also increased.

The water district's Landscape Rebate Program provides three types of rebates that can be combined or issued separately: landscape conversion rebates, irrigation hardware rebates and weather-based irrigation controller rebates.

### LANDSCAPE CONVERSION REBATES

Santa Clara County single family, multi-family and business properties with qualifying high water using landscape can receive rebates for converting to qualifying low water using landscape with a minimum of 50 percent qualifying plant coverage, 2 to 3 inches of mulch, and a conversion from overhead irrigation to drip/micro spray/bubbler or no irrigation.



### IRRIGATION HARDWARE REBATES

Santa Clara County single family, multi-family and business properties can receive rebates for upgrading to qualifying high efficiency irrigation equipment including:

- Rain sensors
- High-efficiency nozzles
- Rotary sprinklers or spray bodies with pressure regulation and/or check valves
- Dedicated landscape meters, flow sensors and hydrometers.

### WEATHER-BASED IRRIGATION CONTROLLER REBATES

Santa Clara County single family, multi-family, business and institutional properties can receive rebates for upgrading to qualifying weather based irrigation controllers. The rebate is based on the number of qualifying stations per controller. Smart controllers or weather based irrigation controllers can save up to 20 percent of irrigation water usage.

In FY 2015/16, there were over 1,100 rebates for single-family residential and commercial weather-based irrigation controllers; over 5.34 million square feet of residential and commercial turf grass was converted; and roughly 101,000 pieces of irrigation hardware equipment was upgraded through the rebate program.



# Water Conservation in Agriculture

The water district provides growers with a variety of tools, education and technical assistance to help growers increase their irrigation efficiency. The long-term water savings attributed to these programs for FY 2015/16 is approximately 2,000 acre-feet per year.

## California Irrigation Management Information System (CIMIS)

This free service provides daily reference evapotranspiration estimates to growers and landscape irrigators to use for scheduling irrigation. Reference evapotranspiration is the water use of a standardized green grass or alfalfa surface. Estimates of the evapotranspiration of all crops and landscapes can be mathematically related to reference evapotranspiration.

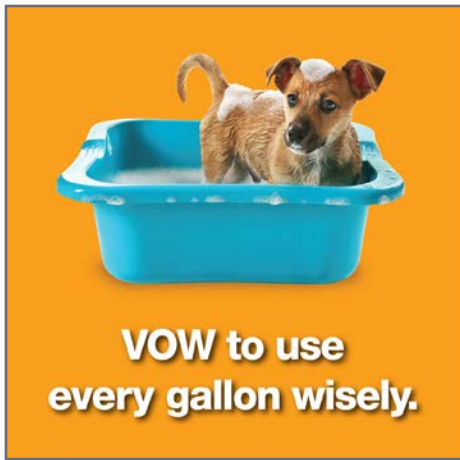
The water district owns and maintains a station west of Saratoga. A CIMIS station east of Gilroy, owned by Syngenta, Inc., is maintained by the water district. Growers and landscape irrigators can access current evapotranspiration information around the clock by visiting the water district's web site at [www.valleywater.org](http://www.valleywater.org).

## On-Line Irrigation Scheduling Calculators

This online resource consists of two calculators: one for drip irrigation systems; the other for sprinkler systems. Each system makes it easy to calculate a crop's irrigation requirements based on local California Irrigation Management Information System (CIMIS) weather station data or satellite-based spatial CIMIS data coupled with the percentage of a field that is shaded by the crop around high noon. These calculators are used to estimate the irrigation requirement since the last irrigation and to forecast a crop's irrigation requirements for the coming few days.

## Agricultural Irrigation Management Program

The water district, in cooperation with the Loma Prieta Resource Conservation District, provides growers in Santa Clara County free irrigation system evaluations and irrigation efficiency services. The goal of the Agriculture Irrigation Efficiency Program is to provide growers with information on how to achieve an irrigation efficiency of 80 percent or greater. In addition, the program includes a nutrient management component to help protect groundwater quality. This program is intended to be a long term, multi-year program that engages growers and develops strong grower relationships. All growers in the water district's service area are eligible to receive a thorough irrigation system evaluation that includes a distribution uniformity (DU) assessment, a system audit that checks pressure readings throughout the system and identifies major leaks or breaks, and a summary report with recommendations that can be used to help improve overall irrigation system performance. Selected growers are also able to utilize intensive season long irrigation efficiency services that include the aforementioned system evaluation along with irrigation water flow monitoring with flow meters, soil moisture monitoring, and weekly irrigation scheduling recommendations based on crop type and size, soil type, and local evapotranspiration data.



# Education and Outreach

The drought dominated the water district's outreach and education efforts over the last few years. The water district recognizes that the keys to success for water conservation programs, especially during times of drought, are effective education and outreach. To that end, the water district has developed informative classes and materials, and has participated in many outreach events.

## Water Waste Inspector Program

Because of the unprecedented drought, the district implemented a Water Waste Inspector Program in September 2014. The purpose of the program is to facilitate and respond to reports of water waste and violations of local water use restrictions and to educate the public about the drought and the district's numerous conservation programs.

Six inspectors were hired to respond to reports of water waste throughout Santa Clara County. The inspectors have no enforcement authority but provide citizens with information on retailer water user restrictions, the district's water conservation rebate programs and refer repeat offenders to the appropriate water retailer for city and/or county for action.

There are several ways to report water waste:

- Email [Drought@valleywater.org](mailto:Drought@valleywater.org)
- Call the Drought Hotline at (408)630-2000
- Use the Access Valley Water Customer Service Portal, available on the district website, or as a mobile application (iPhone & Android)

The water district's Water Waste Inspectors have responded to over 10,400 reports of water waste, from the start of the program in September 2014 through December 2016.

## Community Engagement: Events and Presentations

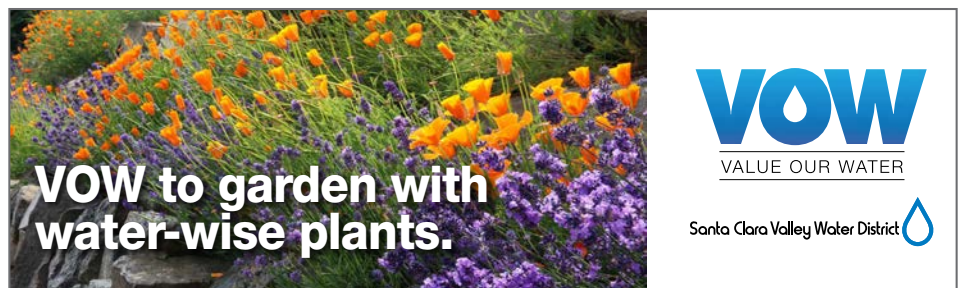
Over the past three years, the water district promoted water conservation at hundreds of community events, including: neighborhood association meetings, environmental fairs, Earth Day events, community garden meetings, and many others. These events provide the water district with opportunities to talk to the public directly and to educate residents and businesses about water conservation utilizing informative displays, educational handouts and one-on-one interaction.



## Media Campaign

The water district developed a special website for the public, [www.save20gallons.org](http://www.save20gallons.org), to have an easy, “one stop shop” where the public could go for information about rebates, tips and techniques for saving water, classes available, etc. In FY 2015/16, the website was updated to [www.watersavings.org](http://www.watersavings.org), and got a new, more user-friendly and mobile-responsive look and feel.

Over the past three years, the water district has also been busy educating the public about the drought through a multi-media campaign. In spring 2014, the water district launched a major drought awareness-raising campaign with the theme, “It’s Time. Save Water.” Later, the campaign focused on encouraging brown lawns (“Brown is the New Green”). In 2016, the campaign shifted to “VOW: Value Our Water” to encourage an approach to water conservation as a California way of life. Ads were placed in the local newspapers, radio, online and on cable TV. Outdoor billboards were located throughout the county. Digital ads were targeted in major news websites and ethnic media websites reaching Latino, Chinese, Vietnamese and Indian audiences. Radio ads included stations broadcasting in Mandarin Chinese, Spanish and Vietnamese.



## Targeted Mailings

The targeted direct mail campaign continued in 2015. This campaign focused on mailings designed to increase participation in water conservation programs. The water district utilized an analytics firm to send out these mailings and adjust the campaign strategy based on the results of previous mailings.

## Water Wise Champions

In 2014, the water district recognized individuals and businesses that have succeeded in reducing water use. These “Water Wise Champions” are highlighted in special eNewsletter issues and social media postings.

## Nursery Program

For more than ten years, the water district has distributed water conservation information through display racks located at county nursery, irrigation and landscape supply stores. These display racks contain literature with information on water-wise gardening, efficient irrigation techniques, drought resistant plants, drip irrigation and water district programs. More than 30 nurseries, irrigation and landscape supply stores have participated in the program.

## Going Native Garden Tour

The 15th annual Going Native Garden Tour took place in April 2016. The goal of this tour is to showcase beautiful native plant gardens, which use less water than lawn-focused yards.

Over 6,000 registrants who signed up for the tour made visits to the open gardens. There were 275 volunteers participating on tour day, serving as docents and greeters at the 50+ open gardens. The Going Native Garden Tour is part of the California Native Plant Society, Santa Clara Valley Chapter. The tour is presented in association with the UCCE Master Gardeners of Santa Clara County. The water district was once again a sponsor of this tour.



# Cost Sharing Agreements, Partnerships, Grants

Water conservation is a community wide effort, and it takes the cooperation of many agencies, cities, organizations and water retailers to meet current and future water supply goals. In particular, the water district has endeavored to work collaboratively with the water retailers in its service area, especially in the area of water conservation. Water Conservation staff meets regularly with its water retailers to co-promote many water conservation programs through water bill inserts, promotions at events, direct mailings and websites. Additionally, the water retailers and water district staff work collaboratively on state water conservation requirements for reporting.

## Cost Sharing Agreements

The water district maintains cost sharing agreements with many agencies to provide water conservation programs for residential and commercial customers.

In 2015, the water district began two new cost sharing agreements with local non-profit organizations: Ecology Action, which runs a direct installation program of free water-and-energy-savings measures that serve the disadvantaged communities in the county, and Our City Forest, which administers a turf replacement program for low-income, disabled, elderly, or veteran homeowners, and institutions within the disadvantaged community.

In the last three years, the water district administered more than \$2.7 million in cost-sharing agreements. Cost-Sharing Agreements that are active include:

CITY/RETAILER	WATER CONSERVATION PROGRAM
Palo Alto	Landscape Conversion Rebate Program
City of Cupertino	Landscape Conversion Rebate Program
Our City Forest	Landscape Conversion Rebate Program
City of San José	Landscape Conversion Rebate Program and Home Water Use Reports
Stanford	Smart Irrigation Controllers
Great Oaks Water Company	Home Water Use Reports
Morgan Hill	Landscape Conversion Rebate Program and Home Water Use Reports
Santa Clara	Home Water Use Reports and Landscape Conversion Rebate Program
Mountain View	Home Water Survey Reports
Ecology Action	Water Conservation Devices

## Grants

### Bay Area Proposition 84 Integrated Regional Water Management Grant

The water district continued to be part of a regional San Francisco Bay Area grant applications, receiving funding from State of California Department of Water Resources Proposition 84 Implementation Grants. Through Rounds 2 and 3 of this grant, the water district received \$1,490,313 in funding. This funding went towards a variety of water conservation programs including High Efficiency Toilet Rebates, High Efficiency Washer Rebates, Water Efficient Landscape Rebates, and Weather-Based Irrigation Controller Rebates.

### Safe, Clean Water Program Grants

The Safe, Clean Water and Natural Flood Protection Program includes up to \$1,000,000 in funding for a Water Conservation Grants Program (grant program) over a ten-year period to identify new, innovative technologies that could potentially be incorporated into the water district's long-term conservation program, which has an aggressive goal of saving nearly 100K acre-feet per year by 2030.

The grant program provides funding to test new and innovative technologies and practices that save water, such as irrigation optimization technology, and systems for reusing industrial rinse water. Each grant cycle was scheduled to have \$100,000 in available funding, plus any unused funds from previous years.

Staff implemented the first grant cycle, available to public and non-profit entities only, in FY 2013/14 with three approved grants totaling \$105,000.

In FY 2014/15, in response to the continued drought, the grant cycle was opened to for-profit companies as well as public and non-profit entities and the available funding increased to \$250,000. Five grants were approved totaling \$223,500.

Funding remained at \$250,000 for the FY 2015/16 grant cycle. Three grants were approved totaling \$130,000.



# Acknowledgments



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## 2017 Water Supply Master Plan

### Project and Program Descriptions (as of April 3, 2017)

This document summarizes the projects and programs that are, or have been, considered for inclusion in the 2017 Water Supply Master Plan. Only a subset of the projects or programs will be selected for implementation as part of the 2017 Water Supply Master Plan.

#### Projects and Programs Currently Being Considered for Inclusion in the 2017 Water Supply Master Plan

Project	Description	Average Annual Yield (AFY) <sup>1</sup>	District's Lifecycle Cost (2016\$)
Agricultural Land Recharge	Constructs a recharge pond on a South County agricultural parcel that would receive water either from roadside ditches or adjacent hillslopes.	200	\$20 million
Advanced Metering Infrastructure (AMI)	Implements a cost share program with retailers to replace current meters with AMI. AMI would alert customers of leaks, as well as provide real-time water use data. Water savings assumes the leaks would be fixed once detected.	4,000	\$30 million
Anderson Reservoir Expansion	Increases reservoir storage by 100,00 AF to about 190,000 AF.	10,000	\$2.0 billion
Butterfield Recharge	Extends the Madrone Pipeline from Madrone Channel to Morgan Hill's Butterfield Channel and Pond.	3,000	\$30 million
Calero Reservoir Expansion	Expands Calero Reservoir storage by about 14,000 AF to 24,000 AF.	3,000	\$510 million
California WaterFix	Constructs tunnels to convey water from north of the Delta to the south of Delta pumps to minimize impacts to fisheries, provide conveyance during a Delta outage, and adapt to climate change. Secures existing supplies.	Up to 30,000 <sup>2</sup>	\$1.8 billion
Church Avenue Pipeline	Diverts water from the Santa Clara Conduit to the Church Avenue Ponds.	1,000	\$50 million

<sup>1</sup> The average annual yield of many projects will depend on the other projects with which they are combined and the scenario being analyzed. For example, groundwater banking yields would likely be higher in portfolios that include wet year supplies. Similarly, they would be lower in scenarios where demands exceed supplies and excess water is unavailable for banking.

<sup>2</sup> The California WaterFix secures existing supplies in the scenario with more restrictive Delta water supply operations. California WaterFix helps offset anticipated declines in Delta exports, so that Delta-conveyed supplies are about the same as deliveries under current operations. Without California WaterFix and with more restrictive Delta water supply operations, Delta-conveyed supplies would be about 30,000 AFY less on average.

<b>Project</b>	<b>Description</b>	<b>Average Annual Yield (AFY)<sup>1</sup></b>	<b>District's Lifecycle Cost (2016\$)</b>
Graywater Expansion	Expands existing District rebates to incentivize the installation of whole-house graywater systems that reuses laundry, shower, and sink water. The rebates would be for residential sites and certain applicable commercial sites.	100	\$2 million
Groundwater Banking	Provides 50,000 AF of banking capacity for excess the Central Valley Project and State Water Project contract water. Sends excess water to a groundwater bank south of the Delta during wet years and times of surplus for use during dry years and times of need.	500	\$90 million
Leak Repair Incentive	Incentivizes homeowners to repair leaks.	300	\$2 million
Local Land Fallowing	Launches program to pay growers not to plant row crops in critical dry years.	1,000	\$90 million
Los Vaqueros Reservoir	Secures an agreement with Contra Costa Water District to expands the existing off-stream reservoir by 110,000 AF and construct a new pipeline connecting the reservoir to the South Bay Aqueduct. Could be constructed in phases.	2,000	\$340 million
Model Ordinance	Encourages municipalities to adopt an ordinance that promotes enhanced water efficiency standards and develops alternate water supply sources in new and retrofitted developments. Potential components include submetering multi-family residences, onsite water reuse (rainwater, graywater, black water), and point-of use hot water heaters.	5,000	\$1.4 million
Morgan Hill Recycled Water	Constructs a 2.25 MGD scalping plant in Morgan Hill. Would need to replace a lower cost recycled water project in Gilroy due to capacity constraints on the system.	3,000	\$220 million
Pacheco Reservoir Expansion	Expands the existing small Pacheco Reservoir to 130,000 AF, with 100,000 AF of storage for the District. Assumes District stores Central Valley Project supplies in the reservoir. Helps address San Luis Reservoir low-point issues. This project would be constructed in collaboration with Pacheco Pass Water District and San Benito County Water District	6,000	\$1.5 billion
Potable Reuse- 6K	Constructs additional potable reuse facilities. The 6K project involve 6,000 AFY of groundwater injection capacity. The 11K project includes the 6K project and 5,000 AFY of additional groundwater injection capacity.	4,000	\$500 million
Potable Reuse – 11K		7,000	\$990 million

<b>Project</b>	<b>Description</b>	<b>Average Annual Yield (AFY)<sup>1</sup></b>	<b>District's Lifecycle Cost (2016\$)</b>
Potable Reuse – 15K	The 15K project includes the 11K projects and 4,200 AFY of groundwater recharge capacity at/near Ford Ponds.	10,000	\$1.2 billion
Regional Desalination	Secures a partnership with other Bay Area agencies to build a Bay Delta desalination plant in Contra Costa County. District would receive 5 MGD of water in critical dry years.	1,000	\$90 million
San Pedro Ponds	Retires the septic systems around the San Pedro Ponds and extends the City of Morgan Hill sewer system to these homes so the District can operate the groundwater recharge facility without high groundwater constraints.	1,000	\$40 million
Sites Reservoir	Secures an agreement with the Sites JPA to construct an off-stream reservoir (up to 1.8 MAF) north of the Delta that would collect winter flood flows from the Sacramento River to increase water deliveries and provide in-stream flows to benefit the Delta ecosystem. Assumes District's share is 24,000 AF of storage.	16,000	\$230 million
Stormwater – Saratoga 1	Constructs a stormwater infiltration system on a parcel in Saratoga. Assumes 5 acres of ponds. Currently zoned as ag land; assumes easement rather than land purchase. Adjacent to a school. About 0.6 miles from the Stevens Creek Pipeline	100	\$15 million
Stormwater – Saratoga 2	Constructs a stormwater infiltration system on a parcel in Saratoga. Assumes 5 acres of ponds. Currently zoned as ag land; assumes land purchase. About 0.6 miles from the Stevens Creek Pipeline.	200	\$60 million
Stormwater - Snell	Constructs a stormwater infiltration system at Martial-Cottle Park (Snell and Chynoweth) in San Jose. Assumes 5 acres of ponds. Potential partnership with the City of San Jose, County Parks, and State Parks. Adjacent to Canoas Creek.	900	\$10 million
Stormwater-Rain Barrels	Provides rebates for the purchase of a rain barrels.	10	\$1 million
Stormwater-Rain Gardens	Launches a District rebate program to incentivize the construction of rain gardens in residential and commercial landscapes.	300	\$20 million
Transfers	Provides an additional 12,000 AF of State Water Project transfer water during critical dry years. Can also include long-term option agreements.	2,000	\$250 million

<b>Project</b>	<b>Description</b>	<b>Average Annual Yield (AFY)<sup>1</sup></b>	<b>District's Lifecycle Cost (2016\$)</b>
Uvas Pipeline	Captures excess water (e.g., water that would spill) from Uvas Reservoir and diverts the water to Church Ponds and a 25 acre-foot pond near Highland Avenue. The new pond would be adjacent to and connected by a pipe to West Branch Llagas Creek.	400	\$120 million
Uvas Reservoir Expansion	Expands Uvas Reservoir by about 5,100 AF to 15,000 AF.	600	\$450 million
Water Rights Purchase	Secures 20,000 AF of SWP Table A contract supply by purchase from other SWP agencies.	12,000	\$760 million

#### **Projects and Programs Previously Considered for Inclusion in the 2017 Water Supply Master Plan**

<b>Project</b>	<b>Discussion</b>
Conservation Rate Structures	Many retailers implement conservation rate structures. Given recent court rulings on rate structure, retailers are reluctant to add new conservation rate structures at this time.
Del Valle Reoperations	This project, as currently envisioned, would allow for more storage in Lake Del Valle, a State Water Project facility in Del Valle Regional Park that is operated by East Bay Regional Park District. The benefits of the additional storage are primarily related to operational flexibility and water quality. The project may not increase long-term water supply yields or drought year yields. Staff is continuing to evaluate Del Valle reoperations in partnership with Alameda County Water District and Zone 7 Water Agency. If long-term water supply benefits are identified, staff will evaluate it as part of the Water Supply Master Plan.
Retailer System Leak Detection/Repair	Recent legislation requires retailers to complete annual water loss audits, which will then be used by the State to establish water loss standards. Staff will reconsider this alternative after the standards are developed.
San Francisco Public Utilities Commission (SFPUC) Purchases	Increasing San Francisco Public Utilities Commission water deliveries to Santa Clara County is an on-going potential opportunity that is being evaluated through SFPUC's planning processes, the Bay Area Regional Reliability project, and potable reuse feasibility studies. The results of these efforts will be considered in future Water Supply Master Plan updates and/or subsequent annual reviews.
Shallow Groundwater Reuse	A feasibility study for the recovery and beneficial use of shallow groundwater was completed in 2009. Although potential sites for shallow groundwater reuse were identified, staff has identified several concerns. These concerns include water quality, sustainable yields, and lack of infrastructure for convey the water to reuse areas. In addition, the reuse sites are in areas where recycled water is already delivered for non-potable use.

Project	Discussion
Shasta Reservoir Expansion	A Feasibility Study and Environmental Impact Statement have been completed for a Shasta Reservoir Expansion. The United States Bureau of Reclamation concluded the project is technically feasible, but that non-federal partners would need to pay for project implementation. State law prohibits Prop 1 storage funding for the project and restricts funding for any studies. Staff will continue to monitor opportunities related to Shasta Reservoir Expansion.
Temperance Flat Reservoir	Temperance Flat Reservoir would be located upstream of Friant Dam on the San Joaquin River. Staff's current analysis is that any water supply benefits to the District from the project would be indirect, largely manifested by lowered requirements for Delta pumping for delivery to the San Joaquin Exchange contractors at the Delta-Mendota Pool.





# Water Supply Update

July 17, 2017



Santa Clara Valley  
Water District



# Water Savings by Major Retailers

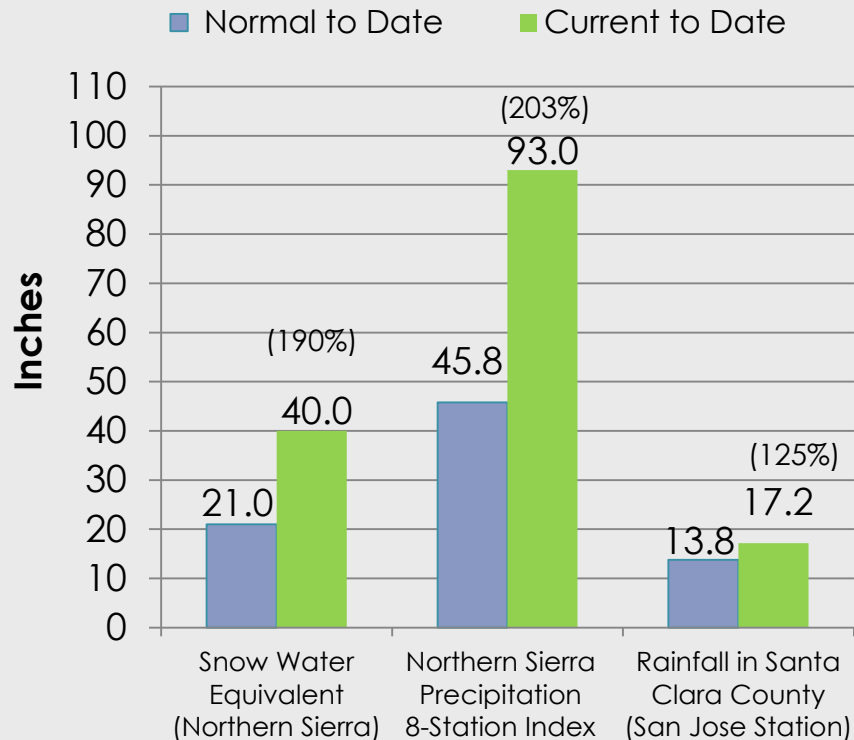
Water Retailer	2014 (Cumulative Feb to Dec)	2015	2016	2017 (Cumulative Jan to April)
San Jose Water Co.	13%	28%	29%	29%
Santa Clara (City)	10%	18%	21%	19%
Sunnyvale	14%	26%	24%	22%
San Jose Municipal	13%	26%	27%	30%
California Water Service	16%	33%	32%	41%
Palo Alto	16%	29%	27%	33%
Mountain View	16%	28%	29%	33%
Great Oaks	16%	29%	29%	28%
Milpitas	11%	18%	19%	20%
Gilroy	14%	26%	25%	24%
Morgan Hill	19%	33%	30%	32%
Purissima Hills Water	16%	26%	31%	47%
Stanford*	7%	28%	35%	38%*
<b>Total</b>	<b>13%</b>	<b>27%</b>	<b>28%</b>	<b>28%</b>

# Hydrologic and Reservoir Conditions

## Hydrologic Conditions Are Above Average

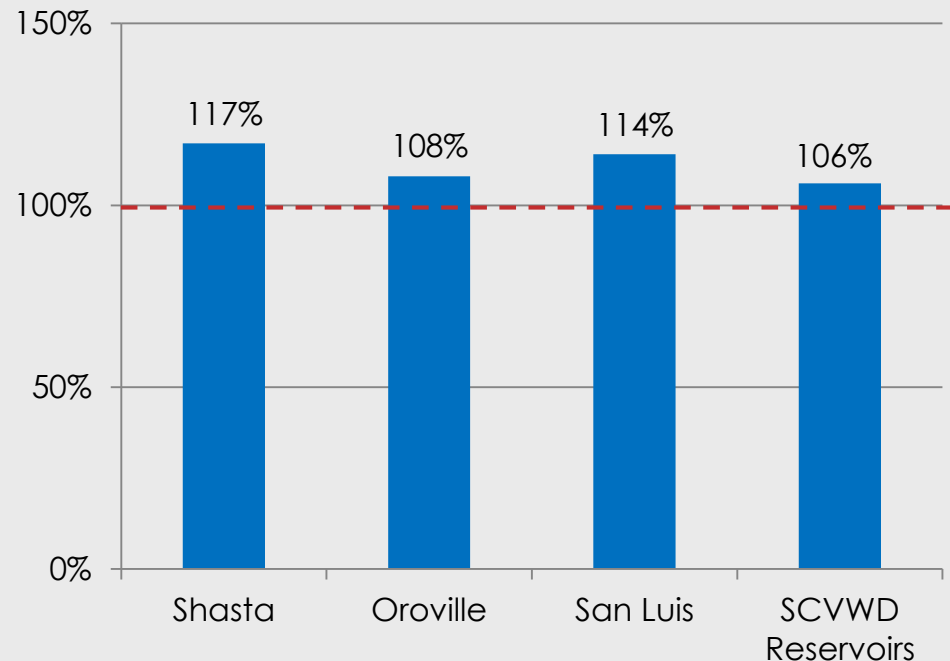
### Precipitation 2016/2017 Water Year

As of May 1, 2017

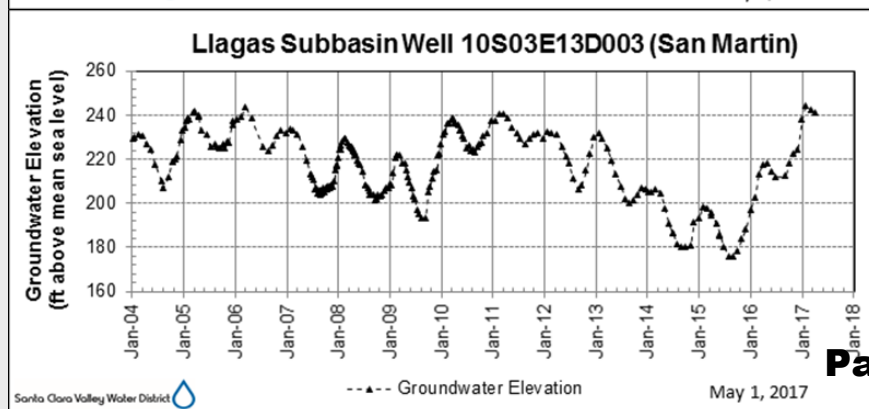
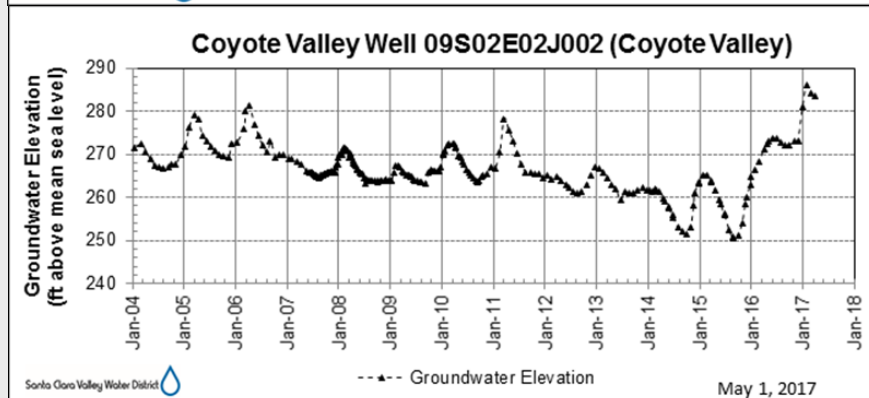
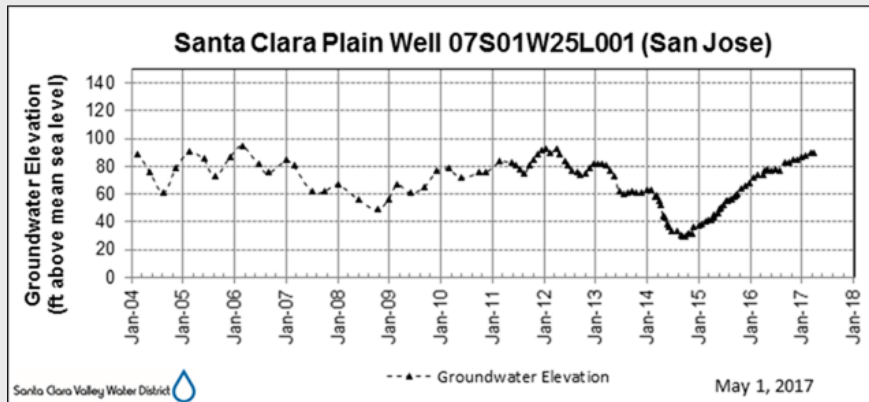


### Reservoir Storage

Percent of long-term average to date  
As of May 1, 2017

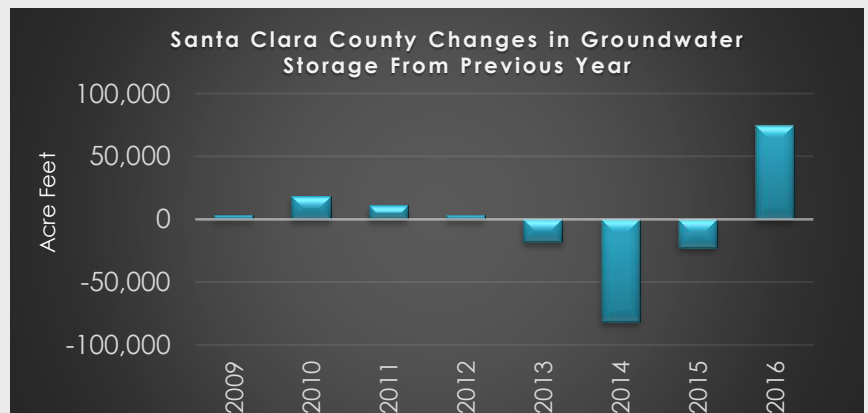


# Groundwater Conditions



Groundwater elevations in key index wells have recovered to pre-drought levels.

Positive changes in groundwater storage were seen in 2016 and continue in 2017.



# 2017 Outlook

85% =SWP Allocation (85 TAF)  
 100% =CVP Allocation (152.5 TAF)  
 Up to 75% =Semitropic (put up to 69 TAF)  
 310 TAF =End of Year Groundwater Storage

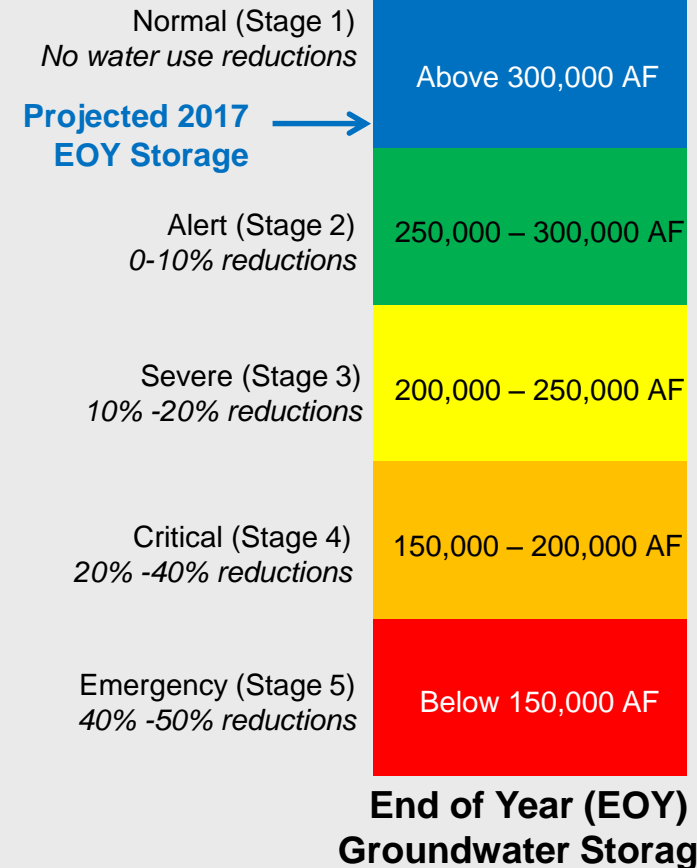


Lake Oroville (Photo: Justin Sullivan/Getty Images)

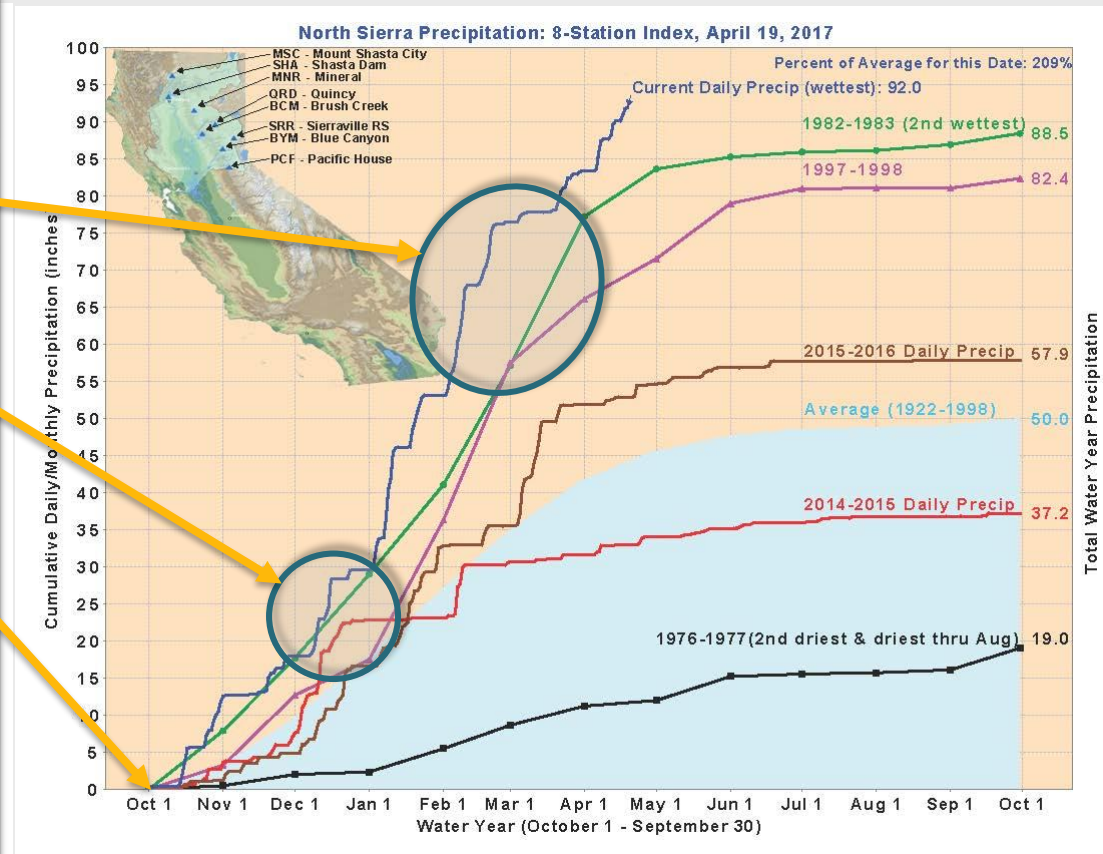
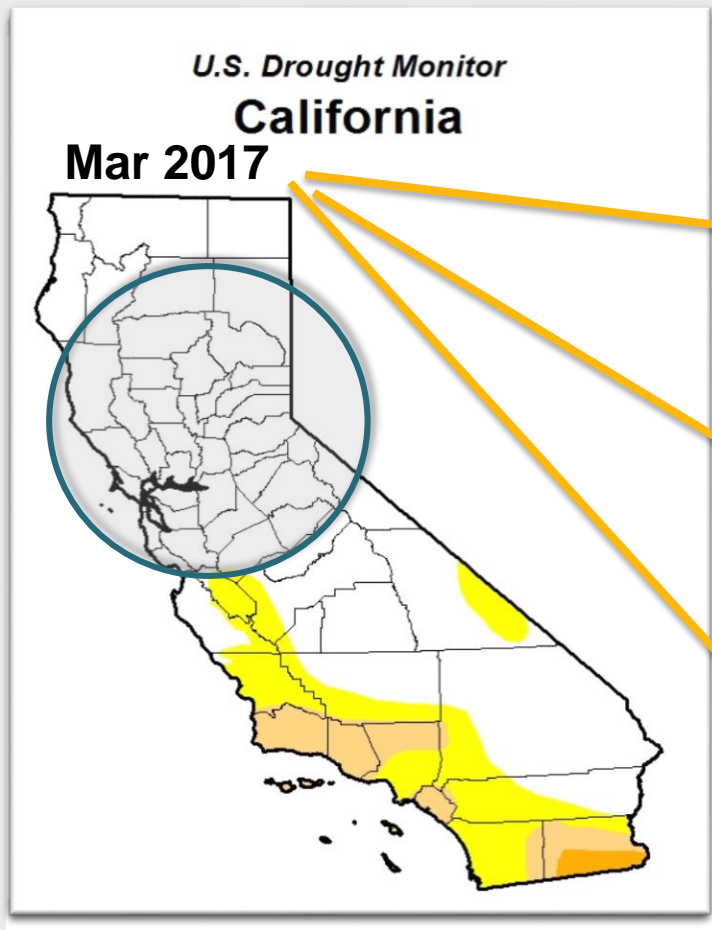


Sierra snowpack (Photo SFGATE/NASA)

## Water Shortage Contingency Plan Stages

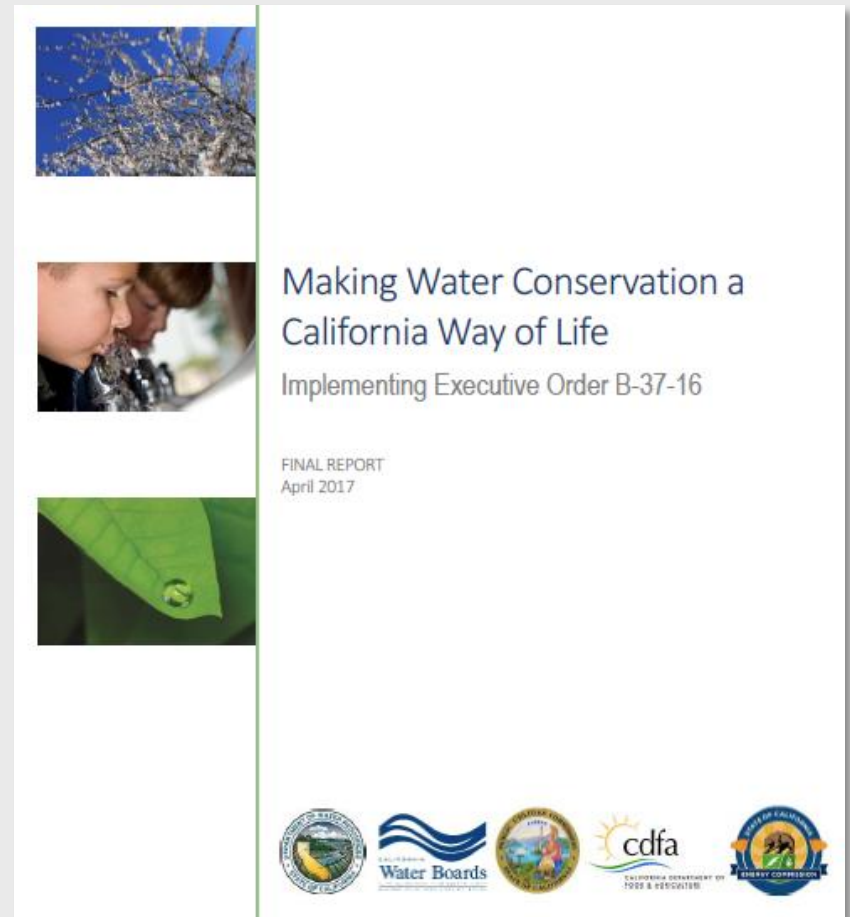


# End of Drought Emergency



# Making Water Conservation of Way of Life

- ▶ Use water more wisely
- ▶ Strengthen local drought resilience
- ▶ Improve agricultural water use efficiency
- ▶ Eliminate water waste



# Partial List of Water Waste Prohibitions

- ▶ Excess runoff
- ▶ Using potable water for vehicle washing without a shut-off nozzle
- ▶ Watering within 48 hours of measurable rainfall
- ▶ Potable water on driveways and sidewalks
- ▶ Potable water to irrigate public street medians
- ▶ Irrigation with potable water inconsistent with standards

# Water Supply Master Plan “No Regrets” Projects

- ▶ New development model ordinance
- ▶ Graywater program expansion
- ▶ Leak repair incentives
- ▶ Advanced metering infrastructure
- ▶ Stormwater recharge
- ▶ Agricultural land recharge
- ▶ Rain gardens
- ▶ Rain barrels

# Water Supply Portfolios

Project	Base Case	Strategy 1: Local Flexibility	Strategy 2: Low Cost	Strategy 3: Secure Imported Supplies	Strategy 4: Local Storage
"No Regrets" Package		•	•	•	•
Butterfield Recharge		•	•		
Additional Groundwater Banking		•	•		
Los Vaqueros Expansion		•			
Sites Reservoir			•		
Water Rights Purchase			•		
Additional Potable Reuse		•			
Pacheco Reservoir					•
California WaterFix				•	
Percent of Years that Meet the Level of Service Goal	70%	100%	100%	100%	100%



Committee:	Environmental and Water Resources
Meeting Date:	07/17/17
Agenda Item No.:	4.6
Unclassified Manager:	Garth Hall
Email:	<a href="mailto:ghall@valleywater.org">ghall@valleywater.org</a>
Est. Staff Time:	10 minutes

## COMMITTEE AGENDA MEMO

**SUBJECT:** Overview of Hydraulic Fracturing (Fracking)

### RECOMMENDED ACTION:

This is an information only item and no action is required.

### SUMMARY:

Hydraulic fracturing (HF), or “fracking” has become an increasingly common technique to enhance oil and gas production. Concerns about the potential for HF to overuse or contaminate local water supplies has prompted study by the US Environmental Protection Agency and the adoption of various requirements in California. This item provides information on HF, related state requirements, and oil and gas production in Santa Clara County. Active oil and gas production in Santa Clara County is limited to a single oil field, located about two miles west of the Llagas Subbasin. State databases indicate that HF has occurred at several wells within this oil field. Because the site is underlain by bedrock and is not directly connected to the Llagas Subbasin, it is unlikely to impact local groundwater supplies.

### BACKGROUND:

The process of HF, also referred to as “fracking”, is an enhanced method of obtaining oil and gas from an underground rock formation; HF is used in about 50% of all US oil production and about 70% of all US gas production. HF has been on the rise since the early 2000s, primarily due to advances in oil and gas drilling technology as well as to increases in the unit prices of oil and gas, both of which have made HF more economically viable.

To begin the HF oil or gas extraction process, HF fluid (typically a mixture of water, sand, and chemical additives) is injected under extremely high pressure into an underground rock formation, causing the rock to fracture and creating a fracture network which releases oil or gas that flows to the surface, along with a fraction of the HF fluid, through an oil or gas production well. The oil or gas produced by HF is then transported off-site for use while the remaining production water (a mixture of HF fluid, organic compounds present in oil and gas, salts and metals from the underground rock formation, and groundwater) is treated, reused, and/or disposed.

The process of HF is water-intensive and HF wells (and their associated facilities) may be located near sources of drinking water, leading to concerns about overuse and contamination of drinking water supplies. To address the public’s mounting concerns about HF, in 2009 Congress requested that the U.S. Environmental Protection Agency (EPA) investigate the connection between HF and drinking water supplies in more detail.

In response, the EPA published a report in December 2016, *Hydraulic Fracturing for Oil and Gas: Impacts from the Hydraulic Fracturing Water Cycle on Drinking Water Resources in the United States* (EPA HF Report),

which was the culmination of a multi-year effort by EPA scientists to analyze data from numerous sources including technical peer-reviewed journals, government reports, non-governmental organization reports, industry publications, and technical databases. An independent federal advisory committee (the EPA's Science Advisory Board) provided review and oversight throughout the entire process, including review of the EPA HF Report.

The EPA HF Report, which was nationwide in its scope of analysis, identified the following factors as most likely to lead to more severe or more frequent impacts on drinking water supplies.

- In areas where water supplies are limited, either seasonally or year-round, HF can lead to competition with potable water supplies
- Improper handling, treatment, and disposal of HF production water/wastewater can result in contamination of surface water and groundwater supplies.
- Chemicals added to the water used for HF can impact drinking water resources if the chemicals are introduced into potable water supplies through a chemical spill.
- Drinking water resources can be impacted if HF fluids are injected into structurally damaged HF wells or if HF fluids are injected directly into groundwater resources, bypassing a well.

The EPA HF Report also identified best management practices that can mitigate the impact of the above factors on drinking water supplies.

### **Summary of California State Requirements Related to Fracking**

The primary agency for oversight of oil and gas wells is the Division of Oil, Gas, and Geothermal Resources (DOGGR), which is part of the California Department of Conservation. DOGGR is responsible for monitoring the almost 90,000 oil and gas wells in the state and manages numerous programs related to well permitting and testing; safety inspections; inspection of pipelines, oil/gas fields, and tanks; closure and remediation of abandoned wells; and subsidence monitoring near oil and gas wells, among other programs. DOGGR also maintains a publicly accessible database with detailed information on all oil and gas wells in California.

The following state agencies also regulate aspects of HF: 1) the California Air Resources Board, 2) the California Department of Resources, Recycling, and Recovery, 3) the California Department of Toxic Substances Control, and 4) the California State Water Resources Control Board (SWRCB).

To increase coordination among the multiple state agencies responsible for oversight of HF and other types of oil and gas well stimulation activities (further referred to as "HF"), Senate Bill 4 (SB 4) was signed by Governor Brown in September 2013. SB 4 requires clear delineation of authority among the agencies involved in the regulation and oversight of HF. Towards this end DOGGR and SWRCB signed a Memorandum of Agreement in 2014 to define each agency's respective authority and purview. SB 4 also directed the SWRCB to develop model criteria for groundwater monitoring in areas where HF occurs. Results from implementation of the model criteria will be used to develop a comprehensive regulatory oversight program.

### **Groundwater Monitoring Criteria**

The development of the model criteria for groundwater monitoring was the result of a multi-year effort which relied on stakeholder input and an expert scientific panel from Lawrence Livermore National Laboratory. The model criteria apply to groundwater monitoring in areas where HF is planned. The model criteria were designed to focus on two different scales of groundwater monitoring: area-specific and regional. The site-specific groundwater monitoring plan must be implemented by the oil or gas operator for any HF project initiated after July 2015. The regional groundwater monitoring program will be implemented by the SWRCB or applicable Regional Water Quality Control Board. All data from both types of monitoring programs must be included in a state-maintained database that is accessible to the public.

If the HF oil or gas well(s) will be located in an area where “protected water” (defined as water with a total dissolved solids (TDS) concentration of less than 1,000 milligrams per liter (mg/L) and outside of an exempt aquifer) is present, the HF well operator must submit a groundwater monitoring plan to the SWRCB for approval prior to development or operation of the project. The groundwater monitoring plan must meet specific requirements related to baseline monitoring (i.e., prior to HF well operation); design, construction, and operation of monitoring wells; and gathering of site-specific data (e.g., hydrogeology, geochemistry). The groundwater monitoring plan must also include detailed information regarding all chemicals used during the HF process.

Published by the SWRCB in May 2017, the first *Annual Performance Report: Model Criteria for Groundwater Monitoring in Areas of Oil and Gas Well Stimulation*, summarizes the six site-specific groundwater monitoring plans submitted between July 2015 and December 2016 (all for sites in Kern County), suggesting procedures and processes that may expedite the review of future groundwater monitoring plans. The report also presents preliminary data from the regional groundwater monitoring program, including data gaps, areas for future research, and lessons learned.

### **Oil and Gas Wells in Santa Clara County**

In addition to regulation of HF by state and federal agencies, several CA municipalities have taken steps to regulate HF at the local level; the counties of Santa Cruz, Monterey, and San Benito have all banned HF within county boundaries. Santa Clara County has not implemented similar regulations related to HF. However, the District “supports efforts to place a moratorium on fracking, and all related legislative bills” as noted in its *2017 Legislative Guiding Principles*.

Most Santa Clara County oil and gas wells were drilled in the early- to mid-1900s and are now inactive. The DOGGR database lists several inactive and/or plugged oil wells in the Santa Cruz Mountains above Los Gatos. Per the DOGGR database, there is only one active oil field in Santa Clara County - the Sargent Oil Field in southwestern Santa Clara County.

The Sargent Oil Field is in the hills southwest of Gilroy two miles west of Highway 101 and outside the Llagas groundwater subbasin. The DOGGR database indicates that HF has been used at several of the Sargent Oil Field wells though it is unclear if HF is still being conducted. Total annual production at the Sargent Oil Field is around 40,000 barrels. For comparison, annual Kern County oil production (the state leader with 71% of all production) is around 141 million barrels. Per DOGGR, the Sargent Oil Field has 13 active oil wells, one well used for pressure management, and an injection well used for disposal purposes. There are also numerous abandoned and inactive oil wells at the site.

District records indicate that there are very few groundwater wells near the Sargent Oil Field, with the closest water supply well in the Llagas Subbasin approximately 2 miles east of the oil field. Geologic maps of the area and evaluation by the California Geological Survey indicate that the Sargent Oil Field is primarily underlain by bedrock. This suggests that any oil or gas wells located in the Sargent Oil Field have minimal or no groundwater flow connection to the Llagas Subbasin (the source of water for the many wells within the valley floor in southern Santa Clara County). It is therefore unlikely that operations from the Sargent Oil Field pose a significant risk to drinking water resources in southern Santa Clara County. However, the Sargent Oil Field is located near Tar Creek, which drains into Llagas Creek and ultimately the Pajaro River, the boundary between Santa Clara and San Benito counties. If a spill contaminated Tar Creek, it could potentially impact groundwater resources in the extreme southwestern portion of the Llagas Subbasin.

### **ATTACHMENT(S):**

Attachment 1: Presentation



# Hydraulic Fracturing (Fracking)

July 17, 2017 Environmental Water  
Resources Committee Meeting

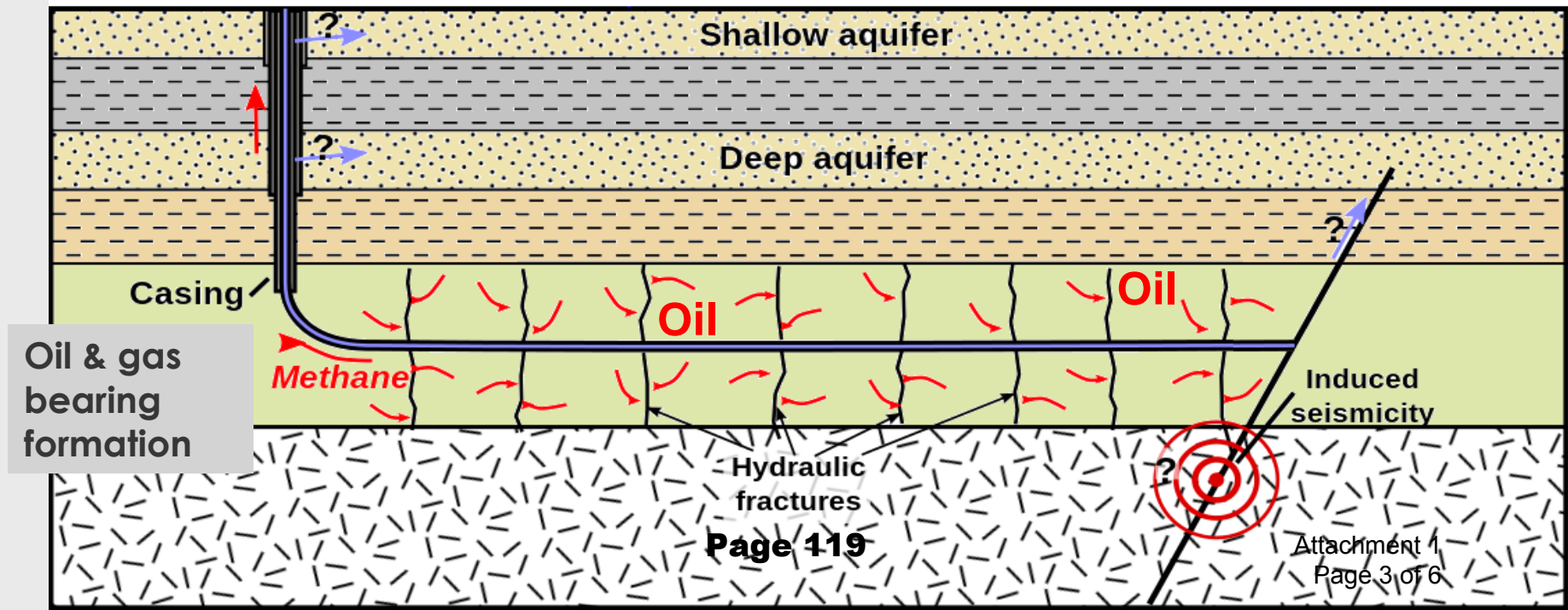


# Hydraulic Fracturing (HF)

- ▶ Process to obtain oil and gas from underground rock formations
- ▶ Increased frequency due to advances in drilling technology and rise in unit price of oil and gas
- ▶ Nationwide, used in 50% of oil production and 70% of gas production
- ▶ Less common in CA than elsewhere in the US

# Potential Impacts on Water Resources

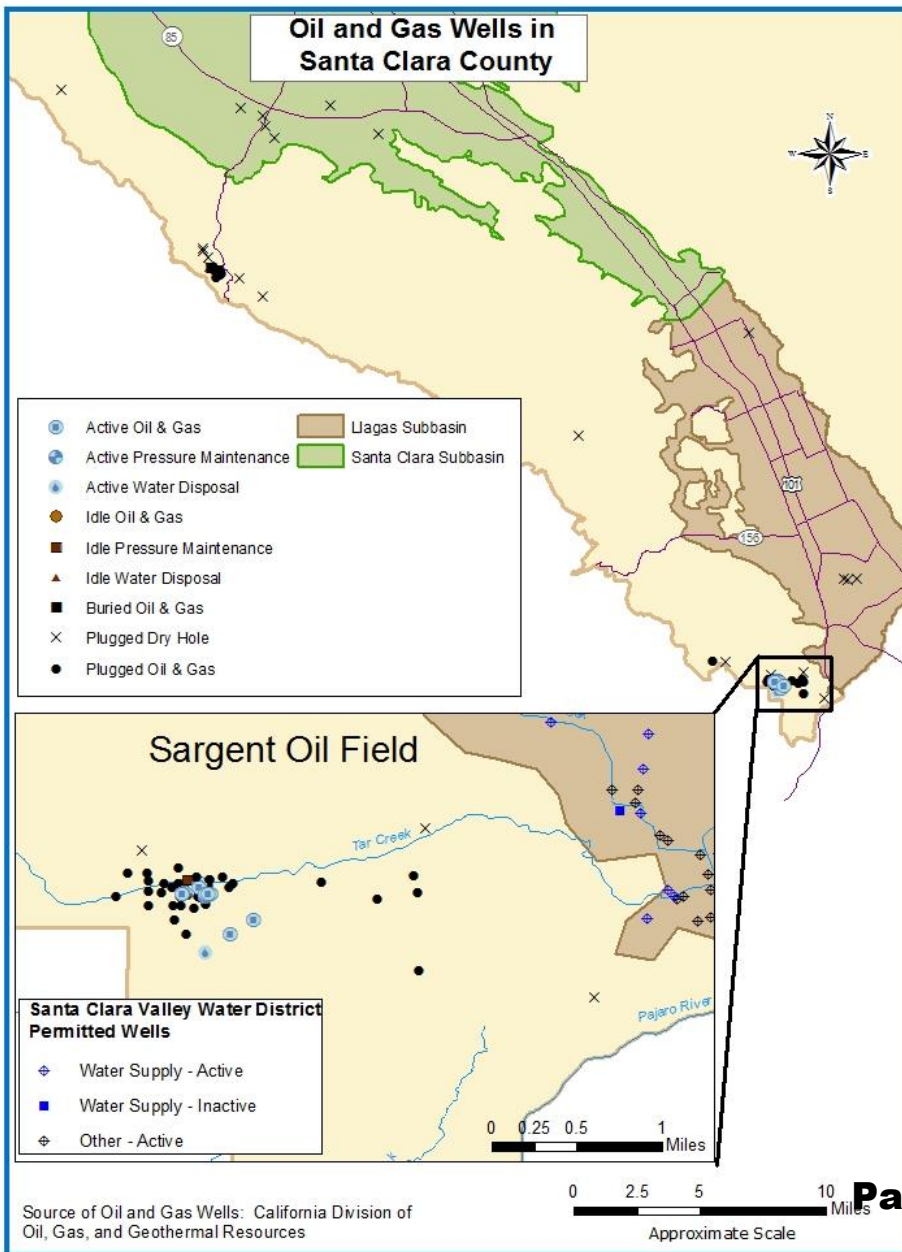
- ▶ Water-intensive
- ▶ Risk to drinking water quality
- ▶ EPA 2016 Report:
  - ▶ Determined risk factors for water quality impacts
  - ▶ Identified BMPs for mitigation



# Regulation of HF in California

- ▶ Division of Oil, Gas and Geothermal Resources (DOGGR) oversees oil/gas well permitting and operation
- ▶ Senate Bill 4 (2013)
  - ▶ Increased state agency coordination
  - ▶ More stringent DOGGR permitting/oversight
  - ▶ Groundwater monitoring criteria
- ▶ State Water Resources Control Board: Model Criteria for Groundwater Monitoring in Areas of Oil and Gas Well Stimulation
  - ▶ Stakeholder input and expert scientific panel
  - ▶ Site-specific and regional groundwater monitoring

# Oil and Gas Wells in Santa Clara County



- ▶ Most oil and gas wells drilled in early- to mid-1900s, inactive
- ▶ Sargent Oil Field has only active oil or gas wells in county
  - ▶ 13 active oil wells
  - ▶ Per DOGGR, several have used HF
  - ▶ 1 water disposal well
- ▶ The Sargent Oil Field is not directly connected to the Llagas Subbasin

# Conclusions

- ▶ Fracking does not appear to pose a significant risk to Santa Clara County's water supplies.
- ▶ The District continues to support efforts to “..place a moratorium on fracking...” per its 2017 Legislative Guiding Principles.
- ▶ The District will continue to follow state and local efforts related to fracking.



Committee:	Environmental and Water Resources
Meeting Date:	07/17/17
Agenda Item No.:	4.7
Unclassified Manager:	Michele King
Email:	<a href="mailto:mking@valleywater.org">mking@valleywater.org</a>
Est. Staff Time:	5 minutes

## COMMITTEE AGENDA MEMO

**SUBJECT:** Update from Working Groups

### RECOMMENDED ACTION:

Provide comments to the Board on implementation of District mission applicable to working groups' recommendations.

### SUMMARY:

At the Committee's January 2017 meeting, the Committee would like to see the working groups more aligned with the issues and policies that the Board of Directors has on their work plan and calendar for this year.

The Board approved the Committee's request to keep the Committee informed of the working groups' activities and results.

This will be a standing agenda item.

### BACKGROUND:

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

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

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

**ATTACHMENT(S):**

Attachment 1: Working Groups Spreadsheet

Attachment 2: Riparian Corridor Ordinance, Encroachment Process Group Memo

## 2017 EWRC Independent Working Groups

Name	1. District's Communications Programs/Civic Engagement (Review Transparency Report)	2. Winter Preparedness	3. Climate Change Mitigation	4. Climate Change and Sea Level Rise Adaptation	5. Riparian Corridor Ordinance, Encroachment Process	6. Endangered Species (Drought/Environmental Impacts)	7. Joint Use of Trails	8. Open Space Credit	Total Groups Joined
<b>New Groups to Align with Board's Calendars/Work Plans</b>									
Bonnie Bamburg									0
John Bourgeois									0
Tess Byler	1			1					2
Hon. Dean Chu									0
Patricia Colombe									0
Maya Esparza	1						1		2
Stephen A. Jordan									0
Arthur M. Keller, Ph.D.			1	1					2
Hon. Patrick S. Kwok									0
Loren B. Lewis									0
Bob Levy									0
Tara Martin-Milius	1		1	1					3
Sachihiko Michitaka					1				1
Rev, Jethroe Moore II				1			1		2
Rita Norton	1		1		1				3
Marc Rauser									0
Elizabeth Sarmiento						1			1
Charles Taylor									0
Richard Zahner									0
<b>Total Members</b>	4	0	3	4	2	1	2	0	16

No District Staff hours are provided to support the working groups

Members should limit the number of working groups they participate in because of possible Brown Act Violations (2-3 groups only)

Please Note: You will be sharing your phone number and email address with the other members when signing up.

When planning meetings, the Group Chair (Lead) should contact Glenna via email with meeting date/time and location and how many members are expected to attend.

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Committee:

Environmental and Water  
Resources

Meeting Date:

07/17/17

Agenda Item No.:

4.7

## **Working Group Memo**

Working Group Name: Riparian Corridor Ordinance, Encroachment Process

Working Group Members: Sachihiko (Mike) Michitaka and Rita Norton

Working Group Chair: Sachihiko (Mike) Michitaka

Meeting Date(s): June 26, 2017

### **Discussion Summary:**

1. What is the latest Riparian Corridor Ordinance concept for SCVWD to accept and can coordinate in relation to Ordinances of all member Cities. City by city coordination with the District or a collaborative led by the District?
- 2 The Ordinance of San Jose City documents were shared by the members to study. How the District achieve the ends of Policy No.E3 Natural Flood Protection and Policy E-4 "Water stewardship to protect and enhance watersheds" to accommodate the various ordinance of each member city and to provide regional cooperation to better accomplish these ends?
3. What is the engineering best practice of Natural Flood Protection?

### **Proposed Committee Action:**

Would like to get direction from the District on the questions posed above.





Committee:	Environmental and Water Resources
Meeting Date:	07/17/17
Agenda Item No.:	4.8
Unclassified Manager:	Michele King
Email:	<a href="mailto:mking@valleywater.org">mking@valleywater.org</a>
Est. Staff Time:	5 minutes

## COMMITTEE AGENDA MEMO

**SUBJECT:** Review Environmental and Water Resources Committee Work Plan, the Outcomes of Board Action of Committee Requests; and the Committee's Next Meeting Agenda.

### RECOMMENDED ACTION:

Review the Board-approved Committee work plan to guide the Committee's discussions regarding policy alternatives and implications for Board deliberation.

### SUMMARY:

The attached Work Plan outlines the Board-approved topics for discussion to be able to prepare policy alternatives and implications for Board deliberation. The work plan is agendaized at each meeting as accomplishments are updated and to review additional work plan assignments by the Board.

### BACKGROUND:

#### Governance Process Policy-8:

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

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

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

### ATTACHMENT(S):

Attachment 1: Environmental and Water Resources Committee 2017 Work Plan  
Attachment 2: Environmental and Water Resources Committee October 2017 Draft Agenda



## 2017 Work Plan: Environmental and Water Resources Committee

Update: June 2017

GP8. Accordingly, the Board has established Advisory Committees, which bring respective expertise and community interest, to advise the Board, when requested, in a capacity as defined: prepare Board policy alternatives and provide comment on activities in the implementation of the District's mission for Board consideration. In keeping with the Board's broader focus, Advisory Committees will not direct the implementation of District programs and projects, other than to receive information and provide comment.

The annual work plan establishes a framework for committee discussion and action during the annual meeting schedule. The committee work plan is a dynamic document, subject to change as external and internal issues impacting the District occur and are recommended for committee discussion. Subsequently, an annual committee accomplishments report is developed based on the work plan and presented to the District Board of Directors.

ITEM	WORK PLAN ITEM	MEETING	INTENDED OUTCOME(S) (Action or Information Only)	ACCOMPLISHMENT DATE AND OUTCOME
1	Annual Accomplishments Report	January 23	<ul style="list-style-type: none"> <li>Review and approve 2016 Accomplishments Report for presentation to the Board. <b>(Action)</b></li> <li>Provide comments to the Board, as necessary.</li> </ul>	<p><b><u>Accomplished January 23, 2017:</u></b> The Committee reviewed and approved the 2016 Accomplishments Report for presentation to the Board.</p> <p><i>The Board received the 2016 Accomplishments report at their March 28, 2017, meeting.</i></p>
2	Election of Chair and Vice Chair for 2017	January 23	<ul style="list-style-type: none"> <li>Committee Elects Chair and Vice Chair for 2017. <b>(Action)</b></li> </ul>	<p><b><u>Accomplished January 23, 2017:</u></b> The Committee elected the 2017 Committee Chair and Vice-Chair, Mr. Loren Lewis and Ms. Elizabeth Sarmiento respectively.</p>
3	Water Supply Update and Drought Response	January 23 July 17	<ul style="list-style-type: none"> <li>Receive update on water supply and drought response. <b>(Action)</b></li> <li>Provide comments to the Board, as necessary.</li> </ul>	<p><b><u>Accomplished January 23, 2017:</u></b> The Committee received information on the water supply and drought response and took no action.</p>

Yellow = Update Since Last Meeting

Blue = Action taken by the Board of Directors

Attachment 1

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# 2017 Work Plan: Environmental and Water Resources Committee

Update: June 2017

ITEM	WORK PLAN ITEM	MEETING	INTENDED OUTCOME(S) (Action or Information Only)	ACCOMPLISHMENT DATE AND OUTCOME
4	Review of Environmental and Water Resources Committee Work Plan, the Outcomes of Board Action of Committee Requests and the Committee's Next Meeting Agenda	January 23 April 17 July 17 October 16	<ul style="list-style-type: none"> <li>Receive and review the 2017 Board-approved Committee work plan. <b>(Action)</b></li> <li>Submit requests to the Board, as appropriate.</li> </ul>	<p><b>Accomplished January 23, 2017:</b> The Committee received the 2017 Work Plan and took the following actions:</p> <p><b>Committee Actions:</b></p> <ul style="list-style-type: none"> <li>Adding to the plan discussion an energy use policy.</li> <li>Receive an audit on the District's environmental/disposable products from food services (catering).</li> </ul> <p><b>Accomplished April 17, 2017:</b> The Committee received the 2017 Work Plan and took the following actions:</p>
5	Status of Working Groups/Realignment of Working Groups	January 23 April 17 July 17 October 16	<ul style="list-style-type: none"> <li>Receive updates on the status of the working groups (realignment). <b>(Action)</b></li> <li>Submit requests to the Board, as appropriate.</li> </ul>	<p><b>Accomplished January 23, 2017:</b> The Committee discussed the working groups and chose to have the groups align with the Board's schedule and calendar.</p> <p><b>Accomplished April 17, 2017:</b> The Committee discussed the working groups and chose 7 groups to sign up for.</p>
6	Review and Comment to the Board on the Fiscal Year 2018 Proposed Groundwater Production Charges	April 17	<ul style="list-style-type: none"> <li>Review and comment to the Board on the Fiscal Year 2018 Proposed Groundwater Production Charges. <b>(Action)</b></li> <li>Provide comments to the Board, as necessary.</li> </ul>	<p><b>Accomplished April 17, 2017:</b> The Committee reviewed the Fiscal Year 2018 Proposed Groundwater Production Charges and took no action.</p>

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## 2017 Work Plan: Environmental and Water Resources Committee

Update: June 2017

ITEM	WORK PLAN ITEM	MEETING	INTENDED OUTCOME(S) (Action or Information Only)	ACCOMPLISHMENT DATE AND OUTCOME
7	Receive a brief report of the ongoing discussion with the Sierra Club and District on Water Planning.	April 17	<ul style="list-style-type: none"> <li>Receive a brief report of the ongoing discussion with the Sierra Club and District on Water Planning. <i>(Information)</i></li> <li>Provide comments to the Board, as necessary.</li> </ul>	<b>Accomplished April 17, 2017:</b> The Committee receive a brief report of the ongoing discussion with the Sierra Club and District on Water Planning and took no action.
8	Socially Responsible Investment Policy	July 17	<ul style="list-style-type: none"> <li>Receive information regarding the principles of socially responsible investment policy and provide comments, if applicable. <i>(Information)</i></li> </ul>	
9	Santa Clara Valley Water District Communications and Community Engagement Program Update	July 17	<ul style="list-style-type: none"> <li>Receive information on District Communications and Community Engagement Program Update. <i>(Information)</i></li> </ul>	
10	Board Feedback on the Safe, Clean Water and Natural Flood Protection Program (Safe, Clean Water Program)	July 17	<ul style="list-style-type: none"> <li>Discussion on Board Feedback on the Safe, Clean Water and Natural Flood Protection Program (Safe, Clean Water Program). <i>(Action)</i></li> <li>Provide comments to the Board, as necessary.</li> </ul>	

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## 2017 Work Plan: Environmental and Water Resources Committee

Update: June 2017

ITEM	WORK PLAN ITEM	MEETING	INTENDED OUTCOME(S) (Action or Information Only)	ACCOMPLISHMENT DATE AND OUTCOME
11	One Water Plan – July 2017 Update	July 17	<ul style="list-style-type: none"> <li>Receive an update on the One Water Plan. <i>(Action)</i></li> <li>Provide comments to the Board, as necessary.</li> </ul>	
12	Overview of Hydraulic Fracturing (Fracking)	July 17	<ul style="list-style-type: none"> <li>Overview of Hydraulic Fracturing (Fracking) <i>(Action)</i></li> <li>Provide comments to the Board, as necessary.</li> </ul>	
13	Winter Preparedness Update	October 16	<ul style="list-style-type: none"> <li>Receive information on the District's Winter Preparedness. <i>(Information)</i></li> </ul>	
14	Update on the CAWater Fix	October 16	<ul style="list-style-type: none"> <li>Receive an update on the CAWater Fix <i>(Action)</i></li> <li>Provide comments to the Board, as necessary.</li> </ul>	
15	Update on Joint Use of Trails	October 16	<ul style="list-style-type: none"> <li>Receive information on the joint use of trails. <i>(Information)</i></li> </ul>	

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ITEM	WORK PLAN ITEM	MEETING	INTENDED OUTCOME(S) (Action or Information Only)	ACCOMPLISHMENT DATE AND OUTCOME
16	Receive information on shallow aquifers, dewatering, recharge, well pumping (when to use or not).	October 16	<ul style="list-style-type: none"> <li>Receive information on shallow aquifers, dewatering, recharge, well pumping (when to use or not).</li> <li>Provide comments to the Board, as necessary.</li> </ul>	
17	Discussion on the Riparian Corridor Ordinance, Encroachment Process	October 16	<ul style="list-style-type: none"> <li>Discuss the Riparian Corridor Ordinance, Encroachment Process. <b>(Action)</b></li> <li>Provide comments to the Board, as necessary.</li> </ul>	
18	Discussion on Environmental Issues-Endangered Species, Drought Environmental Impacts	TBD	<ul style="list-style-type: none"> <li>Discuss the environmental issues-endangered species, drought environmental impacts. <b>(Action)</b></li> <li>Provide comments to the Board, as necessary.</li> </ul>	
19	Climate Change Mitigation – Carbon Neutrality by 2020 Program Update	TBD	<ul style="list-style-type: none"> <li>Receive information on climate change mitigation – carbon neutrality by 2020 program update. <b>(Action)</b></li> <li>Provide comments to the Board, as necessary.</li> </ul>	

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Attachment 1

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ITEM	WORK PLAN ITEM	MEETING	INTENDED OUTCOME(S) (Action or Information Only)	ACCOMPLISHMENT DATE AND OUTCOME
20	<p>Receive information on Climate Change And the District's policy response regarding flooding, sea level rise, wildfires.</p> <p>Climate Change and Sea Level Rise Adaptation – Water Supply, Flood Protection, Ecosystems Protection</p>	TBD	<ul style="list-style-type: none"> <li>Receive information on climate change and the District's policy response regarding flooding, sea level rise, wildfires. <b>(Action)</b></li> <li>Provide comments to the Board, as necessary.</li> <li></li> </ul>	
21	Civic Engagement	TBD	<ul style="list-style-type: none"> <li>Receive feedback from Committee per Transparency Audit. <b>(Action)</b></li> <li>Provide comments to the Board, as necessary.</li> </ul>	
22	Demand Management Strategies and Portfolio	TBD	<ul style="list-style-type: none"> <li>Discussion on demand management strategies and portfolio. <b>(Action)</b></li> <li>Provide comments to the Board, as necessary.</li> </ul>	
23	Energy Policy Discussion	TBD	<ul style="list-style-type: none"> <li>Discuss any District energy policies. <b>(Action)</b></li> <li>Provide comments to the Board, as necessary.</li> </ul>	

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Attachment 1

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## 2017 Work Plan: Environmental and Water Resources Committee

Update: June 2017

ITEM	WORK PLAN ITEM	MEETING	INTENDED OUTCOME(S) (Action or Information Only)	ACCOMPLISHMENT DATE AND OUTCOME
24	District's environmental audit of disposable (paperware) products pertaining to their food services.	TBD	<ul style="list-style-type: none"><li>Receive information of the District's environmental audit of disposable (paperware) products pertaining to their food services. <b>(Information)</b></li></ul>	

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*blue = Action taken by the Board of Directors*

Attachment 1

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**Committee Officers**

Loren Lewis, Chair  
Elizabeth Sarmiento, Vice Chair

**Board Representative**

Tony Estremera, Board Representative  
Nai Hsueh, Board Alternate  
Linda J. LeZotte, Board Representative

**DRAFT AGENDA**

**ENVIRONMENTAL AND WATER RESOURCES COMMITTEE**

**MONDAY, OCTOBER 16, 2017**

**6:00 p.m. – 8:00 p.m.**

**Santa Clara Valley Water District  
Headquarters Building Boardroom  
5700 Almaden Expressway  
San Jose, CA 95118**

**Time Certain:**

**6:00 p.m.**

**1. Call to Order/Roll Call**

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

*Comments should be limited to two minutes. If the Committee wishes to discuss a subject raised by the speaker, it can request placement on a future agenda.*

**3. Approval of Minutes**

3.1 Approval of Minutes – July 17, 2017, meeting

**4. Action Items**

4.1 Update on the District's Winter Preparedness (Raymond Fields)

**Recommendation: This is an information item only and no action is required.**

4.2 Update on CA WaterFix (Cindy Kao)

**Recommendation: This is an action item; however, no action is required.**

4.3 Joint Use of Trails (Usha Chatwani)

**Recommendation: This is an action item; however, no action is required.**

4.4 Receive information on shallow aquifers, dewatering, recharge, well pumping (when to use or not). (Vanessa De La Piedra)

**Recommendation: This is an information item only and no action is required.**

4.5 Discussion on the Riparian Corridor Ordinance, Encroachment Process (Vincent Gin)

**Recommendation: This is an information item only and no action is required.**

4.6 Update from Working Groups (Committee Chair)

**Recommendation: Provide comment to the Board in the implementation of the District's mission as it applies to the working groups' recommendations.**

- 4.7 Review Environmental and Water Resources Committee Work Plan, the Outcomes of Board Action of Committee Requests and the Committee's Next Meeting Agenda (Committee Chair)

**Recommendation: Review the Board-approved Committee work plan to guide the committee's discussions regarding policy alternatives and implications for Board deliberation.**

**5. Clerk Review and Clarification of Committee Requests to the Board**

*This is a review of the Committee's Requests, to the Board (from Item 4). The Committee may also request that the Board approve future agenda items for Committee discussion.*

**6. Reports**

*Directors, Managers, and Committee members may make brief reports and/or announcements on their activities. Unless a subject is specifically listed on the agenda, the Report is for information only and not discussion or decision. Questions for clarification are permitted.*

6.1 Director's Report

6.2 Manager's Report

6.3 Committee Member Reports

**7. Adjourn:** Adjourn to next regularly scheduled meeting at 6:00 p.m., **January 22, 2018**, in the Headquarters Building Boardroom, 5700 Almaden Expressway, San Jose, CA 95118

All public records relating to an open session item on this agenda, which are not exempt from disclosure pursuant to the California Public Records Act, that are distributed to a majority of the legislative body will be available for public inspection at the Office of the Clerk of the Board at the Santa Clara Valley Water District Headquarter Building, 5700 Almaden Expressway, San Jose, CA., 95118, at the same time that the public records are distributed or made available to the legislative body.

The Santa Clara Valley Water District will make reasonable efforts to accommodate persons with disabilities wishing to attend committee meetings. Please advise the Clerk of the Board office of any special needs by calling 1-408-630-2277.

**Environmental and Water Resources Committee's Purpose and Duties**

The Environmental and Water Resources Committee of the Santa Clara Valley Water District is established to assist the Board of Directors (Board) with policies pertaining to water supply, flood protection and environmental stewardship.

The specific duties are:

- Prepare policy alternatives;
- Provide comment on activities in the implementation of the District's mission; and
- Produce and present to the Board an Annual Accomplishments Report that provides a synopsis of the annual discussions and actions.

In carrying out these duties, Committee members bring to the District their respective expertise and the interests of the communities they represent. In addition, Committees may help the Board produce the link between the District and the public through information sharing to the communities they represent.