

I hereby certify that the following agenda was posted at least 72 hours prior to the time of the meeting so noticed below at 24251 Los Alisos Boulevard, Lake Forest, California.



DENNIS P. CAFFERTY, Secretary of the El Toro Water District and the Board of Directors thereof



AGENDA
EL TORO WATER DISTRICT
REGULAR MEETING OF THE
BOARD OF DIRECTORS

February 27, 2020

(Director Vergara will be teleconferencing from:
Texas Station Gambling Hall & Hotel, 2101 Texas Star Lane,
North Las Vegas, NV 89032)

7:30 a.m.

CALL MEETING TO ORDER – President Monin

PLEDGE OF ALLEGIANCE – Vice President Gaskins

ORAL COMMUNICATIONS/PUBLIC COMMENTS

Members of the public may address the Board at this time or they may reserve this opportunity with regard to an item on the agenda, until said item is discussed by the Board. Comments on other items will be heard at the time set aside for “COMMENTS REGARDING NON-AGENDA ITEMS.” The public may identify themselves when called on and limit their comments to three minutes.

ITEMS RECEIVED TOO LATE TO BE AGENDIZED

Determine need and take action to agendize items which arose subsequent to the posting of the Agenda. (ROLL CALL VOTE: Adoption of this recommendation requires a two-thirds vote of the Board members present, or, if less than two-thirds of the Board members are present, a unanimous vote of those members present.)

PRESENTATION OF AWARDS, RECOGNITIONS AND INTRODUCTIONS

a. Service Awards

There are no acknowledgements.

b. Continuing Education & Training, Degree and Certification Program acknowledgement

There are no acknowledgements.

c. Special District/Employee Association/Community Award Acknowledgement and Employee Special Recognition

There are no acknowledgements.

d. Staff Department Presentations

Staff will provide a presentation describing the staff roles and responsibilities associated with the operation and maintenance of the District's Water Recycling Plant (WRP).

CONSENT CALENDAR

(All matters under the Consent Calendar will be approved by one motion unless a Board member or a member of the public requests separate action or discussion on a specific item)

1. **Approval of Minutes & Conferences** (Minutes Included)

- a. Consider approving the minutes of the January 23, 2020 Board meeting.
- b. Consider approving the Directors to attend the ACWA Spring Conference on May 3-8, 2020 in Monterey, Ca.

APPROVAL OF ITEMS REMOVED FROM TODAY'S CONSENT CALENDAR

The Board will discuss items removed from today's Consent Calendar requiring further discussion.

Recommended Action: The Board will be requested to approve the items removed from today's Consent Calendar.

2. **Quarterly Review of the District's 401(k) Retirement Savings Plan**
(Reference Material Included)

A HighMark representative will review and comment on the investment performance of the District's 401(k) Retirement Savings Plan.

Recommended Action: Staff recommends that the Board Receive and File the Quarterly review of the District's 401(k) Retirement Savings Plan.

DIRECTOR/COMMITTEE REPORTING

3. **Director Reports for Meetings Attended** (Oral Report)

GENERAL MANAGER ACTION ITEMS

4. **Resolution No. 20-2-1 Which Adopts Fair Political Practice Commission Form 806 in the Form and Content and Authorizing and Directing the Posting of Said Form 806 on the District's Website** (Reference Material Included)

Staff will review and comment on Resolution No. 20-2-1 which adopts Fair Political Practice Commission Form 806 in the form and content and authorizes and directs the posting of same on the District's website.

Recommended Action: Staff recommends adopting Resolution No. 20-2-1 which adopts Fair Political Practice Commission Form 806 in the form and content and authorizes and directs the posting of same on the District's website.

RESOLUTION NO. 20-2-1

RESOLUTION OF THE BOARD OF DIRECTORS
OF THE EL TORO WATER DISTRICT
ADOPTING FAIR POLITICAL PRACTICE COMMISSION
FORM 806 IN THE FORM AND CONTENT
ATTACHED TO THIS RESOLUTION, AND AUTHORIZING THE POSTING
AND DIRECTING THE POSTING OF SAID FORM 806
ON THE DISTRICT'S WEBSITE

5. **Nomination of a Candidate to the California Special Districts Association Board of Directors, Southern Network, Seat B** (Reference Material Included)

Staff will comment on the potential nomination of a candidate to the California Special Districts Association Board of Directors, Southern Network, Seat B, and the requirement to submit the nomination by the March 6, 2020 deadline.

Recommended Action: The Board will consider nominating a candidate to the California Special Districts Association Board of Directors, Southern Network, Seat B, and submitting the nomination by the March 6, 2020 deadline.

6. **Nomination of a Candidate to the California Special Districts Association Board of Directors, Seat C** (Reference Material Included)

Staff will comment on the potential nomination of a candidate to the California Special Districts Association Board of Directors, Seat C, and submitting the nomination by the March 26, 2020 deadline.

Recommended Action: The Board will consider nominating a candidate to the California Special Districts Association Board of Directors, Seat C, and submitting the nomination by the March 26, 2020 deadline.

GENERAL MANAGER INFORMATION ITEMS

7. **General Manager's Monthly Report** (Report Included)

Staff will review and comment on the General Manager's Monthly Report.

8. **Legislative Reports** (Reference Materials Included)

Staff and General Counsel will review and comment on the Legislative reports.

9. **Public Education and Outreach & Water Conservation Reports** (Reference Material Included)

10. **SOCWA Reports** (Reference Material Included)

- a. SOCWA Board Meeting – February 6, 2020
- b. SOCWA Engineering Committee Meeting – February 13, 2020
- c. SOCWA Finance Committee Meeting – February 20, 2020

11. **Municipal Water District Of Orange County (MWDOC) Report** (Reference Material Included)

- a. MWDOC Planning & Operations – February 3, 2020
- b. MWDOC/MET Directors Workshop – February 5, 2020
- c. MWDOC Administration & Finance Committee – February 12, 2020
- d. MWDOC Public Affairs & Legislation – February 18, 2020
- e. MWDOC Board Meeting – February 19, 2020
- f. MWDOC Managers Meeting – February 20, 2020

12. **Local Agency Formation Commission (LAFCO) Report**

- a. Report on the February 12, 2020 meeting - canceled

13. South Orange County Watershed Management Area (SOCWMA) Management and/or Executive Committee Report

- a. Report on the February 3, 2020 Management Committee meeting.
- b. Report on the February 6, 2020 SOCWMA Executive Committee meeting.

14. ISDOC Meetings (Reference Material Included)

- a. Report on the February 4, 2020 ISDOC Executive Committee Meeting

15. WACO Meetings (Reference Material Included)

- a. Report on the February 7, 2020 WACO Meeting
- b. Report on the February 18, 2020 WACO Planning Committee meeting

16. City Coordination Efforts

Report on the February 26, 2020 meeting.

COMMITTEE AND GENERAL INFORMATION

17. Dates to Remember for February/March 2020 (Reference Material Included)

18. Carry-Over Pending Matters

COMMENTS REGARDING NON-AGENDA ITEMS

ATTORNEY REPORT

CLOSED SESSION

At this time the Board will go into Closed Session as follows:

- 1. At this time the Board will go into Closed Session pursuant to Government Code Section 54956.9 (d) (1) to consult with legal counsel and staff on a matter of pending litigation. *The People of the State of California, acting by and through the Department of Transportation. Plaintiff, vs. County of Orange; Pacific and Telegraph Co.; Santa Margarita Water District; Laguna Hills Sanitation, Inc., California Corporation; and Does 1 through 50, inclusive. Defendants- Orange County Superior Court- Case No. 30-2020-01122114-CU-EI-CXC.*

2. At this time the Board will go into Closed Session pursuant to Government Code Section 54956.9 (d) (2) to consult with legal counsel and staff on a matter of anticipated litigation (In the matter of a Claim filed by Donald P. Driscoll, Esq. on behalf of Anne Moell, et al).

REGULAR SESSION

REPORT ON CLOSED SESSION (Legal Counsel)

Mr. Granito will provide an oral report on the Closed Session.

ADJOURNMENT

Recommended Action: The Board will be requested to take action adjourning today's Board meeting to **Thursday, March 26, 2020 at 7:30 a.m.** at the El Toro Water District, 24251 Los Alisos Boulevard, Lake Forest, California.

The agenda material for this meeting is available to the public at the District's Administrative Office, which is located at 24251 Los Alisos Blvd., Lake Forest, Ca. 92630. If any additional material related to an open session agenda item is distributed to all or a majority of the board of directors after this agenda is posted, such material will be made available for immediate public inspection at the same location.

Request for Disability-Related Modifications or Accommodations

If you require any disability-related accommodation, including auxiliary aids or services, in order to participate in this public meeting, please telephone the District's Recording Secretary, Polly Welsch at (949) 837-7050, extension 225 at least forty-eight (48) hours prior to said meeting. If you prefer, your request may be submitted in writing to El Toro Water District, P.O. Box 4000, Laguna Hills, California 92654, Attention: Polly Welsch.

MINUTES OF THE REGULAR MEETING
OF THE
BOARD OF DIRECTORS
OF THE
EL TORO WATER DISTRICT
January 23, 2020

President Monin called the meeting of the Board of Directors of the ELTORO WATER DISTRICT to order at 7:30 a.m. on January 23, 2020 at the El Toro Water District Administrative Offices, 24251 Los Alisos Boulevard, Lake Forest, California.

Vice President Gaskins led in the Pledge of Allegiance to the flag.

Present at today's meeting were Committee Members JOSE F. VERGARA, MARK MONIN, KATHRYN FRESHLEY, MIKE GASKINS, and KAY HAVENS.

Also present were DENNIS P. CAFFERTY, General Manager, JUDY CIMORELL, Human Resources Manager, NEELY SHAHBAKHTI, Finance Manager/Controller, SHERRI SEITZ, Public Relations/Emergency Preparedness Administrator, RICK OLSON, Operations Superintendent, BOBBY YOUNG, Principal Engineer, GILBERT J. GRANITO, General Counsel, POLLY WELSCH, Recording Secretary, FERNANDO PALUDI, TCWD General Manager, RICHARD BABBE, CAMP Representative, and CAROL MOORE, Laguna Woods City Council Member.

Oral Communications - Public Comments

President Monin stated that at this time members of the public may address the Board or they may reserve this opportunity with regards to an item on the agenda, until the Board discusses said item later in today's meeting.

Mr. Paludi introduced himself and stated that he was Trabuco Canyon's General Manager.

Items Received Too Late To Be Agendized

President Monin asked if there are any items received too late to be agendized. Mr. Cafferty replied no.

Presentation of Awards, Recognitions and Introductions

1. Mr. Cafferty recognized and congratulated Bobby Young, Principal Engineer, for 5 years of service with the District.

Consent Calendar

All matters under the Consent Calendar will be approved by one motion unless a Board member or a member of the public requests separate action or discussion on a specific item.

1. Consider approving the December 19, 2019 Board meeting minutes.
2. Consider approving Amendment No. 1 to the General Manager's Employment Agreement.
3. Consider approving the Directors to attend the 2020 WateReuse California Annual Conference on March 15-17, 2020 in San Francisco, Ca.

President Monin asked for a Motion.

Motion: Director Vergara made a Motion, seconded by Director Freshley, and unanimously carried across the Board to approve the Consent Calendar.

At approximately 7:42 a.m. Mr. Paludi left the meeting.

CAMP Presentation

Mr. Babbe stated that the Fed made 3 cuts in interest rates in 2019, and that they are likely on hold for an extended period of time. He further stated that Recession fears subsided and the Yield Curve un-inverted in the 4th quarter.

Mr. Babbe stated that Treasury Yields have settled into a new lower range, with falling unemployment supporting improved Consumer Confidence. He further stated that Trade remains among many Global concerns.

Mr. Babbe stated that the portfolio's maturity continues to shorten, as we let investment maturities roll into pooled investments per the Board direction. He further stated that the shorter average duration relative to the benchmark hurt the portfolio's performance relative to benchmark as interest rates fell sharply during 2019.

Mr. Babbe stated that the drop in interest rates in 2019 resulted in unrealized market value gains, which increased the portfolio's market value return. He further stated that with no new investments, the yield remains unchanged, and short-term rates fell sharply driven by cuts in the federal funds target rate.

President Monin asked about the average coupon and average rating. Mr. Babbe stated that the average rating on the portfolio would be double A, and he would need to check on the average coupon.

Director Freshley asked about Total Performance, since inception. Mr. Babbe replied that the inception date is 9/30/16. Director Freshley stated that ICE is remaining close to what our portfolio is doing. Mr. Babbe replied that ICE is the name of the 1-3 year Treasury index.

Director Havens asked about the fees and if this is what's keeping the portfolio down. Mr. Babbe replied no, the fees are approximately 10 basis points per year.

President Monin asked about Mr. Babbe's feel for interest rates in 2020. Mr. Babbe replied that given the current economy, the rates should remain, but that depends on what happens to the economy in 2020.

Vice President Gaskins asked what risk we would be exposed to by going to a more managed portfolio. Mr. Babbe replied that any approach is a managed portfolio, and there is always risk involved.

At approximately 8:14 a.m. Mr. Babbe left the meeting.

Director Reports for Meetings Attended

Director Vergara stated that he attended the WACO meeting, the MWDOC/MET workshop, the MWDOC Planning/Operations meeting, the MWDOC Admin/Finance meeting, City of Lake Forest Open House, OCWA luncheon, and will be attending the South Orange County Economic Coalition meeting and the ISDOC luncheon.

Vice President Gaskins stated that he attended the ISDOC meeting, LAFCO, SOCWA Board meeting, WACO, MWDOC Public Affairs meeting, and will be attending the South Orange County Economic Coalition meeting, the ISDOC luncheon, and appeared on TV-6.

Director Havens stated that she attended the MWDOC/MET Directors meeting, an Aliso Creek Watershed Collaborative workshop, SOCWA Board meeting, WACO, Girl Scouts Tour, OCWA luncheon, and will be attending the ISDOC luncheon.

Director Freshley stated that she attended the MWDOC/MET Directors workshop, SOCWA Board meeting, WACO, OCWA luncheon, LAFCO meetings, and plans to attend the South Orange County Coalition meeting and the ISDOC luncheon.

President Monin stated that he attended the ISDOC meeting, Laguna Woods City Council meeting, WACO, MWDOC Admin/Finance meeting, and plans to attend the ISDOC quarterly meeting.

General Manager Action Items

Resolution No. 20-1-4 Establishing Date, Time, and Place of Regular Board Meetings and Board/Engineering & Finance/Insurance Committee Meetings of the Board of Directors for Calendar Year 2020

Mr. Cafferty stated that this Resolution modifies the schedule for the Board meetings to move the Engineering & Finance Committee meetings from Tuesday to Monday to allow the Directors to attend other meetings on Tuesdays.

President Monin asked for a Motion.

Motion: Vice President Gaskins made a Motion, seconded by Director Freshley to adopt Resolution 20-1-4 establishing date, time, and place of regular Board meetings and Board/Engineering and Finance/Insurance Committee meetings of the Board of Directors for Calendar Year 2020.

Resolution No. 20-1-5 Modifying Standing and External Organization Board and Staff Assignments for Calendar Year 2020

Mr. Cafferty stated that this Resolution changes some of the Board member Committee assignments.

President Monin asked for a Motion.

Motion: Director Vergara made a Motion, seconded by Director Havens to adopt Resolution 20-1-5 modifying Standing and External Organizational Board and Staff Assignments for Calendar Year 2020.

Resolution No. 20-1-6 Amending District Meeting Rooms Use Policy

Mr. Cafferty stated that the Orange County Registrar of Voters has asked to use the District's Multipurpose Room for a Voting Center, which caused a need to update the Meeting Rooms Use Policy. He further stated that Trabuco Canyon Water District is also providing a room for use as a Voting Center.

President Monin asked what level of security there will be. Mr. Cafferty replied that the District will have staff on-site as well as the OC Registrar's staff.

Director Vergara stated that the policy states that no expenses will be incurred. Mr. Cafferty stated that the agreement with the Registrar's office includes District staff time costs and labor requirements of approximately \$3,000 which they agreed to pay.

President Monin asked for a Motion.

Motion: Director Vergara made a Motion, seconded by Vice President Monin to adopt Resolution No. 20-1-6 amending the District's Meeting Rooms Use Policy.

General Manager Information Items

General Manager's Monthly Report

Mr. Cafferty stated that the District will be hosting a Women in Water breakfast meeting next month. He further stated that the Lake Forest Chamber of Commerce and the State of the City event are coming up in March, which we sponsor by providing table centerpieces at approximately \$1,000 total cost.

Mr. Cafferty stated that the Lake Forest Garden Club has asked if we could allow them to host a Family Community Volunteer Day at the District's Demo Garden, which would include pulling weeds, planting, and clipping back some of the plants.

Director Havens suggested partnering with another event instead of allowing the use of our Demo Garden.

Mr. Cafferty suggested politely declining their request. The Board concurred to decline the request.

Mr. Cafferty stated that the District now has a fully certified laboratory, and we are transitioning back from SOCWA's laboratory to ours, and are awaiting the actual certificate.

Mr. Cafferty stated that the Board room remodel is still on-going with photos and maps to come.

Legislative Reports

There were no comments.

Public Education and Outreach & Water Conservation Reports

Ms. Seitz stated that staff will be providing a school education program at Del Cerro Elementary on February 10th.

Ms. Seitz stated that there were two water waste complaints in the month of December.

Ms. Seitz stated that staff provided the drinking water trailer at the Elf Yourself event in December, and hosted a Girl Scout Tour at the Plant. She further stated that Director Havens suggested providing a map of the facility that they could take home with them showing what happens at each station.

Director Havens stated that the lab showed on a TV monitor the microorganisms in the water. Director Vergara suggested purchasing a larger monitor for the lab.

At approximately 8:48 a.m. Ms. Seitz left the meeting.

SOCWA Reports

Director Freshley stated that at the SOCWA Board meeting, they approved the Employee Manual and an MOU with the SOCWA Employee Association. She further stated that during the Closed Session they discussed the General Manager's performance evaluation.

Director Freshley stated that they need to get their meeting dates structured so that the Finance meetings happen before their Board meetings.

Mr. Cafferty stated that SOCWA uses the CPI index as part of their employment agreement, and it has a 2-4% range cap.

MWDOC

Director Vergara stated that at the MWDOC/MET meeting there was a presentation by MET's Legal Counsel regarding the San Diego County Water Authority/MET lawsuit and settlement offers.

Director Vergara stated that at the MWDOC Planning/Operations meeting the General Manager provided a presentation on the department activity updates. He further stated that the same presentation was done at the MWDOC Admin/Finance meeting.

Vice President Gaskins stated that at the MWDOC Public Affairs meeting the lobbyists passed a big funding package, along with discussion on the single tunnel in the Delta, and a social media audit.

LAFCO

Director Freshley stated that they re-elected the Chair and Vice Chair for 2020. She further stated that they discussed Commissions, Property lines, and Boundaries between cities.

SOCWMA

Director Havens stated that there was a collaborative workshop where they are compiling data from MNWD on water levels decreasing, and planning to do a study on Aliso Creek.

ISDOC

President Monin stated that they discussed the new WEROC representative and the quarterly meeting.

Vice President Gaskins stated that they also discussed a date for the Form 700 training they will be presenting.

WACO

Director Vergara stated that at the meeting they discussed PFAS where are we now and where are we going.

City Coordination Efforts

There were no comments.

Committee and General Information

There were no comments.

Dates to Remember for January/February 2020

There were no comments.

Carry Over Pending Matters

There were no comments.

Comments Regarding Non-Agenda Items

Mr. Cafferty stated that staff is in the process of scheduling a Special Board meeting to finalize the Strategic Planning process.

Recess

At approximately 9:10 a.m. the Board took a short recess.

Regular Session

At approximately 9:15 a.m. the Regular Session resumed.

Attorney Report

Mr. Granito reported that there is a need for a Closed Session at today's meeting.

Closed Session

At approximately 9:15 a.m. the Board went into Closed Session to discuss item #1 of today's Closed Session agenda. At this time, Ms. Shahbakhti, Ms. Cimorell, and Ms. Welsch left the meeting.

Open Session Report

At approximately 9:30 a.m. the Board returned to Regular Session. Also at this time, Ms. Welsch returned to the meeting.

Mr. Granito reported that the Board did go into Closed Session to discuss item #1 as reflected in today's agenda. During this phase of the Closed Session, General Counsel led a discussion on a matter of potential litigation. No further reportable action was taken.

Adjournment

There being no further business to come before the Board, the following motion was duly made and passed.

Motion: Director Freshley made a Motion, seconded by Director Havens and unanimously carried that today's meeting be adjourned at 9:30 a.m. to Thursday, February 27, 2020 at 7:30 a.m. at the District's Administrative Offices at 24251 Los Alisos Blvd, Lake Forest, CA. 92630.

Respectfully submitted,

POLLY WELSCH
Recording Secretary

APPROVED:

MARK L. MONIN, President of
the El Toro Water District and the
Board of Directors thereof

DENNIS P. CAFFERTY, Secretary
of the El Toro Water District and
the Board of Directors thereof



ACWA 2020 Spring Conference & Exhibition

PRELIMINARY AGENDA

May 5-8, 2020 • Monterey, CA

ACWA JPIA - MONDAY, MAY 4

- 8:30 - 10:00 AM**
 - ACWA JPIA Program Committee
- 10:15 - 11:15 AM**
 - ACWA JPIA Executive Committee
- 1:30 - 4:00 PM**
 - ACWA JPIA Board of Directors
- 4:00 - 5:00 PM**
 - ACWA JPIA Town Hall
- 5:00 - 6:00 PM**
 - ACWA JPIA Reception

TUESDAY, MAY 5

- 8:00 AM - 9:45 AM**
 - Agriculture Committee
- 8:00 AM - 6:00 PM**
 - Registration
- 8:30 AM - Noon**
 - ACWA JPIA Seminars
- 9:00 AM - 4:00 PM**
 - ACWA Legal Briefing & CLE Workshop
- 10:00 - 11:45 AM**
 - Groundwater Committee
 - Local Government Committee
- 11:00 AM - Noon**
 - Outreach Task Force
- Noon - 2:00 PM**
 - ACWA 101 & Luncheon
 - Committee Lunch Break
- 1:00 - 2:45 PM**
 - Energy Committee
 - Finance Committee
 - Water Management Committee
- 1:00 - 3:00 PM**
 - ACWA JPIA: Sexual Harassment Prevention for Board Members & Managers (AB 1825)
- 3:00 - 4:45 PM**
 - Communications Committee
 - Federal Affairs Committee
 - Membership Committee
 - Water Quality Committee
- 5:00 - 6:30 PM**
 - Welcome Reception in the Exhibit Hall

WEDNESDAY, MAY 6

- 7:30 AM - 5 PM**
 - Registration
- 8:00 - 9:45 AM**
 - Opening Breakfast (*Ticket Required*)

WEDNESDAY, MAY 6 (continued)

- 7:30 AM - Noon & 1:30 - 6:00 PM**
 - Exhibit Hall
- 7:30 - 8:30 AM**
 - Coffee Service in the Exhibit Hall
- 10:00 - 11:30 AM**
 - Attorneys Program
 - Energy Committee Program
 - Exhibitor Demos
 - Finance Program
 - Region Issue Forum
 - Statewide Issue Forum
 - Technology Program
 - Water Industry Trends Program
- 11:30 - NOON**
 - Networking in the Exhibit Hall
- NOON - 1:45 PM**
 - General Session Luncheon (*Ticket Required*)
- 2:00 - 3:15 PM**
 - Attorney Program
 - Communications Committee Program
 - Energy Committee Program
 - Exhibitor Case Study
 - Region Program
 - Statewide Issue Forum
 - Water Industry Trends Program
- 3:30 - 4:45 PM**
 - Exhibitor Case Study
 - Finance Program
 - Local Government Committee
 - Statewide Issue Forums
 - Technology Program
 - Water Industry Trends Program
- 3:30 - 5:30 PM**
 - Legal Affairs Committee
- 5:00 - 6:00 PM**
 - Prize Drawing Fiesta Night in the Exhibit Hall
- 5:30 - 7:00 PM**
 - CalDesal Hosted Mixer
 - Jacobs Hosted Reception

THURSDAY, MAY 7

- 7:30 AM - 4:00 PM**
 - Registration
- 7:45 - 9:15 AM**
 - Regions 6-10 Membership Meetings
- 8:00 AM - Noon**
 - Exhibit Hall
- 8:00 - 9:15 AM**
 - Networking Continental Breakfast, Exhibit Hall (*Ticket Required*)

THURSDAY, MAY 7 (continued)

- 8:30 - 10:45 AM**
 - Ethics Training (AB 1234) - *Limited Seating*
- 9:30 - 11:00 AM**
 - Attorneys Program
 - Exhibitor Demos
 - Finance Program
 - Human Resource Program
 - Region Issue Forum
 - Statewide Issue Forum
 - Water Industry Trends Program
- 11:00 - 11:45 AM**
 - Prize Drawings in the Exhibit Hall
- NOON - 1:45 PM**
 - General Session Luncheon (*Ticket Required*)
- 2:00 - 3:15 PM**
 - Attorneys Program
 - Exhibitor Case Studies
 - Federal Issues Forum
 - Human Resource Program
 - Statewide Issue Forum
 - Water Industry Trends Program
- 3:30 - 5:00 PM**
 - Regions 1-5 Membership Meetings
- 6:00 - 7:00 PM**
 - Gen Jam Reception
- 7:00 - 10:00 PM**
 - Dinner & Entertainment (*Ticket Required*)

FRIDAY, MAY 8

- 8:00 - 9:30 AM**
 - Registration
- 8:30 - 10:00 AM**
 - ACWA's Hans Doe Past Presidents' Breakfast in Partnership with ACWA JPIA (*Ticket Required*)

OTHER EVENTS

THURSDAY, MAY 7

- 6:45 - 8:30 AM**
 - San Joaquin Valley Agricultural Water Committee

All conference programs are subject to change.

**El Toro Water District 401(k) Plan
Fourth Quarter 2019**



Keith Stribling, CFA
Vice President and Senior Portfolio Manager
HighMark Capital Management
(949) 553-2591
keith.stribling@unionbank.com

Economic and Market Commentary First Quarter 2020

Equity markets around the world saw strong 2019 gains and positive 10-year returns following the “Lost Decade” of the 2000s. Meanwhile, the “phase one” trade deal with China lowered trade tensions but left many details unanswered. With the 2020 election in view, investors began assessing potential winners and losers, particularly in the banking and energy sectors. Manufacturing activity hit a 10-year low and midwestern job growth was soft, raising the possibility that the key “swing states” of 2016 will be in play again this year.

Key Takeaways:

- U.S. and foreign data releases in the fourth quarter raised hopes that the worst of the global economic slowdown may be behind us.
- Manufacturing doldrums remain an area of concern, particularly if contagion to the consumer sector occurs.
- The Federal Reserve’s expected pause in rate adjustments allows investors to shift attention to politics and the potential impact of the 2020 election on markets.
- Strong 2019 returns for many asset classes, even as fundamentals weakened from 2018 levels, highlights the importance of avoiding short-term market timing.
- Looking ahead to the 2020s, we expect fixed income and equity returns to be lower than those recorded in the banner year of 2019.
- Geopolitical tensions from Iran to Ukraine to North Korea may lead to market volatility.

Market Overview: All Systems Go

In contrast to the third quarter’s bumpy ride, financial markets settled down in the fourth quarter as trade policy uncertainty de-escalated and fading economic data showed signs of bottoming. Reflecting an improving outlook for the global economy, yields on longer-dated Treasuries headed higher after approaching all-time lows in early September and even pushed the yield curve out of inversion. Meanwhile, global equities continued to rally on the heels of global central bank easing despite a

lackluster year for corporate earnings growth as investors anticipated a reacceleration of positive fundamental momentum heading into an election year.

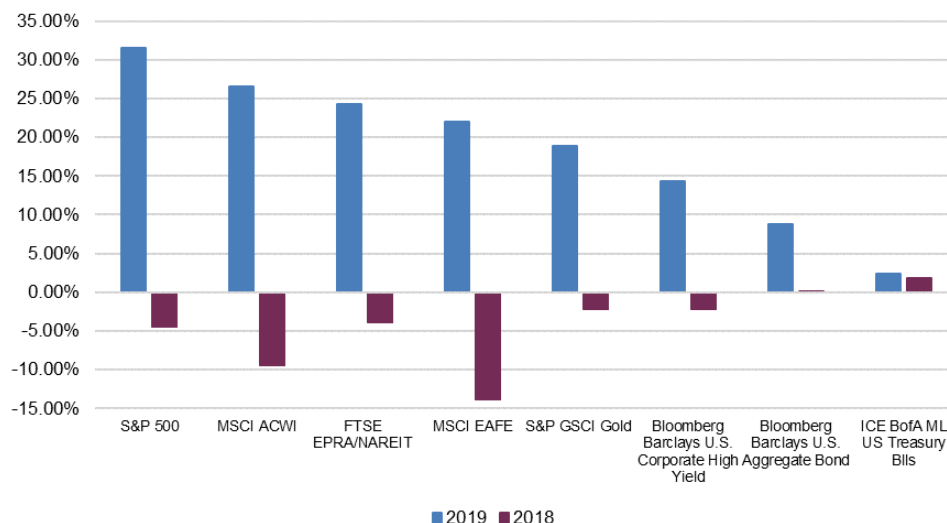
Buoyed by a confident consumer, the domestic economy remained resilient even as the rest of the world showed signs of sluggishness. A third quarter U.S. GDP reading of 2.1% handily beat consensus expectations, which had assumed ongoing trade conflicts would affect U.S. economic growth by now. Employment, the linchpin of consumer confidence, also performed better than expected with an average of 211,000 new jobs added in October and November¹ while wage growth remained healthy, yet in check. Perhaps most importantly, inflation remained subdued, providing air cover for Federal Reserve (Fed) liquidity injections that soothed fears of a monetary policy that was too tight for conditions.

The economic picture overseas was not as bright, but markets had been pricing in low expectations for some time. The data point most market observers have been keying on as the canary in the coal mine for global growth prospects, the German Purchasing Managers’ Index (PMI), appeared to hit a nadir in September at 41.7 (a level below 50 indicates contraction) after peaking at 63.3 in December of 2017. Other fourth quarter survey data also showed signs of improvement, which gave way to the optimistic view that the worst of the slowdown may be behind us.

With the view that the global economic expansion is on track yet fragile, as evidenced by the need for renewed monetary intervention, investors preferred to take risk in financial markets that had greater perceived relative safety. Within equities, U.S. large cap stocks, as represented by the S&P 500 Index (S&P 500), led global markets by a substantial margin in 2019, continuing the trend since the end of the Great Recession. In the same vein, defensive sectors continued to outperform cyclical areas of the equity market. As shown in the chart on the following page, 2019 also saw solid returns for many other asset classes versus a tepid 2018.

¹ Source: U.S. Bureau of Labor Statistics

Asset Class Performance - 2019 vs. 2018



Source: Morningstar Direct

The solid fourth quarter performance for global equities capped a strong year and a remarkable decade following the so-called “Lost Decade” of 2000 to 2010 which saw global stocks, as measured by the MSCI All Country World Index (MSCI ACWI), return less than 1% per year annualized. Coming into 2019, however, positive equity market returns were far from certain in the minds of many investors as the S&P 500 flirted with bear market territory on Christmas Eve 2018.

Santa Delivers

Fears of a global recession brought on by a hawkish Fed policy mixed with escalating trade tensions between the U.S. and China swelled in 2019. The Fed’s dovish pivot provided some relief in the form of a “mid-cycle adjustment” that ultimately included three rate cuts along with an end to balance sheet run-off (or Quantitative Tightening). Prospects of a “phase one” trade deal between the U.S. and China added to global liquidity-driven positive sentiments that further dampened recession risks. Tacking on the improving prospects of an orderly Brexit following December’s UK elections, investors received just about everything they had hoped for last year.

The 27% rally in global stocks in 2019, as measured by MSCI ACWI, capped a decade of significantly improved performance of 9% annualized for the 2010s. Much of the strong performance was attributable to the largest equity market, the U.S., where the S&P 500 compounded at 13.6% for the past 10 years.

In spite of the equity market’s renewed mojo this year, clouds on the economic horizon remain. While leading economic indicators have ticked up, manufacturing activity remains a glaring weak spot globally. Only time will tell if thawing tensions between China and the U.S., combined with loosened monetary policy, will reinvigorate the beleaguered manufacturing sector. If unsuccessful, the risk of contagion into the consumer sector will be a concern to monitor closely.

Investors will also be closely watching the domestic political landscape for signs of change. With political polarity spiking in recent years, outcomes have become more difficult to handicap. A change in the business-friendly climate in Washington may sour the optimistic mood of the markets.

Keeping these risks in mind, our base case economic backdrop for equities – one that includes a carryforward assumption of low inflation and low, yet stable growth – remains positive. However, valuations appear to be fully reflecting this positive outlook and will limit the potential for outsized returns in the years to come. A similar conclusion can be drawn for fixed income, where interest rates remain low and credit spreads are tight. Amid such conditions while looking ahead to the 2020s, investors should expect lower returns across most asset classes, while maintaining durable diversified portfolios that can withstand episodic spikes in volatility.

On to November: Visions of 2020

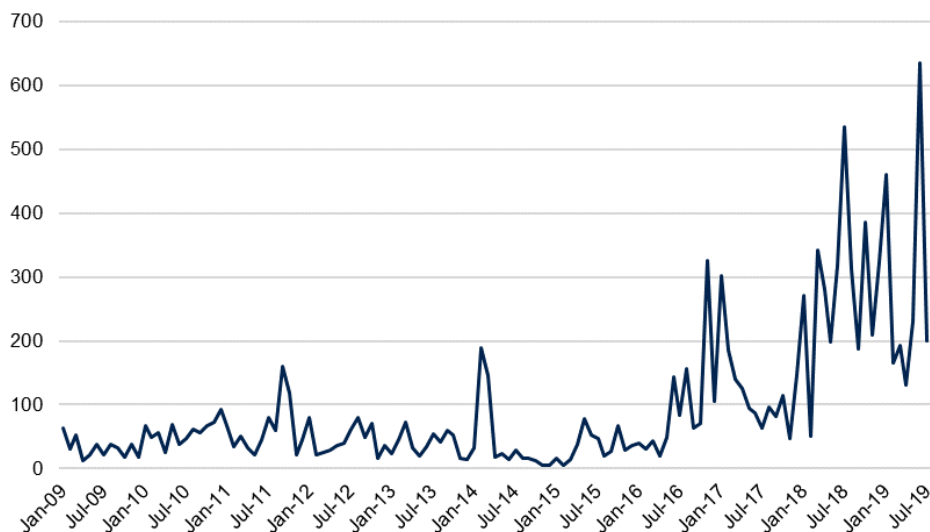
With the Fed expected to take a pause from making rate adjustments and unlikely to provide excitement in 2020, investors are beginning to pay attention to politics and the impact of the election on markets and the economy.

On the slate for November is the presidential election, as well as congressional elections for all 435 seats in the U.S. House of Representatives and 35 of the 100 senatorial seats. While the last few years have seen headlines about U.S.-China trade relations, Democratic party candidate reveals and impeachment proceedings, 2020 may be a year when voters demand that the candidates offer specific policies rather than vague wish lists.

While it is early in the election cycle, and voters may already be fatigued, most observers anticipate that if the Republican party maintains the presidency, the administration would continue to seek increased defense spending, possibly act on prior infrastructure plans, and most likely continue aggressive trade policies with China and, potentially, Europe.

If current trade policies continue with President Trump's re-election, capital expenditure and business investment spending could suffer as a result of a spike in trade tensions. As shown in the chart below, the administration's trade policies have led to significant uncertainty that is unlikely to recede.

Trade Policy Uncertainty Reaches Record Levels



Source: “Measuring Economic Policy Uncertainty” by Scott Baker, Nicholas Bloom and Steven J. Davis at www.PolicyUncertainty.com. Data charts the frequency of articles in U.S. newspapers that discuss policy-related economic uncertainty and also contain one or more references to trade policy.

The possibility of a Democratic administration also concerns investors because of the widely varying proposals of the Democratic hopefuls and little clarity on who the final candidate will be. The differences between tax changes proposed by, for example, candidates Sanders and Biden are dramatic, as are defense spending goals with Buttigieg planning to raise and Warren seeking to cut. That said, there are several areas where the Democratic candidates broadly agree while differing in the details:

- roll back some or all of the 2017 Tax Cut and Jobs Act;
- increase tax rates for wealthy individuals; and
- change current banking and energy policies.

Banking and energy appear at this stage of the campaign to offer the clearest expectations of the potential impact of a Democratic presidency on specific market sectors.

Glass-Steagall Redux?

Two of the candidates, Sanders and Warren, would bring back the 1933 Glass-Steagall Act which separated retail banking and investment banking. While Glass-Steagall was repealed by Democratic President Bill Clinton in 1999, lack of Glass-Steagall protection has often been cited by Democratic politicians as one cause of the Great Recession.

Forcing banks to unwind the changes they have made to balance sheets and operations over the last 20 years would almost certainly result in lower profitability for the financial sector.

The Democratic candidates also have plans for the oil patch, including ending new oil and gas leases on Federal lands, ending offshore drilling, enacting carbon taxes and, for Warren and Sanders, banning oil and gas extraction through fracking. These proposals could exacerbate current slowdowns in an energy sector already suffering from stubbornly low oil prices and a significant debt overhang.

According to Moody's Investor Services, the exploration and production sector holds some \$93 billion in debt—nearly all of it below-investment grade—that will be coming

due next year. If a fracking ban is implemented, the cash flow needed to service or refinance this debt, in addition to the already daunting task of refinancing below-investment grade paper, will be even more onerous. A fracking ban could also lead to layoffs and lost employment in the gas and oil sector.

Beyond banking and energy, the technology sector might also see increased regulatory oversight in a Democratic administration. While past administrations, in particular President Obama's, welcomed the expertise—and lobbying—of tech heavyweight companies, a Democratic winner in November may want to follow the lead of several European nations which are pursuing legislative changes, antitrust enforcement, data privacy rules, and regulatory scrutiny of multinational technology and social media firms. These tech companies, which dramatically outperformed the U.S. stock market in 2019, may see new and unwelcome domestic pressures.

Prospects for Legislative Success

Perhaps heartening to investors is the likelihood that many of the more progressive Democratic proposals would face little chance of passage in a post-election Senate with a Republican majority. Even in the unlikely event of a Democratic takeover of the Senate majority, many of the Warren-Sanders initiatives might struggle to achieve the majority of votes needed to pass.

If the Democratic party selects a moderate candidate and is successful in gaining the Presidency, a Democrat-led House of Representatives and a Republican Senate may find areas where compromise is achievable. Infrastructure spending and a solution to health care costs that continue to soar as the U.S. population ages may be two of the challenges that a divided Congress could successfully tackle.

As the decade ended, a divided and rancorous Congress found ways to work together. Even in the midst of impeachment vitriol, Republicans and Democrats were able to pass important legislation that included a North American trade agreement (USMCA), prescription drug pricing, government funding, and defense spending.

This is Now...That was Then

Asset classes across the spectrum recorded positive returns in 2019 with nearly every asset class finishing in the green. From stocks to Treasuries, corporate bonds

to REITs, investors of all persuasions recorded gains. Even Treasuries—which typically decline when risk assets such as stocks rally—ended the year with a gain of 6.8%.² What is surprising about the bumper crop of winners last year is the contrast, from a fundamentals perspective, between 2018 and 2019.

In 2018, investors should have been encouraged by corporate earnings up 20%;³ inflation-adjusted GDP growth above long-term averages at 3%; and the stimulative impacts of corporate tax cuts and deregulation of multiple industries and sectors. Yet in the midst of these buy-side signals, the S&P 500 lost 4.4% for the year. Among the suspects cited for lackluster market returns were trade tensions and Fed rate hikes.

Fast forward to 2019, where corporate earnings flatlined at 0.3% according to FactSet; GDP growth fell to long-term averages of around 2%; and some progress, but no resolution was made to trade disputes with China and Europe. In the midst of these sell-side signals, the S&P 500 rallied to fresh highs—seemingly daily as the year drew to a close—and finished 2019 up 31.5%. The Fed's dovish about-face, resulting in three rate cuts in 2019, have been key to understanding untethered animal spirits in the market. But it should be noted that the S&P 500 had already jumped nearly 20% even before the first rate cut following the Fed's July 30-31 meeting.

If there is one lesson to take away from the divergences of 2018/2019, it is that short-term market timing based on forecasting returns is a mug's game where players may regret asset allocation shifts when market returns have proven to be irregular and lumpy.

Looking Ahead

The second half of 2019 saw data releases that helped assuage investor concerns over the summer that economic recession might be on the horizon. These included a Treasury yield curve returning from the inversion brink; a pickup in residential housing starts; and consumer sentiment that, while down from earlier peaks, had yet to hit

² As measured by the Bloomberg Barclays US Government Index.

³ Source: FactSet Earnings Insight

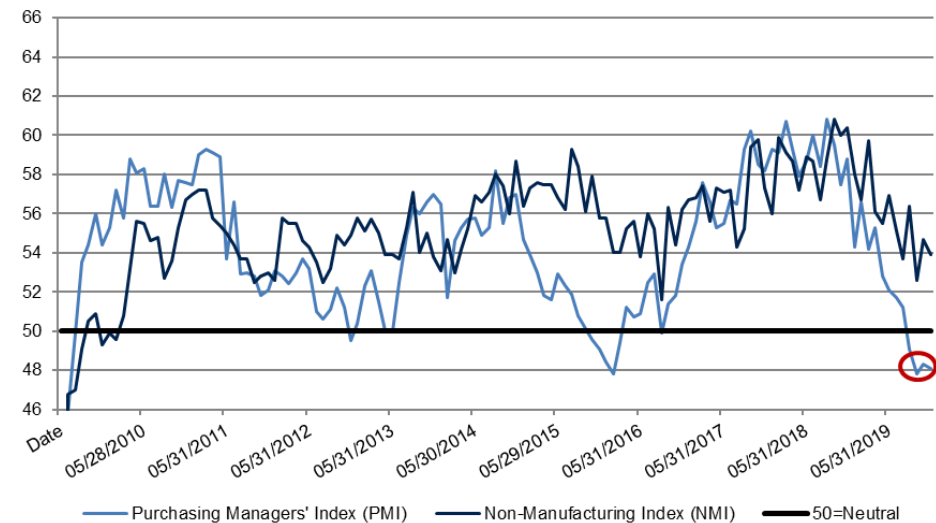
levels consistent with predicting an upcoming recession. Investors also cheered the USMCA which could add as much as 35 basis points to future GDP growth.⁴

The “phase one” deal with China was also welcomed, but more as a promising start of a period of risk reduction and a sign of a renewed willingness on both sides to work together than as a resolution of numerous outstanding issues. Hopefully, “phase two” will supply more details that investors can use to determine the impact of a trade thaw. For now, “phase one” does little to resolve ongoing corporate concerns over global supply chain management and whether to increase capital expenditures on plants and equipment.

There were a few lumps of coal left in Santa’s bag this past holiday season, including rising overseas tensions as North Korea—the Hermit Kingdom—resumes nuclear testing; potential market volatility as the impeachment process moves from the House to the Senate; and continuing recession in the U.S. manufacturing sector. As the year ended, Iran was added to the list of geopolitical hot spots.

As shown in the chart to the right, the ISM Manufacturing Index dipped below 50 in August and has remained in contraction territory ever since. Meanwhile, the equivalent service sector gauge of growth dropped recently but continues to plot firmly in expansion. The PMI gauge shows manufacturing sector health is at its lowest point since the Great Recession a decade ago. A significant area of concern for 2020 and beyond is whether the growing service sector and robust consumer spending can continue to offset manufacturing weakness.

U.S. Manufacturing Declines to Lowest Level Since End of Great Recession



Source: FactSet, ISM - Institute for Supply Management

The Fed Coasts: The Rise of Big Data

The Fed’s Federal Open Market Committee (FOMC) final meeting of 2019 in December was a rather dull affair that left rates unchanged at the current range of 1.5% to 1.75%. The Committee also signaled that after a busy 2019 that saw three rate cuts, 2020 is expected to be a quiet year with no changes to rates expected and, possibly, one hike in 2021 and a second in 2022, although Fed Chair Powell admitted after the meeting that “none of us have much of a sense of what the economy will look like in 2021.”

This quietude comes after a torrent of nine rate hikes over the last several years and might allow investors to shift their focus from Fed navel-gazing to other economic developments that impact bond and equity markets as the economy enters its 11th year of expansion and many of the summer’s recessionary warning signals fade.

⁴ Source: International Trade Commission

After the meeting, the Fed repeated its mantra that the FOMC will remain highly data-dependent before considering any moves, specifically noting that “The Committee...will take into account a wide range of information, including measures of labor market conditions, indicators of inflation pressures and inflation expectations, and readings on financial and international developments.”

A key data point in support of the FOMC’s decision to pause adjusting rates was robust jobs creation. The November jobs report released by the U.S. Bureau of Labor Statistics (BLS) saw nonfarm payrolls surging by gains of 266,000 spread across most sectors and a revision that boosted the prior two months total by a further 41,000 jobs, the largest increases since the beginning of 2019. The unemployment rate, meanwhile, dropped to 3.5%, matching its lowest level since 1969.

Through the end of November, according to the BLS, 2.2 million nonfarm jobs were added this year with the majority of the new jobs coming in services-providing sectors such as education/health services; leisure/hospitality; and professional/business services which each added an average of 500,000 jobs. The goods producing sector added a net 217,000 jobs with manufacturing employment growing by only 76,000 jobs.

Nationwide, tepid employment growth in manufacturing reflects the ongoing recession in manufacturing as, after peaking in early 2018, manufacturing job growth has fallen back to its level just after the 2016 election.⁵

Beggar thy Neighbor?

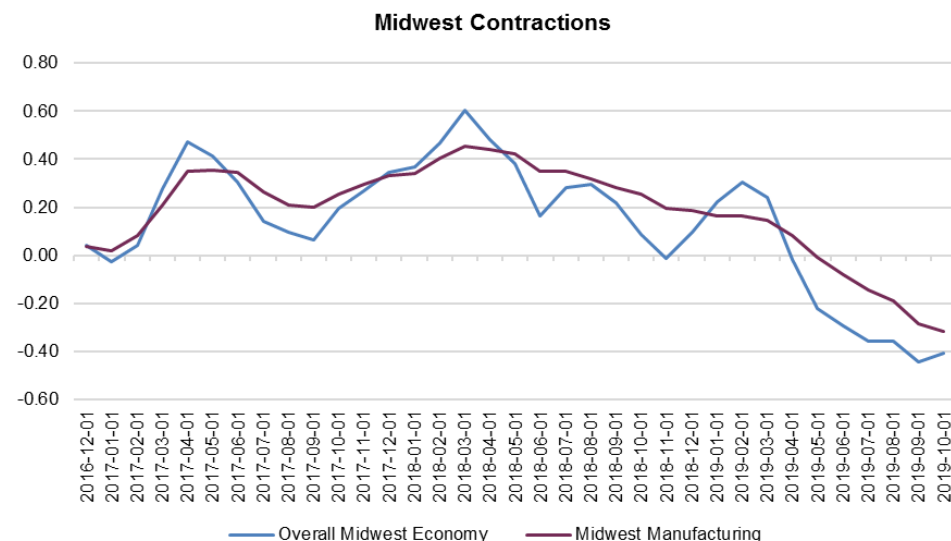
Over the last three years, job growth and unemployment declines have seen dramatic, if uneven, data releases. Behind the overall numbers the benefits have been lumpy across the 50 states.

Total employment since the 2016 election grew by an average of nearly 8% in the top five states of Arizona, Florida, Idaho, Nevada and Utah.⁶ Other states, including Texas, California, the Carolinas and Georgia, averaged around 5% growth. But

Midwestern states—heavily reliant on manufacturing and agriculture--saw tepid job growth (averaging under 2% in Minnesota, Wisconsin, Michigan and Ohio).

Job growth since the election in the manufacturing sector, while weak overall, was also strongest in other states, with 12 states recording growth in excess of 5%. Over the same period, the Midwestern swing states that were decisive in the 2016 election outcome and are likely to be just as critical in the next one, saw growth in the 1% to 2% range, with Michigan actually losing manufacturing jobs.

As shown in the chart below, over the last several months both the overall Midwestern economy and manufacturing declined to negative growth rates from their peaks in early 2018.



Source: Federal Reserve Bank of St. Louis, Federal Reserve Bank of Chicago

⁵ Source: U.S. Bureau of Labor Statistics

⁶ Source: U.S. Bureau of Labor Statistics

Charles Evans is the Chicago Federal Reserve Governor whose territory covers five midwestern states. The combined economy of these states is over 50% more concentrated in manufacturing than the nation. The five states also produce 40% of U.S. corn, soybeans and hogs.⁷ In an October speech, Governor Evans told the Peoria Economic Development Council:

“An increasing number of my business contacts—particularly those in manufacturing or ones with a large international footprint—are telling me about delayed or canceled investment projects, and a few have mentioned downsizing workforce plans. And, of course, tariffs and other possible trade disruptions pose a threat to supply chains and business relationships, prompting some firms to reevaluate these elements of their business models.”

The recent “phase one” trade announcement could help shore up farmer support for the president next year given China’s vow to purchase more agricultural products. But the manufacturing sector continues to be challenged and will prove difficult to boost through bilateral managed trade agreements. With manufacturing providing 13 million workers nationwide, many heavily concentrated in the Midwest, the president might need to convince swing state voters that he deserves another shot at delivering on his 2016 promise to reinvigorate manufacturing in the heartland.

Economic and Market Perspectives Q1 2020

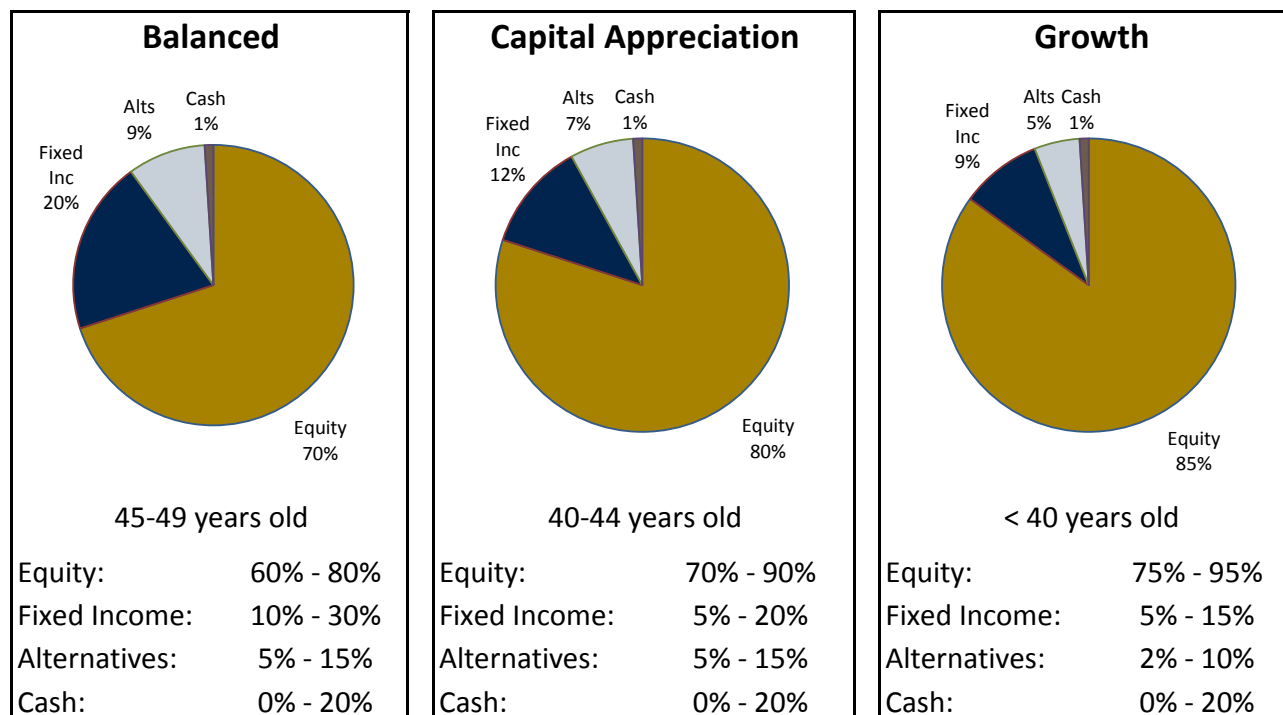
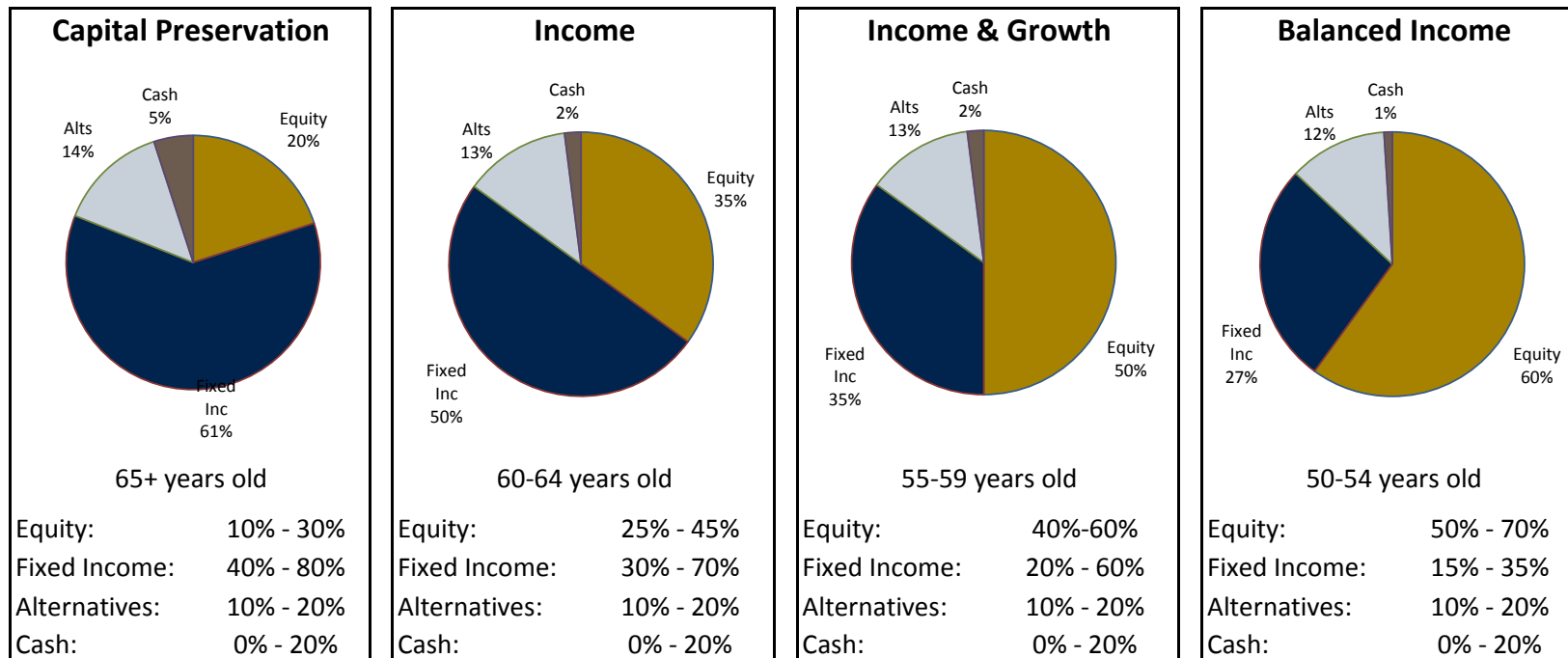
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⁷ Source: Federal Reserve Bank of Chicago

INVESTMENT POOLS - ASSET ALLOCATION

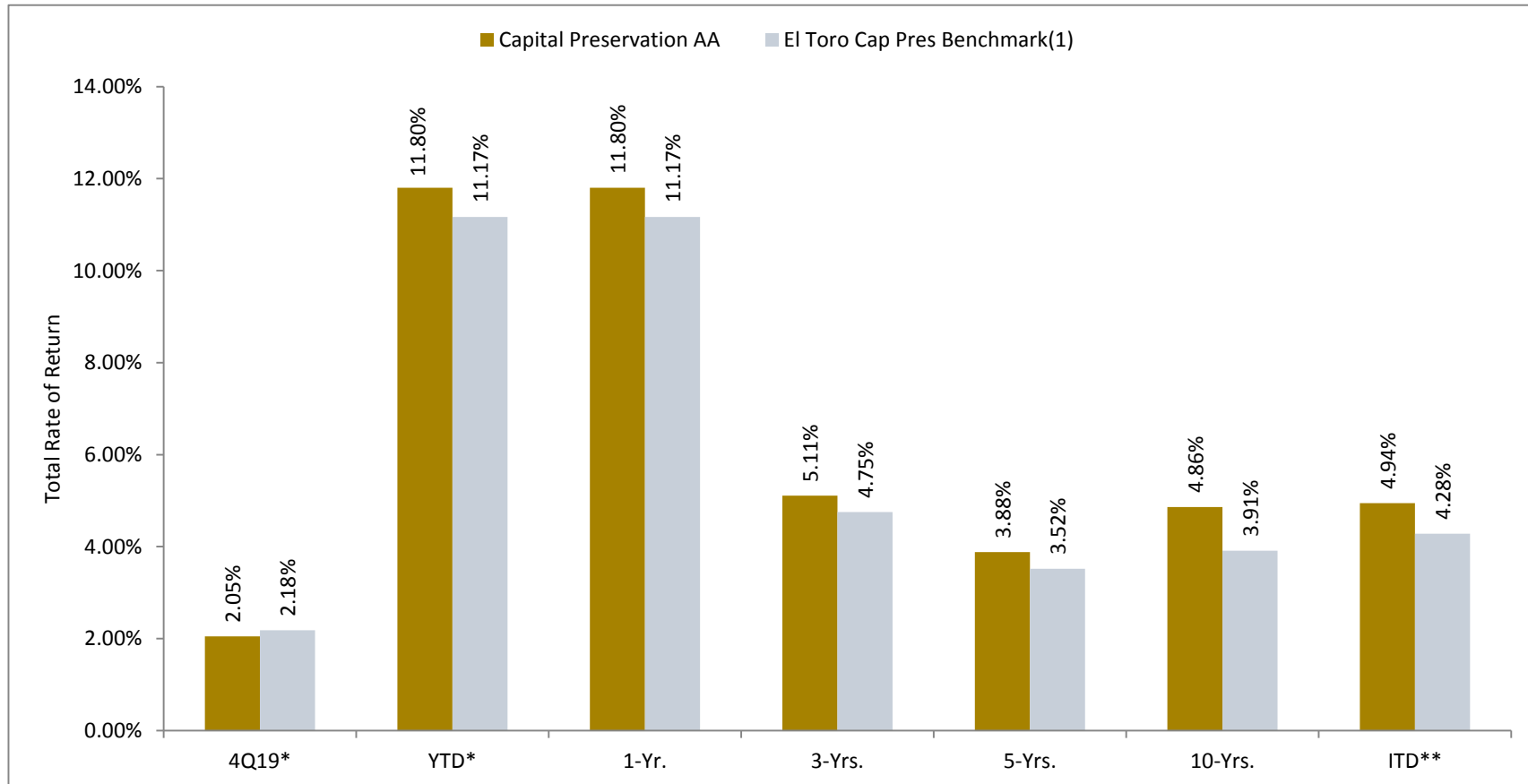
El Toro Water District - 401(k) Plan



INVESTMENT RETURNS - CAPITAL PRESERVATION PORTFOLIO

El Toro Water District - 401(k) Plan

Annualized Total Rate of Return
as of December 31, 2019



*Returns for periods under one year are not annualized

**Inception date: January 2006

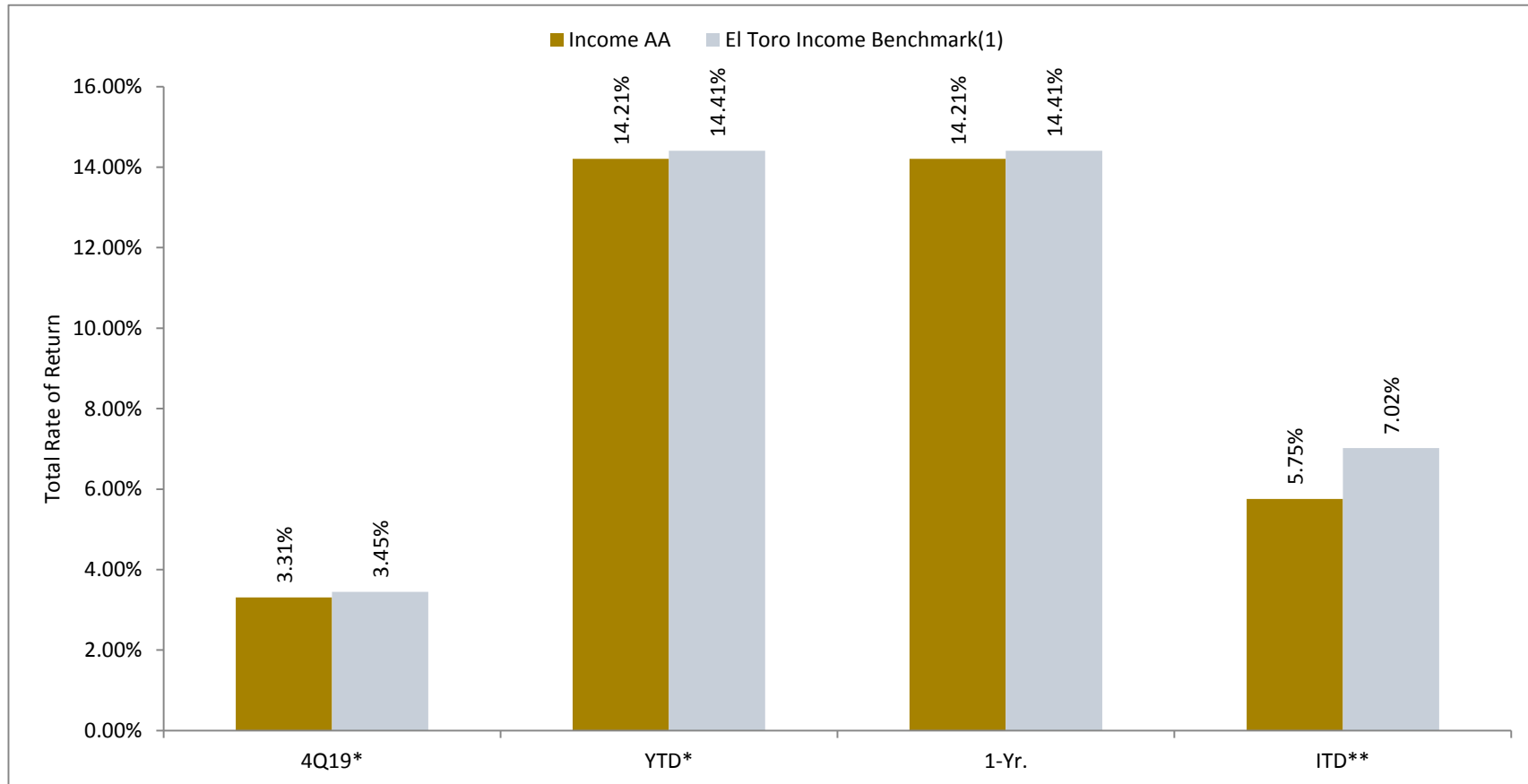
(1) El Toro Cap Pres Benchmark: 12% S&P 500, 2% Russell MidCap, 2% Russell 2000, 3% MSCI EAFE, 1% MSCI Emerging Markets, 44% Barclays US Aggregate Bond, 17% Barclays 1-3 Year Government/Credit Bond, 14% Wilshire Liquid Alternatives, 5% ICE BofAML 3 Mo US T-Bill

Note: Alternatives benchmark was changed from HFRI FOF Index to Wilshire Liquid Alternatives Index as of 5/31/18

INVESTMENT RETURNS - INCOME PORTFOLIO

El Toro Water District - 401(k) Plan

Annualized Total Rate of Return
as of December 31, 2019



*Returns for periods under one year are not annualized

**Inception date: August 2018

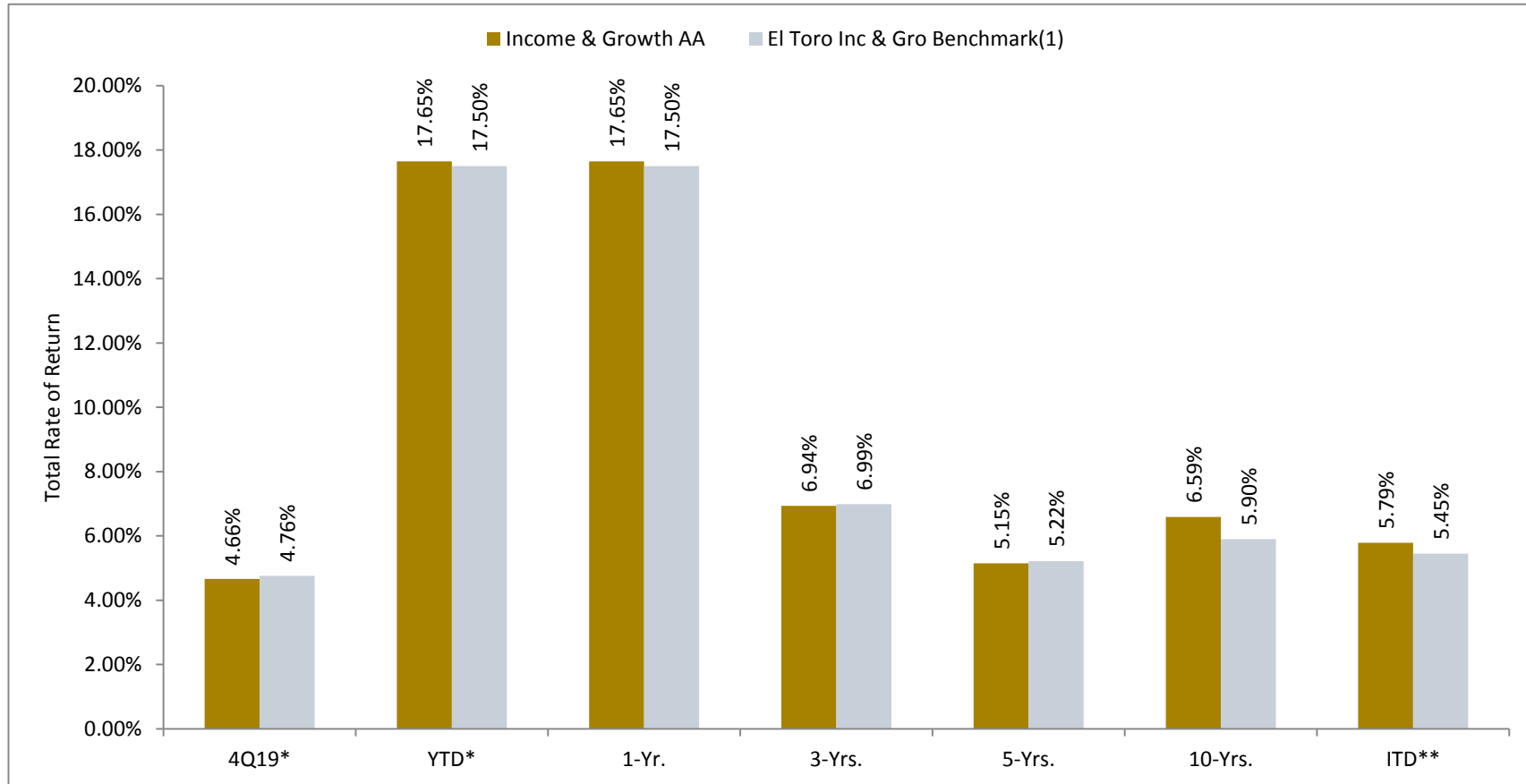
(1) El Toro Income Benchmark: 21% S&P 500, 3% Russell MidCap, 3% Russell 2000, 6% MSCI EAFE, 2% MSCI Emerging Market, 36% Barclays US Aggregate Bond, 14% Barclays 1-3 Year Government/Credit Bond, 13% Wilshire Liquid Alternatives, 2% ICE BofAML 3 Mo US T-Bill

Note: Alternatives benchmark was changed from HFRI FOF Index to Wilshire Liquid Alternatives Index as of 5/31/18

INVESTMENT RETURNS - INCOME & GROWTH PORTFOLIO

El Toro Water District - 401(k) Plan

Annualized Total Rate of Return
as of December 31, 2019



*Returns for periods under one year are not annualized

**Inception date: January 2006

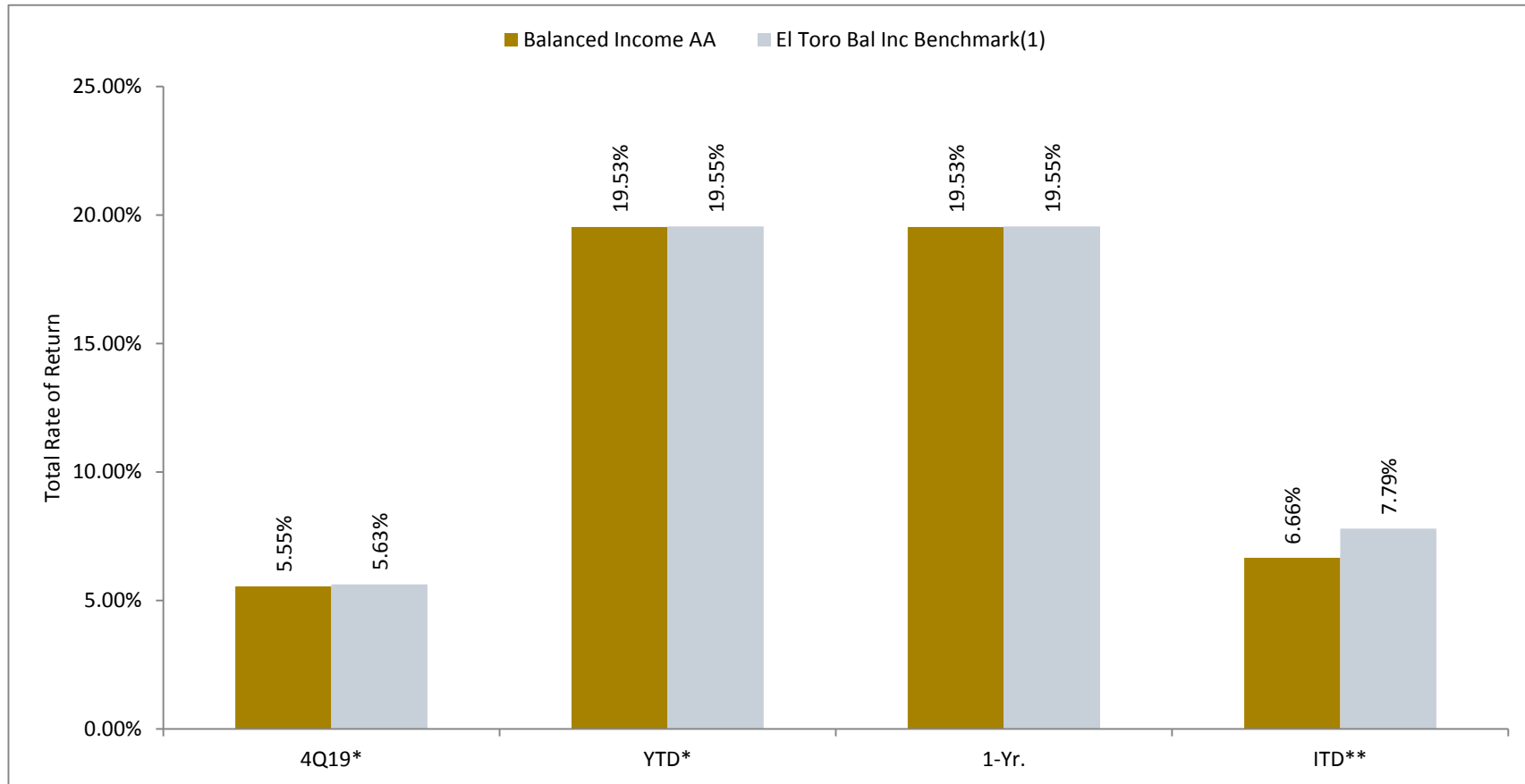
(1) El Toro Inc & Gro Benchmark: 30% S&P 500, 4% Russell MidCap, 4% Russell 2000, 9% MSCI EAFE, 3% MSCI Emerging Market, 25% Barclays US Aggregate Bond, 10% Barclays 1-3 Year Government/Credit Bond, 13% Wilshire Liquid Alternatives, 2% ICE BofAML 3 Mo US T-Bill

Note: Alternatives benchmark was changed from HFRI FOF Index to Wilshire Liquid Alternatives Index as of 5/31/18

INVESTMENT RETURNS - BALANCED INCOME PORTFOLIO

El Toro Water District - 401(k) Plan

Annualized Total Rate of Return
as of December 31, 2019



*Returns for periods under one year are not annualized

**Inception date: August 2018

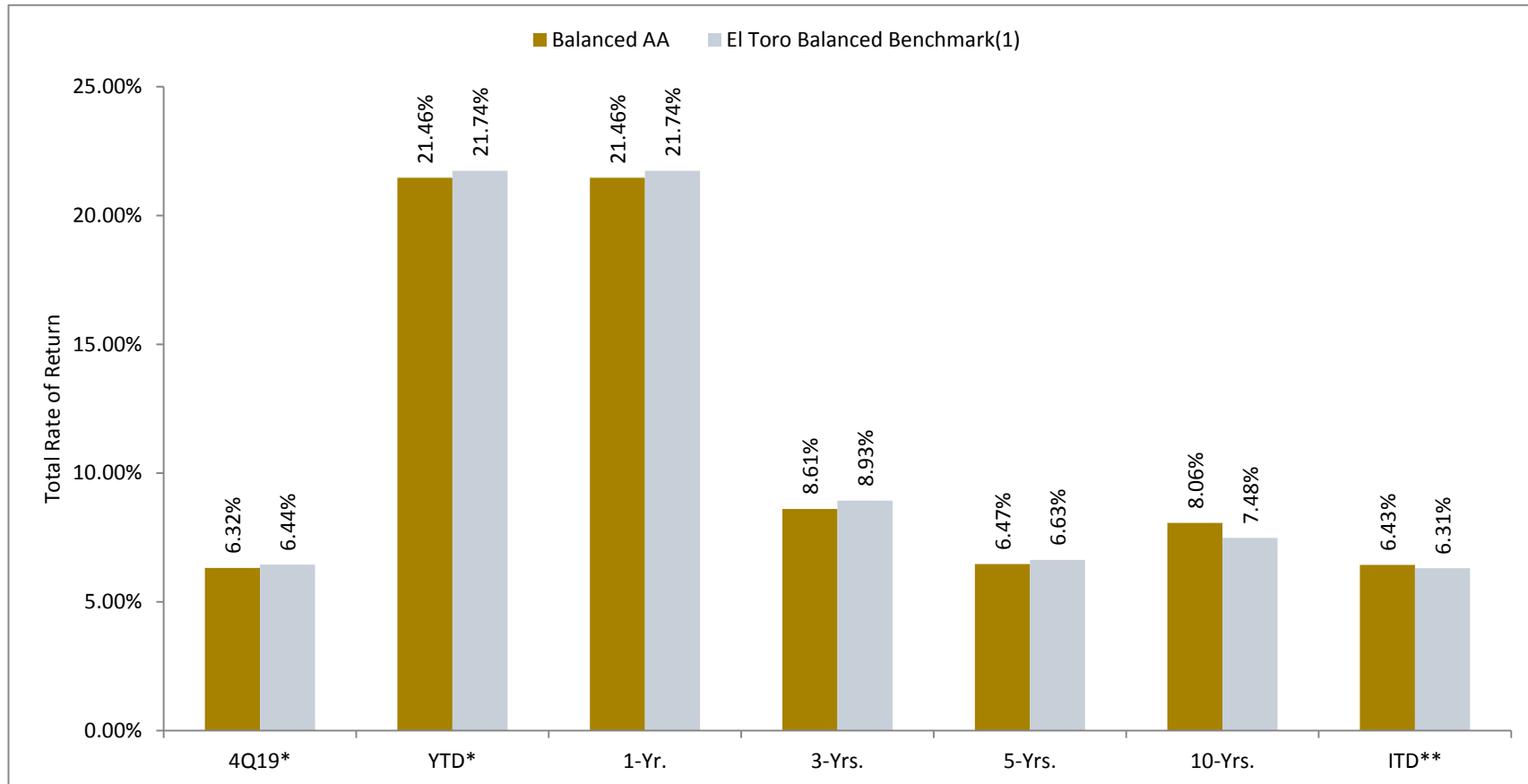
(1) El Toro Bal Inc Benchmark: 36% S&P 500, 4% Russell MidCap, 4% Russell 2000, 12% MSCI EAFE, 4% MSCI Emerging Market, 19% Barclays US Aggregate Bond, 8% Barclays 1-3 Year Government/Credit Bond, 12% Wilshire Liquid Alternatives, 1% ICE BofAML 3 Mo US T-Bill

Note: Alternatives benchmark was changed from HFRI FOF Index to Wilshire Liquid Alternatives Index as of 5/31/18

INVESTMENT RETURNS - BALANCED PORTFOLIO

El Toro Water District - 401(k) Plan

Annualized Total Rate of Return
as of December 31, 2019



*Returns for periods under one year are not annualized

**Inception date: January 2006

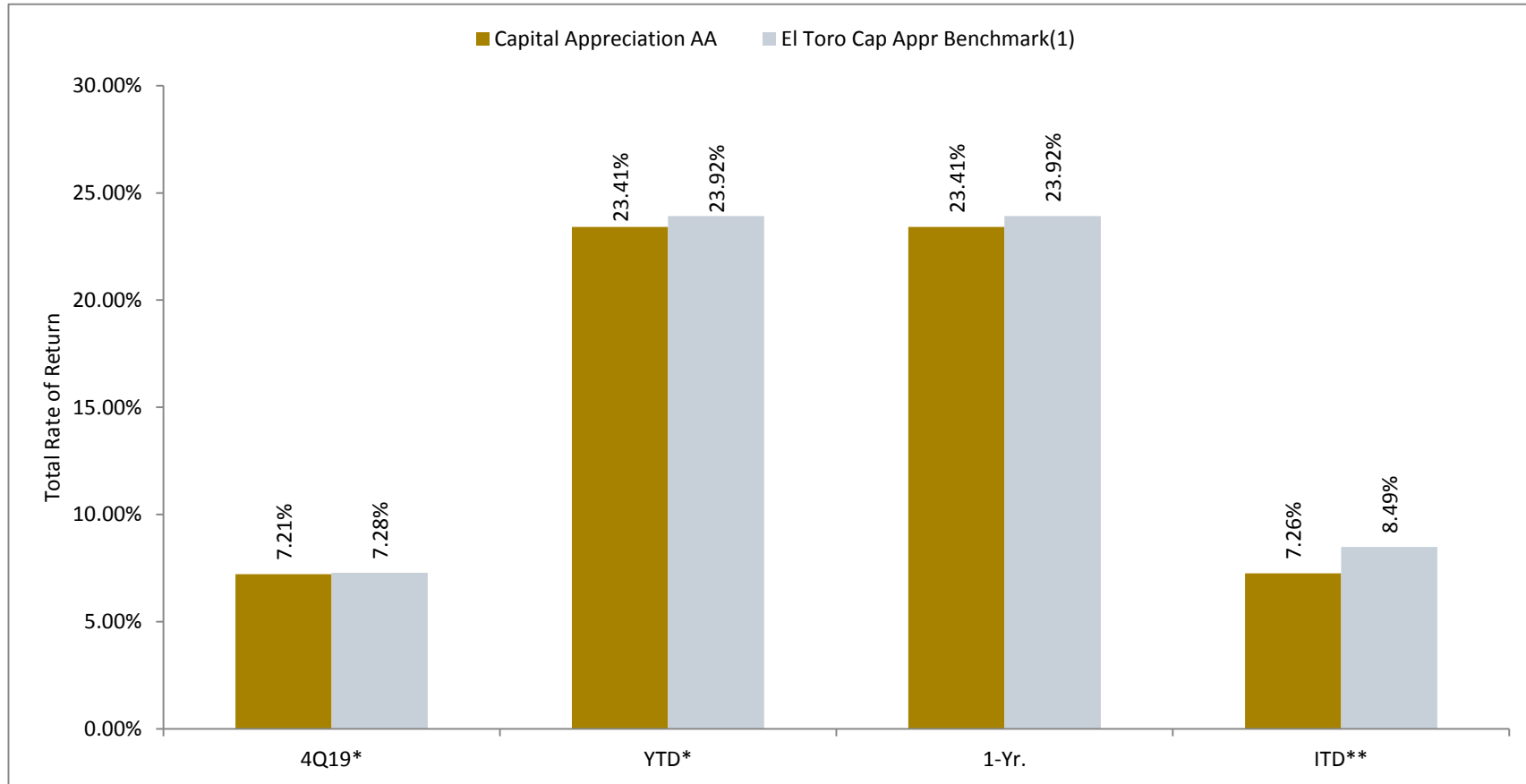
(1) El Toro Balanced Benchmark: 42% S&P 500, 5% Russell MidCap, 5% Russell 2000, 14% MSCI EAFE, 4% MSCI Emerging Market, 14% Barclays US Aggregate Bond, 6% Barclays 1-3 Year Government/Credit Bond, 9% Wilshire Liquid Alternatives, 1% ICE BofAML 3 Mo US T-Bill

Note: Alternatives benchmark was changed from HFRI FOF Index to Wilshire Liquid Alternatives Index as of 5/31/18

INVESTMENT RETURNS - CAPITAL APPRECIATION PORTFOLIO

El Toro Water District - 401(k) Plan

Annualized Total Rate of Return
as of December 31, 2019



*Returns for periods under one year are not annualized

**Inception date: August 2018

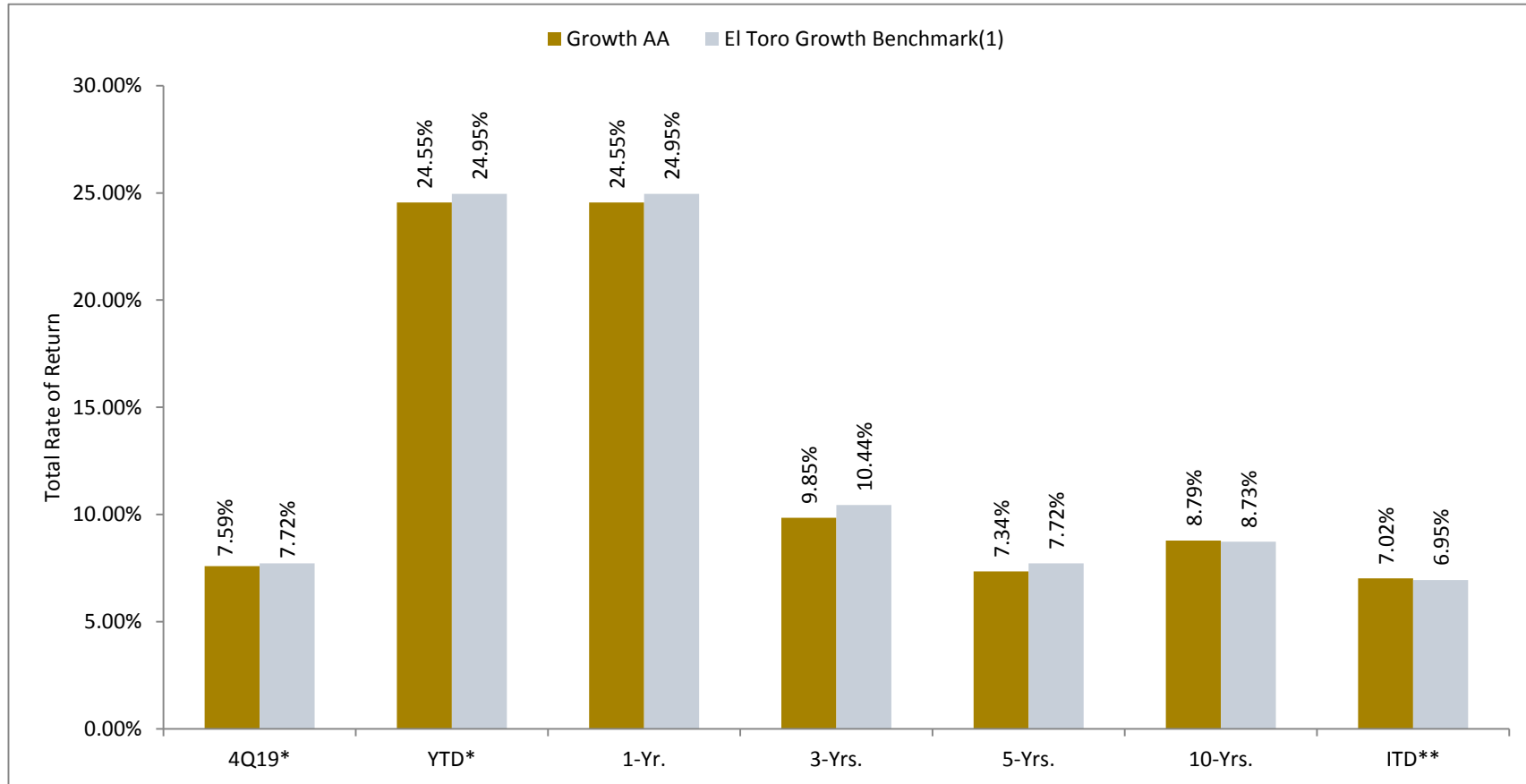
(1) El Toro Cap Appr Benchmark: 48% S&P 500, 6% Russell MidCap, 6% Russell 2000, 16% MSCI EAFE, 4% MSCI Emerging Market, 8% Barclays US Aggregate Bond, 4% Barclays 1-3 year Government/Credit, 7% Wilshire Liquid Alternatives, 1% ICE BofAML 3 Mo US T-Bill

Note: Alternatives benchmark was changed from HFRI FOF Index to Wilshire Liquid Alternatives Index as of 5/31/18

INVESTMENT RETURNS - GROWTH PORTFOLIO

El Toro Water District - 401(k) Plan

Annualized Total Rate of Return
as of December 31, 2019



*Returns for periods under one year are not annualized

**Inception date: January 2006

(1) El Toro Growth Benchmark: 51% S&P 500, 6% Russell MidCap, 6% Russell 2000, 17% MSCI EAFE, 5% MSCI Emerging Market, 6% Barclays US Aggregate Bond, 3% Barclays 1-3 year Government/Credit, 5% Wilshire Liquid Alternatives, 1% ICE BofAML 3 Mo US T-Bill

Note: Alternatives benchmark was changed from HFRI FOF Index to Wilshire Liquid Alternatives Index as of 5/31/18

INVESTMENT RETURNS - FIXED INCOME FUNDS

El Toro Water District - 401(k) Plan

Annualized Total Rate of Return (%) as of 12/31/2019

| Ticker | Name | MStar Rating* | 3-Mos.** | YTD** | 1-Yr. | 3-Yrs. | 5-Yrs. | 10-Yrs. |
|-------------------------------|--|------------------|----------|-------|-------|--------|--------|---------|
| Short-Term Bond | | | | | | | | |
| VFSUX | Vanguard Short-Term Investment-Grade Adm | 4 | 0.63 | 5.84 | 5.84 | 2.96 | 2.56 | 2.76 |
| Intermediate-Term Bond | | | | | | | | |
| DODIX | Dodge & Cox Income | 4 | 0.87 | 9.75 | 9.75 | 4.52 | 3.70 | 4.43 |
| DBLFX | DoubleLine Core Fixed Income I | 4 | 0.32 | 7.99 | 7.99 | 4.16 | 3.44 | - |
| PTTRX | PIMCO Total Return Instl | 3 | -0.30 | 8.26 | 8.26 | 4.31 | 3.25 | 4.19 |
| PTRQX | PGIM Total Return Bond R6 | 5 | 0.35 | 11.13 | 11.13 | 5.62 | 4.33 | 5.52 |

*Morningstar overall rating

**Returns for periods under one year are not annualized

Returns are shown net of embedded expense ratios

Source: Morningstar Direct

INVESTMENT RETURNS - EQUITY FUNDS

El Toro Water District - 401(k) Plan

Annualized Total Rate of Return (%) as of 12/31/2019

| Ticker | Name | MStar Rating* | 3-Mos.** | YTD** | 1-Yr. | 3-Yrs. | 5-Yrs. | 10-Yrs. |
|---------------------|--|------------------|----------|-------|-------|--------|--------|---------|
| Large Blend | | | | | | | | |
| COFYX | Columbia Contrarian Core Inst3 | 3 | 9.21 | 33.08 | 33.08 | 13.94 | 10.69 | 13.33 |
| VGIAX | Vanguard Growth & Income Adm | 4 | 8.79 | 29.77 | 29.77 | 14.35 | 11.33 | 13.57 |
| Large Value | | | | | | | | |
| DODGX | Dodge & Cox Stock | 4 | 10.09 | 24.83 | 24.83 | 11.13 | 9.72 | 12.60 |
| PKAIX | PIMCO RAE US Instl | 3 | 8.21 | 24.87 | 24.87 | 10.61 | - | - |
| IVE | iShares S&P 500 Value ETF | 4 | 9.88 | 31.71 | 31.71 | 11.31 | 9.35 | 11.97 |
| Large Growth | | | | | | | | |
| HNACX | Harbor Capital Appreciation Retirement | 4 | 12.45 | 33.39 | 33.39 | 21.77 | 14.68 | 14.58 |
| LSITX | ClearBridge Large Cap Growth IS | 4 | 9.04 | 32.22 | 32.22 | 18.42 | 14.30 | 14.69 |
| Mid Blend | | | | | | | | |
| VO | Vanguard Mid-Cap ETF | 5 | 6.88 | 31.04 | 31.04 | 12.36 | 9.26 | 13.08 |
| Small Blend | | | | | | | | |
| DCZRX | Delaware Small Cap Core R6 | 4 | 7.49 | 26.15 | 26.15 | 8.51 | 8.45 | 13.35 |
| VB | Vanguard Small-Cap ETF | 5 | 8.14 | 27.37 | 27.37 | 10.32 | 8.89 | 12.81 |

*Morningstar overall rating

**Returns for periods under one year are not annualized

Returns are shown net of embedded expense ratios

Source: Morningstar Direct

INVESTMENT RETURNS - EQUITY FUNDS

El Toro Water District - 401(k) Plan

Annualized Total Rate of Return (%) as of 12/31/2019

| Ticker | Name | MStar Rating* | 3-Mos.** | YTD** | 1-Yr. | 3-Yrs. | 5-Yrs. | 10-Yrs. |
|-------------------------------------|---|------------------|----------|-------|-------|--------|--------|---------|
| Small Growth | | | | | | | | |
| RSEJX | Victory RS Small Cap Growth R6 | 4 | 13.46 | 38.38 | 38.38 | 20.10 | 11.83 | 15.11 |
| VBK | Vanguard Small-Cap Growth ETF | 4 | 9.35 | 32.75 | 32.75 | 15.14 | 10.51 | 13.65 |
| Small Cap Value | | | | | | | | |
| UBVFX | Undiscovered Managers Behavioral Val R6 | 5 | 7.29 | 23.34 | 23.34 | 5.90 | 8.26 | 13.28 |
| Foreign Large Value | | | | | | | | |
| DODFX | Dodge & Cox International Stock | 3 | 10.61 | 22.78 | 22.78 | 7.67 | 3.68 | 5.76 |
| Foreign Large Blend | | | | | | | | |
| DFALX | DFA Large Cap International I | 3 | 8.02 | 22.04 | 22.04 | 9.52 | 5.65 | 5.44 |
| HEFA | iShares Currency Hedged MSCI EAFE ETF | 5 | 5.30 | 24.73 | 24.73 | 9.72 | 8.02 | - |
| Foreign Large Growth | | | | | | | | |
| MGRDX | MFS International Growth R6 | 4 | 9.03 | 27.31 | 27.31 | 15.47 | 9.70 | 7.79 |
| Diversified Emerging Markets | | | | | | | | |
| HHHFX | Hartford Schroders Emerging Mkts Eq F | 4 | 11.32 | 22.32 | 22.32 | 13.40 | 7.05 | 4.19 |

*Morningstar overall rating

**Returns for periods under one year are not annualized

Returns are shown net of embedded expense ratios

Source: Morningstar Direct

INVESTMENT RETURNS - ALTERNATIVE FUNDS

El Toro Water District - 401(k) Plan

Annualized Total Rate of Return (%) as of 12/31/2019

| Ticker | Name | MStar Rating* | 3-Mos.** | YTD** | 1-Yr. | 3-Yrs. | 5-Yrs. | 10-Yrs. |
|----------------------------|---|------------------|----------|--------|--------|--------|--------|---------|
| Market Neutral | | | | | | | | |
| QMNIX | AQR Equity Market Neutral I | 2 | -2.78 | -11.27 | -11.27 | -6.06 | 0.63 | - |
| BSIKX | BlackRock Strategic Income Opps K | 4 | 1.61 | 7.82 | 7.82 | 4.05 | 3.09 | 4.45 |
| BILPX | BlackRock Event Driven Equity Instl | 5 | 1.42 | 7.29 | 7.29 | 6.64 | 4.48 | 9.44 |
| Managed Futures | | | | | | | | |
| AQMIX | AQR Managed Futures Strategy I | 2 | -2.59 | 1.93 | 1.93 | -2.75 | -2.99 | - |
| AMFNX | Natixis ASG Managed Futures Strategy N | 3 | -4.13 | 8.45 | 8.45 | 0.46 | -1.09 | - |
| Merger Arbitrage | | | | | | | | |
| ARBNX | Arbitrage I | 3 | 1.36 | 3.83 | 3.83 | 3.01 | 2.70 | 2.32 |
| Global Macro | | | | | | | | |
| EGRSX | Eaton Vance Gbl Macro Abs Ret Advtg R6 | 4 | 5.26 | 14.78 | 14.78 | 3.75 | 4.26 | - |
| LAOSX | Western Asset Macro Opportunities IS | 5 | 5.96 | 16.80 | 16.80 | 8.37 | 6.62 | - |
| Fund of Hedge Funds | | | | | | | | |
| BXMIX | Blackstone Alternative Multi-Strategy I | 4 | 2.14 | 6.77 | 6.77 | 4.07 | 3.41 | - |
| QSPIX | AQR Style Premia Alternative I | 2 | -3.71 | -8.20 | -8.20 | -3.39 | -0.49 | - |
| REITs | | | | | | | | |
| ICF | iShares Cohen & Steers REIT ETF | 3 | -1.74 | 25.48 | 25.48 | 8.71 | 7.32 | 11.88 |

*Morningstar overall rating

**Returns for periods under one year are not annualized

Returns are shown net of embedded expense ratios

Source: Morningstar Direct

INVESTMENT RETURNS & RANKINGS - FIXED INCOME FUNDS

El Toro Water District - 401(k) Plan

| Ticker | Name | Annualized Total Rate of Return (%) as of 12/31/2019 | | | | | | | | | | | | | | | | | | | | | Lipper Category | |
|-------------------------------|--|--|------------|---------|------------|-------------|---------|------------|-------------|---------|------------|-------------|---------|------------|-------------|---------|------------|-------------|----------|------------|-------------|------------|-----------------|---------------------------------|
| | | Exp Ratio | MStar Rtg* | 3-Mos** | | | YTD** | | | 1-Year | | | 3-Years | | | 5-Years | | | 10-Years | | | 3 Yr Shrp% | | 3 Yr SD |
| | | | | Tot ROR | Mstar Rnkg | Lipper Rnkg | Tot ROR | Mstar Rnkg | Lipper Rnkg | Tot ROR | Mstar Rnkg | Lipper Rnkg | Tot ROR | Mstar Rnkg | Lipper Rnkg | Tot ROR | Mstar Rnkg | Lipper Rnkg | Tot ROR | Mstar Rnkg | Lipper Rnkg | | | |
| Short-Term Bond | | | | | | | | | | | | | | | | | | | | | | | | |
| VFSUX | Vanguard Short-Term Investment-Grade Adm | 0.10 | 4 | 0.63 | 39 | 37 | 5.84 | 18 | 9 | 5.84 | 18 | 9 | 2.96 | 18 | 16 | 2.56 | 15 | 12 | 2.76 | 19 | 14 | 1.08 | 1.17 | Lipper Sht Inv Grade Debt Funds |
| Peer Group | US Fund Short-Term Bond | | | 0.61 | | | 4.72 | | | 4.72 | | | 2.46 | | | 2.00 | | | 2.18 | | | 0.75 | 1.02 | |
| Index | BBgBarc US Govt/Credit 1-3 Yr TR USD | | | 0.59 | | | 4.03 | | | 4.03 | | | 2.15 | | | 1.67 | | | 1.54 | | | 0.49 | 0.93 | |
| Intermediate-Term Bond | | | | | | | | | | | | | | | | | | | | | | | | |
| DBLFX | DoubleLine Core Fixed Income I | 0.42 | 4 | 0.32 | 55 | 57 | 7.99 | 76 | 81 | 7.99 | 76 | 81 | 4.16 | 48 | 49 | 3.44 | 29 | 38 | - | - | n.a. | 1.14 | 2.13 | Lipper Core Plus Bond Funds |
| DODIX | Dodge & Cox Income | 0.42 | 4 | 0.87 | 11 | 5 | 9.75 | 32 | 19 | 9.75 | 32 | 19 | 4.52 | 25 | 11 | 3.70 | 15 | 6 | 4.43 | 36 | 15 | 1.36 | 2.05 | Lipper Core Bond Funds |
| PTTRX | PIMCO Total Return Instl | 0.71 | 3 | -0.30 | 94 | 94 | 8.26 | 73 | 75 | 8.26 | 73 | 75 | 4.31 | 36 | 43 | 3.25 | 45 | 50 | 4.19 | 54 | 54 | 0.94 | 2.75 | Lipper Core Plus Bond Funds |
| PTRQX | PGIM Total Return Bond R6 | 0.4 | 5 | 0.35 | 51 | 52 | 11.13 | 7 | 13 | 11.13 | 7 | 13 | 5.62 | 2 | 3 | 4.33 | 3 | 6 | 5.52 | 8 | n.a. | 1.26 | 3.06 | Lipper Core Plus Bond Funds |
| Peer Group | US Fund Intermediate Core Bond | | | 0.12 | | | 8.06 | | | 8.06 | | | 3.59 | | | 2.72 | | | 3.55 | | | 0.70 | 2.68 | |
| Index | BBgBarc US Agg Bond TR USD | | | 0.18 | | | 8.72 | | | 8.72 | | | 4.03 | | | 3.05 | | | 3.75 | | | 0.80 | 2.91 | |

*Morningstar overall rating

**Returns for periods under one year are not annualized

Returns are shown net of embedded expense ratios. Mstar Rnkg - Fund's ranking within Morningstar's category ("Peer Group"). Funds are ranked in descending order by return. For example, a Fund with a 20 ranking indicates that it is ranked in the top 20th percentile.

Source: Morningstar Direct; Wilshire Compass (Lipper Rankings)

INVESTMENT RETURNS & RANKINGS - EQUITY FUNDS

El Toro Water District - 401(k) Plan

| Ticker | Name | Annualized Total Rate of Return (%) as of 12/31/2019 | | | | | | | | | | | | | | | | | | | | | Lipper Category | |
|---------------------|--|--|------------|---------|------------|-------------|---------|------------|-------------|---------|------------|-------------|---------|------------|-------------|---------|------------|-------------|----------|------------|-------------|------------|-----------------|-------------------------------|
| | | Exp Ratio | MStar Rtg* | 3-Mos** | | | YTD** | | | 1-Year | | | 3-Years | | | 5-Years | | | 10-Years | | | 3 Yr Shrp% | | 3 Yr SD |
| | | | | Tot ROR | Mstar Rnkg | Lipper Rnkg | Tot ROR | Mstar Rnkg | Lipper Rnkg | Tot ROR | Mstar Rnkg | Lipper Rnkg | Tot ROR | Mstar Rnkg | Lipper Rnkg | Tot ROR | Mstar Rnkg | Lipper Rnkg | Tot ROR | Mstar Rnkg | Lipper Rnkg | | | |
| Large Blend | | | | | | | | | | | | | | | | | | | | | | | | |
| COFYX | Columbia Contrarian Core Inst3 | 0.64 | 3 | 9.21 | 23 | 31 | 33.08 | 10 | 14 | 33.08 | 10 | 14 | 13.94 | 48 | 53 | 10.69 | 40 | 38 | 13.33 | 18 | n.a. | 0.96 | 12.72 | Lipper Large-Cap Core Funds |
| VGIAX | Vanguard Growth & Income Adm | 0.23 | 4 | 8.79 | 47 | 50 | 29.77 | 51 | 51 | 29.77 | 51 | 51 | 14.35 | 41 | 44 | 11.33 | 22 | 23 | 13.57 | 7 | 11 | 1.03 | 12.20 | Lipper Large-Cap Core Funds |
| Peer Group | US Fund Large Blend | | | 8.15 | | | 28.78 | | | 28.78 | | | 13.26 | | | 9.78 | | | 12.03 | | | 0.95 | 12.27 | |
| Index | Russell 1000 TR USD | | | 9.04 | | | 31.43 | | | 31.43 | | | 15.05 | | | 11.48 | | | 13.54 | | | 1.07 | 12.22 | |
| Index | S&P 500 TR USD | | | 9.07 | | | 31.49 | | | 31.49 | | | 15.27 | | | 11.70 | | | 13.56 | | | 1.10 | 12.10 | |
| Large Value | | | | | | | | | | | | | | | | | | | | | | | | |
| DODGX | Dodge & Cox Stock | 0.52 | 4 | 10.09 | 6 | 11 | 24.83 | 58 | 68 | 24.83 | 58 | 68 | 11.13 | 31 | 29 | 9.72 | 13 | 9 | 12.60 | 10 | 9 | 0.73 | 13.34 | Lipper Large-Cap Value Funds |
| PKAIX | PIMCO RAE US Instl | 0.40 | 3 | 8.21 | 35 | 37 | 24.87 | 57 | 50 | 24.87 | 57 | 50 | 10.61 | 40 | 20 | - | - | n.a. | - | - | n.a. | 0.72 | 12.71 | Lipper Large-Cap Core Funds |
| IVE | iShares S&P 500 Value ETF | 0.18 | 4 | 9.88 | 8 | 14 | 31.71 | 5 | 5 | 31.71 | 5 | 5 | 11.31 | 28 | 26 | 9.35 | 24 | 18 | 11.97 | 25 | 19 | 0.76 | 12.86 | Lipper Large-Cap Value Funds |
| Peer Group | US Fund Large Value | | | 7.38 | | | 25.04 | | | 25.04 | | | 9.97 | | | 7.99 | | | 10.90 | | | 0.71 | 12.38 | |
| Index | Russell 1000 Value TR USD | | | 7.41 | | | 26.54 | | | 26.54 | | | 9.68 | | | 8.29 | | | 11.80 | | | 0.69 | 12.02 | |
| Large Growth | | | | | | | | | | | | | | | | | | | | | | | | |
| HNACX | Harbor Capital Appreciation Retirement | 0.58 | 4 | 12.45 | 9 | 5 | 33.39 | 39 | 51 | 33.39 | 39 | 51 | 21.77 | 17 | 20 | 14.68 | 15 | n.a. | 14.58 | 24 | n.a. | 1.28 | 15.00 | Lipper Large-Cap Growth Funds |
| LSITX | ClearBridge Large Cap Growth IS | 0.65 | 4 | 9.04 | 59 | 68 | 32.22 | 49 | 65 | 32.22 | 49 | 65 | 18.42 | 47 | 70 | 14.30 | 19 | 26 | 14.69 | 21 | n.a. | 1.23 | 13.09 | Lipper Large-Cap Growth Funds |
| Peer Group | US Fund Large Growth | | | 9.36 | | | 31.90 | | | 31.90 | | | 18.09 | | | 12.10 | | | 13.40 | | | 1.17 | 13.71 | |
| Index | Russell 1000 Growth TR USD | | | 10.62 | | | 36.39 | | | 36.39 | | | 20.49 | | | 14.63 | | | 15.22 | | | 1.35 | 13.26 | |
| Mid Core | | | | | | | | | | | | | | | | | | | | | | | | |
| VO | Vanguard Mid-Cap ETF | 0.04 | 5 | 6.88 | 55 | 47 | 31.04 | 13 | 17 | 31.04 | 13 | 17 | 12.36 | 11 | 9 | 9.26 | 17 | 21 | 13.08 | 8 | 8 | 0.84 | 12.93 | Lipper Mid-Cap Core Funds |
| Peer Group | US Fund Mid-Cap Blend | | | 7.07 | | | 26.21 | | | 26.21 | | | 9.15 | | | 7.15 | | | 11.09 | | | 0.59 | 13.82 | |
| Index | Russell Mid Cap TR USD | | | 7.06 | | | 30.54 | | | 30.54 | | | 12.06 | | | 9.33 | | | 13.19 | | | 0.81 | 13.08 | |

*Morningstar overall rating

**Returns for periods under one year are not annualized

Returns are shown net of embedded expense ratios. Mstar Rnkg - Fund's ranking within Morningstar's category ("Peer Group"). Funds are ranked in descending order by return. For example, a Fund with a 20 ranking indicates that it is ranked in the top 20th percentile.

Source: Morningstar Direct; Wilshire Compass (Lipper Rankings)

INVESTMENT RETURNS & RANKINGS - EQUITY FUNDS

El Toro Water District - 401(k) Plan

| Ticker | Name | Annualized Total Rate of Return (%) as of 12/31/2019 | | | | | | | | | | | | | | | | | | | | | Lipper Category | |
|---------------------|---|--|------------|---------|------------|-------------|---------|------------|-------------|---------|------------|-------------|---------|------------|-------------|---------|------------|-------------|----------|------------|-------------|------------|-----------------|-------------------------------|
| | | Exp Ratio | MStar Rtg* | 3-Mos** | | | YTD** | | | 1-Year | | | 3-Years | | | 5-Years | | | 10-Years | | | 3 Yr Shrp% | | 3 Yr SD |
| | | | | Tot ROR | Mstar Rnkg | Lipper Rnkg | Tot ROR | Mstar Rnkg | Lipper Rnkg | Tot ROR | Mstar Rnkg | Lipper Rnkg | Tot ROR | Mstar Rnkg | Lipper Rnkg | Tot ROR | Mstar Rnkg | Lipper Rnkg | Tot ROR | Mstar Rnkg | Lipper Rnkg | | | |
| Small Value | | | | | | | | | | | | | | | | | | | | | | | | |
| UBVFX | Undiscovered Managers Behavioral Val R6 | 0.8 | 5 | 7.29 | 69 | 65 | 23.34 | 30 | 55 | 23.34 | 30 | 55 | 5.90 | 19 | 57 | 8.26 | 8 | 25 | 13.28 | 1 | n.a. | 0.31 | 18.18 | Lipper Small-Cap Value Funds |
| Peer Group | US Fund Small Value | | | 8.02 | | | 21.43 | | | 21.43 | | | 3.66 | | | 5.40 | | | 9.82 | | | 0.20 | 16.74 | |
| Index | Russell 2000 Value TR USD | | | 8.49 | | | 22.39 | | | 22.39 | | | 4.77 | | | 6.99 | | | 10.56 | | | 0.27 | 15.90 | |
| Small Blend | | | | | | | | | | | | | | | | | | | | | | | | |
| DCZRX | Delaware Small Cap Core R6 | 0.74 | 4 | 7.49 | 63 | 60 | 26.15 | 27 | 26 | 26.15 | 27 | 26 | 8.51 | 24 | 23 | 8.45 | 24 | n.a. | 13.35 | 3 | n.a. | 0.48 | 16.25 | Lipper Small-Cap Core Funds |
| VB | Vanguard Small-Cap ETF | 0.05 | 5 | 8.14 | 50 | 46 | 27.37 | 18 | 18 | 27.37 | 18 | 18 | 10.32 | 7 | 7 | 8.89 | 17 | 16 | 12.81 | 10 | 8 | 0.62 | 14.86 | Lipper Small-Cap Core Funds |
| Peer Group | US Fund Small Blend | | | 8.02 | | | 23.75 | | | 23.75 | | | 6.84 | | | 7.12 | | | 11.17 | | | 0.40 | 15.72 | |
| Index | Russell 2000 TR USD | | | 9.94 | | | 25.52 | | | 25.52 | | | 8.59 | | | 8.23 | | | 11.83 | | | 0.49 | 15.94 | |
| Small Growth | | | | | | | | | | | | | | | | | | | | | | | | |
| RSEJX | Victory RS Small Cap Growth R6 | 1.06 | 4 | 13.46 | 8 | 5 | 38.38 | 8 | 5 | 38.38 | 8 | 7 | 20.10 | 12 | n.a. | 11.83 | 20 | n.a. | 15.11 | 11 | n.a. | 1.04 | 17.53 | Lipper Small-Cap Growth Funds |
| VBK | Vanguard Small-Cap Growth ETF | 0.07 | 4 | 9.35 | 49 | 52 | 32.75 | 27 | 52 | 32.75 | 27 | 34 | 15.14 | 39 | 44 | 10.51 | 41 | 42 | 13.65 | 36 | 39 | 0.88 | 15.57 | Lipper Small-Cap Growth Funds |
| Peer Group | US Fund Small Growth | | | 9.46 | | | 27.68 | | | 27.68 | | | 13.66 | | | 9.92 | | | 12.68 | | | 0.75 | 16.68 | |
| Index | Russell 2000 Growth TR USD | | | 11.39 | | | 28.48 | | | 28.48 | | | 12.49 | | | 9.34 | | | 13.01 | | | 0.69 | 16.60 | |

*Morningstar overall rating

**Returns for periods under one year are not annualized

Returns are shown net of embedded expense ratios. Mstar Rnkg - Fund's ranking within Morningstar's category ("Peer Group"). Funds are ranked in descending order by return. For example, a Fund with a 20 ranking indicates that it is ranked in the top 20th percentile.

Source: Morningstar Direct; Wilshire Compass (Lipper Rankings)

INVESTMENT RETURNS & RANKINGS - EQUITY FUNDS

El Toro Water District - 401(k) Plan

| Ticker | Name | Annualized Total Rate of Return (%) as of 12/31/2019 | | | | | | | | | | | | | | | | | | | | | Lipper Category | |
|-------------------------------------|---------------------------------------|--|------------|---------|------------|-------------|---------|------------|-------------|---------|------------|-------------|---------|------------|-------------|---------|------------|-------------|----------|------------|-------------|------------|-----------------|---------------------------------------|
| | | Exp Ratio | MStar Rtg* | 3-Mos** | | | YTD** | | | 1-Year | | | 3-Years | | | 5-Years | | | 10-Years | | | 3 Yr Shrp% | | 3 Yr SD |
| | | | | Tot ROR | Mstar Rnkg | Lipper Rnkg | Tot ROR | Mstar Rnkg | Lipper Rnkg | Tot ROR | Mstar Rnkg | Lipper Rnkg | Tot ROR | Mstar Rnkg | Lipper Rnkg | Tot ROR | Mstar Rnkg | Lipper Rnkg | Tot ROR | Mstar Rnkg | Lipper Rnkg | | | |
| Foreign Large Blend | | | | | | | | | | | | | | | | | | | | | | | | |
| DFALX | DFA Large Cap International I | 0.23 | 3 | 8.02 | 64 | 64 | 22.04 | 43 | 31 | 22.04 | 43 | 31 | 9.52 | 45 | 32 | 5.65 | 42 | 33 | 5.44 | 38 | 34 | 0.70 | 11.48 | Lipper International Large-Cap Core |
| HEFA | iShares Currency Hedged MSCI EAFE ETF | 0.03 | 5 | 5.30 | 95 | 93 | 24.73 | 17 | 10 | 24.73 | 17 | 10 | 9.72 | 37 | 25 | 8.02 | 2 | 3 | - | - | n.a. | 0.82 | 9.85 | Lipper International Multi-Cap Core |
| Peer Group | US Fund Foreign Large Blend | | | 8.39 | | | 21.59 | | | 21.59 | | | 9.09 | | | 5.37 | | | 5.15 | | | 0.68 | 11.48 | |
| Peer Group | US Fund Europe Stock | | | 9.23 | | | 24.68 | | | 24.68 | | | 9.55 | | | 5.92 | | | 5.55 | | | 0.66 | 12.43 | |
| Index | MSCI EAFE NR USD | | | 8.17 | | | 22.01 | | | 22.01 | | | 9.56 | | | 5.67 | | | 5.50 | | | 0.73 | 10.96 | |
| Index | MSCI ACWI Ex USA NR USD | | | 8.92 | | | 21.51 | | | 21.51 | | | 9.87 | | | 5.51 | | | 4.97 | | | 0.73 | 11.50 | |
| Foreign Large Value | | | | | | | | | | | | | | | | | | | | | | | | |
| DODFX | Dodge & Cox International Stock | 0.63 | 3 | 10.61 | 11 | 6 | 22.78 | 7 | 48 | 22.78 | 7 | 48 | 7.67 | 33 | 63 | 3.68 | 62 | 68 | 5.76 | 15 | 18 | 0.48 | 13.96 | Lipper International Large-Cap Growth |
| Peer Group | US Fund Foreign Large Value | | | 8.44 | | | 17.80 | | | 17.80 | | | 6.81 | | | 3.76 | | | 4.23 | | | 0.48 | 11.82 | |
| Index | MSCI EAFE Value NR USD | | | 7.82 | | | 16.09 | | | 16.09 | | | 6.31 | | | 3.54 | | | 3.98 | | | 0.43 | 11.80 | |
| Index | MSCI ACWI Ex USA Value NR USD | | | 8.21 | | | 15.71 | | | 15.71 | | | 6.88 | | | 3.65 | | | 3.64 | | | 0.47 | 11.91 | |
| Foreign Large Growth | | | | | | | | | | | | | | | | | | | | | | | | |
| MGRDX | MFS International Growth R6 | 0.76 | 4 | 9.03 | 58 | 48 | 27.31 | 60 | 43 | 27.31 | 60 | 43 | 15.47 | 18 | 10 | 9.70 | 12 | 7 | 7.79 | 21 | 9 | 1.21 | 10.96 | Lipper International Multi-Cap Growth |
| Peer Group | US Fund Foreign Large Growth | | | 9.37 | | | 27.83 | | | 27.83 | | | 12.69 | | | 7.25 | | | 6.90 | | | 0.83 | 12.07 | |
| Index | MSCI EAFE Growth NR USD | | | 8.45 | | | 27.90 | | | 27.90 | | | 12.84 | | | 7.71 | | | 6.95 | | | 1.01 | 10.90 | |
| Index | MSCI ACWI Ex USA Growth NR USD | | | 9.58 | | | 27.34 | | | 27.34 | | | 12.89 | | | 7.30 | | | 6.24 | | | 0.95 | 11.66 | |
| Diversified Emerging Markets | | | | | | | | | | | | | | | | | | | | | | | | |
| HHHFX | Hartford Schroders Emerging Mkts Eq F | 1.07 | 4 | 11.32 | 42 | 45 | 22.32 | 30 | 40 | 22.32 | 30 | 40 | 13.40 | 18 | n.a. | 7.05 | 16 | n.a. | 4.19 | 36 | n.a. | 0.82 | 14.58 | Lipper Emerging Markets Funds |
| Peer Group | US Fund Diversified Emerging Mkts | | | 10.33 | | | 19.25 | | | 19.25 | | | 10.49 | | | 4.84 | | | 3.75 | | | 0.66 | 13.79 | |
| Index | MSCI EM NR USD | | | 11.84 | | | 18.42 | | | 18.42 | | | 11.57 | | | 5.61 | | | 3.68 | | | 0.71 | 14.37 | |

*Morningstar overall rating

**Returns for periods under one year are not annualized

Returns are shown net of embedded expense ratios. Mstar Rnkg - Fund's ranking within Morningstar's category ("Peer Group"). Funds are ranked in descending order by return. For example, a Fund with a 20 ranking indicates that it is ranked in the top 20th percentile.

Source: Morningstar Direct; Wilshire Compass (Lipper Rankings)

INVESTMENT RETURNS & RANKINGS - ALTERNATIVE FUNDS

El Toro Water District - 401(k) Plan

| Ticker | Name | Annualized Total Rate of Return (%) as of 12/31/2019 | | | | | | | | | | | | | | | | | | | | | | | Lipper Category |
|----------------------------|---|--|------------|---------|------------|-------------|---------|------------|-------------|---------|------------|-------------|---------|------------|-------------|---------|------------|-------------|----------|------------|-------------|------------|---------|---------------------------------|-----------------|
| | | Exp Ratio | MStar Rtg* | 3-Mos** | | | YTD** | | | 1-Year | | | 3-Years | | | 5-Years | | | 10-Years | | | 3 Yr Shrp% | 3 Yr SD | | |
| | | | | Tot ROR | Mstar Rnkg | Lipper Rnkg | Tot ROR | Mstar Rnkg | Lipper Rnkg | Tot ROR | Mstar Rnkg | Lipper Rnkg | Tot ROR | Mstar Rnkg | Lipper Rnkg | Tot ROR | Mstar Rnkg | Lipper Rnkg | Tot ROR | Mstar Rnkg | Lipper Rnkg | | | | |
| Market Neutral | | | | | | | | | | | | | | | | | | | | | | | | | |
| QMNIX | AQR Equity Market Neutral I | 1.99 | 2 | -2.78 | 87 | 82 | -11.27 | 94 | 88 | -11.27 | 94 | 88 | -6.06 | 94 | 89 | 0.63 | 55 | 39 | - | - | n.a. | -1.32 | 5.81 | Lipper Alt Equity Mkt Neutral | |
| BSIKX | BlackRock Strategic Income Opps K | 1 | 4 | 1.61 | 42 | 36 | 7.82 | 36 | 46 | 7.82 | 36 | 46 | 4.05 | 32 | 42 | 3.09 | 42 | n.a. | 4.45 | 16 | n.a. | 1.28 | 1.76 | Lipper Alt Credit Focus Funds | |
| BILPX | BlackRock Event Driven Equity Instl | 1.28 | 5 | 1.42 | 34 | 84 | 7.29 | 13 | 45 | 7.29 | 13 | 45 | 6.64 | 1 | 15 | 4.48 | - | 9 | 9.44 | - | 1 | 1.52 | 3.14 | Lipper Alt Event Driven Funds | |
| Managed Futures | | | | | | | | | | | | | | | | | | | | | | | | | |
| AQMIX | AQR Managed Futures Strategy I | 1.16 | 2 | -2.59 | 44 | 36 | 1.93 | 60 | 64 | 1.93 | 60 | 64 | -2.75 | 84 | 86 | -2.99 | 88 | 88 | - | - | n.a. | -0.48 | 8.64 | Lipper Alt Managed Futures | |
| AMFNX | Natixis ASG Managed Futures Strategy N | 1.36 | 3 | -4.13 | 75 | 67 | 8.45 | 26 | 25 | 8.45 | 26 | 25 | 0.46 | 51 | n.a. | -1.09 | 56 | n.a. | - | - | n.a. | -0.05 | 11.72 | Lipper Alt Managed Futures | |
| Merger Arbitrage | | | | | | | | | | | | | | | | | | | | | | | | | |
| ARBXX | Arbitrage I | 1.68 | 3 | 1.36 | 36 | 87 | 3.83 | 41 | 89 | 3.83 | 41 | 89 | 3.01 | 41 | 62 | 2.70 | 21 | 64 | 2.32 | 35 | 86 | 0.73 | 1.75 | Lipper Alt Event Driven Funds | |
| Global Macro | | | | | | | | | | | | | | | | | | | | | | | | | |
| EGRSX | Eaton Vance Glbl Macro Abs Ret Advtg R6 | 1.26 | 4 | 5.26 | 2 | 23 | 14.78 | 4 | 47 | 14.78 | 4 | 47 | 3.75 | 37 | n.a. | 4.26 | 11 | n.a. | - | - | n.a. | 0.48 | 4.25 | Lipper Alt Global Macro Funds | |
| LAOSX | Western Asset Macro Opportunities IS | 1.21 | 5 | 5.96 | 1 | 13 | 16.80 | 1 | 30 | 16.80 | 1 | 30 | 8.37 | 2 | 17 | 6.62 | 1 | 4 | - | - | n.a. | 1.01 | 6.46 | Lipper Alt Credit Focus Funds | |
| Fund of Hedge Funds | | | | | | | | | | | | | | | | | | | | | | | | | |
| BXMIX | Blackstone Alternative Multi-Strategy I | 3.19 | 4 | 2.14 | 40 | 17 | 6.77 | 58 | 55 | 6.77 | 58 | 55 | 4.07 | 30 | 22 | 3.41 | 12 | 4 | - | - | n.a. | 0.66 | 3.52 | Lipper Alt Multi-Strategy Funds | |
| QSPIX | AQR Style Premia Alternative I | 2.24 | 2 | -3.71 | 99 | 95 | -8.20 | 99 | 98 | -8.20 | 99 | 98 | -3.39 | 96 | 97 | -0.49 | 87 | 92 | - | - | n.a. | -0.78 | 6.32 | Lipper Absolute Return | |
| REITs | | | | | | | | | | | | | | | | | | | | | | | | | |
| ICF | iShares Cohen & Steers REIT ETF | 0.34 | 3 | -1.74 | 97 | 97 | 25.48 | 64 | 67 | 25.48 | 64 | 67 | 8.71 | 42 | 39 | 7.32 | 35 | 33 | 11.88 | 34 | 32 | 0.63 | 11.51 | Lipper Real Estate Funds | |

*Morningstar overall rating

**Returns for periods under one year are not annualized

Returns are shown net of embedded expense ratios. Mstar Rnkg - Fund's ranking within Morningstar's category ("Peer Group"). Funds are ranked in descending order by return. For example, a Fund with a 20 ranking indicates that it is ranked in the top 20th percentile.

Source: Morningstar Direct; Wilshire Compass (Lipper Rankings)

TARGET FUND ALLOCATIONS

El Toro Water District - 401(k) Plan

| | Capital Preservation | Income | Income & Growth | Balanced Income | Balanced | Capital Appreciation | Growth | Ticker | Fund Name |
|--------------------------------|-------------------------|----------------|--------------------|--------------------|----------------|-------------------------|----------------|--------|--|
| Equity | 20% | 34% | 50% | 59% | 69% | 79% | 84% | | |
| Large Cap Blend | 3.09% | 5.22% | 8.18% | 9.41% | 10.91% | 12.31% | 12.36% | COFYX | Columbia Contrarian Core Inst3 |
| | 3.04% | 5.15% | 8.39% | 9.25% | 10.67% | 12.04% | 12.34% | VGIAX | Vanguard Growth & Income Adm |
| Large Cap Growth | 1.49% | 2.52% | 3.26% | 4.27% | 4.65% | 5.58% | 5.90% | HNACX | Harbor Capital Appreciation Retirement |
| | 1.34% | 2.27% | 2.91% | 3.83% | 4.53% | 4.99% | 5.69% | LSITX | ClearBridge Large Cap Growth IS |
| Large Cap Value | 1.51% | 2.52% | 3.32% | 4.06% | 4.58% | 5.42% | 5.74% | PKAIX | PIMCO RAE US Instl |
| | 1.51% | 2.51% | 3.30% | 4.04% | 4.57% | 5.32% | 5.71% | DODGX | Dodge & Cox Stock |
| | 0.15% | 0.25% | 0.40% | 0.51% | 0.50% | 0.99% | 0.99% | IVE | iShares S&P 500 Value ETF |
| Mid Cap Blend | 0.40% | 0.70% | 1.00% | 1.20% | 1.20% | 3.43% | 3.64% | VO | Vanguard Mid-Cap ETF |
| Small Cap Blend | 0.67% | 1.89% | 1.66% | 1.35% | 1.67% | 2.01% | 2.16% | DCZRZ | Delaware Small Cap Core R6 |
| | 0.45% | 0.70% | 1.41% | 1.42% | 1.94% | 1.96% | 2.12% | VB | Vanguard Small-Cap ETF |
| Small Cap Growth | 0.43% | 0.65% | 1.08% | 1.55% | 1.63% | 1.84% | 2.09% | RSEJX | Victory RS Small Cap Growth R6 |
| | 0.41% | 0.51% | 1.01% | 1.43% | 1.51% | 1.58% | 1.77% | VBK | Vanguard Small-Cap Growth ETF |
| Small Cap Value | 0.87% | 1.14% | 2.08% | 2.99% | 3.23% | 3.47% | 3.87% | UBVFX | Undiscovered Managers Behavioral Val R6 |
| Foreign Large Blend | 1.05% | 1.39% | 1.56% | 1.86% | 1.91% | 2.37% | 3.09% | HEFA | iShares Currency Hedged MSCI EAFE ETF |
| | 1.58% | 2.88% | 5.20% | 6.13% | 7.56% | 7.96% | 8.09% | DFALX | DFA Large Cap International I |
| Foreign Large Growth | 0.51% | 0.99% | 1.11% | 1.47% | 1.65% | 1.89% | 2.25% | MGRDX | MFS International Growth R6 |
| Foreign Large Value | 0.49% | 1.00% | 1.10% | 1.40% | 1.67% | 1.89% | 2.25% | DODFX | Dodge & Cox International Stock |
| Emerging Markets | 1.08% | 1.83% | 2.59% | 3.06% | 3.52% | 3.85% | 3.86% | HHHFX | Hartford Schroders Emerging Mkts Eq F |
| Alternatives | 14% | 12% | 13% | 11% | 9% | 7% | 5% | | |
| Global Macro | 1.76% | 1.50% | 1.52% | 1.47% | 0.99% | 0.78% | 0.51% | EGRSX | Eaton Vance Gbl Macro Abs Ret Advtd R6 |
| | 1.73% | 1.48% | 1.55% | 1.29% | 1.00% | 0.77% | 0.50% | LAOSX | Western Asset Macro Opportunities IS |
| Managed Futures | 1.23% | 1.23% | 1.11% | 1.21% | 0.85% | 0.68% | 0.45% | AQMIX | AQR Managed Futures Strategy I |
| | 1.26% | 1.25% | 1.13% | 1.23% | 0.87% | 0.69% | 0.46% | AMFNX | Natixis ASG Managed Futures Strategy N |
| Merger/Arbitrage | 0.03% | 0.02% | 0.03% | 0.03% | 0.02% | 0.01% | 0.01% | ARBXX | Arbitrage I |
| Market Neutral | 0.63% | 0.39% | 0.49% | 0.51% | 0.32% | 0.32% | 0.22% | QMNIX | AQR Equity Market Neutral I |
| | 0.75% | 0.71% | 0.68% | 0.50% | 0.47% | 0.38% | 0.28% | BSIKX | BlackRock Strategic Income Opps K |
| | 1.24% | 1.39% | 1.49% | 0.99% | 0.92% | 0.83% | 0.55% | BILPX | BlackRock Event Driven Equity Instl |
| Multi-Strategy / Fund of Funds | 1.74% | 1.68% | 1.43% | 1.42% | 0.93% | 0.69% | 0.52% | BXMIX | Blackstone Alternative Multi-Strategy I |
| | 0.96% | 0.81% | 1.14% | 0.84% | 0.82% | 0.57% | 0.39% | QSPIX | AQR Style Premia Alternative I |
| REITs | 2.67% | 2.02% | 2.43% | 1.99% | 1.61% | 1.43% | 1.19% | ICF | iShares Cohen & Steers REIT ETF |
| Fixed Income | 62% | 49% | 35% | 26% | 18% | 10% | 7% | | |
| Short Term Bond | 6.97% | 4.47% | 2.98% | 3.25% | 2.29% | 1.02% | 0.25% | VFSUX | Vanguard Short-Term Investment-Grade Adm |
| Intermediate-Term Bond | 13.59% | 11.15% | 7.79% | 5.48% | 3.99% | 2.13% | 1.63% | DBLFX | DoubleLine Core Fixed Income I |
| | 13.65% | 11.21% | 7.82% | 5.53% | 4.00% | 2.14% | 1.64% | PTTRX | PIMCO Total Return Instl |
| | 13.99% | 11.35% | 8.01% | 5.69% | 4.05% | 2.20% | 1.68% | PTRQX | PGIM Total Return Bond R6 |
| | 13.79% | 11.31% | 7.90% | 5.55% | 4.03% | 2.16% | 1.66% | DODIX | Dodge & Cox Income |
| Cash | 4% | 4% | 3% | 4% | 4% | 4% | 4% | | |
| Cash & Equivalents | 3.94% | 3.94% | 2.96% | 3.81% | 4.15% | 4.33% | 4.17% | FIGXX | Fidelity Money Market Government Portfolio I |
| TOTAL | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | | |

Target Allocations are subject to change without notice.

INVESTMENT PORTFOLIO SUMMARY - CAPITAL PRESERVATION

El Toro Water District - 401(k) Plan

Data as of: 12/31/2019

Portfolio Manager:
Keith Stribling, CFA

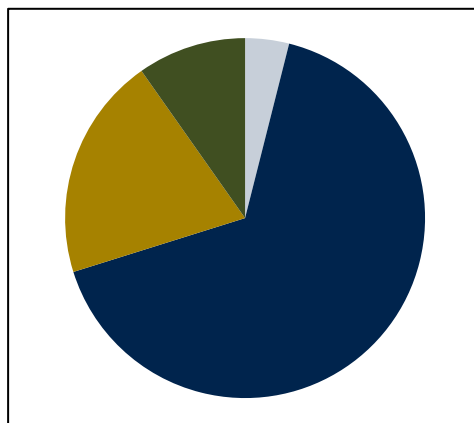
Account Snapshot

| Asset Class | Market Value | Tax Cost | Est. Annual Income | Current Yield (%) |
|--------------------|-----------------------|-----------------------|--------------------|-------------------|
| Cash & Equivalents | \$133,645.00 | \$133,645.00 | \$2,003.34 | 1.50% |
| Fixed Income | \$2,246,237.63 | \$2,232,797.06 | \$72,171.62 | 3.21% |
| Equities | \$680,929.69 | \$610,587.55 | \$11,684.75 | 1.72% |
| Alternatives | \$331,165.67 | \$346,392.09 | \$10,319.12 | 3.12% |
| Other | \$0.00 | \$0.00 | \$0.00 | 0.00% |
| Total | \$3,391,977.99 | \$3,323,421.70 | \$96,178.83 | 2.84% |

Yields are gross of any fees and reflect the reinvestment of dividends and other income

Asset Allocation

| | |
|-------|--------------------|
| 3.9% | Cash & Equivalents |
| 66.2% | Fixed Income |
| 20.1% | Equities |
| 9.8% | Alternatives |
| 0.0% | Other |



Income Summary (1, 2)

| | |
|---|-----------------|
| Cash & Equivalents Income Earned YTD | \$966 |
| Taxable Fixed Income Income Earned YTD | \$36,018 |
| Tax-Exempt Fixed Income Income Earned YTD | \$0 |
| Equity Income Earned YTD | \$37,114 |
| Alternative Income Earned YTD | \$8,356 |
| Other Income Earned YTD | \$0 |
| Total | \$82,454 |

Net Gain/Loss Summary (3)

| | Realized | Unrealized |
|--------------------------|-----------------|-----------------|
| Net Short Term Gain/Loss | \$13,981 | |
| Net Long Term Gain/Loss | \$30,709 | |
| Total | \$44,689 | \$68,556 |

(1) As of 12/31/2019

(2) Information is calculated on a calendar year basis and includes income, dividends, and capital gain distributions

(3) Gain/Loss information is for informational purposes only.

HOLDINGS REPORT

El Toro Water District 401(k) - Capital Preservation

As of Fourth Quarter 2019

| TICKER | CUSIP | ASSET NAME | SHARES/UNITS | COST BASIS | PRICE | MARKET VALUE (MV) | MV AS % OF ASSET TYPE | MV AS % OF TOTAL |
|-------------------------------------|-----------|--|--------------|-----------------------|--------|-----------------------|-----------------------|------------------|
| CASH EQUIVALENTS | | | | | | | | |
| MONEY MARKET FUNDS/CASH | | | | | | | | |
| n.a. | n.a. | CASH | (4,578.9100) | (\$4,578.91) | 1.00 | (\$4,578.91) | -3.43% | -0.13% |
| FPZXX | n.a. | CASH FUND | 138,223.91 | \$138,223.91 | 1.00 | \$138,223.91 | 103.43% | 4.08% |
| TOTAL CASH | | | | \$133,645.00 | | \$133,645.00 | | 3.94% |
| FIXED INCOME | | | | | | | | |
| Short-Term Bond Funds | | | | | | | | |
| VFSUX | 922031836 | Vanguard Short-Term Investment-Grade Adm | 22,034.68 | 233,549.62 | 10.73 | 236,432.06 | 11.24% | 6.97% |
| Intermediate-Term Bond Funds | | | | | | | | |
| DBLFX | 258620301 | DoubleLine Core Fixed Income I | 41,647.61 | 453,968.93 | 11.07 | 461,039.04 | 21.93% | 13.59% |
| DODIX | 256210105 | Dodge & Cox Income | 33,336.75 | 458,971.63 | 14.03 | 467,714.59 | 22.24% | 13.79% |
| PTRQX | 74440B884 | PGIM Total Return Bond R6 | 32,902.09 | 479,515.92 | 14.42 | 474,448.15 | 22.56% | 13.99% |
| PTRRX | 693390700 | PIMCO Total Return Instl | 44,784.91 | 468,017.24 | 10.34 | 463,075.93 | 22.02% | 13.65% |
| | | | | <u>\$1,860,473.72</u> | | <u>\$1,866,277.71</u> | | <u>55.02%</u> |
| TOTAL FIXED INCOME | | | | \$2,094,023.34 | | \$2,102,709.77 | | 61.99% |
| EQUITY | | | | | | | | |
| Large Cap Blend Funds | | | | | | | | |
| COFYX | 19766M709 | Columbia Contrarian Core Inst3 | 3,821.90 | 87,860.40 | 27.43 | 104,834.83 | 15.40% | 3.09% |
| VGIAX | 921913208 | Vanguard Growth & Income Adm | 1,214.97 | 87,911.81 | 84.83 | 103,065.65 | 15.14% | 3.04% |
| | | | | <u>\$175,772.21</u> | | <u>\$207,900.48</u> | | <u>6.13%</u> |
| Large Cap Value Funds | | | | | | | | |
| DODGX | 256219106 | Dodge & Cox Stock | 263.70 | 49,288.31 | 193.76 | 51,094.51 | 7.50% | 1.51% |
| PKAIX | 72202L462 | PIMCO RAE US Instl | 4,431.16 | 48,382.37 | 11.59 | 51,357.16 | 7.54% | 1.51% |
| IVE | 464287408 | iShares S&P 500 Value ETF | 40.00 | 5,171.60 | 130.09 | 5,203.60 | 0.76% | 0.15% |
| | | | | <u>\$102,842.28</u> | | <u>\$107,655.27</u> | | <u>3.17%</u> |
| Large Cap Growth Funds | | | | | | | | |
| HNACX | 411512528 | Harbor Capital Appreciation Retirement | 669.15 | 45,498.12 | 75.7 | 50,654.88 | 7.44% | 1.49% |
| LSITX | 52469H255 | ClearBridge Large Cap Growth IS | 832.85 | 39,486.17 | 54.66 | 45,523.80 | 6.69% | 1.34% |
| | | | | <u>\$84,984.29</u> | | <u>\$96,178.68</u> | | <u>2.84%</u> |
| Mid Cap Blend Funds | | | | | | | | |
| VO | 922908629 | Vanguard Mid-Cap ETF | 76.00 | 12,359.84 | 178.18 | 13,541.68 | 1.99% | 0.40% |

HOLDINGS REPORT

El Toro Water District 401(k) - Capital Preservation

As of Fourth Quarter 2019

| TICKER | CUSIP | ASSET NAME | SHARES/UNITS | COST BASIS | PRICE | MARKET VALUE (MV) | MV AS % OF ASSET TYPE | MV AS % OF TOTAL |
|-------------------------------------|-----------|---|--------------|--------------------|---------------------|--------------------|-----------------------|------------------|
| Small Cap Value Funds | | | | | | | | |
| UBVFX | 904504479 | Undiscovered Managers Behavioral Val R6 | 469.47 | 30,787.18 | 62.81 | 29,487.22 | 4.33% | 0.87% |
| Small Cap Blend Funds | | | | | | | | |
| DCZRX | 246108826 | Delaware Small Cap Core R6 | 955.34 | 22,676.19 | 23.69 | 22,631.96 | 3.32% | 0.67% |
| VB | 922908751 | Vanguard Small-Cap ETF | 93.00 | 13,980.94 | 165.64 | 15,404.52 | 2.26% | 0.45% |
| | | | | <u>\$36,657.13</u> | | <u>\$38,036.48</u> | | <u>1.12%</u> |
| Small Cap Growth Funds | | | | | | | | |
| RSEJX | 92647Q363 | Victory RS Small Cap Growth R6 | 180.83 | 14,587.29 | 81.24 | 14,690.55 | 2.16% | 0.43% |
| VBK | 922908595 | Vanguard Small-Cap Growth ETF | 70.00 | 13,403.17 | 198.7 | 13,909.00 | 2.04% | 0.41% |
| | | | | <u>\$27,990.46</u> | | <u>\$28,599.55</u> | | <u>0.84%</u> |
| Foreign Large Value Funds | | | | | | | | |
| DODFX | 256206103 | Dodge & Cox International Stock | 379.49 | 15,717.14 | 43.6 | 16,545.94 | 2.43% | 0.49% |
| Foreign Large Blend Funds | | | | | | | | |
| DFALX | 233203868 | DFA Large Cap International I | 2,257.06 | 48,109.15 | 23.67 | 53,424.59 | 7.85% | 1.58% |
| HEFA | 46434V803 | iShares Currency Hedged MSCI EAFE ETF | 1,172.00 | 30,911.65 | 30.515 | 35,763.58 | 5.25% | 1.05% |
| | | | | <u>\$79,020.80</u> | | <u>\$89,188.17</u> | | <u>2.63%</u> |
| Foreign Large Growth Funds | | | | | | | | |
| MGRDX | 552746356 | MFS International Growth R6 | 465.57 | 13,068.25 | 37.1 | 17,272.72 | 2.54% | 0.51% |
| Diversified Emerging Markets | | | | | | | | |
| HHHFX | 41665X859 | Hartford Schroders Emerging Mkts Eq F | 2,202.87 | 31,387.97 | 16.58 | 36,523.50 | 5.36% | 1.08% |
| | | | | <u>\$31,387.97</u> | | <u>\$36,523.50</u> | | <u>1.08%</u> |
| TOTAL EQUITY | | | | | \$610,587.55 | | \$680,929.69 | 20.07% |
| ALTERNATIVES | | | | | | | | |
| Market Neutral | | | | | | | | |
| QMNIX | 00191K799 | AQR Equity Market Neutral I | 2,319.35 | 25,889.12 | 9.2 | 21,338.03 | 3.13% | 0.63% |
| BILPX | 09250J734 | BlackRock Event Driven Equity Instl | 4,346.27 | 43,060.79 | 9.69 | 42,115.40 | 6.18% | 1.24% |
| BSIKX | 09260B374 | BlackRock Strategic Income Opps K | 2,536.60 | 25,017.09 | 9.98 | 25,315.23 | 3.72% | 0.75% |
| | | | | <u>\$93,967.00</u> | | <u>\$88,768.66</u> | | <u>2.62%</u> |
| Managed Futures | | | | | | | | |
| AQMIX | 00203H859 | AQR Managed Futures Strategy I | 5,021.68 | 47,498.20 | 8.31 | 41,730.15 | 6.13% | 1.23% |

HOLDINGS REPORT

El Toro Water District 401(k) - Capital Preservation

As of Fourth Quarter 2019

| TICKER | CUSIP | ASSET NAME | SHARES/UNITS | COST BASIS | PRICE | MARKET VALUE (MV) | MV AS % OF ASSET TYPE | MV AS % OF TOTAL |
|----------------------------|-----------|---|--------------|--------------|-----------------------|-------------------|-----------------------|------------------|
| AMFNX | 63873P825 | Natixis ASG Managed Futures Strategy N | 4,544.08 | 47,230.73 | 9.37 | 42,577.99 | 6.25% | 1.26% |
| | | | | \$94,728.93 | | \$84,308.14 | | 2.49% |
| Merger Arbitrage | | | | | | | | |
| ARBNX | 03875R205 | Arbitrage I | 66.15 | 863.75 | 13.35 | 883.16 | 0.13% | 0.03% |
| Global Macro | | | | | | | | |
| EGRSX | 27830W108 | Eaton Vance Glbl Macro Abs Ret Advtg R6 | 5,690.08 | 57,217.32 | 10.47 | 59,575.10 | 8.75% | 1.76% |
| LAOSX | 95768D509 | Western Asset Macro Opportunities IS | 5,273.16 | 56,539.31 | 11.12 | 58,637.53 | 8.61% | 1.73% |
| | | | | \$113,756.63 | | \$118,212.63 | | 3.49% |
| Fund of Hedge Funds | | | | | | | | |
| BXMIX | 09257V201 | Blackstone Alternative Multi-Strategy I | 5,538.89 | 58,613.44 | 10.68 | 59,155.30 | 8.69% | 1.74% |
| QSPIX | 00203H420 | AQR Style Premia Alternative I | 4,012.07 | 38,455.17 | 8.15 | 32,698.39 | 4.80% | 0.96% |
| | | | | \$97,068.61 | | \$91,853.69 | | 2.71% |
| REITs | | | | | | | | |
| ICF | 464287564 | iShares Cohen & Steers REIT ETF | 775.00 | 84,780.89 | 116.99 | 90,667.25 | 13.32% | 2.67% |
| TOTAL ALTERNATIVES | | | | | \$485,165.81 | | \$474,693.53 | 13.99% |
| TOTAL - ALL ASSETS | | | | | \$3,323,421.70 | | \$3,391,977.99 | 100.00% |

INVESTMENT PORTFOLIO SUMMARY - INCOME

El Toro Water District - 401(k) Plan

Data as of: 12/31/2019

Portfolio Manager:
Keith Stribling, CFA

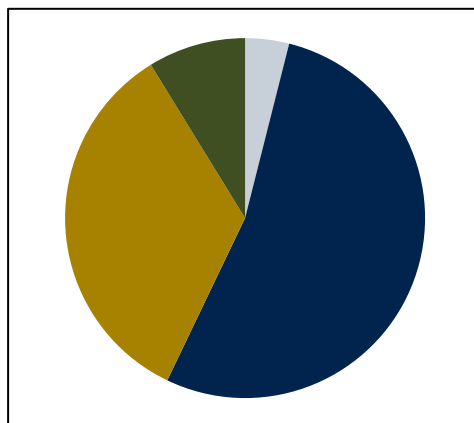
Account Snapshot

| Asset Class | Market Value | Tax Cost | Est. Annual Income | Current Yield (%) |
|--------------------|-----------------------|-----------------------|---------------------|-------------------|
| Cash & Equivalents | \$157,903.98 | \$157,903.98 | \$2,366.98 | 1.50% |
| Fixed Income | \$2,128,942.79 | \$2,090,127.55 | \$68,402.93 | 3.21% |
| Equities | \$1,365,881.95 | \$1,324,288.78 | \$23,438.53 | 1.72% |
| Alternatives | \$351,254.03 | \$360,955.51 | \$10,945.08 | 3.12% |
| Other | \$0.00 | \$0.00 | \$0.00 | 0.00% |
| Total | \$4,003,982.75 | \$3,933,275.82 | \$105,153.52 | 2.63% |

Yields are gross of any fees and reflect the reinvestment of dividends and other income

Asset Allocation

| | |
|-------|--------------------|
| 3.9% | Cash & Equivalents |
| 53.2% | Fixed Income |
| 34.1% | Equities |
| 8.8% | Alternatives |
| 0.0% | Other |



Income Summary (1, 2)

| | |
|---|------------------|
| Cash & Equivalents Income Earned YTD | \$823 |
| Taxable Fixed Income Income Earned YTD | \$34,828 |
| Tax-Exempt Fixed Income Income Earned YTD | \$0 |
| Equity Income Earned YTD | \$65,161 |
| Alternative Income Earned YTD | \$8,452 |
| Other Income Earned YTD | \$0 |
| Total | \$109,263 |

Net Gain/Loss Summary (3)

| | Realized | Unrealized |
|--------------------------|-----------------|-----------------|
| Net Short Term Gain/Loss | \$16,482 | |
| Net Long Term Gain/Loss | \$49,546 | |
| Total | \$66,029 | \$70,707 |

(1) As of 12/31/2019

(2) Information is calculated on a calendar year basis and includes income, dividends, and capital gain distributions

(3) Gain/Loss information is for informational purposes only.

HOLDINGS REPORT

El Toro Water District 401(k) - Income

As of Fourth Quarter 2019

| TICKER | CUSIP | ASSET NAME | SHARES/UNITS | COST BASIS | PRICE | MARKET VALUE (MV) | MV AS % OF ASSET TYPE | MV AS % OF TOTAL |
|-------------------------------------|-----------|--|--------------|-----------------------|--------|-----------------------|-----------------------|------------------|
| CASH EQUIVALENTS | | | | | | | | |
| MONEY MARKET FUNDS/CASH | | | | | | | | |
| n.a. | n.a. | CASH | (4,270.0700) | (\$4,270.07) | 1.00 | (\$4,270.07) | -2.70% | -0.11% |
| FPZXX | n.a. | CASH FUND | 162,174.05 | \$162,174.05 | 1.00 | \$162,174.05 | 102.70% | 4.05% |
| TOTAL CASH | | | | \$157,903.98 | | \$157,903.98 | | 3.94% |
| FIXED INCOME | | | | | | | | |
| Short-Term Bond Funds | | | | | | | | |
| VFSUX | 922031836 | Vanguard Short-Term Investment-Grade Adm | 16,666.76 | 175,615.85 | 10.73 | 178,834.32 | 9.03% | 4.47% |
| | | | | <u>\$175,615.85</u> | | <u>\$178,834.32</u> | | <u>4.47%</u> |
| Intermediate-Term Bond Funds | | | | | | | | |
| DBLFX | 258620301 | DoubleLine Core Fixed Income I | 40,312.36 | 437,125.85 | 11.07 | 446,257.81 | 22.52% | 11.15% |
| DODIX | 256210105 | Dodge & Cox Income | 32,281.31 | 440,728.78 | 14.03 | 452,906.82 | 22.86% | 11.31% |
| PTRQX | 74440B884 | PGIM Total Return Bond R6 | 31,510.43 | 451,830.46 | 14.42 | 454,380.37 | 22.93% | 11.35% |
| PTTRX | 693390700 | PIMCO Total Return Instl | 43,423.07 | 439,627.51 | 10.34 | 448,994.54 | 22.66% | 11.21% |
| | | | | <u>\$1,769,312.60</u> | | <u>\$1,802,539.54</u> | | <u>45.02%</u> |
| TOTAL FIXED INCOME | | | | \$1,944,928.45 | | \$1,981,373.86 | | 49.49% |
| EQUITY | | | | | | | | |
| Large Cap Blend Funds | | | | | | | | |
| COFYX | 19766M709 | Columbia Contrarian Core Inst3 | 7,624.83 | 202,688.07 | 27.43 | 209,149.17 | 15.31% | 5.22% |
| VGIAX | 921913208 | Vanguard Growth & Income Adm | 2,428.94 | 196,377.14 | 84.83 | 206,046.98 | 15.09% | 5.15% |
| | | | | <u>\$399,065.21</u> | | <u>\$415,196.15</u> | | <u>10.37%</u> |
| Large Cap Value Funds | | | | | | | | |
| DODGX | 256219106 | Dodge & Cox Stock | 519.25 | 102,405.41 | 193.76 | 100,610.66 | 7.37% | 2.51% |
| PKAIX | 72202L462 | PIMCO RAE US Instl | 8,723.00 | 99,742.83 | 11.59 | 101,099.58 | 7.40% | 2.52% |
| IVE | 464287408 | iShares S&P 500 Value ETF | 76.00 | 9,825.66 | 130.09 | 9,886.84 | 0.72% | 0.25% |
| | | | | <u>\$211,973.90</u> | | <u>\$211,597.08</u> | | <u>5.28%</u> |
| Large Cap Growth Funds | | | | | | | | |
| HNACX | 411512528 | Harbor Capital Appreciation Retirement | 1,330.40 | 100,353.06 | 75.7 | 100,711.51 | 7.37% | 2.52% |
| LSITX | 52469H255 | ClearBridge Large Cap Growth IS | 1,662.02 | 86,543.14 | 54.66 | 90,846.12 | 6.65% | 2.27% |
| | | | | <u>\$186,896.20</u> | | <u>\$191,557.63</u> | | <u>4.78%</u> |
| Mid Cap Blend Funds | | | | | | | | |
| VO | 922908629 | Vanguard Mid-Cap ETF | 157.00 | 26,350.61 | 178.18 | 27,974.26 | 2.05% | 0.70% |

HOLDINGS REPORT

El Toro Water District 401(k) - Income

As of Fourth Quarter 2019

| TICKER | CUSIP | ASSET NAME | SHARES/UNITS | COST BASIS | PRICE | MARKET VALUE (MV) | MV AS % OF ASSET TYPE | MV AS % OF TOTAL |
|-------------------------------------|-----------|---|--------------|-----------------------|--------|-----------------------|-----------------------|------------------|
| Small Cap Value Funds | | | | | | | | |
| UBVFX | 904504479 | Undiscovered Managers Behavioral Val R6 | 725.34 | 49,542.25 | 62.81 | 45,558.86 | 3.34% | 1.14% |
| Small Cap Blend Funds | | | | | | | | |
| DCZR | 246108826 | Delaware Small Cap Core R6 | 3,201.61 | 75,283.80 | 23.69 | 75,846.16 | 5.55% | 1.89% |
| VB | 922908751 | Vanguard Small-Cap ETF | 169.00 | 25,924.62 | 165.64 | 27,993.16 | 2.05% | 0.70% |
| | | | | <u>\$101,208.42</u> | | <u>\$103,839.32</u> | | <u>2.59%</u> |
| Small Cap Growth Funds | | | | | | | | |
| RSEJX | 92647Q363 | Victory RS Small Cap Growth R6 | 319.27 | 25,120.37 | 81.24 | 25,937.66 | 1.90% | 0.65% |
| VBK | 922908595 | Vanguard Small-Cap Growth ETF | 102.00 | 19,530.34 | 198.7 | 20,267.40 | 1.48% | 0.51% |
| | | | | <u>\$44,650.71</u> | | <u>\$46,205.06</u> | | <u>1.15%</u> |
| Foreign Large Value Funds | | | | | | | | |
| DODFX | 256206103 | Dodge & Cox International Stock | 916.12 | 39,626.18 | 43.6 | 39,942.92 | 2.92% | 1.00% |
| Foreign Large Blend Funds | | | | | | | | |
| DFALX | 233203868 | DFA Large Cap International I | 4,875.31 | 105,432.74 | 23.67 | 115,398.68 | 8.45% | 2.88% |
| HEFA | 46434V803 | iShares Currency Hedged MSCI EAFE ETF | 1,830.00 | 53,479.64 | 30.515 | 55,842.45 | 4.09% | 1.39% |
| | | | | <u>\$158,912.38</u> | | <u>\$171,241.13</u> | | <u>4.28%</u> |
| Foreign Large Growth Funds | | | | | | | | |
| MGRDX | 552746356 | MFS International Growth R6 | 1,069.26 | 37,209.21 | 37.1 | 39,669.51 | 2.90% | 0.99% |
| Diversified Emerging Markets | | | | | | | | |
| HHHFX | 41665X859 | Hartford Schrodgers Emerging Mkts Eq F | 4,408.93 | 68,853.71 | 16.58 | 73,100.03 | 5.35% | 1.83% |
| | | | | <u>\$68,853.71</u> | | <u>\$73,100.03</u> | | <u>1.83%</u> |
| TOTAL EQUITY | | | | \$1,324,288.78 | | \$1,365,881.95 | | 34.11% |

ALTERNATIVES

Market Neutral

| | | | | | | | | |
|-------|-----------|-------------------------------------|----------|---------------------|------|--------------------|-------|--------------|
| QMNIX | 00191K799 | AQR Equity Market Neutral I | 1,691.34 | 17,814.92 | 9.2 | 15,560.33 | 1.14% | 0.39% |
| BILPX | 09250J734 | BlackRock Event Driven Equity Instl | 5,730.74 | 56,665.23 | 9.69 | 55,530.91 | 4.07% | 1.39% |
| BSIKX | 09260B374 | BlackRock Strategic Income Opps K | 2,850.95 | 28,036.79 | 9.98 | 28,452.51 | 2.08% | 0.71% |
| | | | | <u>\$102,516.94</u> | | <u>\$99,543.75</u> | | <u>2.49%</u> |

HOLDINGS REPORT

El Toro Water District 401(k) - Income

As of Fourth Quarter 2019

| TICKER | CUSIP | ASSET NAME | SHARES/UNITS | COST BASIS | PRICE | MARKET VALUE (MV) | MV AS % OF ASSET TYPE | MV AS % OF TOTAL |
|----------------------------|-----------|---|--------------|-----------------------|--------|-----------------------|-----------------------|------------------|
| Managed Futures | | | | | | | | |
| AQMIX | 00203H859 | AQR Managed Futures Strategy I | 5,907.05 | 51,306.71 | 8.31 | 49,087.56 | 3.59% | 1.23% |
| AMFNX | 63873P825 | Natixis ASG Managed Futures Strategy N | 5,352.95 | 52,019.98 | 9.37 | 50,157.11 | 3.67% | 1.25% |
| | | | | <u>\$103,326.69</u> | | <u>\$99,244.67</u> | | <u>2.48%</u> |
| Merger Arbitrage | | | | | | | | |
| ARBNX | 03875R205 | Arbitrage I | 46.52 | 608.24 | 13.35 | 620.99 | 0.05% | 0.02% |
| Global Macro | | | | | | | | |
| EGRSX | 27830W108 | Eaton Vance Gbl Macro Abs Ret Advtg R6 | 5,727.83 | 57,962.74 | 10.47 | 59,970.36 | 4.39% | 1.50% |
| LAOSX | 95768D509 | Western Asset Macro Opportunities IS | 5,318.89 | 59,199.57 | 11.12 | 59,146.06 | 4.33% | 1.48% |
| | | | | <u>\$117,162.31</u> | | <u>\$119,116.42</u> | | <u>2.97%</u> |
| Fund of Hedge Funds | | | | | | | | |
| BXMIX | 09257V201 | Blackstone Alternative Multi-Strategy I | 6,279.77 | 67,915.79 | 10.68 | 67,067.96 | 4.91% | 1.68% |
| QSPIX | 00203H420 | AQR Style Premia Alternative I | 3,959.77 | 36,388.62 | 8.15 | 32,272.09 | 2.36% | 0.81% |
| | | | | <u>\$104,304.41</u> | | <u>\$99,340.05</u> | | <u>2.48%</u> |
| REITs | | | | | | | | |
| ICF | 464287564 | iShares Cohen & Steers REIT ETF | 692.00 | 78,236.02 | 116.99 | 80,957.08 | 5.93% | 2.02% |
| TOTAL ALTERNATIVES | | | | \$506,154.61 | | \$498,822.96 | | 12.46% |
| TOTAL - ALL ASSETS | | | | \$3,933,275.82 | | \$4,003,982.75 | | 100.00% |

INVESTMENT PORTFOLIO SUMMARY - INCOME & GROWTH

El Toro Water District - 401(k) Plan

Data as of: 12/31/2019

Portfolio Manager:
Keith Stribling, CFA

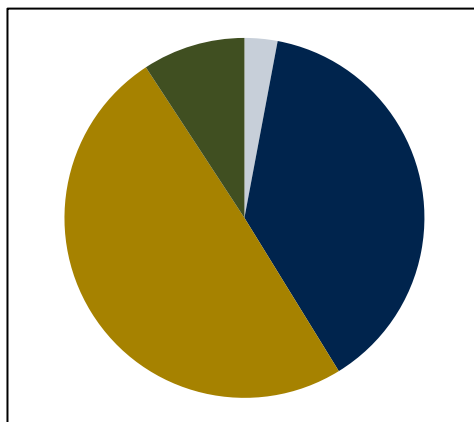
Account Snapshot

| Asset Class | Market Value | Tax Cost | Est. Annual Income | Current Yield (%) |
|--------------------|-----------------------|-----------------------|---------------------|-------------------|
| Cash & Equivalents | \$212,028.24 | \$212,028.24 | \$3,178.30 | 1.50% |
| Fixed Income | \$2,742,491.88 | \$2,734,715.29 | \$88,116.26 | 3.21% |
| Equities | \$3,552,732.66 | \$3,121,085.70 | \$60,964.89 | 1.72% |
| Alternatives | \$661,394.86 | \$705,861.73 | \$20,609.06 | 3.12% |
| Other | \$0.00 | \$0.00 | \$0.00 | 0.00% |
| Total | \$7,168,647.64 | \$6,773,690.96 | \$172,868.52 | 2.41% |

Yields are gross of any fees and reflect the reinvestment of dividends and other income

Asset Allocation

| | |
|-------|--------------------|
| 3.0% | Cash & Equivalents |
| 38.3% | Fixed Income |
| 49.6% | Equities |
| 9.2% | Alternatives |
| 0.0% | Other |



Income Summary (1, 2)

| | |
|---|------------------|
| Cash & Equivalents Income Earned YTD | \$1,162 |
| Taxable Fixed Income Income Earned YTD | \$43,491 |
| Tax-Exempt Fixed Income Income Earned YTD | \$0 |
| Equity Income Earned YTD | \$159,239 |
| Alternative Income Earned YTD | \$15,658 |
| Other Income Earned YTD | \$0 |
| Total | \$219,548 |

Net Gain/Loss Summary (3)

| | Realized | Unrealized |
|--------------------------|------------------|------------------|
| Net Short Term Gain/Loss | \$26,685 | |
| Net Long Term Gain/Loss | \$125,625 | |
| Total | \$152,310 | \$394,957 |

(1) As of 12/31/2019

(2) Information is calculated on a calendar year basis and includes income, dividends, and capital gain distributions

(3) Gain/Loss information is for informational purposes only.

HOLDINGS REPORT

El Toro Water District 401(k) - Income & Growth

As of Fourth Quarter 2019

| TICKER | CUSIP | ASSET NAME | SHARES/UNITS | COST BASIS | PRICE | MARKET VALUE (MV) | MV AS % OF ASSET TYPE | MV AS % OF TOTAL |
|-------------------------------------|-----------|--|--------------|-----------------------|--------|-----------------------|-----------------------|------------------|
| CASH EQUIVALENTS | | | | | | | | |
| MONEY MARKET FUNDS/CASH | | | | | | | | |
| n.a. | n.a. | CASH | (5,501.8300) | (\$5,501.83) | 1.00 | (\$5,501.83) | -2.59% | -0.08% |
| FPZXX | n.a. | CASH FUND | 217,530.07 | \$217,530.07 | 1.00 | \$217,530.07 | 102.59% | 3.03% |
| TOTAL CASH | | | | \$212,028.24 | | \$212,028.24 | | 2.96% |
| FIXED INCOME | | | | | | | | |
| Short-Term Bond Funds | | | | | | | | |
| VFSUX | 922031836 | Vanguard Short-Term Investment-Grade Adm | 19,934.67 | 211,594.73 | 10.73 | 213,899.01 | 8.65% | 2.98% |
| | | | | <u>\$211,594.73</u> | | <u>\$213,899.01</u> | | <u>2.98%</u> |
| Intermediate-Term Bond Funds | | | | | | | | |
| DBLFX | 258620301 | DoubleLine Core Fixed Income I | 50,449.00 | 550,461.60 | 11.07 | 558,470.47 | 22.57% | 7.79% |
| DODIX | 256210105 | Dodge & Cox Income | 40,380.78 | 557,655.90 | 14.03 | 566,542.27 | 22.90% | 7.90% |
| PTRQX | 74440B884 | PGIM Total Return Bond R6 | 39,832.69 | 582,673.20 | 14.42 | 574,387.42 | 23.22% | 8.01% |
| PTTRX | 693390700 | PIMCO Total Return Instl | 54,241.41 | 573,184.61 | 10.34 | 560,856.16 | 22.67% | 7.82% |
| | | | | <u>\$2,263,975.31</u> | | <u>\$2,260,256.32</u> | | <u>31.53%</u> |
| TOTAL FIXED INCOME | | | | \$2,475,570.04 | | \$2,474,155.33 | | 34.51% |
| EQUITY | | | | | | | | |
| Large Cap Blend Funds | | | | | | | | |
| COFYX | 19766M709 | Columbia Contrarian Core Inst3 | 21,382.51 | 476,561.04 | 27.43 | 586,522.36 | 16.51% | 8.18% |
| VGIAX | 921913208 | Vanguard Growth & Income Adm | 7,086.38 | 509,112.33 | 84.83 | 601,137.95 | 16.92% | 8.39% |
| | | | | <u>\$985,673.37</u> | | <u>\$1,187,660.31</u> | | <u>16.57%</u> |
| Large Cap Value Funds | | | | | | | | |
| DODGX | 256219106 | Dodge & Cox Stock | 1,221.75 | 224,745.27 | 193.76 | 236,726.09 | 6.66% | 3.30% |
| PKAIX | 72202L462 | PIMCO RAE US Instl | 20,532.35 | 221,139.66 | 11.59 | 237,969.96 | 6.70% | 3.32% |
| IVE | 464287408 | iShares S&P 500 Value ETF | 219.00 | 28,320.60 | 130.09 | 28,489.71 | 0.80% | 0.40% |
| | | | | <u>\$474,205.53</u> | | <u>\$503,185.76</u> | | <u>7.02%</u> |
| Large Cap Growth Funds | | | | | | | | |
| HNACX | 411512528 | Harbor Capital Appreciation Retirement | 3,086.00 | 201,071.59 | 75.7 | 233,610.12 | 6.58% | 3.26% |
| LSITX | 52469H255 | ClearBridge Large Cap Growth IS | 3,814.88 | 176,031.09 | 54.66 | 208,521.23 | 5.87% | 2.91% |
| | | | | <u>\$377,102.68</u> | | <u>\$442,131.35</u> | | <u>6.17%</u> |
| Mid Cap Blend Funds | | | | | | | | |
| VO | 922908629 | Vanguard Mid-Cap ETF | 402.00 | 65,086.48 | 178.18 | 71,628.36 | 2.02% | 1.00% |

HOLDINGS REPORT

El Toro Water District 401(k) - Income & Growth

As of Fourth Quarter 2019

| TICKER | CUSIP | ASSET NAME | SHARES/UNITS | COST BASIS | PRICE | MARKET VALUE (MV) | MV AS % OF ASSET TYPE | MV AS % OF TOTAL |
|-------------------------------------|-----------|---|--------------|---------------------|-----------------------|---------------------|-----------------------|------------------|
| Small Cap Value Funds | | | | | | | | |
| UBVFX | 904504479 | Undiscovered Managers Behavioral Val R6 | 2,374.68 | 150,846.22 | 62.81 | 149,153.65 | 4.20% | 2.08% |
| Small Cap Blend Funds | | | | | | | | |
| DCZR | 24610B826 | Delaware Small Cap Core R6 | 5,025.10 | 118,758.46 | 23.69 | 119,044.67 | 3.35% | 1.66% |
| VB | 922908751 | Vanguard Small-Cap ETF | 612.00 | 91,863.49 | 165.64 | 101,371.68 | 2.85% | 1.41% |
| | | | | <u>\$210,621.95</u> | | <u>\$220,416.35</u> | | <u>3.07%</u> |
| Small Cap Growth Funds | | | | | | | | |
| RSEJX | 92647Q363 | Victory RS Small Cap Growth R6 | 950.69 | 76,691.45 | 81.24 | 77,234.30 | 2.17% | 1.08% |
| VBK | 922908595 | Vanguard Small-Cap Growth ETF | 365.00 | 69,887.98 | 198.7 | 72,525.50 | 2.04% | 1.01% |
| | | | | <u>\$146,579.43</u> | | <u>\$149,759.80</u> | | <u>2.09%</u> |
| Foreign Large Value Funds | | | | | | | | |
| DODFX | 256206103 | Dodge & Cox International Stock | 1,809.07 | 74,305.28 | 43.6 | 78,875.54 | 2.22% | 1.10% |
| Foreign Large Blend Funds | | | | | | | | |
| DFALX | 233203868 | DFA Large Cap International I | 15,758.42 | 333,224.09 | 23.67 | 373,001.73 | 10.50% | 5.20% |
| HEFA | 46434V803 | iShares Currency Hedged MSCI EAFE ETF | 3,658.00 | 93,758.47 | 30.515 | 111,623.87 | 3.14% | 1.56% |
| | | | | <u>\$426,982.56</u> | | <u>\$484,625.60</u> | | <u>6.76%</u> |
| Foreign Large Growth Funds | | | | | | | | |
| MGRDX | 552746356 | MFS International Growth R6 | 2,149.80 | 59,204.03 | 37.1 | 79,757.43 | 2.24% | 1.11% |
| Diversified Emerging Markets | | | | | | | | |
| HHHFX | 41665X859 | Hartford Schrodgers Emerging Mkts Eq F | 11,190.50 | 150,478.17 | 16.58 | 185,538.51 | 5.22% | 2.59% |
| | | | | <u>\$150,478.17</u> | | <u>\$185,538.51</u> | | <u>2.59%</u> |
| TOTAL EQUITY | | | | | \$3,121,085.70 | | \$3,552,732.66 | 49.56% |
| ALTERNATIVES | | | | | | | | |
| Market Neutral | | | | | | | | |
| QMNIX | 00191K799 | AQR Equity Market Neutral I | 3,789.95 | 42,643.65 | 9.2 | 34,867.49 | 0.98% | 0.49% |
| BILPX | 09250J734 | BlackRock Event Driven Equity Instl | 11,003.80 | 109,532.91 | 9.69 | 106,626.83 | 3.00% | 1.49% |
| BSIKX | 09260B374 | BlackRock Strategic Income Opps K | 4,855.09 | 47,917.82 | 9.98 | 48,453.77 | 1.36% | 0.68% |
| | | | | <u>\$200,094.38</u> | | <u>\$189,948.09</u> | | <u>2.65%</u> |

HOLDINGS REPORT

El Toro Water District 401(k) - Income & Growth

As of Fourth Quarter 2019

| TICKER | CUSIP | ASSET NAME | SHARES/UNITS | COST BASIS | PRICE | MARKET VALUE (MV) | MV AS % OF ASSET TYPE | MV AS % OF TOTAL |
|----------------------------|-----------|---|--------------|--------------|-----------------------|-------------------|-----------------------|------------------|
| Managed Futures | | | | | | | | |
| AQMIX | 00203H859 | AQR Managed Futures Strategy I | 9,538.14 | 93,117.74 | 8.31 | 79,261.96 | 2.23% | 1.11% |
| AMFNX | 63873P825 | Natixis ASG Managed Futures Strategy N | 8,629.39 | 91,577.31 | 9.37 | 80,857.36 | 2.28% | 1.13% |
| | | | | \$184,695.05 | | \$160,119.32 | | 2.23% |
| Merger Arbitrage | | | | | | | | |
| ARBNX | 03875R205 | Arbitrage I | 138.17 | 1,806.23 | 13.35 | 1,844.53 | 0.05% | 0.03% |
| Global Macro | | | | | | | | |
| EGRSX | 27830W108 | Eaton Vance Gbl Macro Abs Ret Advtg R6 | 10,411.38 | 105,508.41 | 10.47 | 109,007.14 | 3.07% | 1.52% |
| LAOSX | 95768D509 | Western Asset Macro Opportunities IS | 9,970.83 | 105,719.02 | 11.12 | 110,875.64 | 3.12% | 1.55% |
| | | | | \$211,227.43 | | \$219,882.78 | | 3.07% |
| Fund of Hedge Funds | | | | | | | | |
| BXMIX | 09257V201 | Blackstone Alternative Multi-Strategy I | 9,572.36 | 100,707.77 | 10.68 | 102,232.76 | 2.88% | 1.43% |
| QSPIX | 00203H420 | AQR Style Premia Alternative I | 9,986.36 | 99,840.71 | 8.15 | 81,388.83 | 2.29% | 1.14% |
| | | | | \$200,548.48 | | \$183,621.59 | | 2.56% |
| REITs | | | | | | | | |
| ICF | 464287564 | iShares Cohen & Steers REIT ETF | 1,490.00 | 166,635.41 | 116.99 | 174,315.10 | 4.91% | 2.43% |
| TOTAL ALTERNATIVES | | | | | \$965,006.98 | | \$929,731.41 | 12.97% |
| TOTAL - ALL ASSETS | | | | | \$6,773,690.96 | | \$7,168,647.64 | 100.00% |

INVESTMENT PORTFOLIO SUMMARY -BALANCED INCOME

El Toro Water District - 401(k) Plan

Data as of: 12/31/2019

Portfolio Manager:
Keith Stribling, CFA

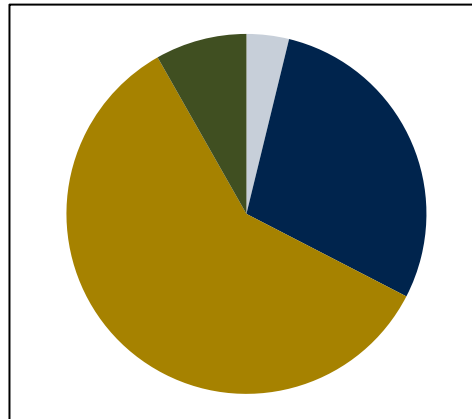
Account Snapshot

| Asset Class | Market Value | Tax Cost | Est. Annual Income | Current Yield (%) |
|--------------------|-----------------------|-----------------------|---------------------|-------------------|
| Cash & Equivalents | \$193,594.61 | \$193,594.61 | \$2,901.98 | 1.50% |
| Fixed Income | \$1,462,236.89 | \$1,421,893.39 | \$46,981.67 | 3.21% |
| Equities | \$3,008,840.58 | \$2,925,050.38 | \$51,631.70 | 1.72% |
| Alternatives | \$417,523.08 | \$430,476.44 | \$13,010.02 | 3.12% |
| Other | \$0.00 | \$0.00 | \$0.00 | 0.00% |
| Total | \$5,082,195.16 | \$4,971,014.82 | \$114,525.38 | 2.25% |

Yields are gross of any fees and reflect the reinvestment of dividends and other income

Asset Allocation

| | |
|-------|--------------------|
| 3.8% | Cash & Equivalents |
| 28.8% | Fixed Income |
| 59.2% | Equities |
| 8.2% | Alternatives |
| 0.0% | Other |



Income Summary (1, 2)

| | |
|---|------------------|
| Cash & Equivalents Income Earned YTD | \$529 |
| Taxable Fixed Income Income Earned YTD | \$23,422 |
| Tax-Exempt Fixed Income Income Earned YTD | \$0 |
| Equity Income Earned YTD | \$131,469 |
| Alternative Income Earned YTD | \$10,734 |
| Other Income Earned YTD | \$0 |
| Total | \$166,153 |

Net Gain/Loss Summary (3)

| | Realized | Unrealized |
|--------------------------|------------------|------------------|
| Net Short Term Gain/Loss | \$19,051 | |
| Net Long Term Gain/Loss | \$95,145 | |
| Total | \$114,196 | \$111,180 |

(1) As of 12/31/2019

(2) Information is calculated on a calendar year basis and includes income, dividends, and capital gain distributions

(3) Gain/Loss information is for informational purposes only.

HOLDINGS REPORT

El Toro Water District 401(k) - Balanced Income

As of Fourth Quarter 2019

| TICKER | CUSIP | ASSET NAME | SHARES/UNITS | COST BASIS | PRICE | MARKET VALUE (MV) | MV AS % OF ASSET TYPE | MV AS % OF TOTAL |
|-------------------------------------|-----------|--|--------------|-----------------------|--------|-----------------------|-----------------------|------------------|
| CASH EQUIVALENTS | | | | | | | | |
| MONEY MARKET FUNDS/CASH | | | | | | | | |
| n.a. | n.a. | CASH | (2,909.1800) | (\$2,909.18) | 1.00 | (\$2,909.18) | -1.50% | -0.06% |
| FPZXX | n.a. | CASH FUND | 196,503.79 | \$196,503.79 | 1.00 | \$196,503.79 | 101.50% | 3.87% |
| TOTAL CASH | | | | \$193,594.61 | | \$193,594.61 | | 3.81% |
| FIXED INCOME | | | | | | | | |
| Short-Term Bond Funds | | | | | | | | |
| VFSUX | 922031836 | Vanguard Short-Term Investment-Grade Adm | 15,414.98 | 162,930.65 | 10.73 | 165,402.76 | 12.76% | 3.25% |
| | | | | <u>\$162,930.65</u> | | <u>\$165,402.76</u> | | <u>3.25%</u> |
| Intermediate-Term Bond Funds | | | | | | | | |
| DBLFX | 258620301 | DoubleLine Core Fixed Income I | 25,170.48 | 270,097.57 | 11.07 | 278,637.22 | 21.50% | 5.48% |
| DODIX | 256210105 | Dodge & Cox Income | 20,114.10 | 271,521.53 | 14.03 | 282,200.81 | 21.77% | 5.55% |
| PTRQX | 74440B884 | PGIM Total Return Bond R6 | 20,036.32 | 283,465.30 | 14.42 | 288,923.66 | 22.29% | 5.69% |
| PTTRX | 693390700 | PIMCO Total Return Instl | 27,187.31 | 272,336.03 | 10.34 | 281,116.80 | 21.69% | 5.53% |
| | | | | <u>\$1,097,420.43</u> | | <u>\$1,130,878.49</u> | | <u>22.25%</u> |
| TOTAL FIXED INCOME | | | | \$1,260,351.08 | | \$1,296,281.25 | | 25.51% |
| EQUITY | | | | | | | | |
| Large Cap Blend Funds | | | | | | | | |
| COFYX | 19766M709 | Columbia Contrarian Core Inst3 | 17,433.52 | 468,652.92 | 27.43 | 478,201.54 | 15.89% | 9.41% |
| VGIAX | 921913208 | Vanguard Growth & Income Adm | 5,542.84 | 451,640.37 | 84.83 | 470,199.29 | 15.63% | 9.25% |
| | | | | <u>\$920,293.29</u> | | <u>\$948,400.83</u> | | <u>18.66%</u> |
| Large Cap Value Funds | | | | | | | | |
| DODGX | 256219106 | Dodge & Cox Stock | 1,058.42 | 216,667.99 | 193.76 | 205,078.88 | 6.82% | 4.04% |
| PKAIX | 72202L462 | PIMCO RAE US Instl | 17,789.94 | 206,477.43 | 11.59 | 206,185.36 | 6.85% | 4.06% |
| IVE | 464287408 | iShares S&P 500 Value ETF | 200.00 | 25,863.56 | 130.09 | 26,018.00 | 0.86% | 0.51% |
| | | | | <u>\$449,008.98</u> | | <u>\$437,282.24</u> | | <u>8.60%</u> |
| Large Cap Growth Funds | | | | | | | | |
| HNACX | 411512528 | Harbor Capital Appreciation Retirement | 2,864.25 | 213,248.05 | 75.7 | 216,823.88 | 7.21% | 4.27% |
| LSITX | 52469H255 | ClearBridge Large Cap Growth IS | 3,557.87 | 180,409.68 | 54.66 | 194,473.39 | 6.46% | 3.83% |
| | | | | <u>\$393,657.73</u> | | <u>\$411,297.27</u> | | <u>8.09%</u> |
| Mid Cap Blend Funds | | | | | | | | |
| VO | 922908629 | Vanguard Mid-Cap ETF | 341.00 | 54,828.61 | 178.18 | 60,759.38 | 2.02% | 1.20% |

HOLDINGS REPORT

El Toro Water District 401(k) - Balanced Income

As of Fourth Quarter 2019

| TICKER | CUSIP | ASSET NAME | SHARES/UNITS | COST BASIS | PRICE | MARKET VALUE (MV) | MV AS % OF ASSET TYPE | MV AS % OF TOTAL |
|-------------------------------------|-----------|---|--------------|-----------------------|--------|-----------------------|-----------------------|------------------|
| Small Cap Value Funds | | | | | | | | |
| UBVFX | 904504479 | Undiscovered Managers Behavioral Val R6 | 2,415.69 | 165,518.31 | 62.81 | 151,729.30 | 5.04% | 2.99% |
| Small Cap Blend Funds | | | | | | | | |
| DCZRX | 24610B826 | Delaware Small Cap Core R6 | 2,893.11 | 72,104.43 | 23.69 | 68,537.80 | 2.28% | 1.35% |
| VB | 922908751 | Vanguard Small-Cap ETF | 437.00 | 63,369.94 | 165.64 | 72,384.68 | 2.41% | 1.42% |
| | | | | <u>\$135,474.37</u> | | <u>\$140,922.48</u> | | <u>2.77%</u> |
| Small Cap Growth Funds | | | | | | | | |
| RSEJX | 92647Q363 | Victory RS Small Cap Growth R6 | 968.29 | 77,915.09 | 81.24 | 78,663.88 | 2.61% | 1.55% |
| VBK | 922908595 | Vanguard Small-Cap Growth ETF | 365.00 | 69,887.98 | 198.7 | 72,525.50 | 2.41% | 1.43% |
| | | | | <u>\$147,803.07</u> | | <u>\$151,189.38</u> | | <u>2.97%</u> |
| Foreign Large Value Funds | | | | | | | | |
| DODFX | 256206103 | Dodge & Cox International Stock | 1,631.99 | 72,462.26 | 43.6 | 71,154.68 | 2.36% | 1.40% |
| Foreign Large Blend Funds | | | | | | | | |
| DFALX | 233203868 | DFA Large Cap International I | 13,156.61 | 278,379.10 | 23.67 | 311,416.91 | 10.35% | 6.13% |
| HEFA | 46434V803 | iShares Currency Hedged MSCI EAFE ETF | 3,094.00 | 92,364.36 | 30.515 | 94,413.41 | 3.14% | 1.86% |
| | | | | <u>\$370,743.46</u> | | <u>\$405,830.32</u> | | <u>7.99%</u> |
| Foreign Large Growth Funds | | | | | | | | |
| MGRDX | 552746356 | MFS International Growth R6 | 2,015.29 | 70,074.26 | 37.1 | 74,767.30 | 2.48% | 1.47% |
| Diversified Emerging Markets | | | | | | | | |
| HHHFX | 41665X859 | Hartford Schrodgers Emerging Mkts Eq F | 9,379.22 | 145,186.04 | 16.58 | 155,507.40 | 5.17% | 3.06% |
| | | | | <u>\$145,186.04</u> | | <u>\$155,507.40</u> | | <u>3.06%</u> |
| TOTAL EQUITY | | | | \$2,925,050.38 | | \$3,008,840.58 | | 59.20% |
| ALTERNATIVES | | | | | | | | |
| Market Neutral | | | | | | | | |
| QMNIX | 00191K799 | AQR Equity Market Neutral I | 2,833.71 | 30,799.46 | 9.2 | 26,070.09 | 0.87% | 0.51% |
| BILPX | 09250J734 | BlackRock Event Driven Equity Instl | 5,197.37 | 51,676.83 | 9.69 | 50,362.49 | 1.67% | 0.99% |
| BSIKX | 09260B374 | BlackRock Strategic Income Opps K | 2,566.79 | 25,104.92 | 9.98 | 25,616.55 | 0.85% | 0.50% |
| | | | | <u>\$107,581.21</u> | | <u>\$102,049.13</u> | | <u>2.01%</u> |

HOLDINGS REPORT

El Toro Water District 401(k) - Balanced Income

As of Fourth Quarter 2019

| TICKER | CUSIP | ASSET NAME | SHARES/UNITS | COST BASIS | PRICE | MARKET VALUE (MV) | MV AS % OF ASSET TYPE | MV AS % OF TOTAL |
|----------------------------|-----------|---|--------------|---------------------|-----------------------|-----------------------|--------------------------|---------------------|
| Managed Futures | | | | | | | | |
| AQMIX | 00203H859 | AQR Managed Futures Strategy I | 7,386.64 | 64,480.18 | 8.31 | 61,382.96 | 2.04% | 1.21% |
| AMFNX | 63873P825 | Natixis ASG Managed Futures Strategy N | 6,682.49 | 65,010.13 | 9.37 | 62,614.95 | 2.08% | 1.23% |
| | | | | <u>\$129,490.31</u> | | <u>\$123,997.91</u> | | <u>2.44%</u> |
| Merger Arbitrage | | | | | | | | |
| ARBNX | 03875R205 | Arbitrage I | 95.58 | 1,249.80 | 13.35 | 1,276.01 | 0.04% | 0.03% |
| Global Macro | | | | | | | | |
| EGRSX | 27830W108 | Eaton Vance Gbl Macro Abs Ret Advtg R6 | 7,125.42 | 71,918.63 | 10.47 | 74,603.18 | 2.48% | 1.47% |
| LAOSX | 95768D509 | Western Asset Macro Opportunities IS | 5,911.50 | 64,518.76 | 11.12 | 65,735.91 | 2.18% | 1.29% |
| | | | | <u>\$136,437.39</u> | | <u>\$140,339.09</u> | | <u>2.76%</u> |
| Fund of Hedge Funds | | | | | | | | |
| BXMIX | 09257V201 | Blackstone Alternative Multi-Strategy I | 6,776.62 | 72,672.50 | 10.68 | 72,374.32 | 2.41% | 1.42% |
| QSPIX | 00203H420 | AQR Style Premia Alternative I | 5,212.26 | 49,216.93 | 8.15 | 42,479.89 | 1.41% | 0.84% |
| | | | | <u>\$121,889.43</u> | | <u>\$114,854.21</u> | | <u>2.26%</u> |
| REITs | | | | | | | | |
| ICF | 464287564 | iShares Cohen & Steers REIT ETF | 863.00 | 95,370.61 | 116.99 | 100,962.37 | 3.36% | 1.99% |
| TOTAL ALTERNATIVES | | | | | \$592,018.75 | \$583,478.72 | | 11.48% |
| TOTAL - ALL ASSETS | | | | | \$4,971,014.82 | \$5,082,195.16 | | 100.00% |

INVESTMENT PORTFOLIO SUMMARY - BALANCED

El Toro Water District - 401(k) Plan

Data as of: 12/31/2019

Portfolio Manager:
Keith Stribling, CFA

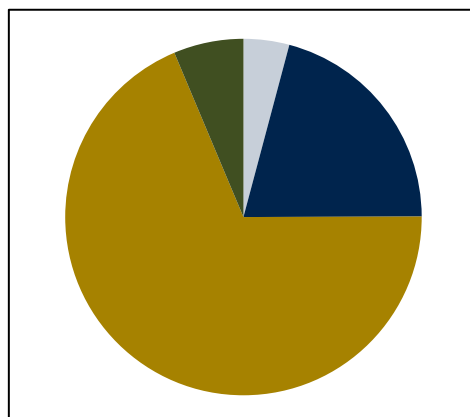
Account Snapshot

| Asset Class | Market Value | Tax Cost | Est. Annual Income | Current Yield (%) |
|--------------------|-----------------------|-----------------------|--------------------|-------------------|
| Cash & Equivalents | \$56,571.14 | \$56,571.14 | \$848.00 | 1.50% |
| Fixed Income | \$283,838.66 | \$281,400.32 | \$9,119.74 | 3.21% |
| Equities | \$937,231.14 | \$822,867.28 | \$16,082.89 | 1.72% |
| Alternatives | \$86,477.49 | \$92,158.87 | \$2,694.64 | 3.12% |
| Other | \$0.00 | \$0.00 | \$0.00 | 0.00% |
| Total | \$1,364,118.43 | \$1,252,997.61 | \$28,745.26 | 2.11% |

Yields are gross of any fees and reflect the reinvestment of dividends and other income

Asset Allocation

| | |
|-------|--------------------|
| 4.1% | Cash & Equivalents |
| 20.8% | Fixed Income |
| 68.7% | Equities |
| 6.3% | Alternatives |
| 0.0% | Other |



Income Summary (1, 2)

| | |
|---|-----------------|
| Cash & Equivalents Income Earned YTD | \$234 |
| Taxable Fixed Income Income Earned YTD | \$4,509 |
| Tax-Exempt Fixed Income Income Earned YTD | \$0 |
| Equity Income Earned YTD | \$38,700 |
| Alternative Income Earned YTD | \$1,929 |
| Other Income Earned YTD | \$0 |
| Total | \$45,372 |

Net Gain/Loss Summary (3)

| | Realized | Unrealized |
|--------------------------|-----------------|------------------|
| Net Short Term Gain/Loss | \$4,667 | |
| Net Long Term Gain/Loss | \$28,965 | |
| Total | \$33,633 | \$111,121 |

(1) As of 12/31/2019

(2) Information is calculated on a calendar year basis and includes income, dividends, and capital gain distributions

(3) Gain/Loss information is for informational purposes only.

HOLDINGS REPORT

El Toro Water District 401(k) - Balanced

As of Fourth Quarter 2019

| TICKER | CUSIP | ASSET NAME | SHARES/UNITS | COST BASIS | PRICE | MARKET VALUE (MV) | MV AS % OF ASSET TYPE | MV AS % OF TOTAL |
|-------------------------------------|-----------|--|--------------|---------------------|--------|---------------------|-----------------------|------------------|
| CASH EQUIVALENTS | | | | | | | | |
| MONEY MARKET FUNDS/CASH | | | | | | | | |
| n.a. | n.a. | CASH | (561.3800) | (\$561.38) | 1.00 | (\$561.38) | -0.99% | -0.04% |
| FPZXX | n.a. | CASH FUND | 57,132.52 | \$57,132.52 | 1.00 | \$57,132.52 | 100.99% | 4.19% |
| TOTAL CASH | | | | \$56,571.14 | | \$56,571.14 | | 4.15% |
| FIXED INCOME | | | | | | | | |
| Short-Term Bond Funds | | | | | | | | |
| VFSUX | 922031836 | Vanguard Short-Term Investment-Grade Adm | 2,910.71 | 30,778.62 | 10.73 | 31,231.96 | 12.47% | 2.29% |
| | | | | <u>\$30,778.62</u> | | <u>\$31,231.96</u> | | <u>2.29%</u> |
| Intermediate-Term Bond Funds | | | | | | | | |
| DBLFX | 258620301 | DoubleLine Core Fixed Income I | 4,912.83 | 53,487.02 | 11.07 | 54,384.97 | 21.72% | 3.99% |
| DODIX | 256210105 | Dodge & Cox Income | 3,917.36 | 53,915.47 | 14.03 | 54,960.56 | 21.95% | 4.03% |
| PTRQX | 74440B884 | PGIM Total Return Bond R6 | 3,833.64 | 55,925.25 | 14.42 | 55,281.15 | 22.08% | 4.05% |
| PTRTX | 693390700 | PIMCO Total Return Instl | 5,275.59 | 55,313.04 | 10.34 | 54,549.62 | 21.78% | 4.00% |
| | | | | <u>\$218,640.78</u> | | <u>\$219,176.30</u> | | <u>16.07%</u> |
| TOTAL FIXED INCOME | | | | \$249,419.40 | | \$250,408.26 | | 18.36% |
| EQUITY | | | | | | | | |
| Large Cap Blend Funds | | | | | | | | |
| COFYX | 19766M709 | Columbia Contrarian Core Inst3 | 5,426.93 | 119,431.33 | 27.43 | 148,860.64 | 15.88% | 10.91% |
| VGIAX | 921913208 | Vanguard Growth & Income Adm | 1,715.80 | 123,508.72 | 84.83 | 145,551.57 | 15.53% | 10.67% |
| | | | | <u>\$242,940.05</u> | | <u>\$294,412.21</u> | | <u>21.58%</u> |
| Large Cap Value Funds | | | | | | | | |
| DODGX | 256219106 | Dodge & Cox Stock | 321.90 | 59,645.53 | 193.76 | 62,371.93 | 6.65% | 4.57% |
| PKAIX | 72202L462 | PIMCO RAE US Instl | 5,388.13 | 57,786.78 | 11.59 | 62,448.45 | 6.66% | 4.58% |
| IVE | 464287408 | iShares S&P 500 Value ETF | 52.00 | 6,723.93 | 130.09 | 6,764.68 | 0.72% | 0.50% |
| | | | | <u>\$124,156.24</u> | | <u>\$131,585.06</u> | | <u>9.65%</u> |
| Large Cap Growth Funds | | | | | | | | |
| HNACX | 411512528 | Harbor Capital Appreciation Retirement | 837.77 | 55,071.43 | 75.7 | 63,419.11 | 6.77% | 4.65% |
| LSITX | 52469H255 | ClearBridge Large Cap Growth IS | 1,131.03 | 52,414.07 | 54.66 | 61,822.26 | 6.60% | 4.53% |
| | | | | <u>\$107,485.50</u> | | <u>\$125,241.37</u> | | <u>9.18%</u> |
| Mid Cap Blend Funds | | | | | | | | |
| VO | 922908629 | Vanguard Mid-Cap ETF | 153.00 | 24,549.93 | 178.18 | 27,261.54 | 2.91% | 2.00% |

HOLDINGS REPORT

El Toro Water District 401(k) - Balanced

As of Fourth Quarter 2019

| TICKER | CUSIP | ASSET NAME | SHARES/UNITS | COST BASIS | PRICE | MARKET VALUE (MV) | MV AS % OF ASSET TYPE | MV AS % OF TOTAL |
|-------------------------------------|-----------|---|--------------|---------------------|--------|---------------------|-----------------------|------------------|
| Small Cap Value Funds | | | | | | | | |
| UBVFX | 904504479 | Undiscovered Managers Behavioral Val R6 | 701.08 | 44,643.42 | 62.81 | 44,035.02 | 4.70% | 3.23% |
| Small Cap Blend Funds | | | | | | | | |
| DCZRX | 24610B826 | Delaware Small Cap Core R6 | 961.13 | 22,845.65 | 23.69 | 22,769.26 | 2.43% | 1.67% |
| VB | 922908751 | Vanguard Small-Cap ETF | 160.00 | 23,136.76 | 165.64 | 26,502.40 | 2.83% | 1.94% |
| | | | | \$45,982.41 | | \$49,271.66 | | 3.61% |
| Small Cap Growth Funds | | | | | | | | |
| RSEJX | 92647Q363 | Victory RS Small Cap Growth R6 | 272.97 | 21,982.58 | 81.24 | 22,176.33 | 2.37% | 1.63% |
| VBK | 922908595 | Vanguard Small-Cap Growth ETF | 104.00 | 19,913.29 | 198.7 | 20,664.80 | 2.20% | 1.51% |
| | | | | \$41,895.87 | | \$42,841.13 | | 3.14% |
| Foreign Large Value Funds | | | | | | | | |
| DODFX | 256206103 | Dodge & Cox International Stock | 522.59 | 21,341.12 | 43.6 | 22,784.75 | 2.43% | 1.67% |
| Foreign Large Blend Funds | | | | | | | | |
| DFALX | 233203868 | DFA Large Cap International I | 4,358.43 | 91,305.58 | 23.67 | 103,163.97 | 11.01% | 7.56% |
| HEFA | 46434V803 | iShares Currency Hedged MSCI EAFE ETF | 856.00 | 22,153.37 | 30.515 | 26,120.84 | 2.79% | 1.91% |
| | | | | \$113,458.95 | | \$129,284.81 | | 9.48% |
| Foreign Large Growth Funds | | | | | | | | |
| MGRDX | 552746356 | MFS International Growth R6 | 606.81 | 16,557.70 | 37.1 | 22,512.50 | 2.40% | 1.65% |
| Diversified Emerging Markets | | | | | | | | |
| HHHFX | 41665X859 | Hartford Schrodgers Emerging Mkts Eq F | 2,895.12 | 39,856.09 | 16.58 | 48,001.09 | 5.12% | 3.52% |
| | | | | \$39,856.09 | | \$48,001.09 | | 3.52% |
| TOTAL EQUITY | | | | \$822,867.28 | | \$937,231.14 | | 68.71% |

ALTERNATIVES

Market Neutral

| | | | | | | | | |
|-------|-----------|-------------------------------------|----------|-------------|------|-------------|-------|-------|
| QMNIX | 00191K799 | AQR Equity Market Neutral I | 479.25 | 5,377.88 | 9.2 | 4,409.10 | 0.47% | 0.32% |
| BILPX | 09250J734 | BlackRock Event Driven Equity Instl | 1,296.40 | 12,916.95 | 9.69 | 12,562.07 | 1.34% | 0.92% |
| BSIKX | 09260B374 | BlackRock Strategic Income Opps K | 638.13 | 6,302.42 | 9.98 | 6,368.56 | 0.68% | 0.47% |
| | | | | \$24,597.25 | | \$23,339.73 | | 1.71% |

HOLDINGS REPORT

El Toro Water District 401(k) - Balanced

As of Fourth Quarter 2019

| TICKER | CUSIP | ASSET NAME | SHARES/UNITS | COST BASIS | PRICE | MARKET VALUE (MV) | MV AS % OF ASSET TYPE | MV AS % OF TOTAL |
|---------------------------|-----------|---|--------------|-------------|-----------------------|----------------------|--------------------------|---------------------|
| Managed Futures | | | | | | | | |
| AQMIX | 00203H859 | AQR Managed Futures Strategy I | 1,398.92 | 13,500.33 | 8.31 | 11,625.03 | 1.24% | 0.85% |
| AMFNX | 63873P825 | Natixis ASG Managed Futures Strategy N | 1,266.10 | 13,375.01 | 9.37 | 11,863.36 | 1.27% | 0.87% |
| | | | | \$26,875.34 | | \$23,488.39 | | 1.72% |
| Merger Arbitrage | | | | | | | | |
| ARBNX | 03875R205 | Arbitrage I | 16.57 | 216.00 | 13.35 | 221.17 | 0.02% | 0.02% |
| Global Macro | | | | | | | | |
| EGRSX | 27830W108 | Eaton Vance Gbl Macro Abs Ret Advtg R6 | 1,285.61 | 12,825.57 | 10.47 | 13,460.36 | 1.44% | 0.99% |
| LAOSX | 95768D509 | Western Asset Macro Opportunities IS | 1,223.16 | 12,852.93 | 11.12 | 13,601.48 | 1.45% | 1.00% |
| | | | | \$25,678.50 | | \$27,061.84 | | 1.98% |
| BXMIX | 09257V201 | Blackstone Alternative Multi-Strategy I | 1,181.67 | 12,388.21 | 10.68 | 12,620.28 | 1.35% | 0.93% |
| QSPIX | 00203H420 | AQR Style Premia Alternative I | 1,372.07 | 13,432.93 | 8.15 | 11,182.36 | 1.19% | 0.82% |
| | | | | \$25,821.14 | | \$23,802.64 | | 1.74% |
| REITs | | | | | | | | |
| ICF | 464287564 | iShares Cohen & Steers REIT ETF | 188.00 | 20,951.56 | 116.99 | 21,994.12 | 2.35% | 1.61% |
| TOTAL ALTERNATIVES | | | | | \$124,139.79 | | \$119,907.89 | 8.79% |
| TOTAL - ALL ASSETS | | | | | \$1,252,997.61 | | \$1,364,118.43 | 100.00% |

INVESTMENT PORTFOLIO SUMMARY - CAPITAL APPRECIATION

El Toro Water District - 401(k) Plan

Date as of: 12/31/2019

Portfolio Manager:
Keith Stribling, CFA

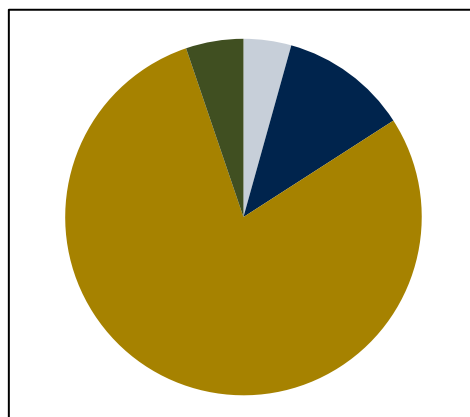
Account Snapshot

| Asset Class | Market Value | Tax Cost | Est. Annual Income | Current Yield (%) |
|--------------------|---------------------|---------------------|--------------------|-------------------|
| Cash & Equivalents | \$22,273.98 | \$22,273.98 | \$333.89 | 1.50% |
| Fixed Income | \$59,582.69 | \$57,713.62 | \$1,914.39 | 3.21% |
| Equities | \$406,036.73 | \$393,085.86 | \$6,967.59 | 1.72% |
| Alternatives | \$26,859.39 | \$27,657.86 | \$836.94 | 3.12% |
| Other | \$0.00 | \$0.00 | \$0.00 | 0.00% |
| Total | \$514,752.79 | \$500,731.32 | \$10,052.81 | 1.95% |

Yields are gross of any fees and reflect the reinvestment of dividends and other income

Asset Allocation

| | |
|-------|--------------------|
| 4.3% | Cash & Equivalents |
| 11.6% | Fixed Income |
| 78.9% | Equities |
| 5.2% | Alternatives |
| 0.0% | Other |



Income Summary (1, 2)

| | |
|---|-----------------|
| Cash & Equivalents Income Earned YTD | \$87 |
| Taxable Fixed Income Income Earned YTD | \$910 |
| Tax-Exempt Fixed Income Income Earned YTD | \$0 |
| Equity Income Earned YTD | \$16,429 |
| Alternative Income Earned YTD | \$566 |
| Other Income Earned YTD | \$0 |
| Total | \$17,992 |

Net Gain/Loss Summary (3)

| | Realized | Unrealized |
|--------------------------|-----------------|-----------------|
| Net Short Term Gain/Loss | \$1,065 | |
| Net Long Term Gain/Loss | \$12,006 | |
| Total | \$13,071 | \$14,021 |

(1) As of 12/31/2019

(2) Information is calculated on a calendar year basis and includes income, dividends, and capital gain distributions

(3) Gain/Loss information is for informational purposes only.

HOLDINGS REPORT

El Toro Water District 401(k) - Capital Appreciation

As of Fourth Quarter 2019

| TICKER | CUSIP | ASSET NAME | SHARES/UNITS | COST BASIS | PRICE | MARKET VALUE (MV) | MV AS % OF ASSET TYPE | MV AS % OF TOTAL |
|-------------------------------------|-----------|--|--------------|--------------------|--------|--------------------|-----------------------|------------------|
| CASH EQUIVALENTS | | | | | | | | |
| MONEY MARKET FUNDS/CASH | | | | | | | | |
| n.a. | n.a. | CASH | (112.9900) | (\$112.99) | 1.00 | (\$112.99) | -0.51% | -0.02% |
| FPZXX | n.a. | CASH FUND | 22,386.97 | \$22,386.97 | 1.00 | \$22,386.97 | 100.51% | 4.35% |
| TOTAL CASH | | | | \$22,273.98 | | \$22,273.98 | | 4.33% |
| FIXED INCOME | | | | | | | | |
| Short-Term Bond Funds | | | | | | | | |
| VFSUX | 922031836 | Vanguard Short-Term Investment-Grade Adm | 490.04 | 5,157.20 | 10.73 | 5,258.12 | 10.58% | 1.02% |
| | | | | \$5,157.20 | | \$5,258.12 | | 1.02% |
| Intermediate-Term Bond Funds | | | | | | | | |
| DBLFX | 258620301 | DoubleLine Core Fixed Income I | 990.61 | 10,587.38 | 11.07 | 10,966.00 | 22.07% | 2.13% |
| DODIX | 256210105 | Dodge & Cox Income | 793.66 | 10,664.95 | 14.03 | 11,134.99 | 22.41% | 2.16% |
| PTRQX | 74440B884 | PGIM Total Return Bond R6 | 784.32 | 11,035.15 | 14.42 | 11,309.84 | 22.76% | 2.20% |
| PTRTX | 693390700 | PIMCO Total Return Instl | 1,065.03 | 10,622.70 | 10.34 | 11,012.39 | 22.17% | 2.14% |
| | | | | \$42,910.18 | | \$44,423.22 | | 8.63% |
| TOTAL FIXED INCOME | | | | \$48,067.38 | | \$49,681.34 | | 9.65% |
| EQUITY | | | | | | | | |
| Large Cap Blend Funds | | | | | | | | |
| COFYX | 19766M709 | Columbia Contrarian Core Inst3 | 2,310.27 | 61,526.32 | 27.43 | 63,370.60 | 15.61% | 12.31% |
| VGIAX | 921913208 | Vanguard Growth & Income Adm | 730.46 | 59,065.60 | 84.83 | 61,964.84 | 15.26% | 12.04% |
| | | | | \$120,591.92 | | \$125,335.44 | | 24.35% |
| Large Cap Value Funds | | | | | | | | |
| DODGX | 256219106 | Dodge & Cox Stock | 141.33 | 28,631.22 | 193.76 | 27,383.71 | 6.74% | 5.32% |
| PKAIX | 72202L462 | PIMCO RAE US Instl | 2,406.52 | 27,579.48 | 11.59 | 27,891.58 | 6.87% | 5.42% |
| IVE | 464287408 | iShares S&P 500 Value ETF | 39.00 | 5,042.95 | 130.09 | 5,073.51 | 1.25% | 0.99% |
| | | | | \$61,253.65 | | \$60,348.80 | | 11.72% |
| Large Cap Growth Funds | | | | | | | | |
| HNACX | 411512528 | Harbor Capital Appreciation Retirement | 379.48 | 28,173.73 | 75.7 | 28,726.56 | 7.07% | 5.58% |
| LSITX | 52469H255 | ClearBridge Large Cap Growth IS | 470.24 | 23,728.29 | 54.66 | 25,703.21 | 6.33% | 4.99% |
| | | | | \$51,902.02 | | \$54,429.77 | | 10.57% |
| Mid Cap Blend Funds | | | | | | | | |
| VO | 922908629 | Vanguard Mid-Cap ETF | 99.00 | 16,813.07 | 178.18 | 17,639.82 | 4.34% | 3.43% |

HOLDINGS REPORT

El Toro Water District 401(k) - Capital Appreciation

As of Fourth Quarter 2019

| TICKER | CUSIP | ASSET NAME | SHARES/UNITS | COST BASIS | PRICE | MARKET VALUE (MV) | MV AS % OF ASSET TYPE | MV AS % OF TOTAL |
|-------------------------------------|-----------|---|--------------|---------------------|--------|---------------------|-----------------------|------------------|
| Small Cap Value Funds | | | | | | | | |
| UBVFX | 904504479 | Undiscovered Managers Behavioral Val R6 | 284.01 | 19,633.64 | 62.81 | 17,838.54 | 4.39% | 3.47% |
| Small Cap Blend Funds | | | | | | | | |
| DCZR | 246108826 | Delaware Small Cap Core R6 | 435.95 | 10,751.75 | 23.69 | 10,327.56 | 2.54% | 2.01% |
| VB | 922908751 | Vanguard Small-Cap ETF | 61.00 | 9,012.13 | 165.64 | 10,104.04 | 2.49% | 1.96% |
| | | | | <u>\$19,763.88</u> | | <u>\$20,431.60</u> | | <u>3.97%</u> |
| Small Cap Growth Funds | | | | | | | | |
| RSEJX | 92647Q363 | Victory RS Small Cap Growth R6 | 116.56 | 9,402.43 | 81.24 | 9,469.01 | 2.33% | 1.84% |
| VBK | 922908595 | Vanguard Small-Cap Growth ETF | 41.00 | 7,850.42 | 198.7 | 8,146.70 | 2.01% | 1.58% |
| | | | | <u>\$17,252.85</u> | | <u>\$17,615.71</u> | | <u>3.42%</u> |
| Foreign Large Value Funds | | | | | | | | |
| DODFX | 256206103 | Dodge & Cox International Stock | 222.69 | 9,744.06 | 43.6 | 9,709.24 | 2.39% | 1.89% |
| Foreign Large Blend Funds | | | | | | | | |
| DFALX | 233203868 | DFA Large Cap International I | 1,730.76 | 36,671.14 | 23.67 | 40,967.07 | 10.09% | 7.96% |
| HEFA | 46434V803 | iShares Currency Hedged MSCI EAFE ETF | 399.00 | 11,811.63 | 30.515 | 12,175.49 | 3.00% | 2.37% |
| | | | | <u>\$48,482.77</u> | | <u>\$53,142.56</u> | | <u>10.32%</u> |
| Foreign Large Growth Funds | | | | | | | | |
| MGRDX | 552746356 | MFS International Growth R6 | 261.67 | 9,077.43 | 37.1 | 9,708.11 | 2.39% | 1.89% |
| Diversified Emerging Markets | | | | | | | | |
| HHHFX | 41665X859 | Hartford Schrodgers Emerging Mkts Eq F | 1,196.45 | 18,570.57 | 16.58 | 19,837.14 | 4.89% | 3.85% |
| | | | | <u>\$18,570.57</u> | | <u>\$19,837.14</u> | | <u>3.85%</u> |
| TOTAL EQUITY | | | | \$393,085.86 | | \$406,036.73 | | 78.88% |
| ALTERNATIVES | | | | | | | | |
| Market Neutral | | | | | | | | |
| QMNIX | 00191K799 | AQR Equity Market Neutral I | 177.66 | 1,884.29 | 9.2 | 1,634.50 | 0.40% | 0.32% |
| BILPX | 09250J734 | BlackRock Event Driven Equity Instl | 440.56 | 4,376.65 | 9.69 | 4,268.99 | 1.05% | 0.83% |
| BSIKX | 09260B374 | BlackRock Strategic Income Opps K | 193.47 | 1,891.78 | 9.98 | 1,930.86 | 0.48% | 0.38% |
| | | | | <u>\$8,152.72</u> | | <u>\$7,834.35</u> | | <u>1.52%</u> |

HOLDINGS REPORT

El Toro Water District 401(k) - Capital Appreciation

As of Fourth Quarter 2019

| TICKER | CUSIP | ASSET NAME | SHARES/UNITS | COST BASIS | PRICE | MARKET VALUE (MV) | MV AS % OF ASSET TYPE | MV AS % OF TOTAL |
|----------------------------|-----------|---|--------------|-------------------|---------------------|----------------------|--------------------------|---------------------|
| Managed Futures | | | | | | | | |
| AQMIX | 00203H859 | AQR Managed Futures Strategy I | 420.46 | 3,660.53 | 8.31 | 3,494.00 | 0.86% | 0.68% |
| AMFNX | 63873P825 | Natixis ASG Managed Futures Strategy N | 380.52 | 3,702.22 | 9.37 | 3,565.43 | 0.88% | 0.69% |
| | | | | <u>\$7,362.75</u> | | <u>\$7,059.43</u> | | <u>1.37%</u> |
| Merger Arbitrage | | | | | | | | |
| ARBNX | 03875R205 | Arbitrage I | 4.78 | 62.49 | 13.35 | 63.80 | 0.02% | 0.01% |
| Global Macro | | | | | | | | |
| EGRSX | 27830W108 | Eaton Vance Gbl Macro Abs Ret Advtg R6 | 383.63 | 3,872.70 | 10.47 | 4,016.60 | 0.99% | 0.78% |
| LAOSX | 95768D509 | Western Asset Macro Opportunities IS | 355.57 | 3,881.76 | 11.12 | 3,953.89 | 0.97% | 0.77% |
| | | | | <u>\$7,754.46</u> | | <u>\$7,970.49</u> | | <u>1.55%</u> |
| Fund of Hedge Funds | | | | | | | | |
| BXMIX | 09257V201 | Blackstone Alternative Multi-Strategy I | 330.69 | 3,545.83 | 10.68 | 3,531.76 | 0.87% | 0.69% |
| QSPIX | 00203H420 | AQR Style Premia Alternative I | 359.58 | 3,358.65 | 8.15 | 2,930.54 | 0.72% | 0.57% |
| | | | | <u>\$6,904.48</u> | | <u>\$6,462.30</u> | | <u>1.26%</u> |
| REITs | | | | | | | | |
| ICF | 464287564 | iShares Cohen & Steers REIT ETF | 63.00 | 7,067.20 | 116.99 | 7,370.37 | 1.82% | 1.43% |
| TOTAL ALTERNATIVES | | | | | \$37,304.10 | \$36,760.74 | | 7.14% |
| TOTAL - ALL ASSETS | | | | | \$500,731.32 | \$514,752.79 | | 100.00% |

INVESTMENT PORTFOLIO SUMMARY - GROWTH

El Toro Water District - 401(k) Plan

Data as of: 12/31/2019

Portfolio Manager:
Keith Stribling, CFA

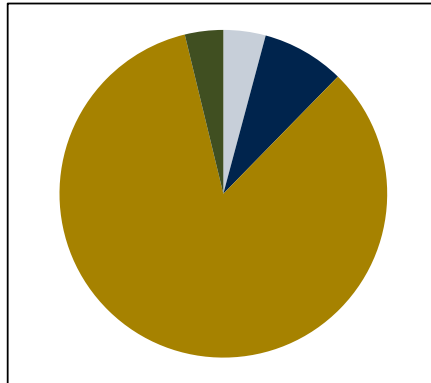
Account Snapshot

| Asset Class | Market Value | Tax Cost | Est. Annual Income | Current Yield (%) |
|--------------------|---------------------|---------------------|--------------------|-------------------|
| Cash & Equivalents | \$73,135.05 | \$73,135.05 | \$1,096.29 | 1.50% |
| Fixed Income | \$143,183.86 | \$141,715.86 | \$4,600.50 | 3.21% |
| Equities | \$1,473,146.86 | \$1,330,602.37 | \$25,279.20 | 1.72% |
| Alternatives | \$66,451.94 | \$70,392.06 | \$2,070.64 | 3.12% |
| Other | \$0.00 | \$0.00 | \$0.00 | 0.00% |
| Total | \$ 1,755,918 | \$ 1,615,845 | \$ 33,047 | 1.88% |

Yields are gross of any fees and reflect the reinvestment of dividends and other income

Asset Allocation

| | |
|-------|--------------------|
| 4.2% | Cash & Equivalents |
| 8.2% | Fixed Income |
| 83.9% | Equities |
| 3.8% | Alternatives |
| 0.0% | Other |



Income Summary (1, 2)

| | |
|---|-----------------|
| Cash & Equivalents Income Earned YTD | \$349 |
| Taxable Fixed Income Income Earned YTD | \$2,313 |
| Tax-Exempt Fixed Income Income Earned YTD | \$0 |
| Equity Income Earned YTD | \$58,623 |
| Alternative Income Earned YTD | \$1,268 |
| Other Income Earned YTD | \$0 |
| Total | \$62,553 |

Net Gain/Loss Summary (3)

| | Realized | Unrealized |
|--------------------------|------------------|------------------|
| Net Short Term Gain/Loss | \$21,515 | |
| Net Long Term Gain/Loss | \$124,926 | |
| Total | \$146,441 | \$140,072 |

(1) As of 12/31/2019

(2) Information is calculated on a calendar year basis and includes income, dividends, and capital gain distributions

(3) Gain/Loss information is for informational purposes only.

HOLDINGS REPORT

El Toro Water District 401(k) - Growth

As of Fourth Quarter 2019

| TICKER | CUSIP | ASSET NAME | SHARES/UNITS | COST BASIS | PRICE | MARKET VALUE (MV) | MV AS % OF ASSET TYPE | MV AS % OF TOTAL |
|-------------------------------------|-----------|--|--------------|---------------------|--------|---------------------|-----------------------|------------------|
| CASH EQUIVALENTS | | | | | | | | |
| MONEY MARKET FUNDS/CASH | | | | | | | | |
| n.a. | n.a. | CASH | (271.8900) | (\$271.89) | 1.00 | (\$271.89) | -0.37% | -0.02% |
| FPZXX | n.a. | CASH FUND | 73,406.94 | \$73,406.94 | 1.00 | \$73,406.94 | 100.37% | 4.18% |
| TOTAL CASH | | | | \$73,135.05 | | \$73,135.05 | | 4.17% |
| FIXED INCOME | | | | | | | | |
| Short-Term Bond Funds | | | | | | | | |
| VFSUX | 922031836 | Vanguard Short-Term Investment-Grade Adm | 414.23 | 4,395.99 | 10.73 | 4,444.69 | 3.69% | 0.25% |
| | | | | <u>\$4,395.99</u> | | <u>\$4,444.69</u> | | <u>0.25%</u> |
| Intermediate-Term Bond Funds | | | | | | | | |
| DBLFX | 258620301 | DoubleLine Core Fixed Income I | 2,589.68 | 28,139.04 | 11.07 | 28,667.78 | 23.78% | 1.63% |
| DODIX | 256210105 | Dodge & Cox Income | 2,072.41 | 28,511.49 | 14.03 | 29,075.88 | 24.12% | 1.66% |
| PTRQX | 74440B884 | PGIM Total Return Bond R6 | 2,050.59 | 29,870.23 | 14.42 | 29,569.57 | 24.53% | 1.68% |
| PTTRX | 693390700 | PIMCO Total Return Instl | 2,784.37 | 29,054.95 | 10.34 | 28,790.38 | 23.88% | 1.64% |
| | | | | <u>\$115,575.71</u> | | <u>\$116,103.61</u> | | <u>6.61%</u> |
| TOTAL FIXED INCOME | | | | \$119,971.70 | | \$120,548.30 | | 6.87% |
| EQUITY | | | | | | | | |
| Large Cap Blend Funds | | | | | | | | |
| COFYX | 19766M709 | Columbia Contrarian Core Inst3 | 7,911.40 | 183,605.04 | 27.43 | 217,009.56 | 14.73% | 12.36% |
| VGIAX | 921913208 | Vanguard Growth & Income Adm | 2,555.15 | 187,732.77 | 84.83 | 216,753.20 | 14.71% | 12.34% |
| | | | | <u>\$371,337.81</u> | | <u>\$433,762.76</u> | | <u>24.70%</u> |
| Large Cap Value Funds | | | | | | | | |
| DODGX | 256219106 | Dodge & Cox Stock | 517.15 | 97,544.76 | 193.76 | 100,203.37 | 6.80% | 5.71% |
| PKAIX | 72202L462 | PIMCO RAE US Instl | 8,692.69 | 94,824.18 | 11.59 | 100,748.32 | 6.84% | 5.74% |
| IVE | 464287408 | iShares S&P 500 Value ETF | 133.00 | 17,197.74 | 130.09 | 17,301.97 | 1.17% | 0.99% |
| | | | | <u>\$209,566.68</u> | | <u>\$218,253.66</u> | | <u>12.43%</u> |
| Large Cap Growth Funds | | | | | | | | |
| HNACX | 411512528 | Harbor Capital Appreciation Retirement | 1,368.51 | 93,990.25 | 75.7 | 103,596.36 | 7.03% | 5.90% |
| LSITX | 52469H255 | ClearBridge Large Cap Growth IS | 1,826.62 | 87,180.22 | 54.66 | 99,843.10 | 6.78% | 5.69% |
| | | | | <u>\$181,170.47</u> | | <u>\$203,439.46</u> | | <u>11.59%</u> |
| Mid Cap Blend Funds | | | | | | | | |
| VO | 922908629 | Vanguard Mid-Cap ETF | 359.00 | 57,288.65 | 178.18 | 63,966.62 | 4.34% | 3.64% |

HOLDINGS REPORT

El Toro Water District 401(k) - Growth

As of Fourth Quarter 2019

| TICKER | CUSIP | ASSET NAME | SHARES/UNITS | COST BASIS | PRICE | MARKET VALUE (MV) | MV AS % OF ASSET TYPE | MV AS % OF TOTAL |
|-------------------------------------|-----------|---|--------------|-----------------------|--------|-----------------------|-----------------------|------------------|
| Small Cap Value Funds | | | | | | | | |
| UBVFX | 904504479 | Undiscovered Managers Behavioral Val R6 | 1,080.89 | 70,526.42 | 62.81 | 67,890.70 | 4.61% | 3.87% |
| Small Cap Blend Funds | | | | | | | | |
| DCZR | 24610B826 | Delaware Small Cap Core R6 | 1,600.47 | 37,920.96 | 23.69 | 37,915.09 | 2.57% | 2.16% |
| VB | 922908751 | Vanguard Small-Cap ETF | 225.00 | 33,291.69 | 165.64 | 37,269.00 | 2.53% | 2.12% |
| | | | | <u>\$71,212.65</u> | | <u>\$75,184.09</u> | | <u>4.28%</u> |
| Small Cap Growth Funds | | | | | | | | |
| RSEJX | 92647Q363 | Victory RS Small Cap Growth R6 | 451.37 | 36,352.65 | 81.24 | 36,669.54 | 2.49% | 2.09% |
| VBK | 922908595 | Vanguard Small-Cap Growth ETF | 156.00 | 29,869.93 | 198.7 | 30,997.20 | 2.10% | 1.77% |
| | | | | <u>\$66,222.58</u> | | <u>\$67,666.74</u> | | <u>3.85%</u> |
| Foreign Large Value Funds | | | | | | | | |
| DODFX | 256206103 | Dodge & Cox International Stock | 905.59 | 37,751.41 | 43.6 | 39,483.85 | 2.68% | 2.25% |
| Foreign Large Blend Funds | | | | | | | | |
| DFALX | 233203868 | DFA Large Cap International I | 5,998.45 | 128,666.96 | 23.67 | 141,983.41 | 9.64% | 8.09% |
| HEFA | 46434V803 | iShares Currency Hedged MSCI EAFE ETF | 1,777.00 | 47,014.12 | 30.515 | 54,225.15 | 3.68% | 3.09% |
| | | | | <u>\$175,681.08</u> | | <u>\$196,208.56</u> | | <u>11.17%</u> |
| Foreign Large Growth Funds | | | | | | | | |
| MGRDX | 552746356 | MFS International Growth R6 | 1,064.49 | 32,443.13 | 37.1 | 39,492.73 | 2.68% | 2.25% |
| Diversified Emerging Markets | | | | | | | | |
| HHHFX | 41665X859 | Hartford Schroders Emerging Mkts Eq F | 4,089.13 | 57,401.49 | 16.58 | 67,797.69 | 4.60% | 3.86% |
| | | | | <u>\$57,401.49</u> | | <u>\$67,797.69</u> | | <u>3.86%</u> |
| TOTAL EQUITY | | | | \$1,330,602.37 | | \$1,473,146.86 | | 83.90% |
| ALTERNATIVES | | | | | | | | |
| Market Neutral | | | | | | | | |
| QMNIX | 00191K799 | AQR Equity Market Neutral I | 427.47 | 4,720.84 | 9.2 | 3,932.74 | 0.27% | 0.22% |
| BILPX | 09250J734 | BlackRock Event Driven Equity Instl | 1,000.32 | 9,946.77 | 9.69 | 9,693.12 | 0.66% | 0.55% |
| BSIKX | 09260B374 | BlackRock Strategic Income Opps K | 485.06 | 4,791.51 | 9.98 | 4,840.88 | 0.33% | 0.28% |
| | | | | <u>\$19,459.12</u> | | <u>\$18,466.74</u> | | <u>1.05%</u> |

HOLDINGS REPORT

El Toro Water District 401(k) - Growth

As of Fourth Quarter 2019

| TICKER | CUSIP | ASSET NAME | SHARES/UNITS | COST BASIS | PRICE | MARKET VALUE (MV) | MV AS % OF ASSET TYPE | MV AS % OF TOTAL |
|----------------------------|-----------|---|--------------|-------------|-----------------------|----------------------|--------------------------|---------------------|
| Managed Futures | | | | | | | | |
| AQMIX | 00203H859 | AQR Managed Futures Strategy I | 943.79 | 9,016.08 | 8.31 | 7,842.90 | 0.53% | 0.45% |
| AMFNX | 63873P825 | Natixis ASG Managed Futures Strategy N | 854.05 | 8,874.29 | 9.37 | 8,002.48 | 0.54% | 0.46% |
| | | | | \$17,890.37 | | \$15,845.38 | | 0.90% |
| Merger Arbitrage | | | | | | | | |
| ARBNX | 03875R205 | Arbitrage I | 11.50 | 150.77 | 13.35 | 153.50 | 0.01% | 0.01% |
| Global Macro | | | | | | | | |
| EGRSX | 27830W108 | Eaton Vance Gbl Macro Abs Ret Advtg R6 | 856.53 | 8,533.23 | 10.47 | 8,967.88 | 0.61% | 0.51% |
| LAOSX | 95768D509 | Western Asset Macro Opportunities IS | 793.78 | 8,419.42 | 11.12 | 8,826.80 | 0.60% | 0.50% |
| | | | | \$16,952.65 | | \$17,794.68 | | 1.01% |
| Fund of Hedge Funds | | | | | | | | |
| BXMIX | 09257V201 | Blackstone Alternative Multi-Strategy I | 859.04 | 9,058.94 | 10.68 | 9,174.59 | 0.62% | 0.52% |
| QSPIX | 00203H420 | AQR Style Premia Alternative I | 837.84 | 8,350.48 | 8.15 | 6,828.39 | 0.46% | 0.39% |
| | | | | \$17,409.42 | | \$16,002.98 | | 0.91% |
| REITs | | | | | | | | |
| ICF | 464287564 | iShares Cohen & Steers REIT ETF | 178.00 | 20,273.89 | 116.99 | 20,824.22 | 1.41% | 1.19% |
| TOTAL ALTERNATIVES | | | | | \$92,136.22 | | \$89,087.50 | 5.07% |
| TOTAL - ALL ASSETS | | | | | \$1,615,845.34 | | \$1,755,917.71 | 100.00% |

DISCLOSURES

HighMark Capital Management, Inc. (HighMark), an SEC-registered investment adviser, is a subsidiary of MUFG Union Bank, N.A. (MUB). HighMark manages institutional separate account portfolios for a wide variety of for-profit and nonprofit organizations, public agencies, public and private retirement plans, and personal trusts of all sizes. It may also serve as sub-adviser for mutual funds, common trust funds, and collective investment trusts. MUB, a subsidiary of MUFG Americas Holdings Corporation, provides certain services to HighMark and is compensated for these services. Past performance does not guarantee future results. Individual account management and construction will vary depending on each client's investment needs and objectives. Investments employing HighMark strategies are NOT insured by the FDIC or by any other Federal Government Agency, are NOT Bank deposits, are NOT guaranteed by the Bank or any Bank affiliate, and MAY lose value, including possible loss of principal.

Some information provided herein was obtained from third party sources deemed to be reliable; HighMark and its affiliates make no representations or warranties with respect to the timeliness, accuracy, or completeness of the information provided. Any information provided is subject to change without notice.

Benchmark returns do not reflect the deduction of advisory fees, custody fees, transaction costs, or other expenses of investing. An investor cannot invest directly in an index. The unmanaged S&P 500 Index is generally representative of the performance of large companies in the U.S. stock market. The MSCI EAFE Index (Europe, Australasia, Far East) is a free float-adjusted market capitalization index that is designed to measure developed market equity performance, excluding the U.S. & Canada. The Russell 2000 Index measures the performance of the 2,000 smallest companies in the Russell 3000 Index, which represents approximately 8% of the total market capitalization of the Russell 3000 Index. The unmanaged Barclays Capital (BC) U.S. Aggregate Bond Index is generally representative of the U.S. taxable bond market as a whole. The unmanaged BC 1-3 Year U.S. Government/Credit Index is a subset of the BC U.S. Government/Credit Index with maturities ranging from 1-3 years. The unmanaged Citigroup 3-month T-bill Index tracks the yield of the 3-month U.S. Treasury bill. Total returns assume the reinvestment of dividends and other earnings. Results for periods greater than one year are annualized.

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RESOLUTION NO. 20-2-1

RESOLUTION OF THE BOARD OF DIRECTORS
OF THE EL TORO WATER DISTRICT
ADOPTING FAIR POLITICAL PRACTICE COMMISSION
FORM 806 IN THE FORM AND CONTENT ATTACHED
TO THIS RESOLUTION, AND AUTHORIZING & DIRECTING THE
POSTING OF SAID FORM 806 ON THE DISTRICT'S WEBSITE

WHEREAS, the Fair Political Practice Commission ("FPPC") has provided a form ("Form 806") to report additional compensation that officials receive when appointing themselves to a standing or ad hoc committee of the public agency of which the official is a member (see FPPC Regulation 18705.5 amended 12/13/2012); and

WHEREAS, on January 23, 2020, the Board of Directors of the El Toro Water District ("District") confirmed the appointment of Directors to various Organizations and Standing Committees of the District; and

WHEREAS, Form 806 attached hereto marked Exhibit "A", sets forth each appointed position for which compensation is paid, the stipend for each appointed position, the name of the public official who has been appointed to the position and the name of the public official, if any, who has been appointed as an alternate and the term of the position.

NOW, THEREFORE, IT IS HEREBY RESOLVED that the Board of Directors of the District hereby ratifies and confirms the adoption as set forth of the FPPC Form 806 in the form and content set forth in Exhibit "A" to this Resolution;

RESOLVED FURTHER that the General Manager of the District or his designee is hereby authorized and directed to post Exhibit “A” to this Resolution (FPPC Form 806) on the District’s website.

ADOPTED, SIGNED, AND APPROVED this 27th day of February 2020.

MARK L. MONIN, President
El Toro Water District and the
Board of Directors thereof

(SEAL)

ATTEST:

DENNIS P. CAFFERTY, Secretary
El Toro Water District and the
Board of Directors thereof

Agency Report of: Public Official Appointments

A Public Document

| | | | |
|--|--------|---------------------|---|
| 1. Agency Name | | | California Form 806 |
| Division, Department, or Region <i>(If Applicable)</i> | | | For Official Use Only |
| Designated Agency Contact <i>(Name, Title)</i> | | | |
| Area Code/Phone Number | E-mail | Page _____ of _____ | Date Posted: <i>(Month, Day, Year)</i> |

2. Appointments

| Agency Boards and Commissions | Name of Appointed Person | Appt Date and Length of Term | Per Meeting/Annual Salary/Stipend |
|-------------------------------|---|---|--|
| | ▶ Name _____ <i>(Last, First)</i> Alternate, if any _____ <i>(Last, First)</i> | ▶ _____/_____/_____ <i>Appt Date</i> ▶ _____ <i>Length of Term</i> | ▶ Per Meeting: \$ _____ ▶ Estimated Annual: <input type="checkbox"/> \$0-\$1,000 <input type="checkbox"/> \$2,001-\$3,000 <input type="checkbox"/> \$1,001-\$2,000 <input type="checkbox"/> _____ <i>Other</i> |
| | ▶ Name _____ <i>(Last, First)</i> Alternate, if any _____ <i>(Last, First)</i> | ▶ _____/_____/_____ <i>Appt Date</i> ▶ _____ <i>Length of Term</i> | ▶ Per Meeting: \$ _____ ▶ Estimated Annual: <input type="checkbox"/> \$0-\$1,000 <input type="checkbox"/> \$2,001-\$3,000 <input type="checkbox"/> \$1,001-\$2,000 <input type="checkbox"/> _____ <i>Other</i> |
| | ▶ Name _____ <i>(Last, First)</i> Alternate, if any _____ <i>(Last, First)</i> | ▶ _____/_____/_____ <i>Appt Date</i> ▶ _____ <i>Length of Term</i> | ▶ Per Meeting: \$ _____ ▶ Estimated Annual: <input type="checkbox"/> \$0-\$1,000 <input type="checkbox"/> \$2,001-\$3,000 <input type="checkbox"/> \$1,001-\$2,000 <input type="checkbox"/> _____ <i>Other</i> |
| | ▶ Name _____ <i>(Last, First)</i> Alternate, if any _____ <i>(Last, First)</i> | ▶ _____/_____/_____ <i>Appt Date</i> ▶ _____ <i>Length of Term</i> | ▶ Per Meeting: \$ _____ ▶ Estimated Annual: <input type="checkbox"/> \$0-\$1,000 <input type="checkbox"/> \$2,001-\$3,000 <input type="checkbox"/> \$1,001-\$2,000 <input type="checkbox"/> _____ <i>Other</i> |

3. Verification

I have read and understand FPPC Regulation 18702.5. I have verified that the appointment and information identified above is true to the best of my information and belief.

Signature of Agency Head or Designee Print Name Title (Month, Day, Year)

Comment: _____

Background

This form is used to report additional compensation that officials receive when appointing themselves to positions on committees, boards, or commissions of another public agency or to a committee or position of the agency of which the public official is a member.

This form is required pursuant to FPPC Regulation 18702.5. Each agency must post on its website a single Form 806 which lists all the paid appointed positions to which an official will vote to appoint themselves. When there is a change in compensation or a new appointment, the Form 806 is updated to reflect the change. The form must be updated promptly as changes occur.

Instructions

This form must be posted prior to a vote (or consent item) to appoint a governing board member if the appointee will participate in the decision and the appointment results in additional compensation to the appointee.

FPPC Regulation 18702.5 provides that as long as the public is informed prior to a vote, an official may vote to hold another position even when the vote results in additional compensation.

Part 1. Agency Identification

Identify the agency name and information on who should be contacted for information.

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Identify the name of the other agency, board or commission. List the name of the official, and an alternate, if any.

List the appointment date and the length of term the agency official will serve. Disclose the stipend provided per meeting and the estimated annual payment. The annual salary is an estimate as it will likely vary depending upon the number of meetings. It is not necessary to revise the estimate at the end of the calendar year.

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The agency head or his/her designee must sign the verification.

Frequently Asked Questions (FAQs)

1. When does an agency need to complete the Form 806?
A Form 806 is required when an agency's board members vote to appoint a board member to serve on another governmental agency or position of the agency of which the official is a member and will receive additional compensation.
2. The city council votes to serve as the city's housing authority, a separate entity. Will the Form 806 be required?
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3. Are appointments made by a governing board to appoint one of its members to serve as an officer of that board for additional pay (e.g., mayor) required to be disclosed on Form 806?

No. FPPC Regulation 18702.5(b)(6) exempts from this requirement decisions to fill a position on the body of which the official is a member (such as a councilmember being appointed as mayor) despite an increase in compensation.

4. In determining the income, must the agency include mileage reimbursements, travel payments, health benefits, and other compensation?

No. FPPC Regulation 18702.5 requires only the amount of the stipend or salary to be reported.

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7. If officials choose to recuse themselves from the decision and leave the room when a vote is taken to make an appointment, must the Form 806 be completed?

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**Agency Report of:
Public Official Appointments
Continuation Sheet**

1. Agency Name

Date Posted: _____
(Month, Day, Year)

2. Appointments

| Agency Boards and Commissions | Name of Appointed Person | Appt Date and Length of Term | Per Meeting/Annual Salary/Stipend |
|-------------------------------|---|---|--|
| | ▶ Name _____ <i>(Last, First)</i> Alternate, if any _____ <i>(Last, First)</i> | ▶ _____/_____/_____ <i>Appt Date</i> ▶ _____ <i>Length of Term</i> | ▶ Per Meeting: \$ _____ ▶ Estimated Annual: <input type="checkbox"/> \$0-\$1,000 <input type="checkbox"/> \$2,001-\$3,000 <input type="checkbox"/> \$1,001-\$2,000 <input type="checkbox"/> _____ <i>Other</i> |
| | ▶ Name _____ <i>(Last, First)</i> Alternate, if any _____ <i>(Last, First)</i> | ▶ _____/_____/_____ <i>Appt Date</i> ▶ _____ <i>Length of Term</i> | ▶ Per Meeting: \$ _____ ▶ Estimated Annual: <input type="checkbox"/> \$0-\$1,000 <input type="checkbox"/> \$2,001-\$3,000 <input type="checkbox"/> \$1,001-\$2,000 <input type="checkbox"/> _____ <i>Other</i> |
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Agency Report of: Public Official Appointments

A Public Document

| | | | |
|--|--------|---------------------|---|
| 1. Agency Name | | | California Form 806 For Official Use Only |
| Division, Department, or Region <i>(If Applicable)</i> | | | Date Posted: <i>(Month, Day, Year)</i> |
| Designated Agency Contact <i>(Name, Title)</i> | | | |
| Area Code/Phone Number | E-mail | Page _____ of _____ | |

2. Appointments

| Agency Boards and Commissions | Name of Appointed Person | Appt Date and Length of Term | Per Meeting/Annual Salary/Stipend |
|-------------------------------|---|---|--|
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3. Verification

I have read and understand FPPC Regulation 18702.5. I have verified that the appointment and information identified above is true to the best of my information and belief.

Signature of Agency Head or Designee Print Name Title (Month, Day, Year)

Comment: _____

Background

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Public Official Appointments
Continuation Sheet**

1. Agency Name

Date Posted: _____
(Month, Day, Year)

2. Appointments

| Agency Boards and Commissions | Name of Appointed Person | Appt Date and Length of Term | Per Meeting/Annual Salary/Stipend |
|-------------------------------|---|---|--|
| | ▶ Name _____ <i>(Last, First)</i> Alternate, if any _____ <i>(Last, First)</i> | ▶ _____/_____/_____ <i>Appt Date</i> ▶ _____ <i>Length of Term</i> | ▶ Per Meeting: \$ _____ ▶ Estimated Annual: <input type="checkbox"/> \$0-\$1,000 <input type="checkbox"/> \$2,001-\$3,000 <input type="checkbox"/> \$1,001-\$2,000 <input type="checkbox"/> _____ <i>Other</i> |
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A Public Document

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| Area Code/Phone Number | E-mail | Page _____ of _____ | |

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**Agency Report of:
Public Official Appointments
Continuation Sheet**

1. Agency Name

Date Posted: _____
(Month, Day, Year)

2. Appointments

| Agency Boards and Commissions | Name of Appointed Person | Appt Date and Length of Term | Per Meeting/Annual Salary/Stipend |
|-------------------------------|---|---|--|
| | ▶ Name _____ <i>(Last, First)</i> Alternate, if any _____ <i>(Last, First)</i> | ▶ _____/_____/_____ <i>Appt Date</i> ▶ _____ <i>Length of Term</i> | ▶ Per Meeting: \$ _____ ▶ Estimated Annual: <input type="checkbox"/> \$0-\$1,000 <input type="checkbox"/> \$2,001-\$3,000 <input type="checkbox"/> \$1,001-\$2,000 <input type="checkbox"/> _____ <i>Other</i> |
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Agency Report of: Public Official Appointments

A Public Document

| | | | |
|--|--------|---------------------|---|
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No. FPPC Regulation 18702.5(b)(6) exempts from this requirement decisions to fill a position on the body of which the official is a member (such as a councilmember being appointed as mayor) despite an increase in compensation.

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**Agency Report of:
Public Official Appointments
Continuation Sheet**

1. Agency Name

Date Posted: _____
(Month, Day, Year)

2. Appointments

| Agency Boards and Commissions | Name of Appointed Person | Appt Date and Length of Term | Per Meeting/Annual Salary/Stipend |
|-------------------------------|---|---|--|
| | ▶ Name _____ <i>(Last, First)</i> Alternate, if any _____ <i>(Last, First)</i> | ▶ _____/_____/_____ <i>Appt Date</i> ▶ _____ <i>Length of Term</i> | ▶ Per Meeting: \$ _____ ▶ Estimated Annual: <input type="checkbox"/> \$0-\$1,000 <input type="checkbox"/> \$2,001-\$3,000 <input type="checkbox"/> \$1,001-\$2,000 <input type="checkbox"/> _____ <i>Other</i> |
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Agency Report of: Public Official Appointments

A Public Document

| | | | |
|--|--------|---------------------|---|
| 1. Agency Name | | | California Form 806 For Official Use Only |
| Division, Department, or Region <i>(If Applicable)</i> | | | Date Posted: <i>(Month, Day, Year)</i> |
| Designated Agency Contact <i>(Name, Title)</i> | | | |
| Area Code/Phone Number | E-mail | Page _____ of _____ | |

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3. Verification

I have read and understand FPPC Regulation 18702.5. I have verified that the appointment and information identified above is true to the best of my information and belief.

Signature of Agency Head or Designee Print Name Title (Month, Day, Year)

Comment: _____

Background

This form is used to report additional compensation that officials receive when appointing themselves to positions on committees, boards, or commissions of another public agency or to a committee or position of the agency of which the public official is a member.

This form is required pursuant to FPPC Regulation 18702.5. Each agency must post on its website a single Form 806 which lists all the paid appointed positions to which an official will vote to appoint themselves. When there is a change in compensation or a new appointment, the Form 806 is updated to reflect the change. The form must be updated promptly as changes occur.

Instructions

This form must be posted prior to a vote (or consent item) to appoint a governing board member if the appointee will participate in the decision and the appointment results in additional compensation to the appointee.

FPPC Regulation 18702.5 provides that as long as the public is informed prior to a vote, an official may vote to hold another position even when the vote results in additional compensation.

Part 1. Agency Identification

Identify the agency name and information on who should be contacted for information.

Part 2. Appointments

Identify the name of the other agency, board or commission. List the name of the official, and an alternate, if any.

List the appointment date and the length of term the agency official will serve. Disclose the stipend provided per meeting and the estimated annual payment. The annual salary is an estimate as it will likely vary depending upon the number of meetings. It is not necessary to revise the estimate at the end of the calendar year.

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The agency head or his/her designee must sign the verification.

Frequently Asked Questions (FAQs)

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California Special Districts Association

DISTRICT NETWORKS





**California Special
Districts Association**
Districts Stronger Together

DATE: January 22, 2020

TO: CSDA Voting Member Presidents and General Managers –
Southern Network

FROM: CSDA Elections and Bylaws Committee

**SUBJECT: CSDA BOARD OF DIRECTORS VACANCY –
CALL FOR NOMINATIONS: SEAT B – SOUTHERN NETWORK**

The CSDA Elections and Bylaws Committee is looking for independent special district Board Members or their General Managers from the Southern Network who are interested in leading the direction of the California Special Districts Association for the remainder of the 2020 - 2022 term, Seat B which is currently vacant.

The leadership of CSDA is elected from its six geographical networks. Each of the six networks has three seats on the Board with staggered 3-year terms. Candidates must be affiliated with an independent special district that is a CSDA Regular Member in good standing and located within the Southern Network (see attached CSDA Network Map).

The CSDA Board of Directors is the governing body responsible for all policy decisions related to CSDA's member services, legislative advocacy, education and resources. The Board of Directors is crucial to the operation of the Association and to the representation of the common interests of all California's special districts before the Legislature and the State Administration. Serving on the Board requires one's interest in the issues confronting special districts statewide.

Commitment and Expectations:

- Attend all Board meetings, usually 4-5 meetings annually, at the CSDA office in Sacramento.
- Participate on at least one committee, meets 3-5 times a year at the CSDA office in Sacramento.
(CSDA reimburses Directors for their related expenses for Board and committee meetings as outlined in Board policy).
- Attend, at minimum, the following CSDA annual events: Special Districts Legislative Days - held in the spring, and the CSDA Annual Conference - held in the summer/fall.
*(CSDA does **not** reimburse travel related expenses for the two conferences even if a Board or committee meeting is held in conjunction with the event, however registration fees are covered)*
- Complete all four modules of CSDA's Special District Leadership Academy within 2 years of being elected.
*(CSDA does **not** reimburse expenses for the Academy classes even if a Board or committee meeting is held in conjunction with the event).*

- Complete Annual Chief Executive Officer Evaluation.

Nomination Procedures: Any Regular Member in good standing is eligible to nominate one person, a board member or managerial employee (as defined by that district's Board of Directors), for election to the CSDA Board of Directors. **A copy of the member district's resolution or minute action and Candidate Information Sheet must accompany the nomination. The deadline for receiving nominations is March 6, 2020. Nominations and supporting documentation may be mailed or emailed.**

Mail: 1112 I Street, Suite 200, Sacramento, CA 95814
E-mail: amberp@csda.net

Once received, nominees will receive a candidate's letter in the mail. The letter will serve as confirmation that CSDA has received the nomination.

CSDA Southern Network Board Members will conduct interviews of candidates that submitted nominations on March 9 – 13, 2020.

A Board appointment recommendation will be submitted by CSDA Southern Network Board Members for consideration by the full Board on March 27, 2020.

The newly appointed Board Member for the Southern Network Seat B will take office April 1, 2020.

If you have any questions, please contact Amber Phelen at amberp@csda.net.



California Special
Districts Association
Districts Stronger Together

**2020-2022 BOARD APPOINTMENT
FOR SEAT B SOUTHERN NETWORK
NOMINATION FORM**

Name of Candidate: _____

District: _____

Mailing Address: _____

Network: SOUTHERN

District Telephone: _____

Candidate Direct Telephone: _____

Best Time to Arrange a Call: AM PM
Monday Tuesday Wednesday Thursday Friday Saturday

E-mail: _____

Nominated by (optional): _____

**Return this form and a Board resolution/minute action supporting the candidate
and Candidate Information Sheet by mail or email to:**

CSDA
Attn: Amber Phelen
1112 I Street, Suite 200
Sacramento, CA 95814
(877) 924-2732 (916) 442-7889 fax
amberp@cda.net

DEADLINE FOR RECEIVING NOMINATIONS – March 6, 2020



California Special
Districts Association
Districts Stronger Together

**2020-2022 CSDA BOARD APPOINTMENT
SEAT B SOUTHERN NETWORK
CANDIDATE INFORMATION SHEET**

The following information **MUST** accompany your nomination form and Resolution/Minutes:

Name: _____

District/Company: _____

Title: _____

Elected/Appointed/Staff: _____

Length of Service with District: _____

1. Do you have current involvement with CSDA (such as committees, events, workshops, conferences, Governance Academy, etc.):

2. Have you ever been associated with any other state-wide associations (CSAC, ACWA, League, etc.):

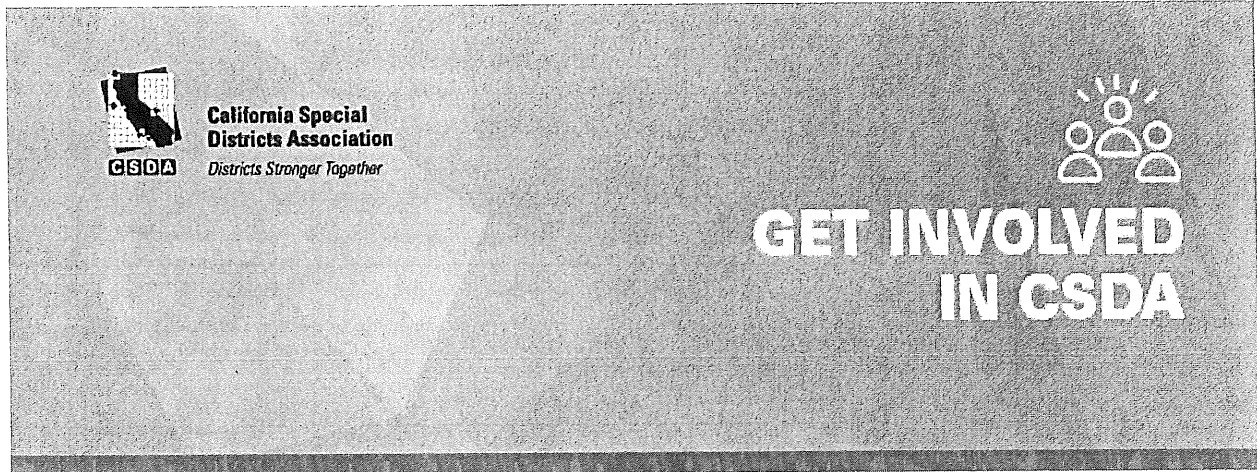
3. List local government involvement (such as LAFCo, Association of Governments, etc.):

4. List civic organization involvement:

****Additional Candidate Statement** – Please provide an additional statement that includes any personal or professional information that will assist the Board of Directors in making their selections. The preferred formatting for the statement is to be typed with 1-inch margins, 1.5 spacing, 12 pt. Times New Roman font, and no more than 2 pages.

Polly Welsch

From: Neil McCormick <neilm@csda.net>
Sent: Wednesday, January 22, 2020 1:48 PM
To: Polly Welsch
Subject: Call for Appointment Nominations for CSDA Board of Directors!



CSDA BOARD OF DIRECTORS VACANCY – CALL FOR NOMINATIONS: SEAT B – SOUTHERN NETWORK *Deadline: March 6, 2020*

The California Special Districts Association Elections and Bylaws Committee is looking for independent special district board members or their general managers from the Southern Network who are interested in leading the direction of CSDA for the remainder of the 2020 - 2022 term, Seat B, which is currently vacant.

The leadership of CSDA is elected from its six geographical networks. Each of the six networks has three seats on the board with staggered 3-year terms. Candidates must be affiliated with an independent special district that is a CSDA Regular Member in good standing and located within the Southern Network (see the CSDA network map).

The CSDA Board of Directors is the governing body responsible for all policy decisions related to CSDA's member services, legislative advocacy, education and resources. The Board of Directors is crucial to the operation of the association and to the representation of the common interests of all California's special districts before the Legislature and the State Administration. Serving on the board requires one's interest in the issues confronting special districts statewide.

Commitment and Expectations:

- Attend all Board meetings, usually 4-5 meetings annually, at the CSDA office in Sacramento.

- Participate on at least one committee, meets 3-5 times a year at the CSDA office in Sacramento. *(CSDA reimburses directors for their related expenses for board and committee meetings as outlined in board policy).*
- Attend, at minimum, the following CSDA annual events: Special Districts Legislative Days - held in the spring, and the CSDA Annual Conference - held in the summer/fall. *(CSDA does **not** reimburse travel related expenses for the two conferences even if a board or committee meeting is held in conjunction with the event; however, registration fees are covered)*
- Complete all four modules of CSDA's Special District Leadership Academy within 2 years of being elected. *(CSDA does **not** reimburse expenses for the academy classes even if a board or committee meeting is held in conjunction with the event).*
- Complete Annual Chief Executive Officer Evaluation.

Please review the CSDA Board Policy 2.16 Board Commitments & Responsibilities.

Nomination Procedures:

Any Regular Member in good standing is eligible to nominate one person, a board member or managerial employee (as defined by that district's board of directors) for election to the CSDA Board of Directors. **A copy of the member district's resolution or minute action along with the Candidate Information Sheet must accompany the Nomination Form. The deadline for receiving nomination applications is March 6, 2020. Nominations and supporting documentation may be mailed or emailed.**

Mail: 1112 I Street, Suite 200, Sacramento, CA 95814

Email: amberp@csda.net

Once received, nominees will receive a candidate's letter in the mail. The letter will serve as confirmation that CSDA has received the nomination.

CSDA Southern Network Board Members will conduct interviews of candidates who submitted nominations on March 9 – 13, 2020.

A board appointment recommendation will be submitted by CSDA Southern Network Board Members for consideration by the full board on March 27, 2020.

The newly appointed board member for the Southern Network Seat B will take office April 1, 2020.

If you have any questions, please contact Amber Phelen at amberp@csda.net.





STAFF REPORT

TO: BOARD OF DIRECTORS

MEETING DATE: February 27, 2020

FROM: Dennis Cafferty, General Manager

**SUBJECT: California Special Districts Association (CSDA) Board of Directors
Call for Nominations – Southern Network Region, Seat C**

The leadership of CSDA is elected from its six geographical networks. Each of the six networks has three seats on the board with staggered three year terms. The CSDA Elections and Bylaws Committee is looking for independent special district Board Members or their General Managers from the Southern Network who are interested in leading the direction of the California Special Districts Association for the 2021-2023 term, Seat C. Candidates must be affiliated with an independent special district that is a CSDA Regular Member in good standing and located within the Southern Network (see attached CSDA Network Map).

The incumbent for Seat C, Arlene Schafer (Director from the Costa Mesa Sanitary District) is running for re-election.

Details regarding the Commitment and Expectations can be found in the attached CSDA Call for Nominations and Candidate Information Sheet. The Seat C Nomination Form is also attached for reference.

RECOMMENDATION

Recommended Action at the February 27, 2020 Board Meeting:

The Board will consider nominating a candidate to the California Special Districts Association Board of Directors, Seat C, and submitting the nomination by the March 26, 2020 deadline.



California Special Districts Association

DISTRICT NETWORKS





**California Special
Districts Association**

Districts Stronger Together

DATE: January 27, 2020
TO: CSDA Voting Member Presidents and General Managers
FROM: CSDA Elections and Bylaws Committee
**SUBJECT: CSDA BOARD OF DIRECTORS CALL FOR NOMINATIONS
SEAT C**

The Elections and Bylaws Committee is looking for Independent Special District Board Members or their General Managers who are interested in leading the direction of the California Special Districts Association for the 2021 - 2023 term.

The leadership of CSDA is elected from its six geographical networks. Each of the six networks has three seats on the Board with staggered 3-year terms. Candidates must be affiliated with an independent special district that is a CSDA Regular Member in good standing and located within the geographic network that they seek to represent. (See attached CSDA Network Map)

The CSDA Board of Directors is the governing body responsible for all policy decisions related to CSDA's member services, legislative advocacy, education and resources. The Board of Directors is crucial to the operation of the Association and to the representation of the common interests of all California's special districts before the Legislature and the State Administration. Serving on the Board requires one's interest in the issues confronting special districts statewide.

Commitment and Expectations:

- Attend all Board meetings, usually 4-5 meetings annually, at the CSDA office in Sacramento.
- Participate on at least one committee, meets 3-5 times a year at the CSDA office in Sacramento.
(CSDA reimburses Directors for their related expenses for Board and committee meetings as outlined in Board policy).
- Attend, at minimum, the following CSDA annual events: Special Districts Legislative Days - held in the spring, and the CSDA Annual Conference - held in the fall.
*(CSDA does **not** reimburse expenses for the two conferences even if a Board or committee meeting is held in conjunction with the event, however does comp registration for the two events)*
- Complete all four modules of CSDA's Special District Leadership Academy within 2 years of being elected.
*(CSDA does **not** reimburse expenses for the Academy classes even if a Board or committee meeting is held in conjunction with the event).*

- Complete Annual Chief Executive Officer Evaluation.

Nomination Procedures: Any Regular Member in good standing is eligible to nominate one person, a board member or managerial employee (as defined by that district's Board of Directors), for election to the CSDA Board of Directors. **A copy of the member district's resolution or minute action and Candidate Information Sheet must accompany the nomination. The deadline for receiving nominations is March 26, 2020. Nominations and supporting documentation may be mailed, faxed, or emailed.**

Mail: 1112 I Street, Suite 200, Sacramento, CA 95814

Fax: 916.442.7889

E-mail: amberp@csda.net

Once received, nominees will receive a candidate's letter in the mail. The letter will serve as confirmation that CSDA has received the nomination and will also include campaign guidelines.

CSDA will begin electronic voting on May 25, 2020. All votes must be received through the system no later than 5:00 p.m. July 10, 2020. The successful candidates will be notified no later than July 14, 2020. All selected Board Members will be introduced at the Annual Conference in Palm Desert, CA in August 2020.

Expiring Terms

(See enclosed map for Network breakdown)

Northern Network Seat C-Fred Ryness, Director, Burney Water District*
Sierra Network Seat C-Pete Kampa, GM, Saddle Creek Community Services District*
Bay Area Network Seat C-Stanley Caldwell, Director, Mt. View Sanitary District*
Central Network Seat C-Sandi Miller, GM, Selma Cemetery District*
Coastal Network Seat C-Vincent Ferrante, Director, Moss Landing Harbor District*
Southern Network Seat C-Arlene Schafer, Director, Costa Mesa Sanitary District*

(* = Incumbent is running for re-election)

If you have any questions, please contact Amber Phelen at amberp@csda.net.

AGAIN, THIS YEAR!

This year we will be using a web-based online voting system, allowing your district to cast your vote easily and securely. *Electronic Ballots will be emailed to the main contact in your district May 25, 2020. All votes must be received through the system no later than 5:00 p.m. July 10, 2020.*

*Districts can opt to cast a paper ballot instead; but you must contact Amber Phelen by e-mail Amberp@csda.net **by March 26, 2020** in order to ensure that you will receive a paper ballot on time.*

CSDA will mail paper ballots on May 25, 2020 per district request only. ALL ballots must be received by CSDA no later than 5:00 p.m. July 10, 2020.

The successful candidates will be notified no later than July 14, 2020. All selected Board Members will be introduced at the Annual Conference in Palm Desert, CA in August 2020.



**California Special
Districts Association**
Districts Stronger Together

2021-2023 CSDA BOARD CANDIDATE INFORMATION SHEET

The following information **MUST** accompany your nomination form and Resolution/minute order:

Name: _____

District/Company: _____

Title: _____

Elected/Appointed/Staff: _____

Length of Service with District: _____

1. Do you have current involvement with CSDA (such as committees, events, workshops, conferences, Governance Academy, etc.):

2. Have you ever been associated with any other state-wide associations (CSAC, ACWA, League, etc.):

3. List local government involvement (such as LAFCo, Association of Governments, etc.):

4. List civic organization involvement:

****Candidate Statement** – Although it is not required, each candidate is requested to submit a candidate statement of no more than 300 words in length. **Any statements received in the CSDA office after March 26, 2020 will not be included with the ballot.**



**California Special
Districts Association**
Districts Stronger Together

2021-2023 BOARD OF DIRECTORS NOMINATION FORM

Name of Candidate: _____

District: _____

Mailing Address: _____

Network: _____ (see map)

Telephone: _____
(PLEASE BE SURE THE PHONE NUMBER IS ONE WHERE WE CAN REACH THE CANDIDATE DIRECTLY)

Fax: _____

E-mail: _____

Nominated by (optional): _____

Return this form and a Board resolution/minute action supporting the candidate and Candidate Information Sheet by mail, or email to:

CSDA
Attn: Amber Phelen
1112 I Street, Suite 200
Sacramento, CA 95814
(877) 924-2732 (916) 442-7889 fax
amberp@csla.net

DEADLINE FOR RECEIVING NOMINATIONS – March 26, 2020

GENERAL MANAGER'S REPORT

February 2020

I. OFFICE OF THE GENERAL MANAGER

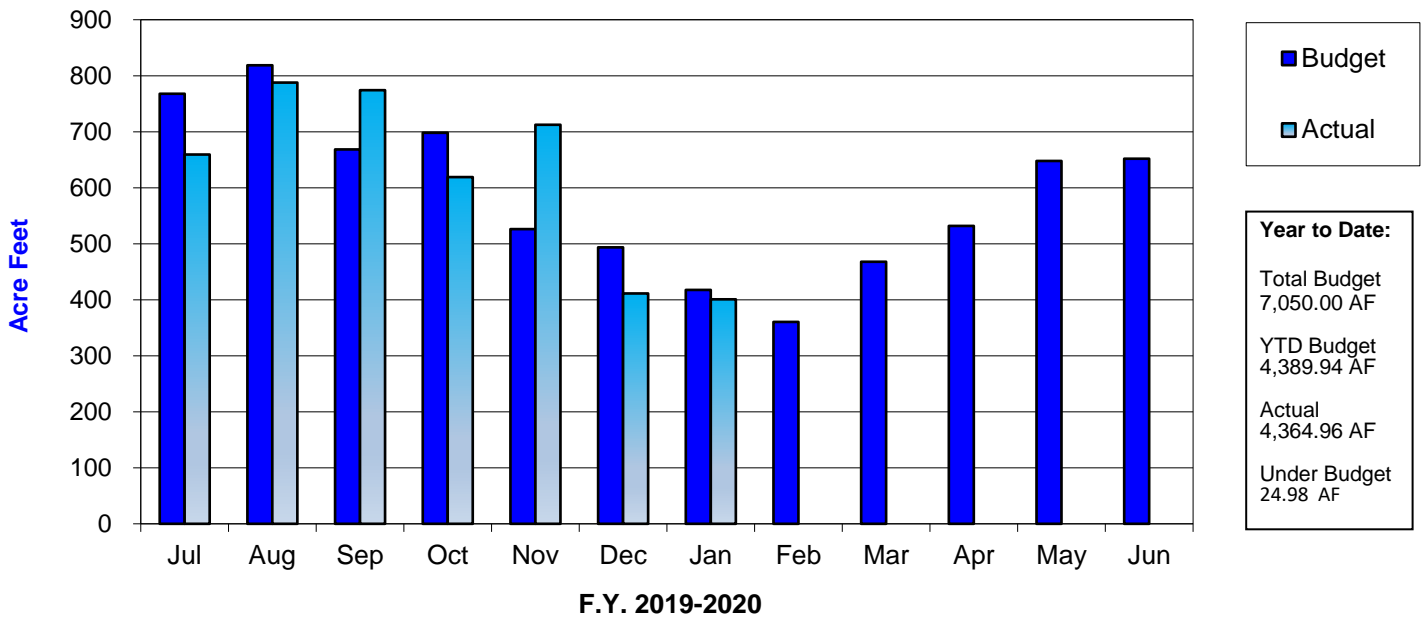
- Attended MWDOC Managers Meeting
- Attended Chair/GM Meetings
- Attended South Orange County Agencies Meeting
- Attended SOCWMA Management Committee Meeting
- Attended RRC Meeting
- Attended Lunch Meeting with Dan Ferons, SMWD General Manager
- Attended SOCWA Board Meeting
- Attended MWDOC Water Policy Forum Dinner
- Attended CAG Meeting
- Attended OCWA Luncheon
- Attended Agenda Review Meeting
- Attended SOCWA Finance Committee Meeting
- Attended Engineering/Finance Committee Meeting
- Attended Regular Board Meeting
- Attended Meeting with Brian Thomas of PFM
- Attended Special Board Meeting
- Attended SOCWMA Executive Committee Meeting
- Attended District All Employee Meeting
- Attended Project Engineer Position Interviews
- Attended Raftelis Financial Model Review Meeting

II. DOMESTIC AND RECYCLED WATER SALES

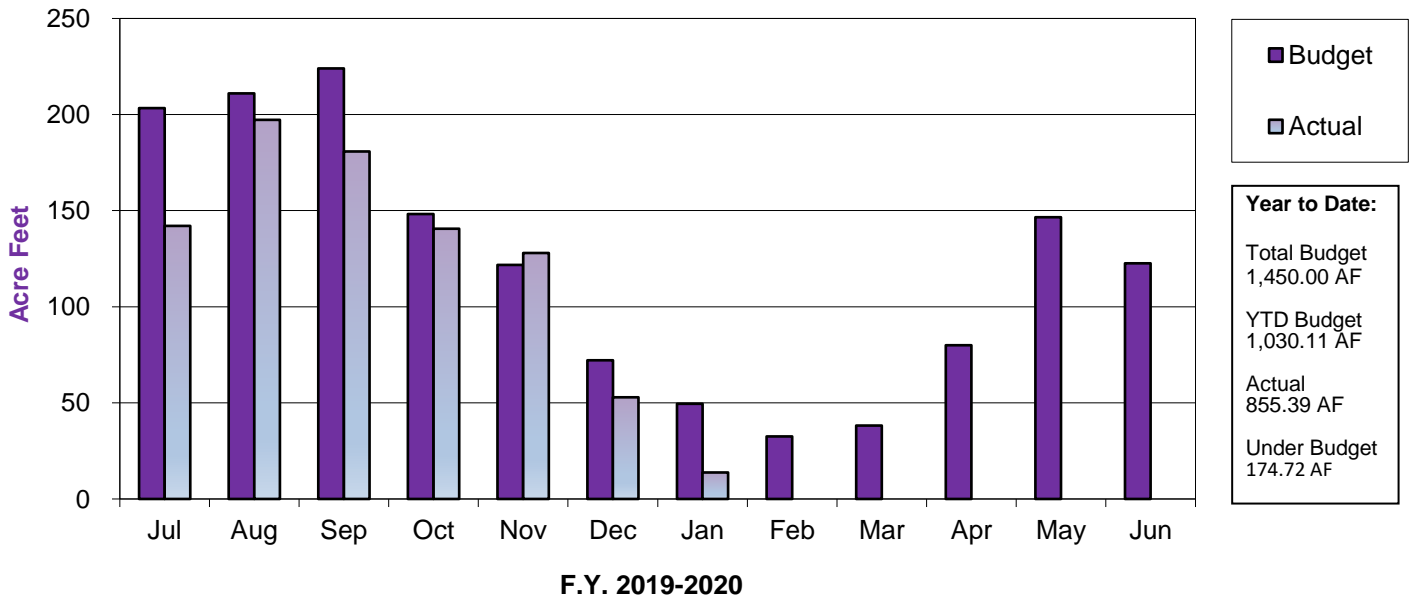
Actual domestic sales for the year-to-date as of December 31, 2019 are 3,964.14 acre-feet. This compares to year-to-date budgeted domestic sales of 3,972.49 acre-feet. The year-to-date variation in actual to budgeted sales reflects a decrease of 8.35 acre-feet. Actual sales are 73.89 acre-feet lower than last year-to-date actual sales for the same period.

Actual recycled sales for the year-to-date as of December 31, 2019 are 841.61 acre-feet. This compares to year-to-date budgeted recycled sales of 980.56 acre-feet. The year-to-date variation in actual to budgeted sales reflects a decrease of 138.95 acre-feet. Actual sales are 6.16 acre-feet lower than last year-to-date actual sales for the same period.

POTABLE WATER SALES



RECYCLED WATER SALES



Customer Service Activity Report

| Regular Service Calls | JAN 2020 | JAN 2019 | Telephone Calls | JAN 2020 | JAN 2019 |
|---|--------------------|---------------------|--|-----------------|--------------------|
| Serviceman Dispatched to Read, Connect/Disconnect Service | 75 | 70 | Change of Service: Connections and Disconnections | 58 | 102 |
| Field Investigations: | | | Billing / Payments & Graph Inquires | 236 | 367 |
| Check for leaks - calls to CS Office:(irrigation,meter,street leaks) | | | Assistance with online payments and ETWD's portal (cc, e-checks, other.) | 49 | 122 |
| Customer Responsible | 18 | 23 | Variance / Adjustment Inquiries | 20 | 50 |
| District Responsible | 9 | 5 | Variance / Adjustment Requests | 12 | 10 |
| None found/other | 15 | 14 | Processed | | |
| High Reads Checked - High Consumption (Billing Dept.) | 36 | 9 | Ordinance Infraction / Water Waste Complaints | 0 | 0 |
| Cust Leaks: _12_ No Leaks: _24_ | | | | | |
| Check Stopped Slowed Meters-Low Consumption (Billing) | 24 | 8 | Outside Utility Districts | 80 | 72 |
| Re-Check Read | 15 | 13 | Phone calls Transfer to other Departments within ETWD | 77 | 140 |
| Ordinance Infraction | 0 | 1 | Phone calls for the Board of Directors | 0 | 4 |
| Recycled Water | 0 | 0 | Recycled Water | 4 | 0 |
| Water Quality: Taste / Odor / Color | 3 | 2 | Water Quality Taste - Odor - Color | 5 | 3 |
| Phone response: _2_ Field response: _1_ | | | Leaks / Breaks | 29 | 13 |
| Flooding (Hydrant) Meters issued | 1 | 0 | Flooding Meter calls (Hydrant) | 3 | 1 |
| Sewer - Odor/Stoppage/ Manhole Covers | 4 | 0 | Sewer Problems (odor / spills) | 4 | 5 |
| Meter Box: Lids / Covers Replaced | 11 | 33 | | | |
| Meter Box Clean, Digout | 1 | 7 | Backflow / Cross Connection (questions or yearly testing forms) | 1 | 3 |
| Raised Meter Box | 0 | 1 | ETWD facilities inquiries: Boxes/Covers/Lids/Hydrants/Pump Stations/Graffiti/ "Gen. Maint" | 12 | 8 |
| Trim Bushes / Meter Obstruction | 4 | 16 | | | |
| General Maintenance Response | 0 | 8 | Tyco (ADT) Calls (Alarms to ETWD facilities) | 3 | 0 |
| Fire Hydrants: Hit / Leaks / Caps | 0 | 0 | ATT Calls (access to tower sites) | 0 | 2 |
| Pressure(psi) Checks / Reads | 2 | 5 | SCE Calls (access to tower sites) | 0 | 2 |
| CSSOV (Angle Meter/Ball Valve/Gate Valve/Globe Valve) chk,repair,replaced | 2 | 8 | Pager Calls specifically for Pump Stations - SCADA | 1 | 0 |
| AMS angle-meter-stop replace/repair | 1 | 0 | | | |
| Bees Removed | 0 | 1 | | | |
| Backflow / Cross Connection | 1 | 5 | Payment Extensions | 47 | 90 |
| Fogged Registers | 2 | 46 | Delinquent Payment Calls to Customer 's prior to shut off per billing calendar (automatic courtesy dialer) | 70 | 65 |
| OMCOP: Old Meter Change - Out Program | 1 | 0 | Return Calls from customers left on our voice mail system. Ext 500 | 10 | 11 |
| Other: (uncommon non-maintenance calls) | 4 | 5 | Email Correspondence: | 67 | 113 |
| On-Call After Hrs. CS Response | 16 | 23 | Maintenance Service Order Requests (bees, psi, fogged-dirty registers) | 5 | 1 |
| # 48/24 Hr. Door Hangers Hung | 144 | 178 | Misc. (other: employment, deliveries, sales calls) | 36 | 35 |
| # Locked Off For Non-Pay (Disconnect) | 21 | 10 | | | |
| Removed Meter | 0 | 0 | | | |
| New Meter | 17 | 19 | | | |
| Unread Meters | 15 | 15 | | | |
| Total Field Investigations | 442 | 525 | Total Telephone Calls | 829 | 1219 |
| Uncollectible Accounts: | | | Credit Card Payments | JAN 2020 | JAN 2019 |
| Budget YTD | \$11,667.00 | \$ 11,667.00 | REGULAR | 929 | \$96,105.16 |
| Actual YTD | \$ 4,907.00 | \$ 399.00 | DISCONNECTS | 718 | \$77,598.96 |

MICROBIOLOGICAL MONITORING

January 2020

PRESSURE ZONE LEGEND

| | | | |
|-------------------|--------------|---------------------|-----------------------|
| GRAVITY 570 | LOW 1 484 | SPARTAN 620-710 | MID 630 |
| SHENANDOAH 894 | LOW 2 465 | REDUCED HIGH 537 | ULTRA HIGH 800-920 |
| CHERRY 770-815 | LOW 3 409 | HIGH 645-720 | R-6 620 |

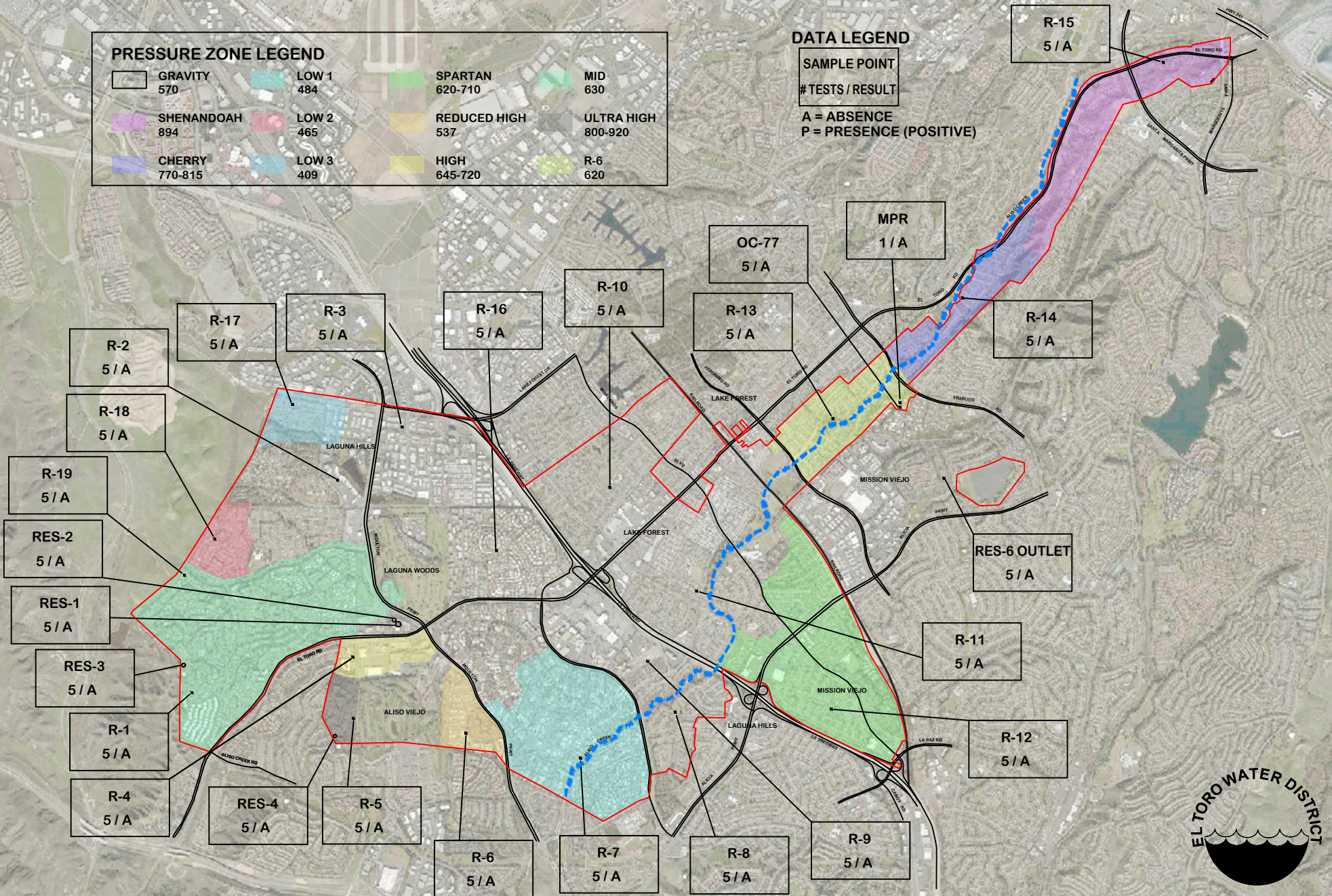
DATA LEGEND

SAMPLE POINT

TESTS / RESULT

A = ABSENCE

P = PRESENCE (POSITIVE)

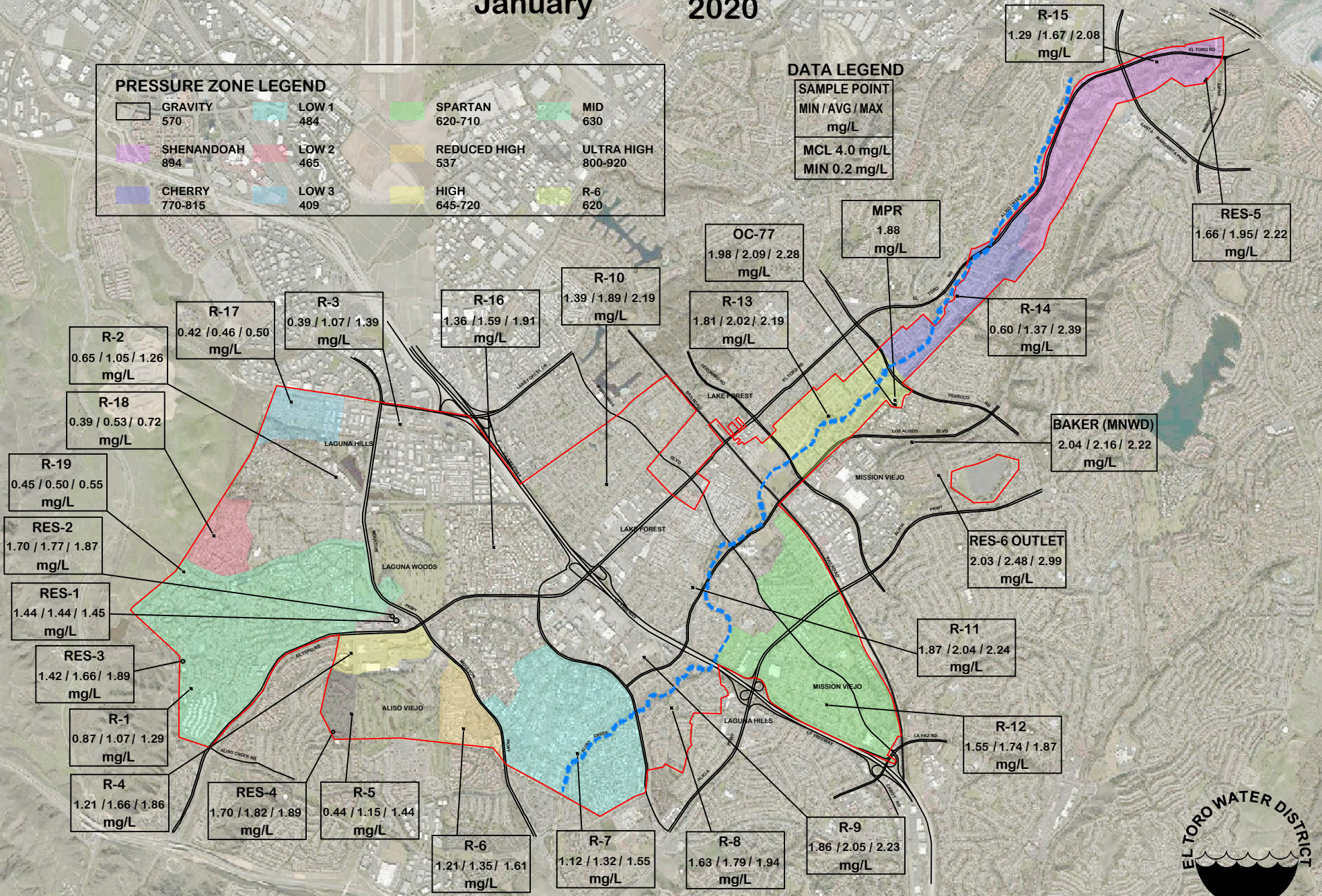


CHLORINE RESIDUAL MONITORING

January 2020

| PRESSURE ZONE LEGEND | | | |
|----------------------|--------------|---------------------|-----------------------|
| GRAVITY 570 | LOW 1 484 | SPARTAN 620-710 | MID 630 |
| SHENANDOAH 894 | LOW 2 465 | REDUCED HIGH 537 | ULTRA HIGH 800-920 |
| CHERRY 770-815 | LOW 3 409 | HIGH 645-720 | R-6 620 |

| DATA LEGEND | |
|--------------|-------------------------|
| SAMPLE POINT | MIN / AVG / MAX mg/L |
| MCL | 4.0 mg/L |
| MIN | 0.2 mg/L |

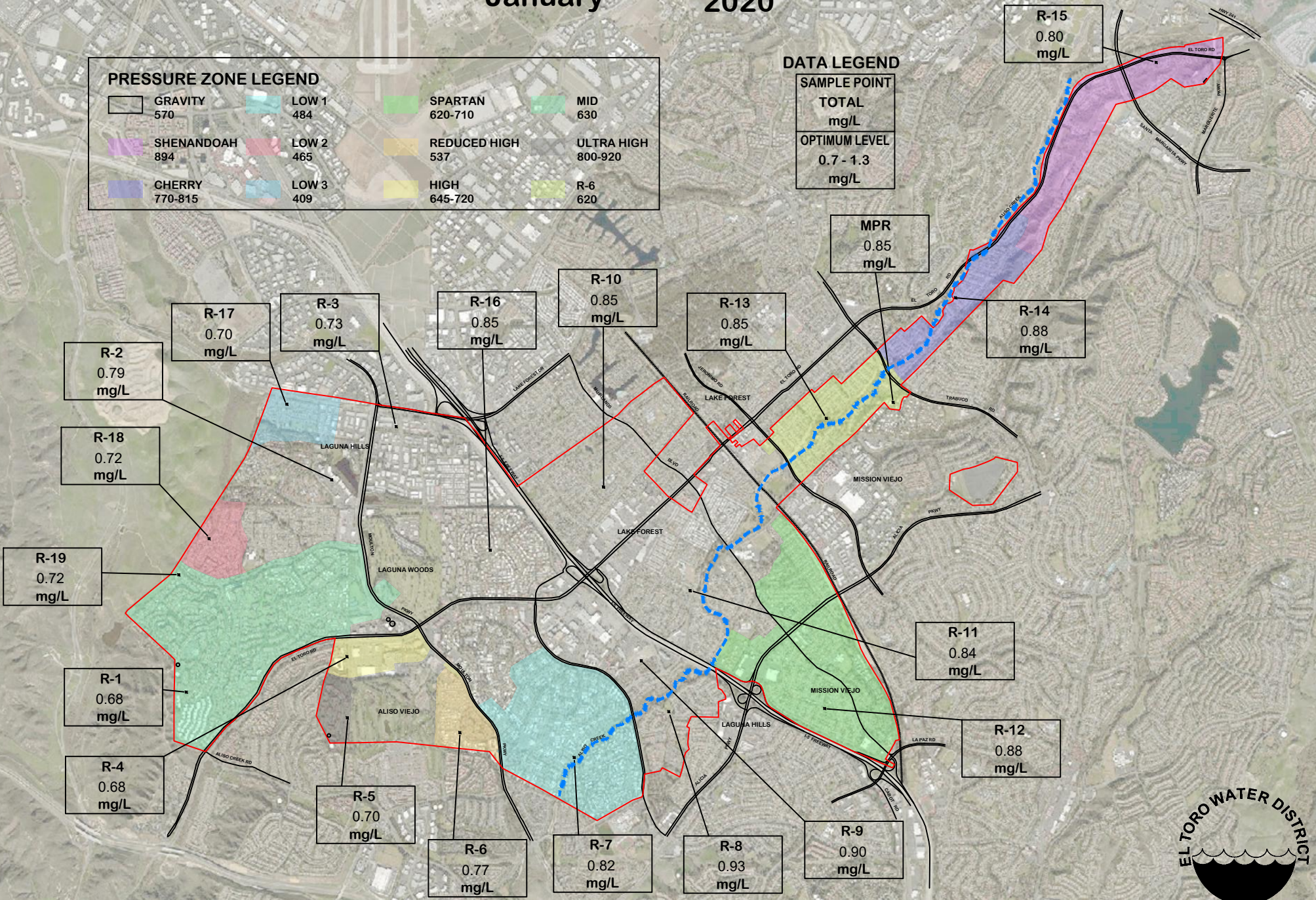


FLUORIDE MONITORING

January 2020

| PRESSURE ZONE LEGEND | | | |
|----------------------|--------------|---------------------|-----------------------|
| GRAVITY 570 | LOW 1 484 | SPARTAN 620-710 | MID 630 |
| SHENANDOAH 894 | LOW 2 465 | REDUCED HIGH 537 | ULTRA HIGH 800-920 |
| CHERRY 770-815 | LOW 3 409 | HIGH 645-720 | R-6 620 |

| DATA LEGEND | |
|--------------|------------------------------------|
| SAMPLE POINT | TOTAL mg/L |
| | OPTIMUM LEVEL 0.7 - 1.3 mg/L |



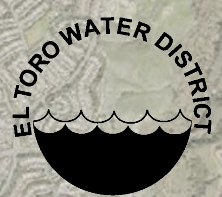
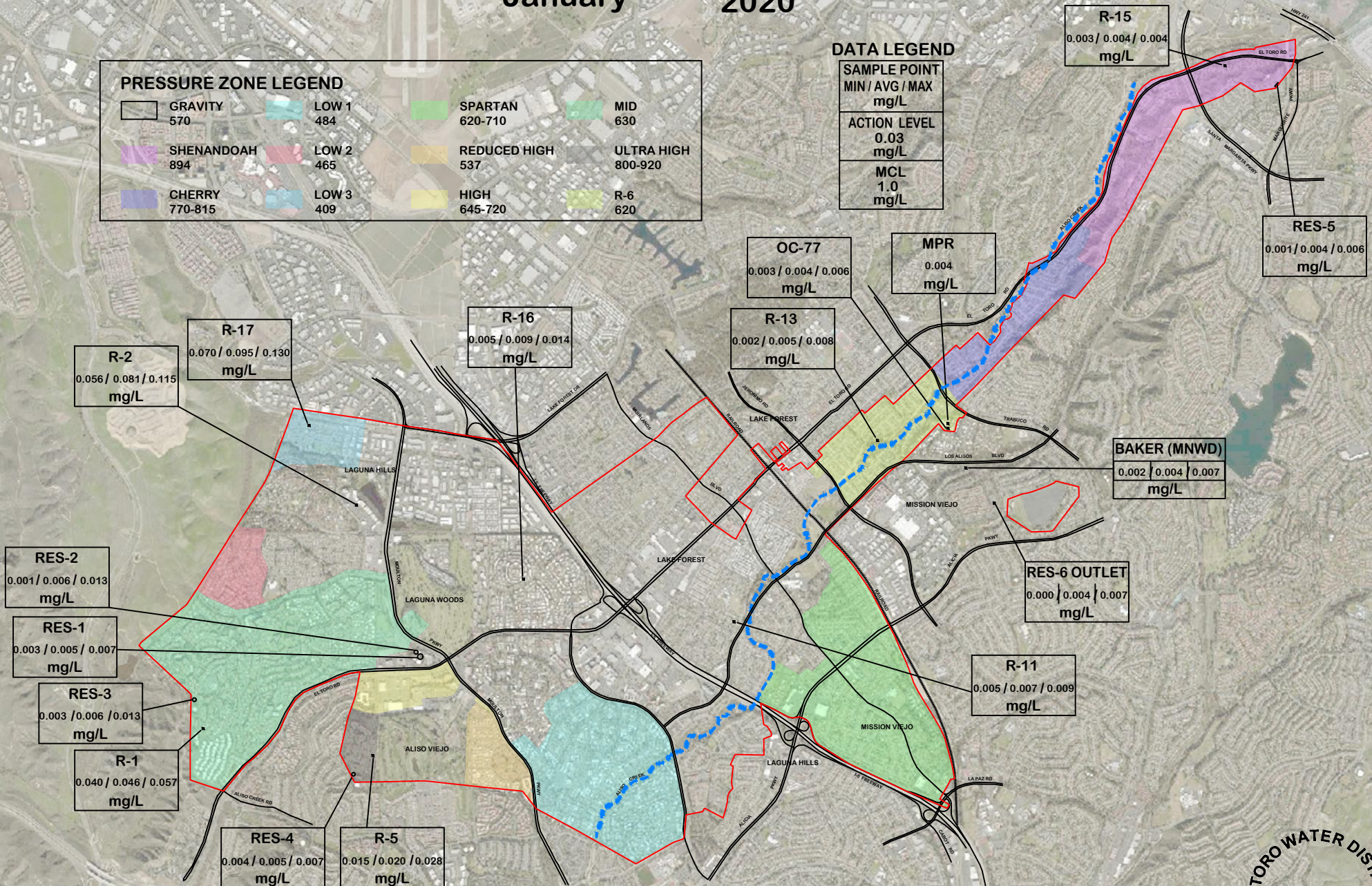
NITRITE MONITORING

January 2020

| PRESSURE ZONE LEGEND | | | |
|----------------------|--------------|---------------------|-----------------------|
| GRAVITY 570 | LOW 1 484 | SPARTAN 620-710 | MID 630 |
| SHENANDOAH 894 | LOW 2 465 | REDUCED HIGH 537 | ULTRA HIGH 800-920 |
| CHERRY 770-815 | LOW 3 409 | HIGH 645-720 | R-6 620 |

DATA LEGEND

| |
|---|
| SAMPLE POINT MIN / AVG / MAX mg/L |
| ACTION LEVEL 0.03 mg/L |
| MCL 1.0 mg/L |



Weekly Water Quality System Status

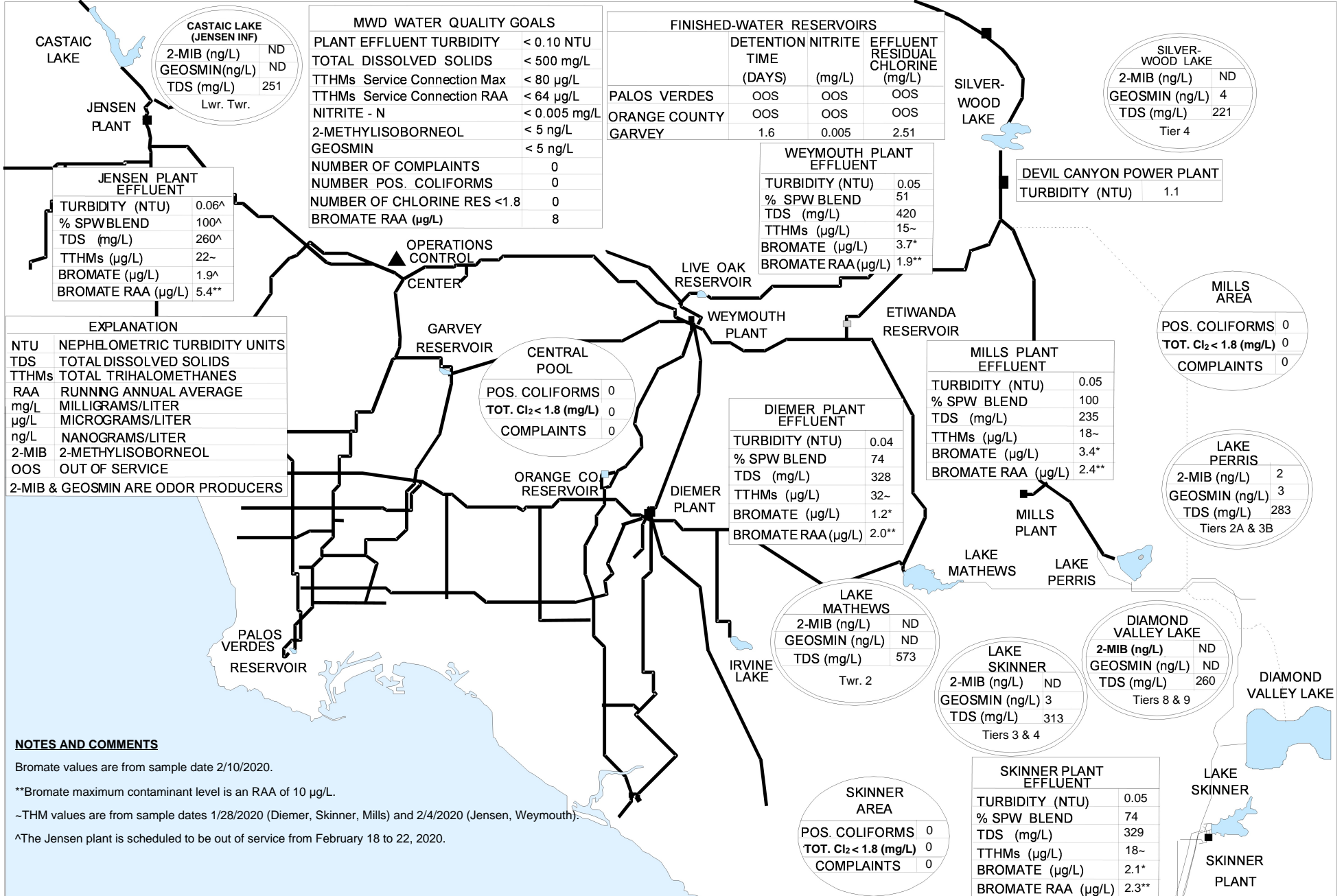
Wednesday, February 19, 2020

Generated On:2/19/2020 12:20:56 PM



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

No violations of State or Federal regulations were recorded during the current period.



NOTES AND COMMENTS

Bromate values are from sample date 2/10/2020.

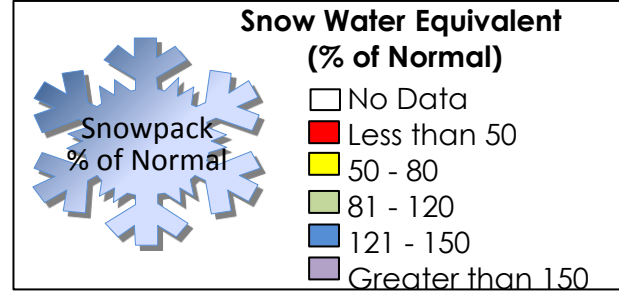
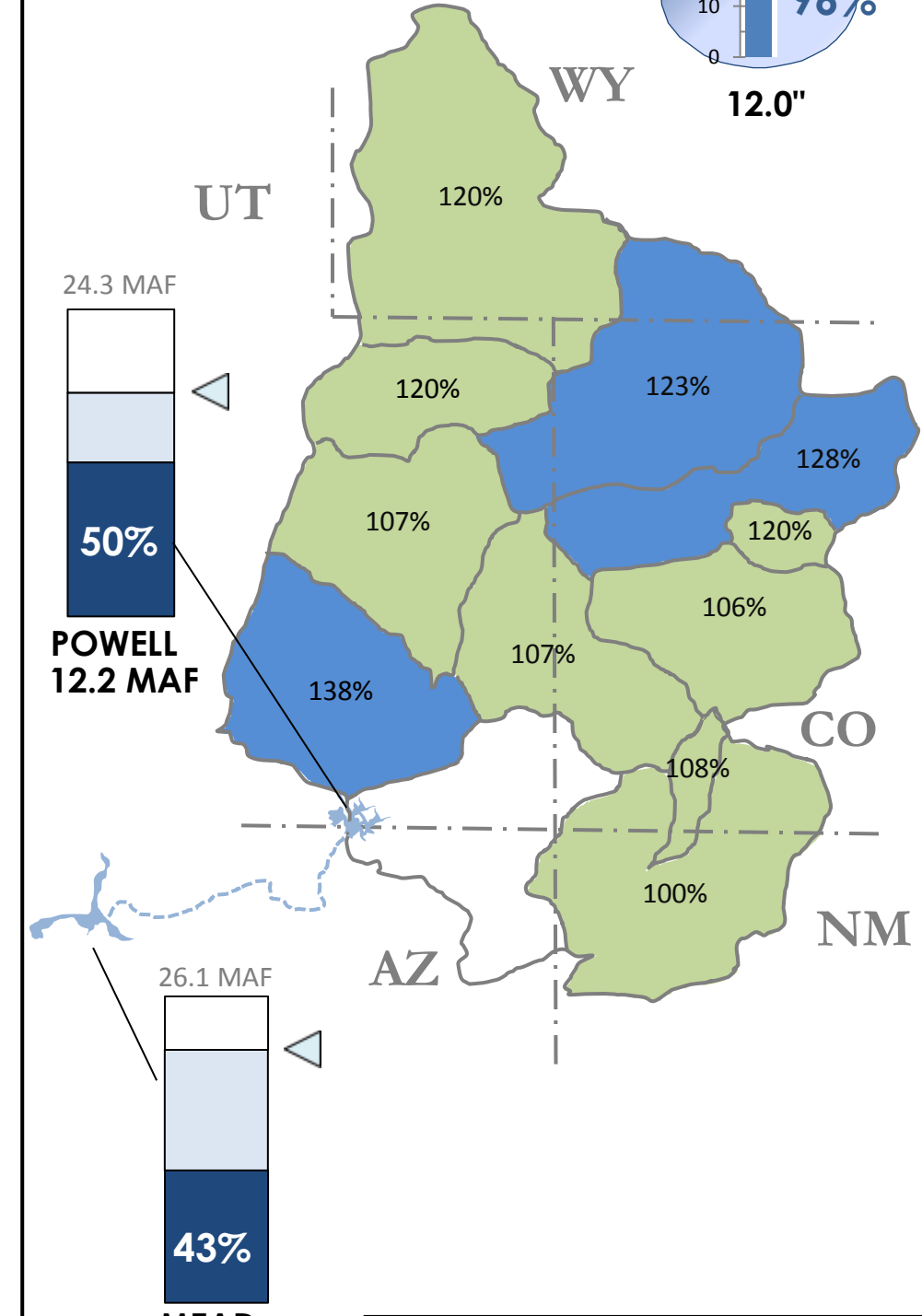
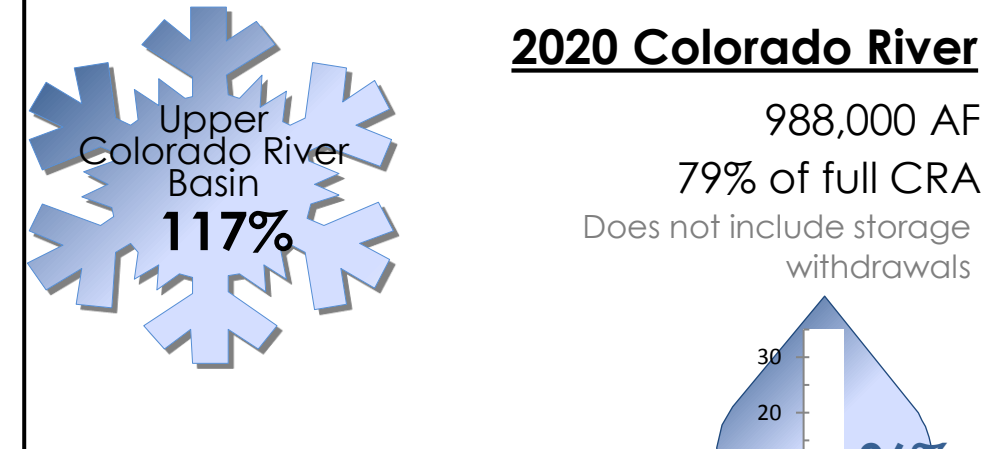
**Bromate maximum contaminant level is an RAA of 10 µg/L.

~THM values are from sample dates 1/28/2020 (Diemer, Skinner, Mills) and 2/4/2020 (Jensen, Weymouth).

^The Jensen plant is scheduled to be out of service from February 18 to 22, 2020.

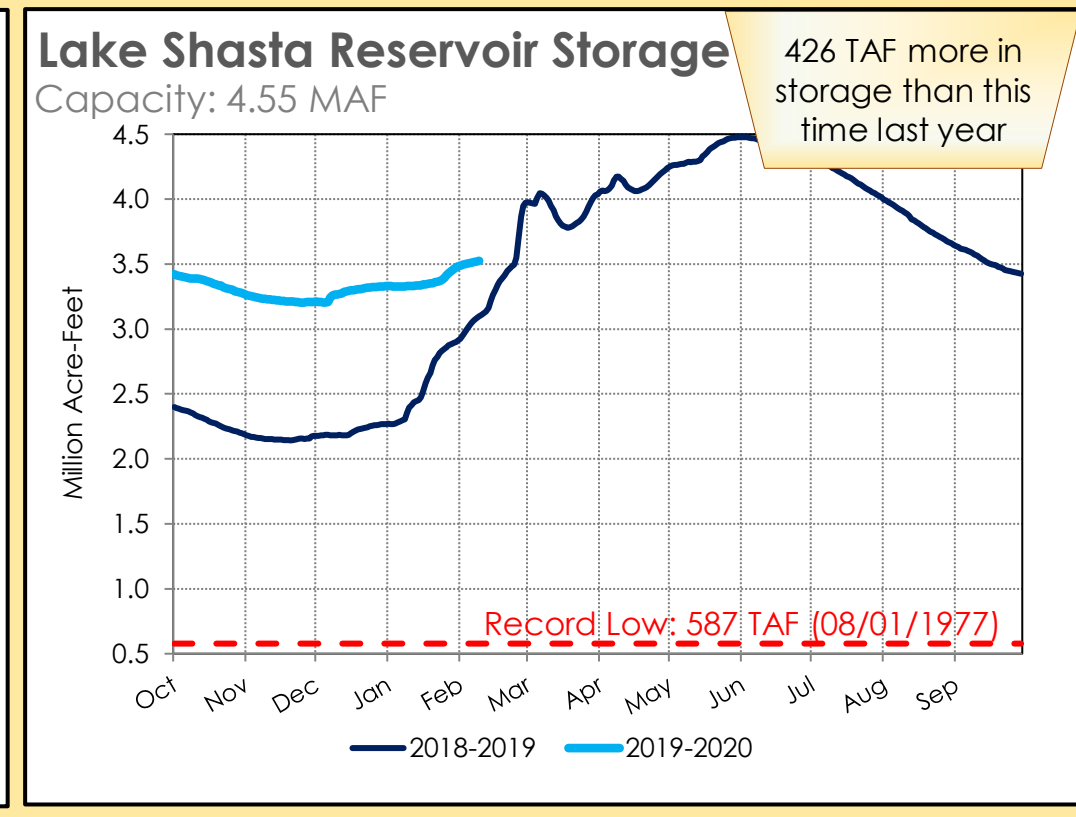
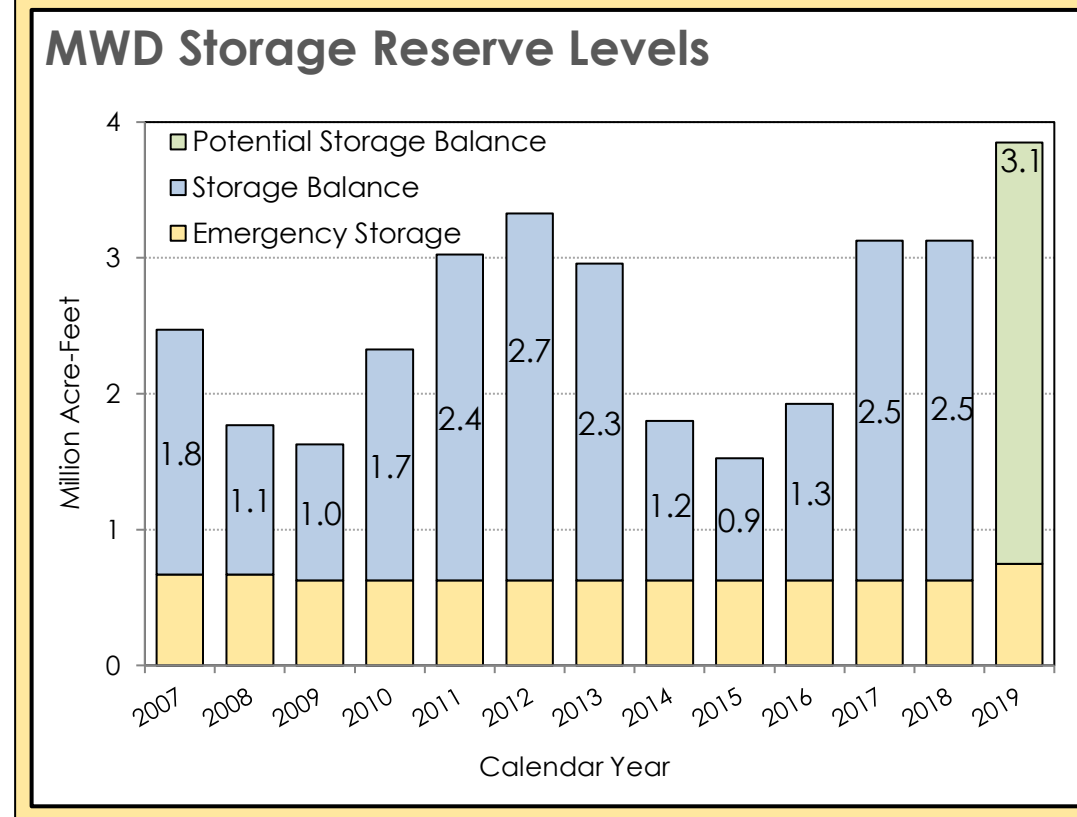
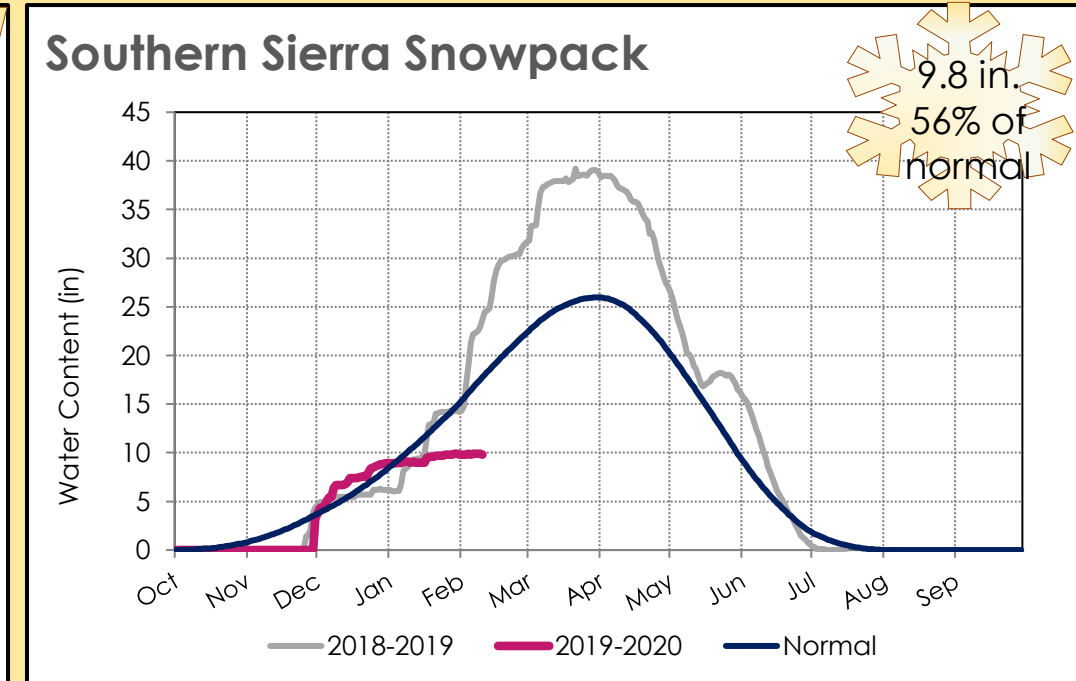
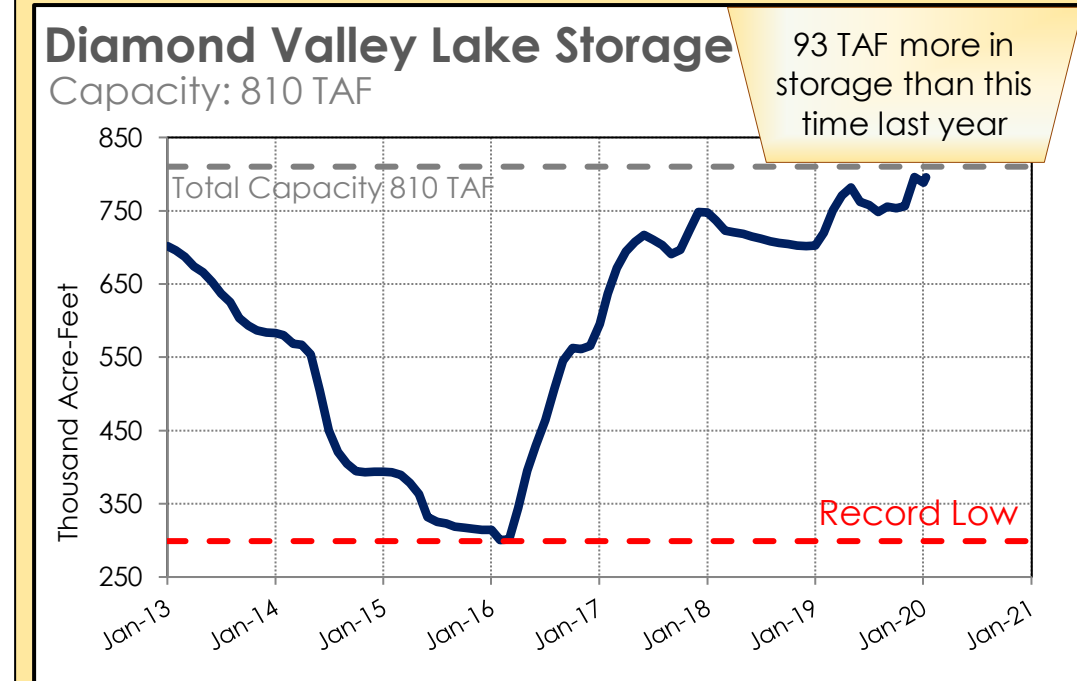
MWD water quality goals meet or exceed all State and Federal regulations.

WATER QUALITY INFORMATION LINE: (800) 354-4420
VISIT MWD ON THE WEB AT <http://www.mwdh2o.com>



Highlights

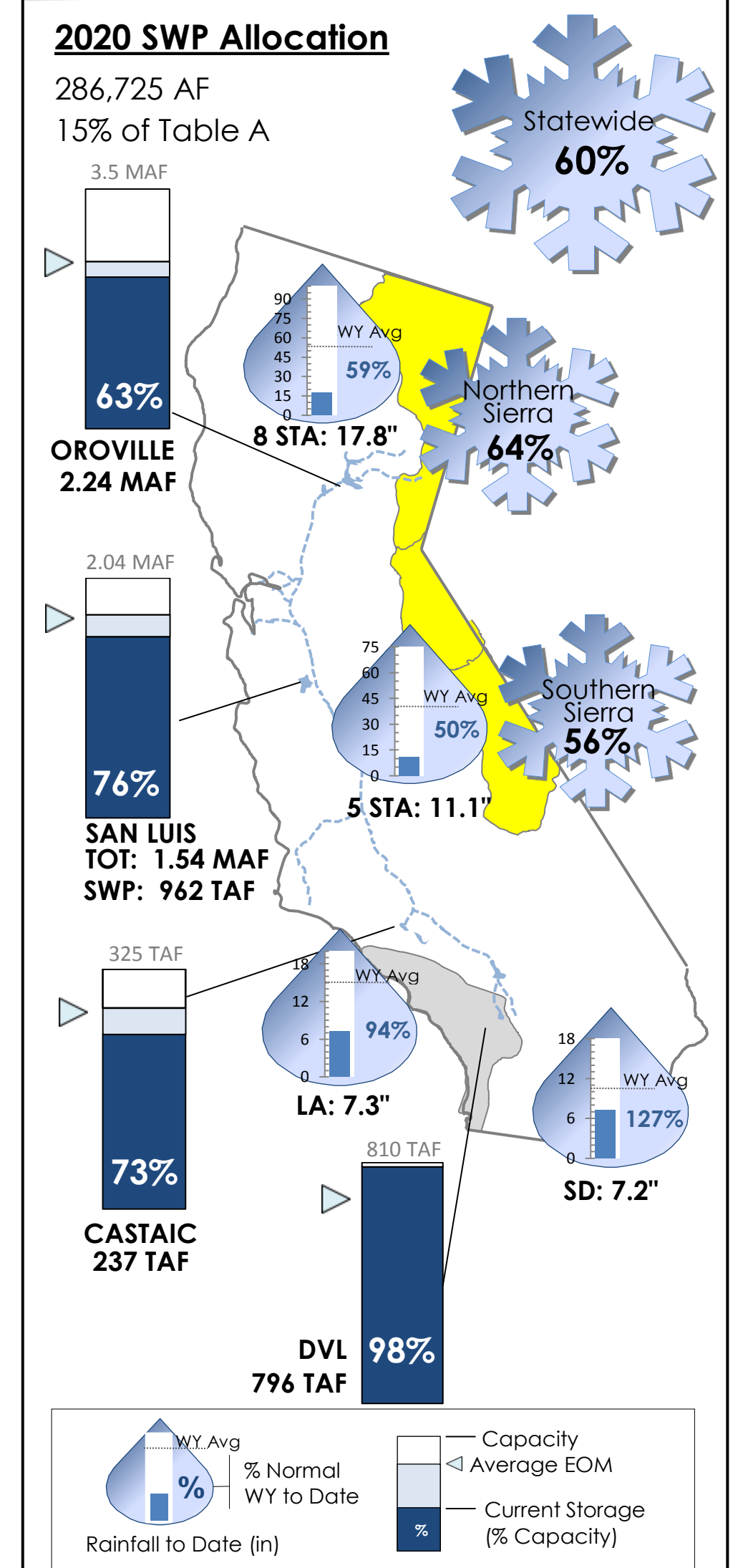
- Precipitation at the 8-Station is at 59% of normal
- Snow in the Northern Sierra is at 64% of normal
- Precipitation and snow in the Upper Colorado River Basin are respectively at 96% and 117% of normal



This report is produced by the Water Resource Management Group and contains information from various federal, state, and local agencies. The Metropolitan Water District of Southern California cannot guarantee the accuracy or completeness of this information. Readers should refer to the relevant state, federal, and local agencies for additional or for the most up to date water supply information. Reservoirs, lakes, aqueducts, maps, watersheds, and all other visual representations on this report are not drawn to scale.

<http://www.mwdh2o.com/WSCR>

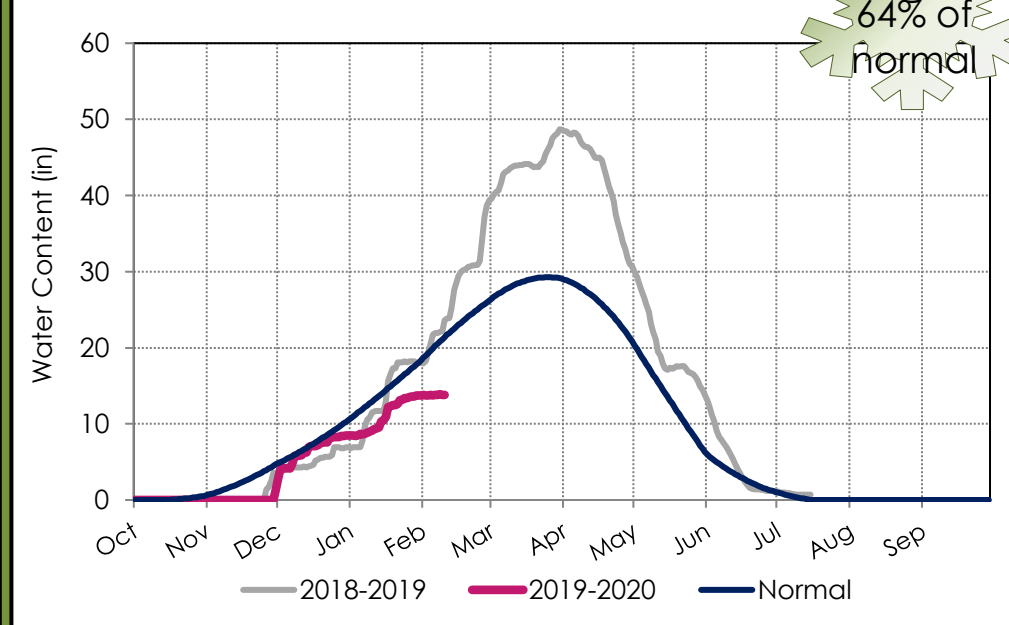
This report is best printed double sided on legal size paper (8.5" x 14") and folded in quarters. Questions? Email mferreira@mwdh2o.com



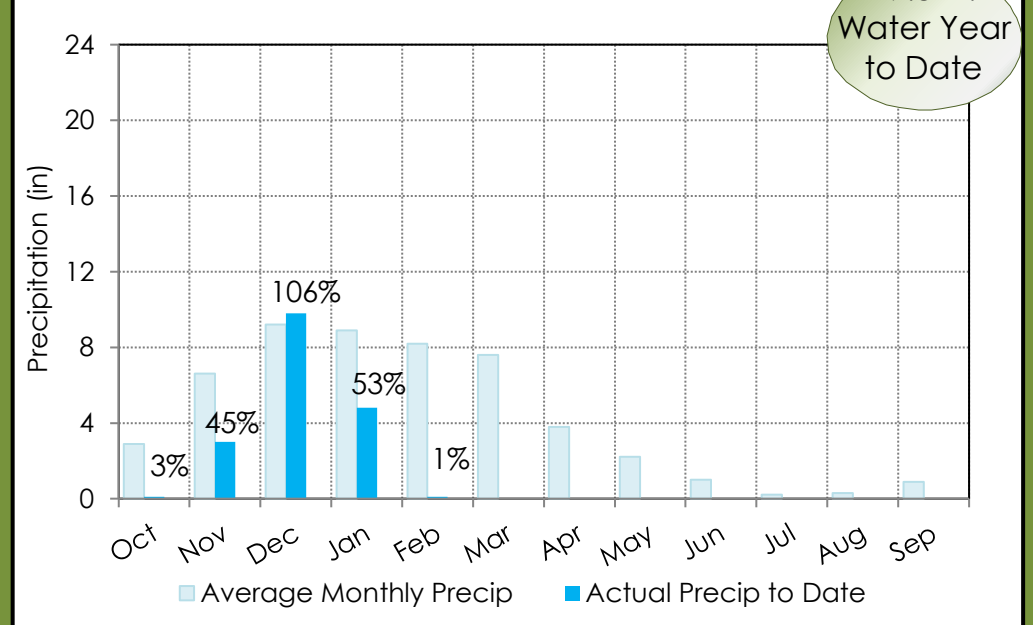
As of: 02/09/2020

State Water Project Resources

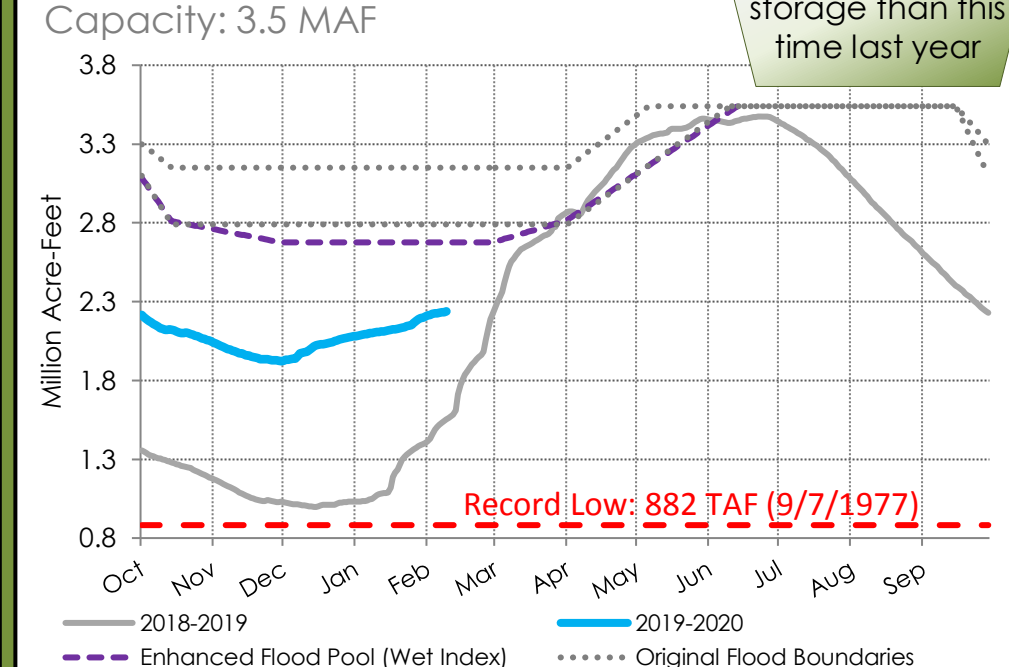
Northern Sierra Snowpack



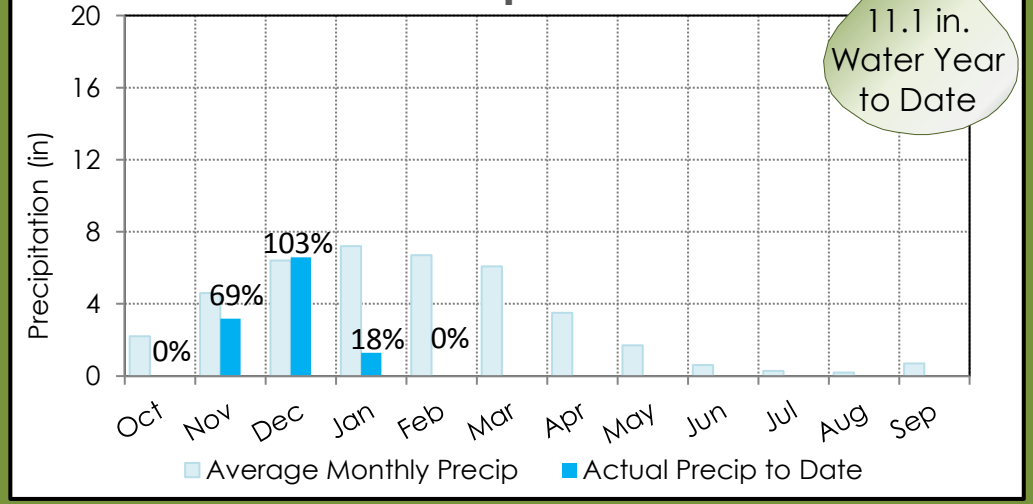
8 Station Index Precip



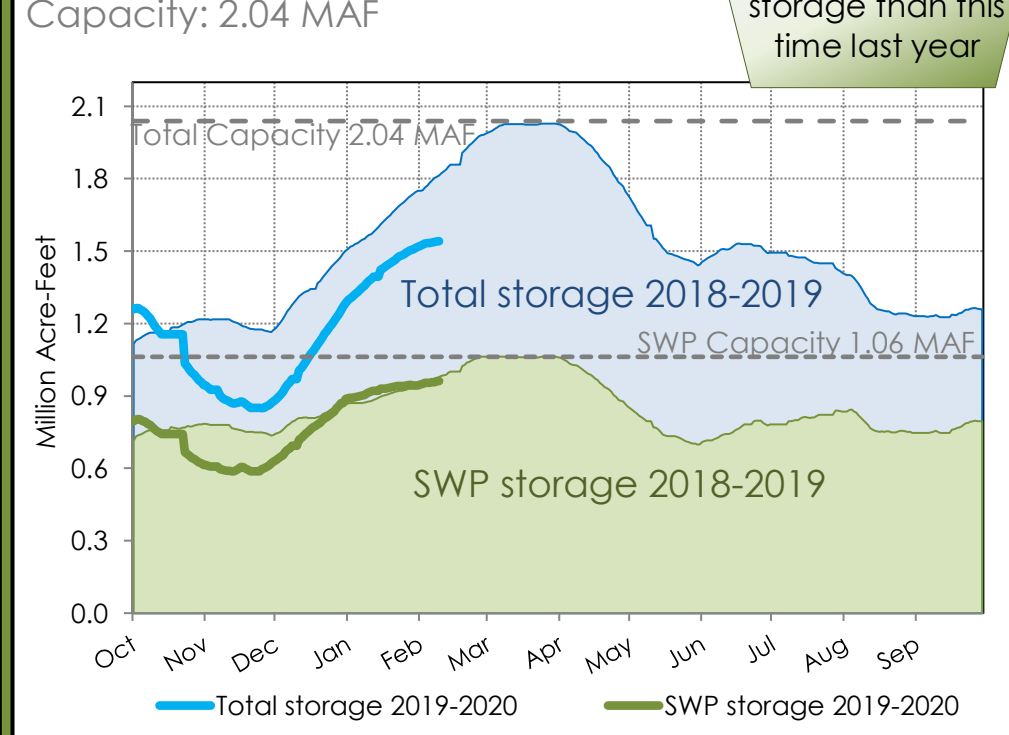
Oroville Reservoir Storage



5 Station Index Precip



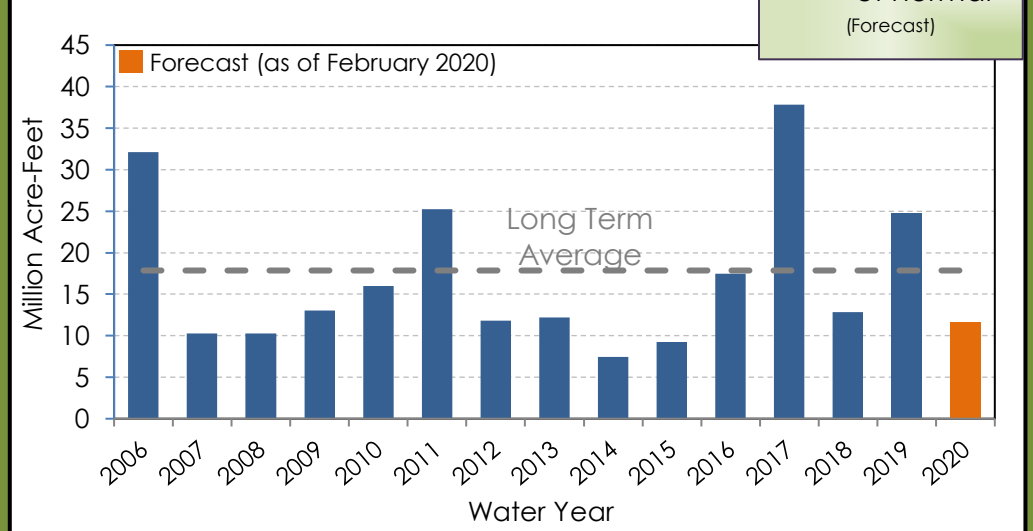
San Luis Reservoir Storage



Other SWP Contract Supplies for 2020 (AF)

| | |
|-------------|-----|
| Article 21 | TBD |
| Carryover | TBD |
| Article 14b | TBD |

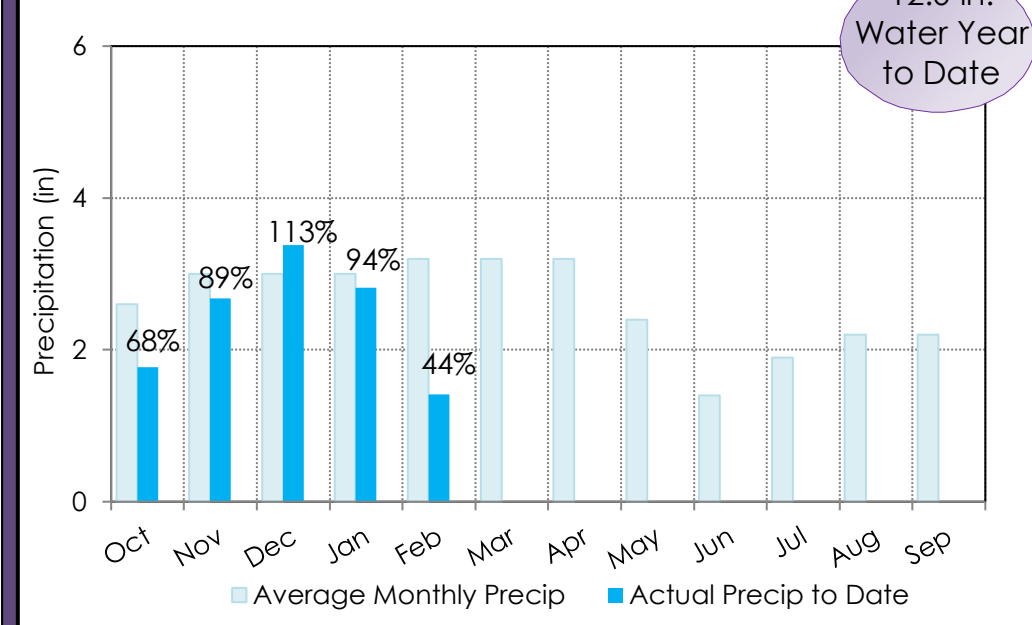
Sacramento River Runoff



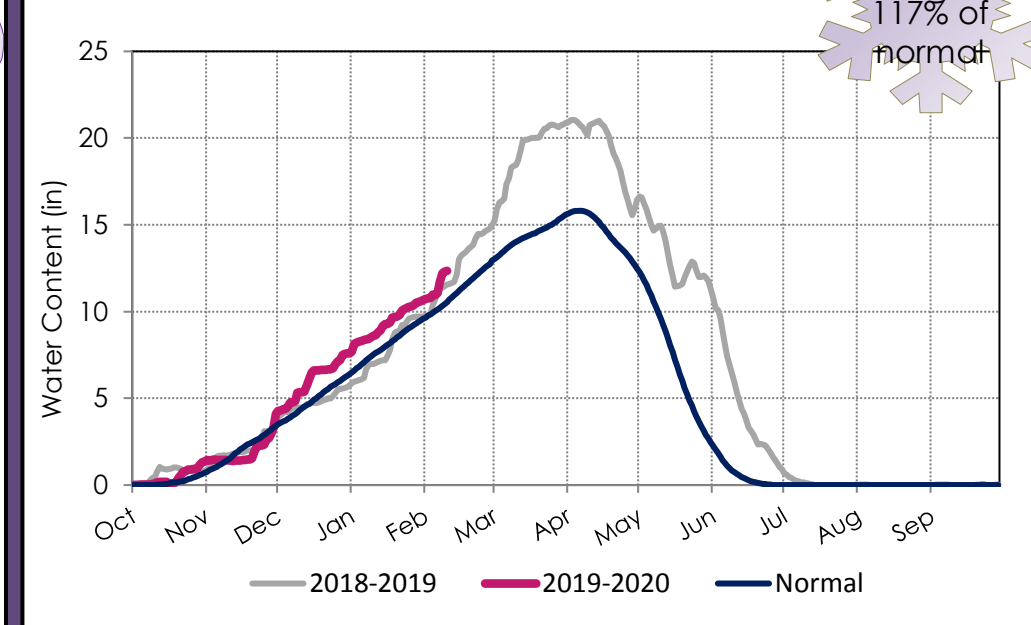
Colorado River Resources

As of: 02/09/2020

Upper Colorado Basin Precip



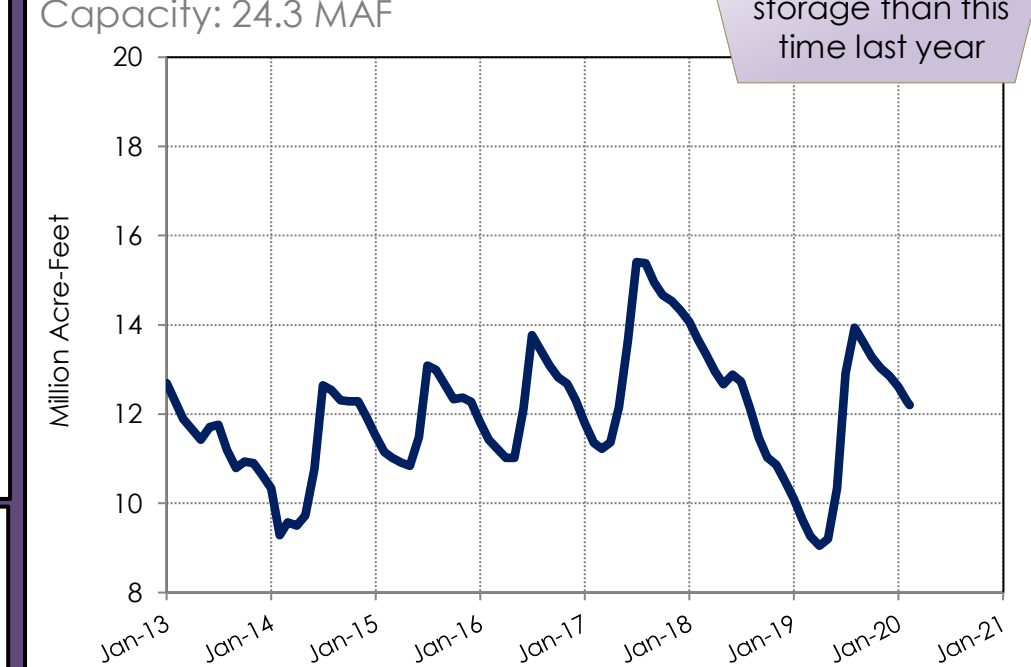
Upper Colorado Basin Snowpack



2020 Colorado River Ag Use

Chart Pending

Lake Powell Storage

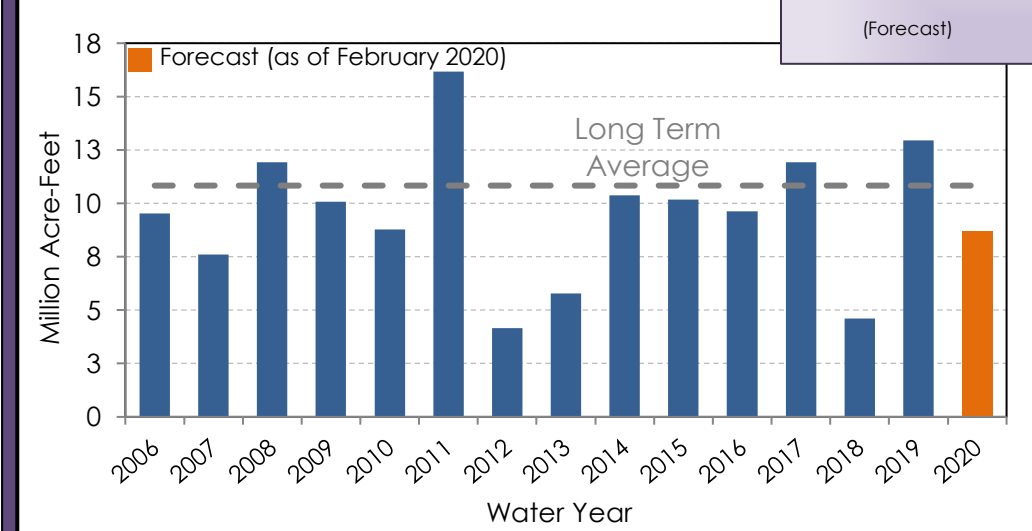


Lake Mead Shortage/Surplus Outlook

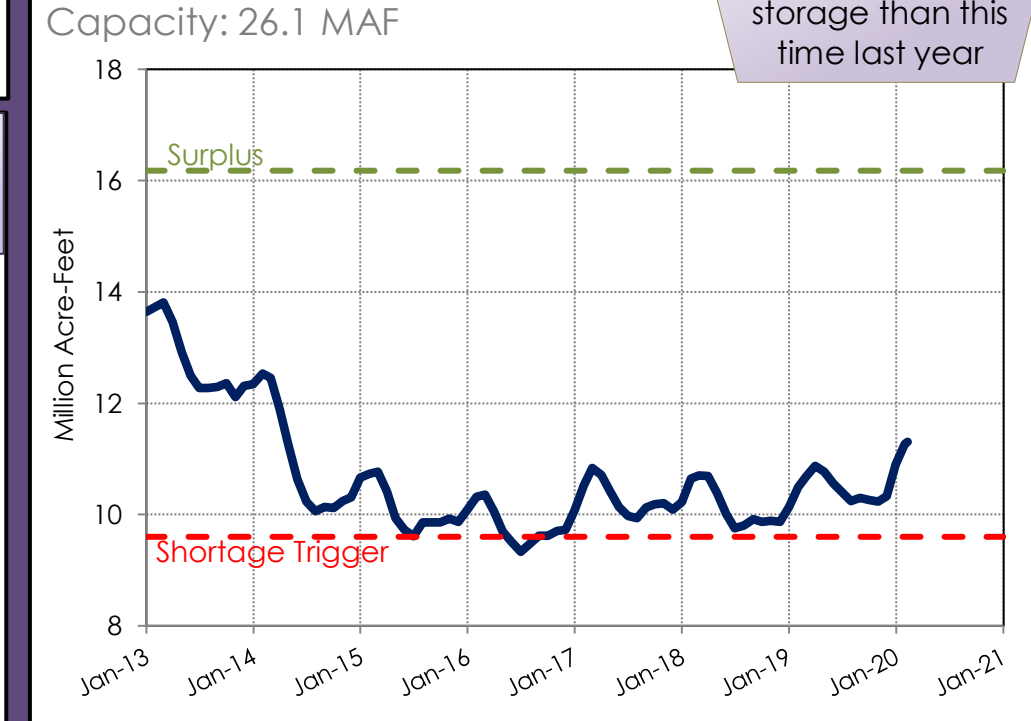
| | 2020 | 2021 | 2022 | 2023 | 2024 |
|----------|------|------|------|------|------|
| Shortage | 0% | 4% | 24% | 33% | 37% |
| Surplus | 0% | 0% | 7% | 12% | 19% |

Likelihood based on results from the August 2019 CRSS model run. Includes DCP Contributions. (Revised December 2019).

Powell Unregulated Inflow



Lake Mead Storage



(WRP) Tertiary Treatment Plant

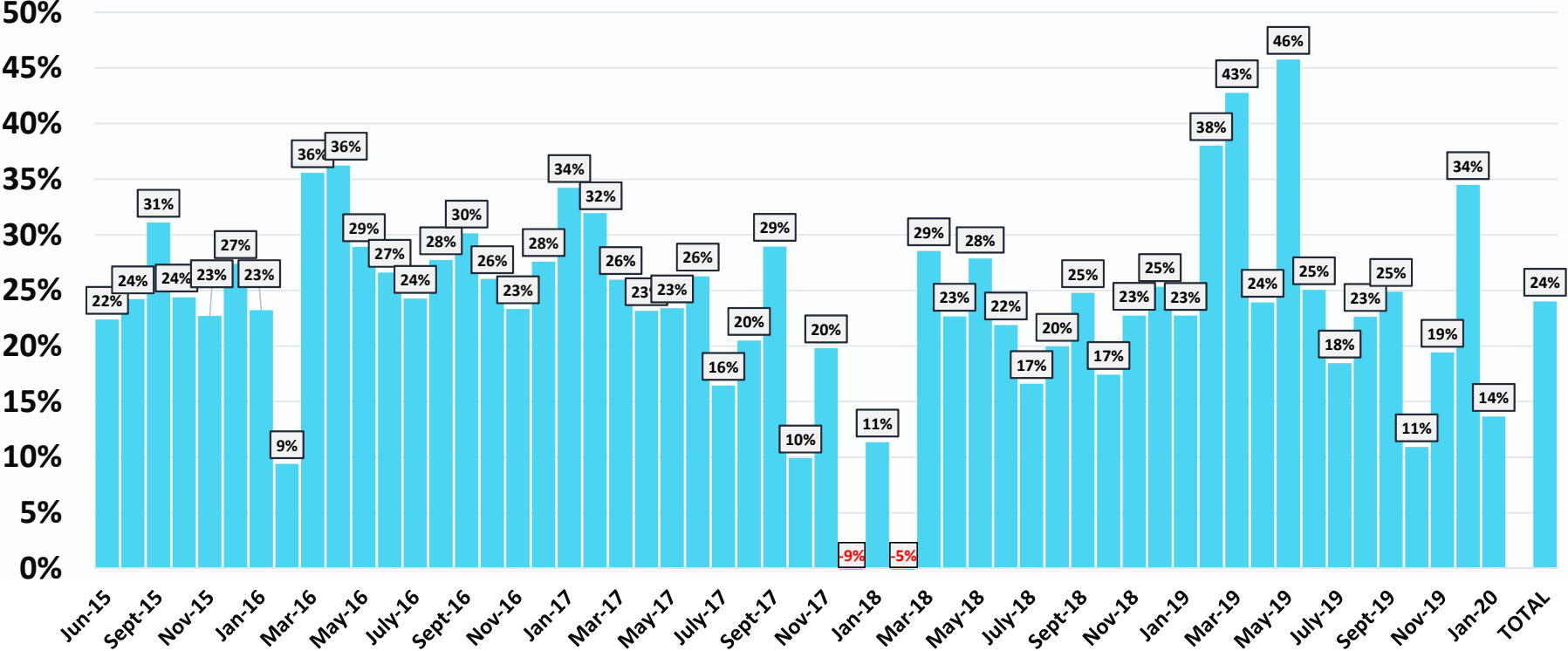
Jan.20

Total Recycled Water Production

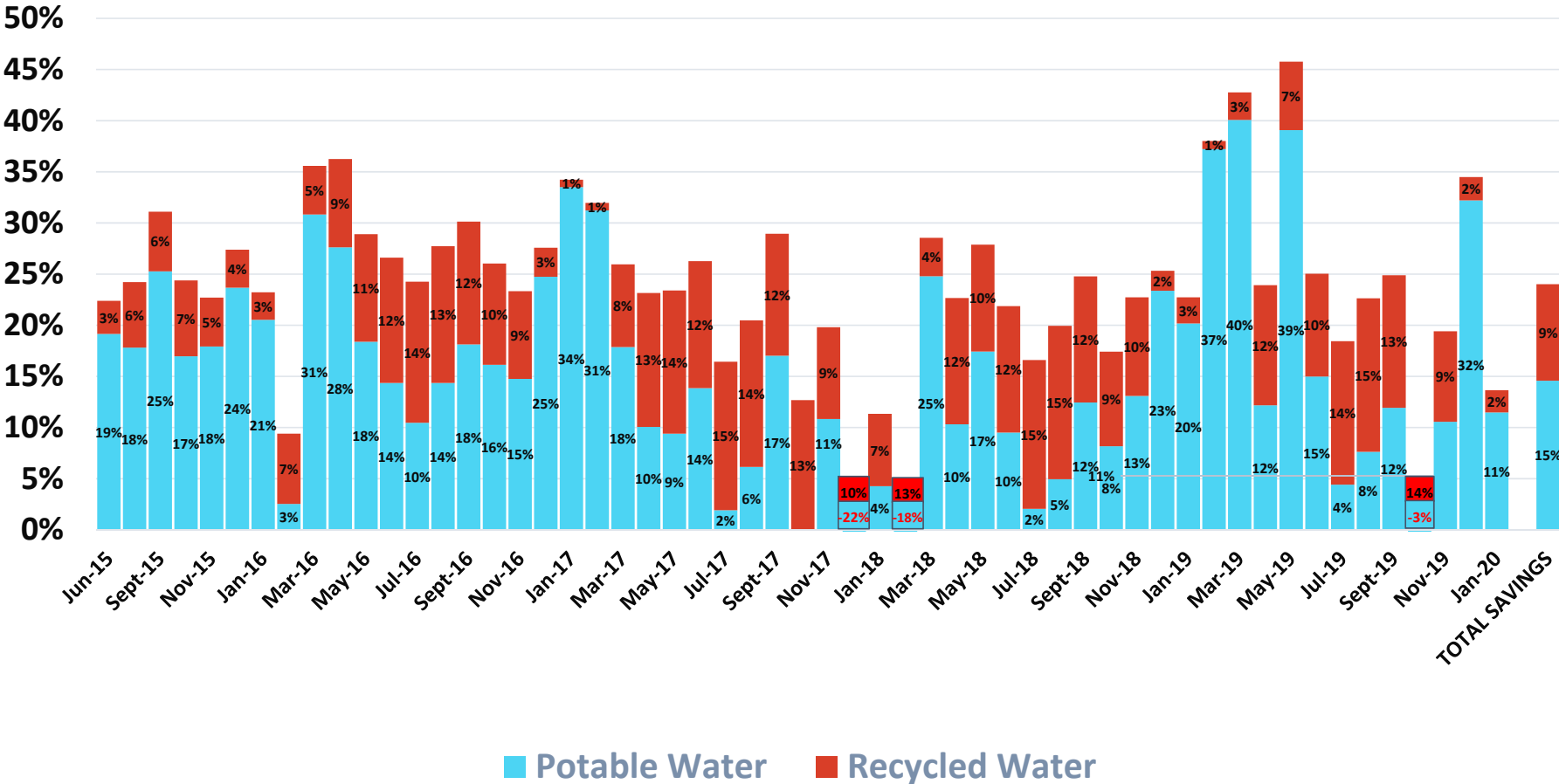
| Flow, Units | G.C. Irrigation | Main Distribution | WRP Irrigation/Utility | Total, Production |
|------------------|-----------------|-------------------|------------------------|-------------------|
| Avg. Daily Q MGD | 0.066 | 0.124 | 0.088 | 0.278 |
| Total Q MG | 2.059 | 3.833 | 2.720 | 8.612 |
| Total Acre Feet | 6.319 | 11.763 | 8.347 | 26.429 |

*No Potable Water Was Used to Supplement the Recycled Water Total Production this Month.

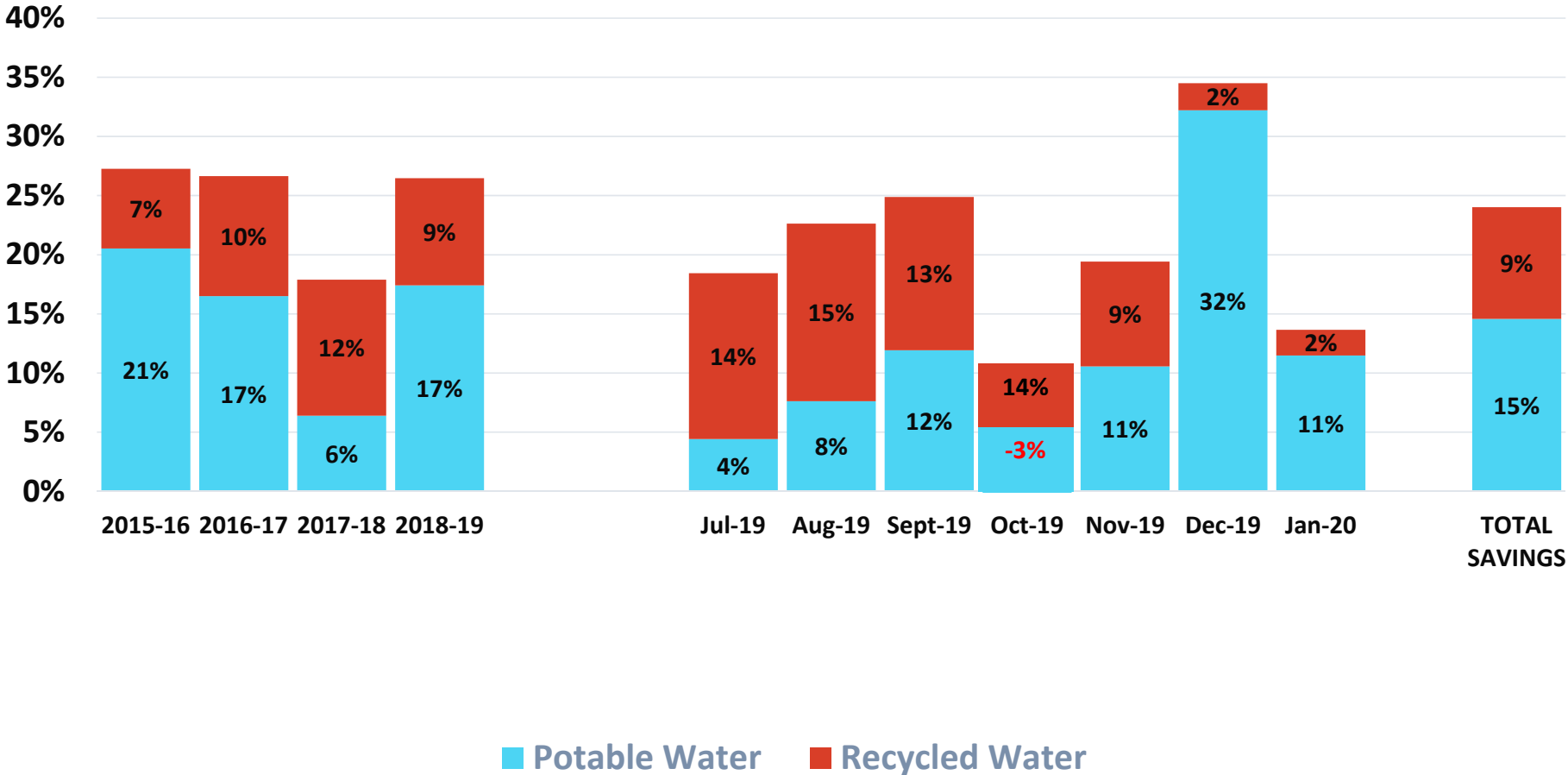
ETWD WATER SAVINGS COMPARED TO 2013



ETWD WATER SAVINGS COMPARED TO 2013



ETWD WATER SAVINGS COMPARED TO 2013





Memorandum

DATE: February 7, 2020
TO: Member Agencies – MWD OC Division Five
FROM: Sat Tamaribuchi, Director – Division Five
SUBJECT: Monthly Water Usage Data, Tier 2 Projection & Water Supply Information

The attached figures show the recent trend of water consumption in Orange County (OC), an estimate of Imported Water Sales for MWD OC, and selected water supply information.

- OC Water Usage, Monthly by Supply **OCWD Groundwater was the main supply in December.**
- OC Water Usage, Monthly, Comparison to Previous Years Water usage in **December 2019 was below average compared to the last 5 years.** We are projecting a slight increase in overall water usage compared to FY 2018-19. It has been 34 months since all mandatory water restrictions were lifted by the California State Water Resources Control Board.
- Historical OC Water Consumption Orange County M & I water consumption is estimated to be **524,000 AF in FY 2019-20** (this includes ~15 TAF of agricultural usage and non-retail water agency usage). This is about **8,000 AF more than FY 2018-19** and is about **17,000 AF less than FY 2017-18**. Water usage per person is projected to be slightly higher in **FY 2019-20 for Orange County at 143 gallons per day** (This includes recycled water). Although OC population has increased 20% over the past two decades, water usage has not increased, on average. A long-term decrease in per-capita water usage is attributed mostly to Water Use Efficiency (water conservation) efforts. **O.C. Water Usage for the last four Fiscal Years is the lowest since the 1982-83 Fiscal Year** (FY 1982-83 was the third wettest year on record).

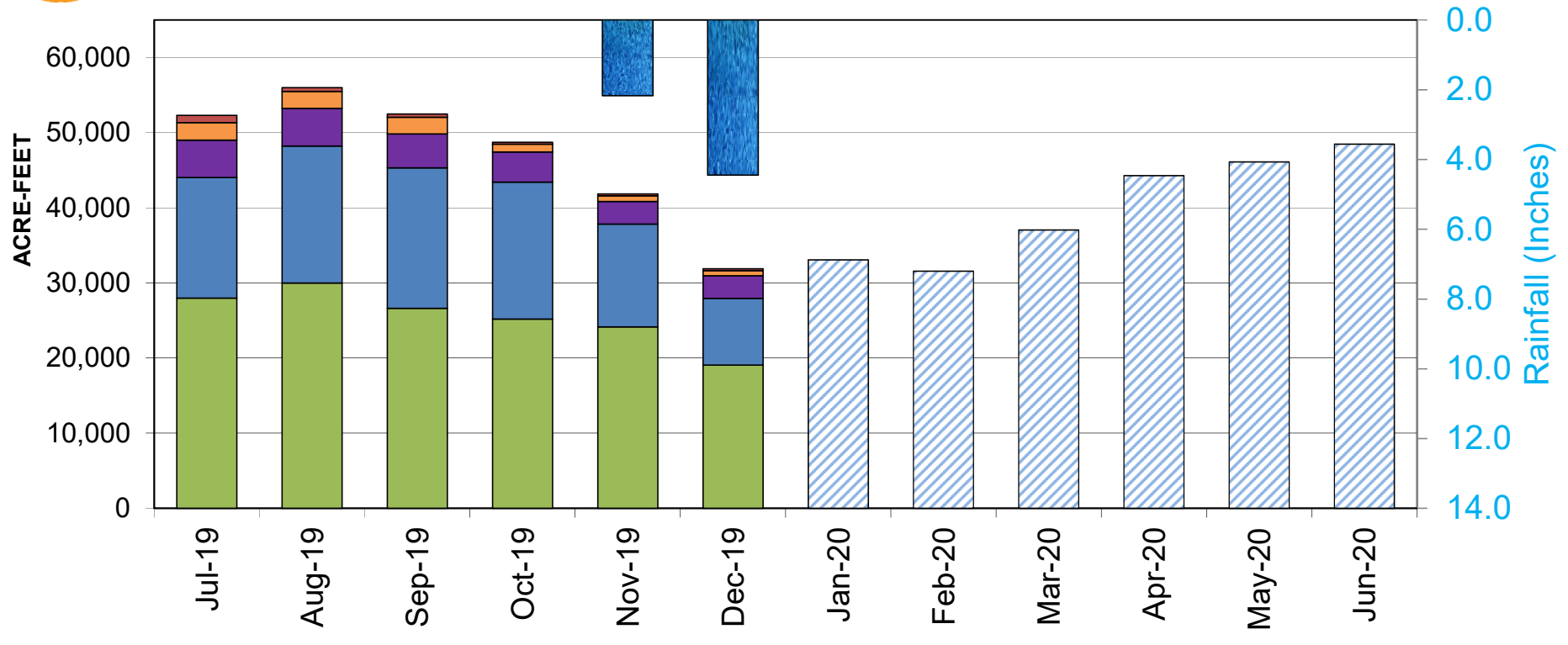
Water Supply Information Includes data on Rainfall in OC; the OCWD Basin overdraft; Northern California and Colorado River Basin hydrologic data; the State Water Project (SWP) Allocation, and regional storage volumes. The data have implications for the magnitude of supplies from the three watersheds that are the principal sources of water for OC. Note that a hydrologic year is Oct. 1st through Sept. 30th.

- Orange County's accumulated precipitation through **early February** was average for this period. Water year to date rainfall in Orange County is **6.75 inches**, which is **99% of normal**.

- Northern California accumulated precipitation through **early February** was **64% of normal for this period**. Water Year 2019 was 137% of normal while water year 2018 was 82% of normal. The **Northern California snowpack** was **73% of normal** as of February 3rd. **As of late January, 0.00%** of California is experiencing **moderate drought conditions** while 34.28% of the state is experiencing abnormally dry conditions. The State Water Project Contractors Table A Allocation was increased to 15% in January 2020.
- Colorado River Basin accumulated precipitation through **early February** was **92% of normal** for this period. The **Upper Colorado Basin snowpack** was **104% of normal** as of February 3rd. **Lake Mead and Lake Powell** combined have about **68% of their average storage volume** for this time of year and are at **46.8% of their total capacity**. If Lake Mead's **level falls below a "trigger" limit 1,075 ft. at the end of a calendar year**, then a shortage will be declared by the US Bureau of Reclamation (USBR), impacting Colorado River water deliveries to the Lower Basin states. As of late December, Lake Mead levels were **19.79' above the "trigger" limit**. The USBR predicts that the start of 2020 will not hit the "trigger" level but there is **a 4% chance that the trigger level will be hit in 2021 and a 24% chance in 2022**.



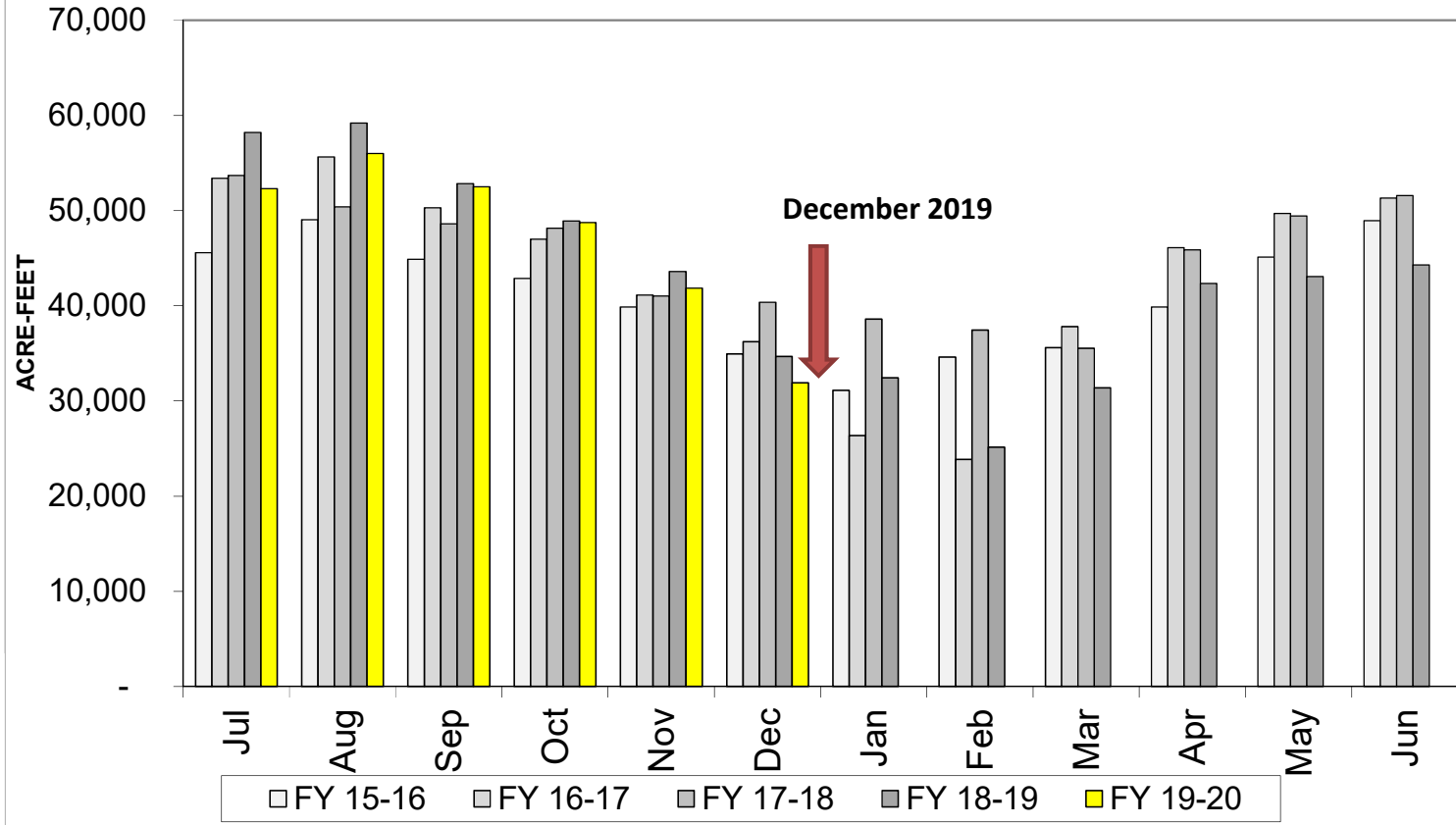
Fig. 1 OC Water Usage, Monthly by Supply with projection to end of fiscal year



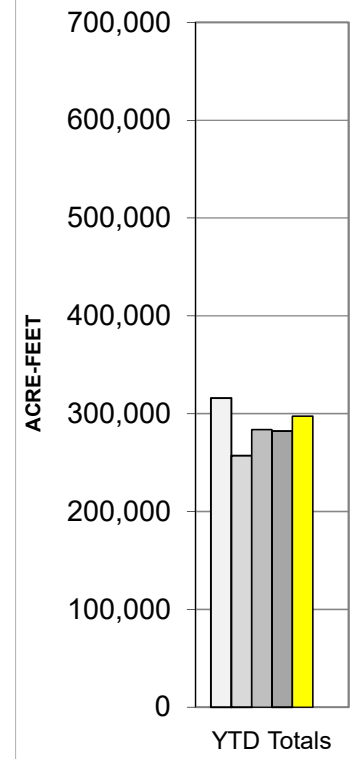
- [1] Imported water for consumptive use. Includes "In-Lieu" deliveries and CUP water extraction. Excludes "Direct Replenishment" deliveries of spreading water and deliveries into Irvine Lake.
- [2] GW for consumptive use only. Excludes In-Lieu water deliveries and CUP water extraction that are counted with Import. BPP in FY '19-20 is 77%.
- [3] MWD OC's estimate of monthly demand is based on the projected 5 Year historical retail water demand and historical monthly demand patterns.
- [4] Total water usage includes IRWD groundwater agricultural use and usage by non-retail water agencies.



Fig. 2 OC Monthly Water Usage [1]: Comparison to Last 4 Fiscal Years



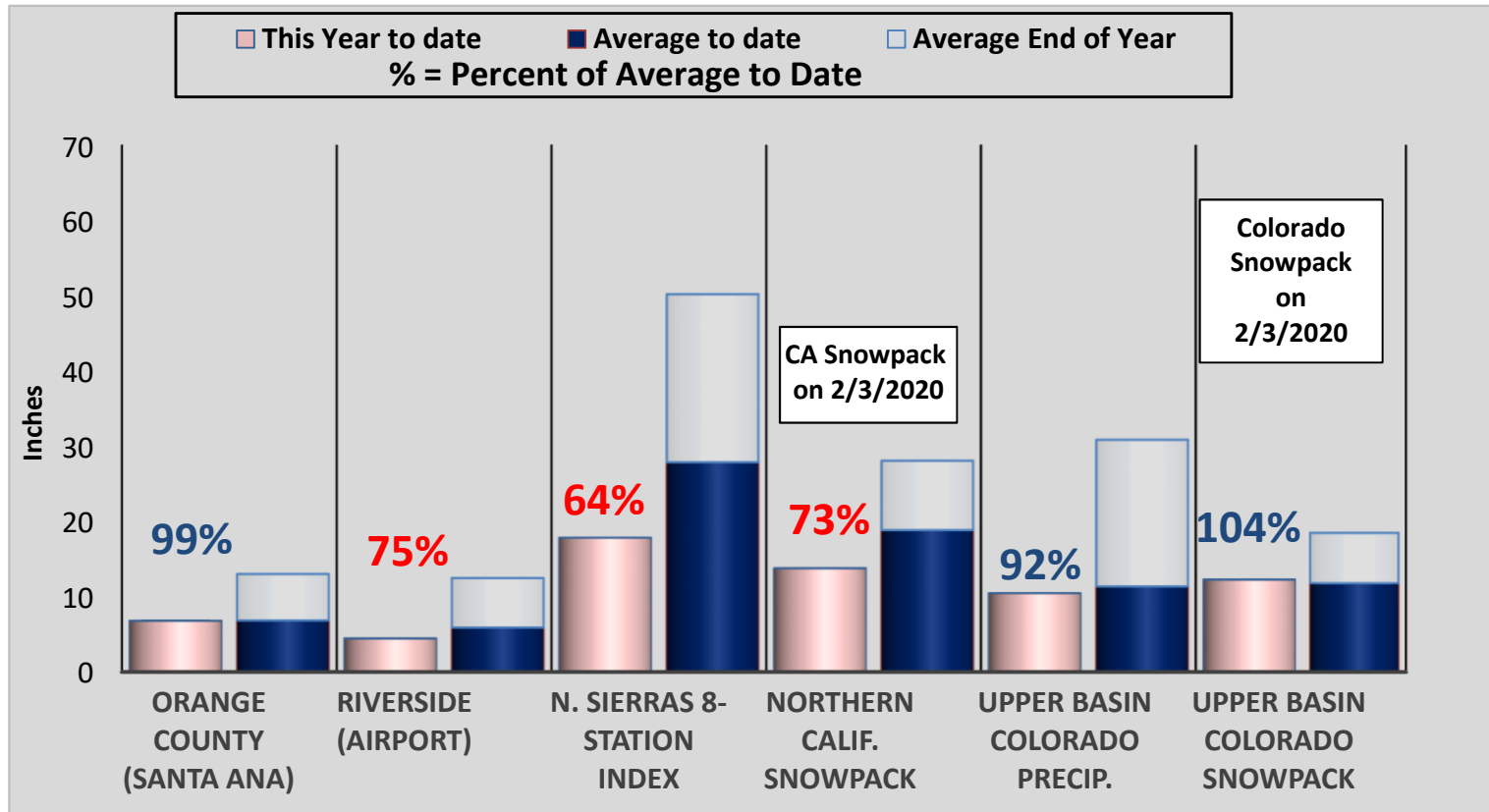
Partial Year Subtotals



[1] Sum of Imported water for consumptive use (includes "In-Lieu" deliveries; excludes "Direct Replenishment" and "Barrier Replenishment") and Local water for consumptive use (includes recycled and non-potable water and excludes GWRS production) Recent months numbers include some estimation.

Accumulated Precipitation

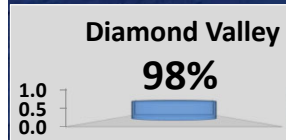
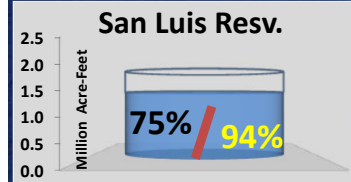
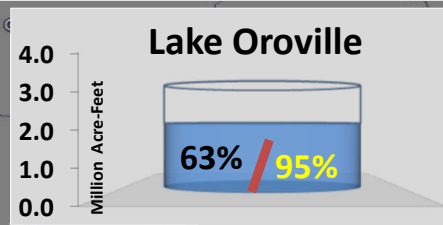
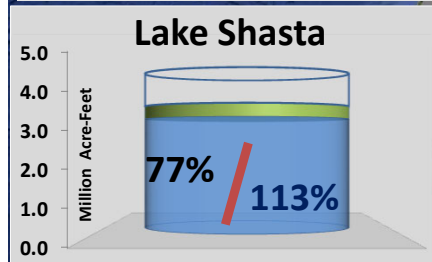
for the Oct.-Sep. water year, early February 2020



* The date of maximum snowpack accumulation (April 1st in Northern Calif. , April 15th in the Upper Colorado Basin) is used for year to year comparison.

State Water Project, Colorado River, and MWD Reservoir Storage

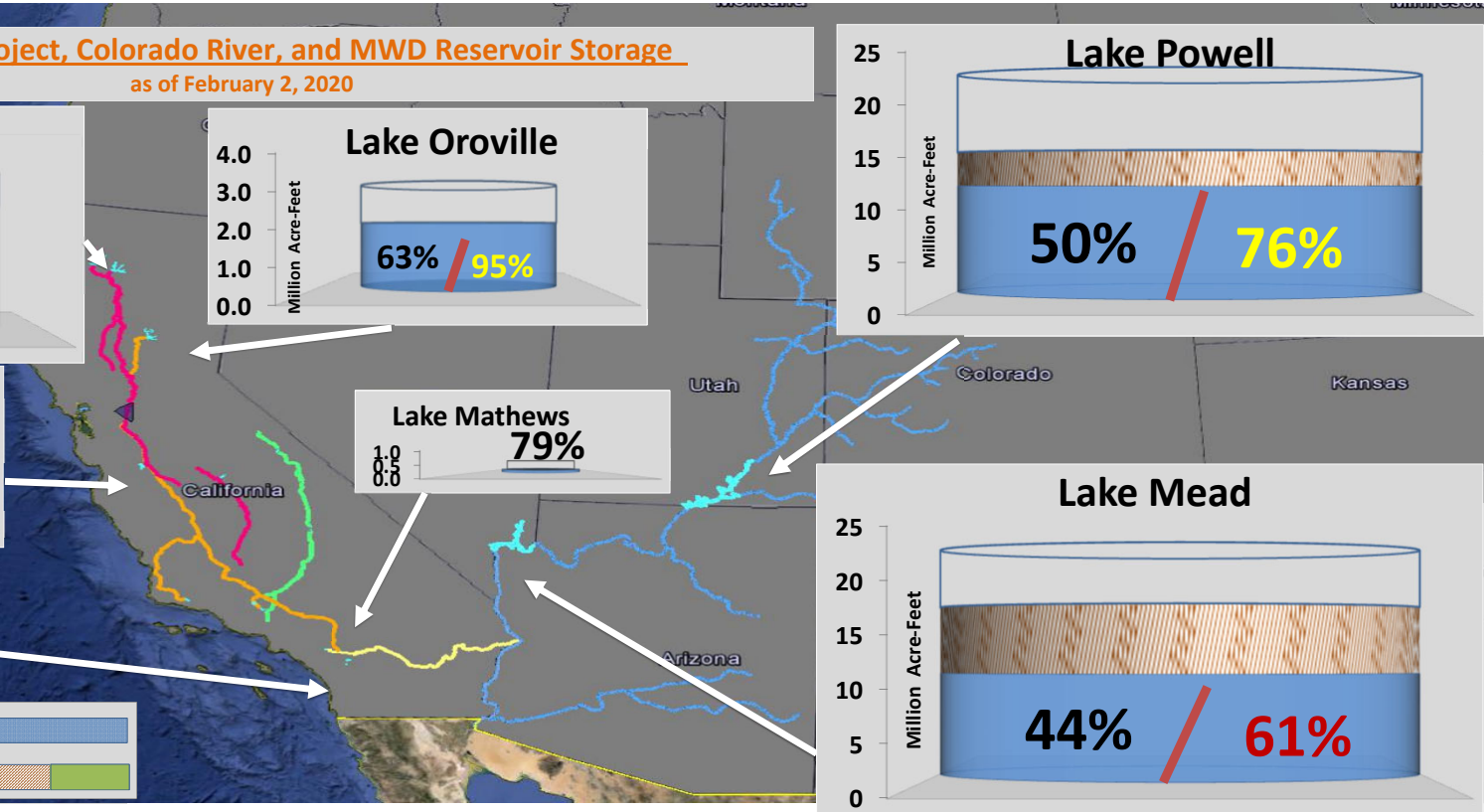
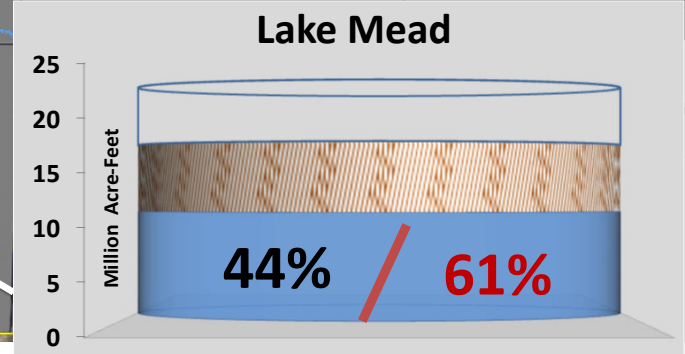
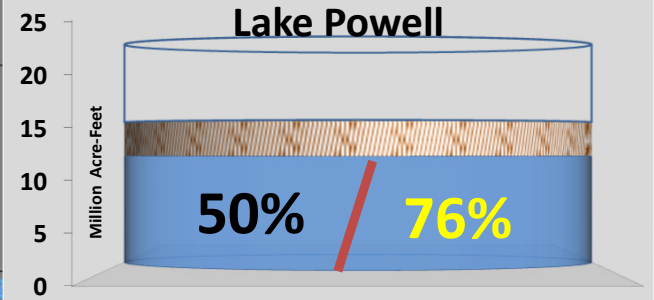
as of February 2, 2020



% of Capacity (Blue bar)
% of Historical Avg. (Green bar)

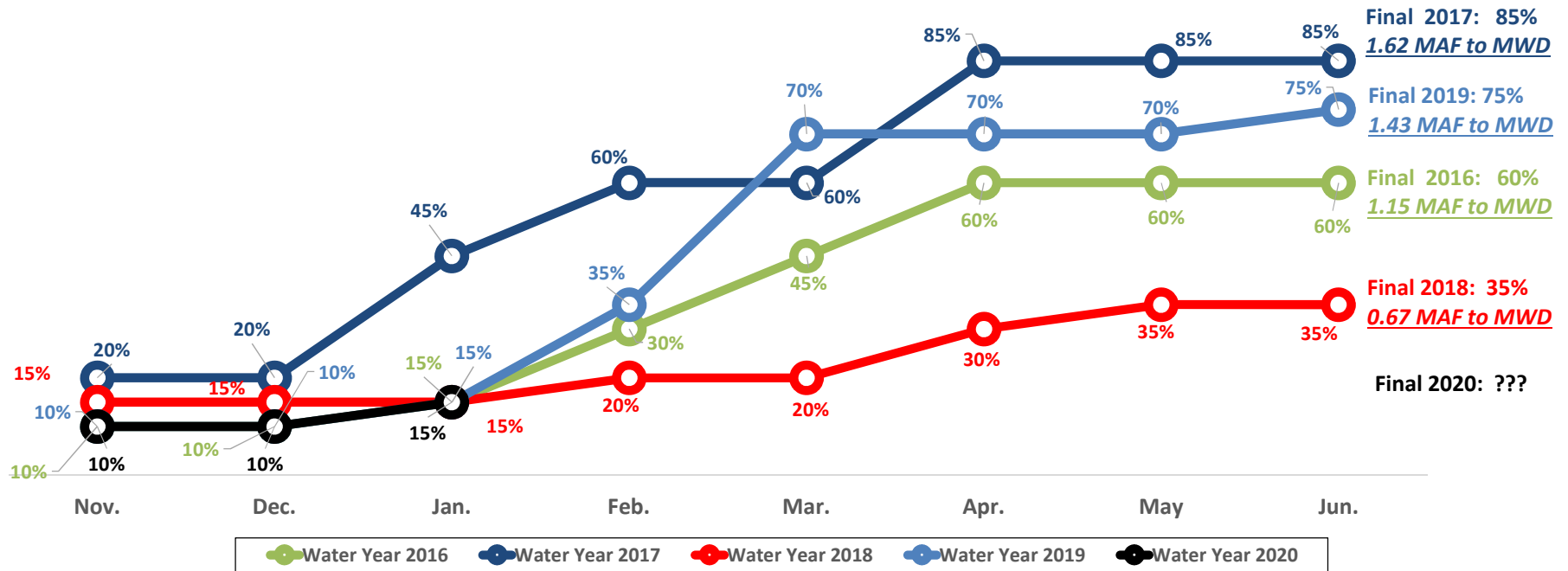


prepared by the Municipal Water District of Orange County
 *Number are Subject to Change

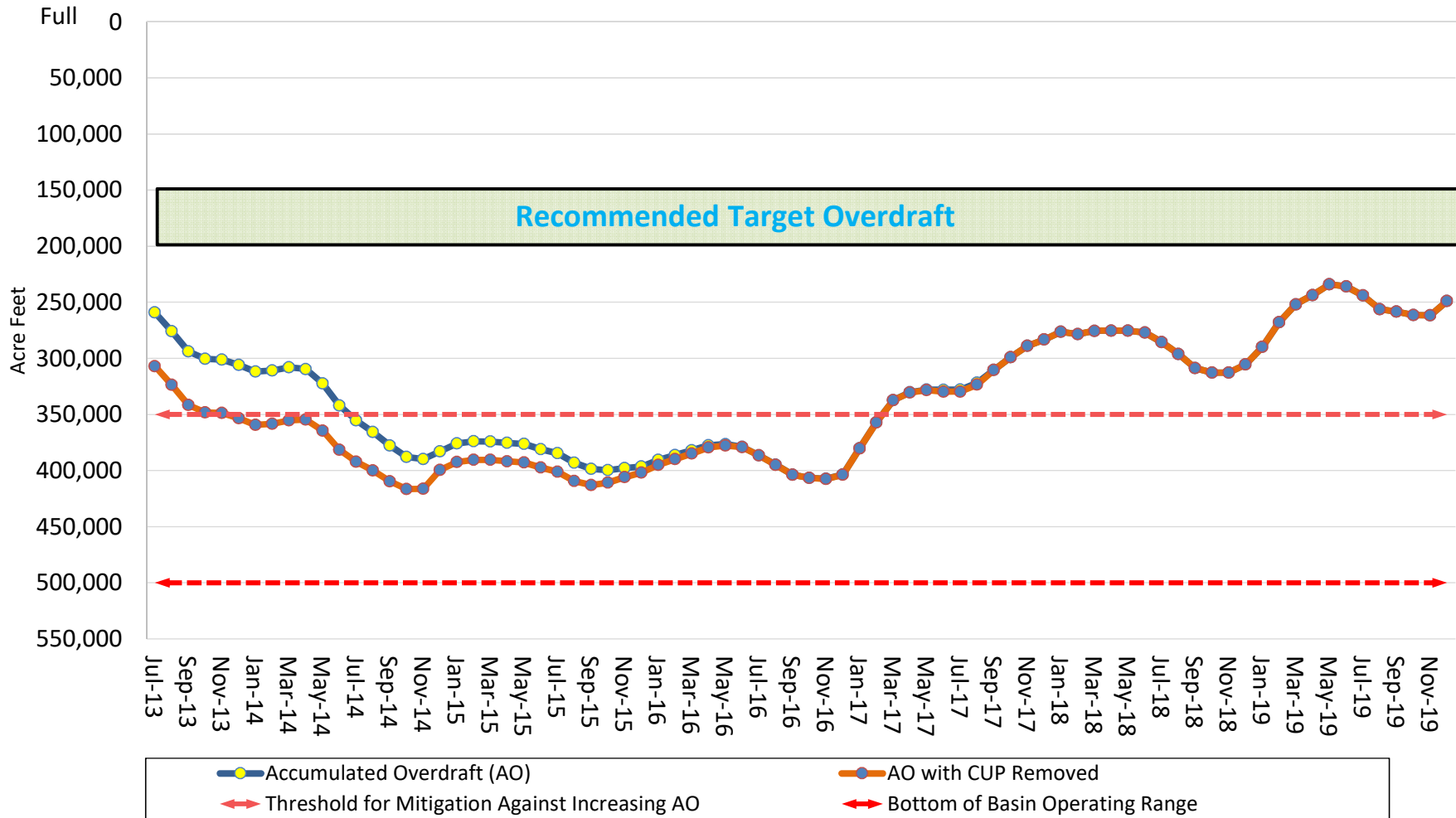


SWP TABLE A ALLOCATION

FOR STATE WATER PROJECT CONTRACTORS



Accumulated Overdraft of the OCWD Groundwater Basin as of December 2019

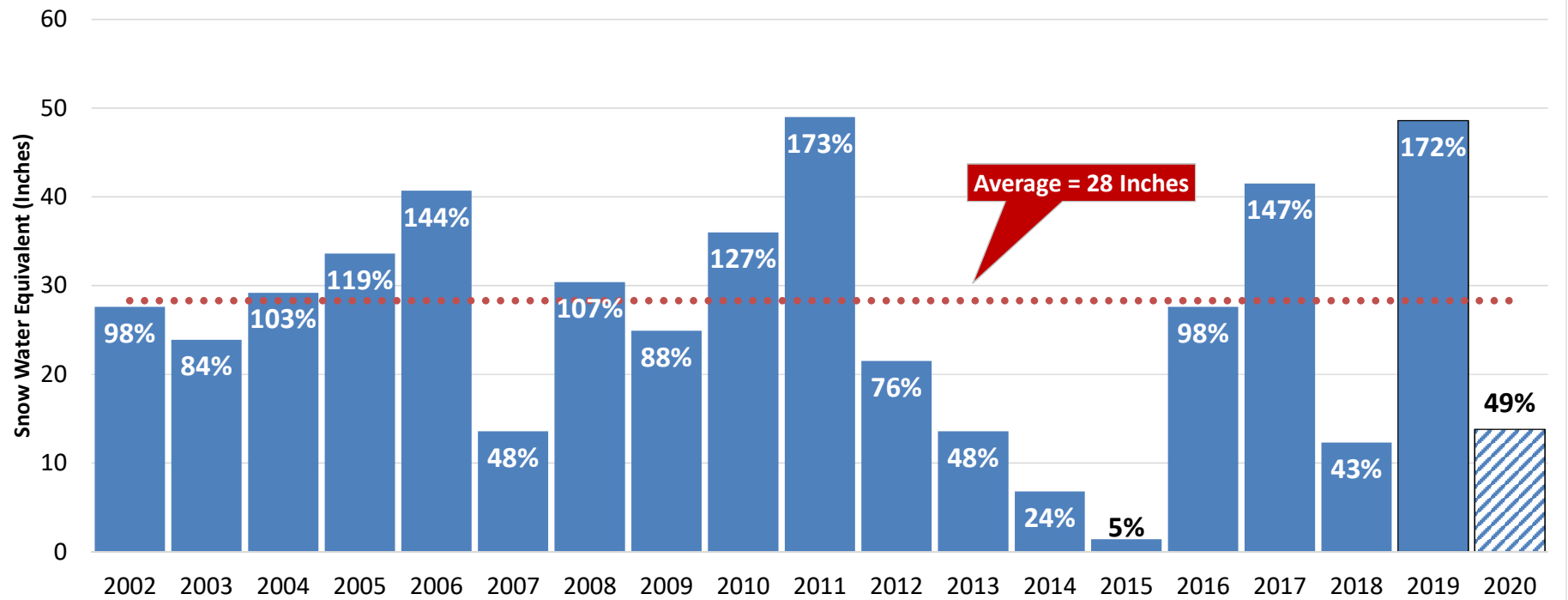


| | Jul-18 | Aug-18 | Sep-18 | Oct-18 | Nov-18 | Dec-18 | Jan-19 | Feb-19 | Mar-19 | Apr-19 | May-19 | Jun-19 |
|-----------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| AO (AF) | 285,494 | 296,106 | 308,748 | 312,758 | 312,782 | 305,367 | 289,860 | 267,879 | 251,876 | 243,604 | 234,048 | 236,005 |
| AO w/CUP removed (AF) | 285,494 | 296,106 | 308,748 | 312,758 | 312,782 | 305,367 | 289,860 | 267,879 | 251,876 | 243,604 | 234,048 | 236,005 |
| | Jul-19 | Aug-19 | Sep-19 | Oct-19 | Nov-19 | Dec-19 | Jan-20 | Feb-20 | Mar-20 | Apr-20 | May-20 | Jun-20 |
| AO (AF) | 244,057 | 256,239 | 258,445 | 261,464 | 261,645 | 248,909 | | | | | | |
| AO w/CUP removed (AF) | 244,057 | 256,239 | 258,446 | 261,464 | 261,645 | 248,909 | | | | | | |

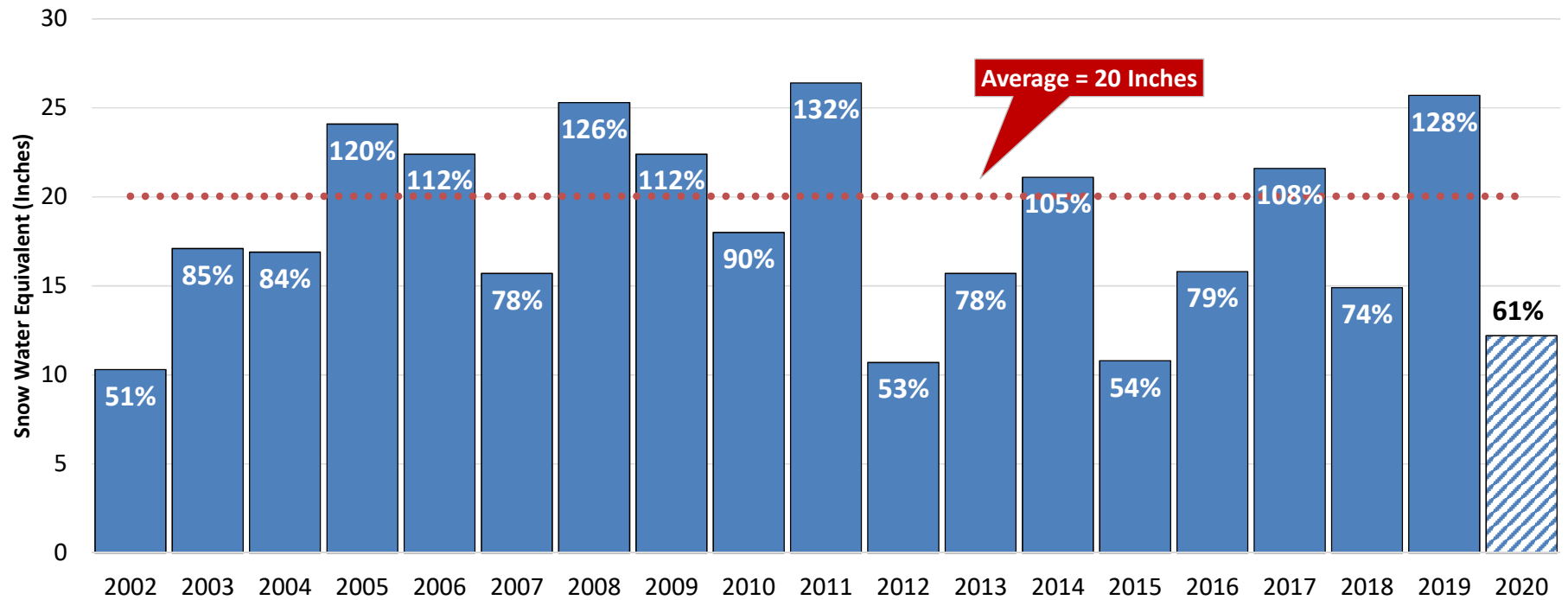
* Source ~ OCWD Monthly Board of Directors Packet



Historical Northern California April 1st Peak Snow Water Equivalent

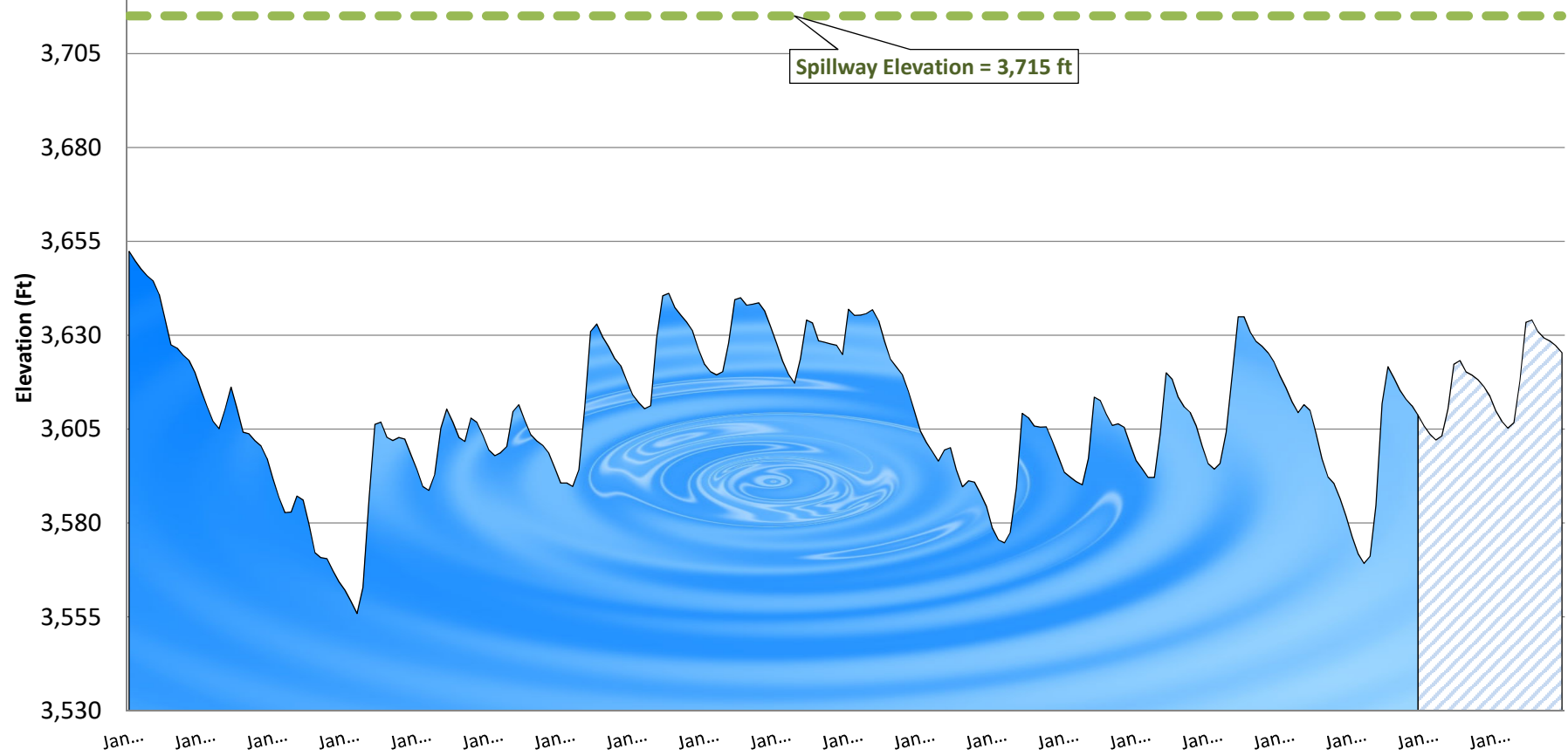


Historical Colorado Basin April 15th Peak Snow Water Equivalent



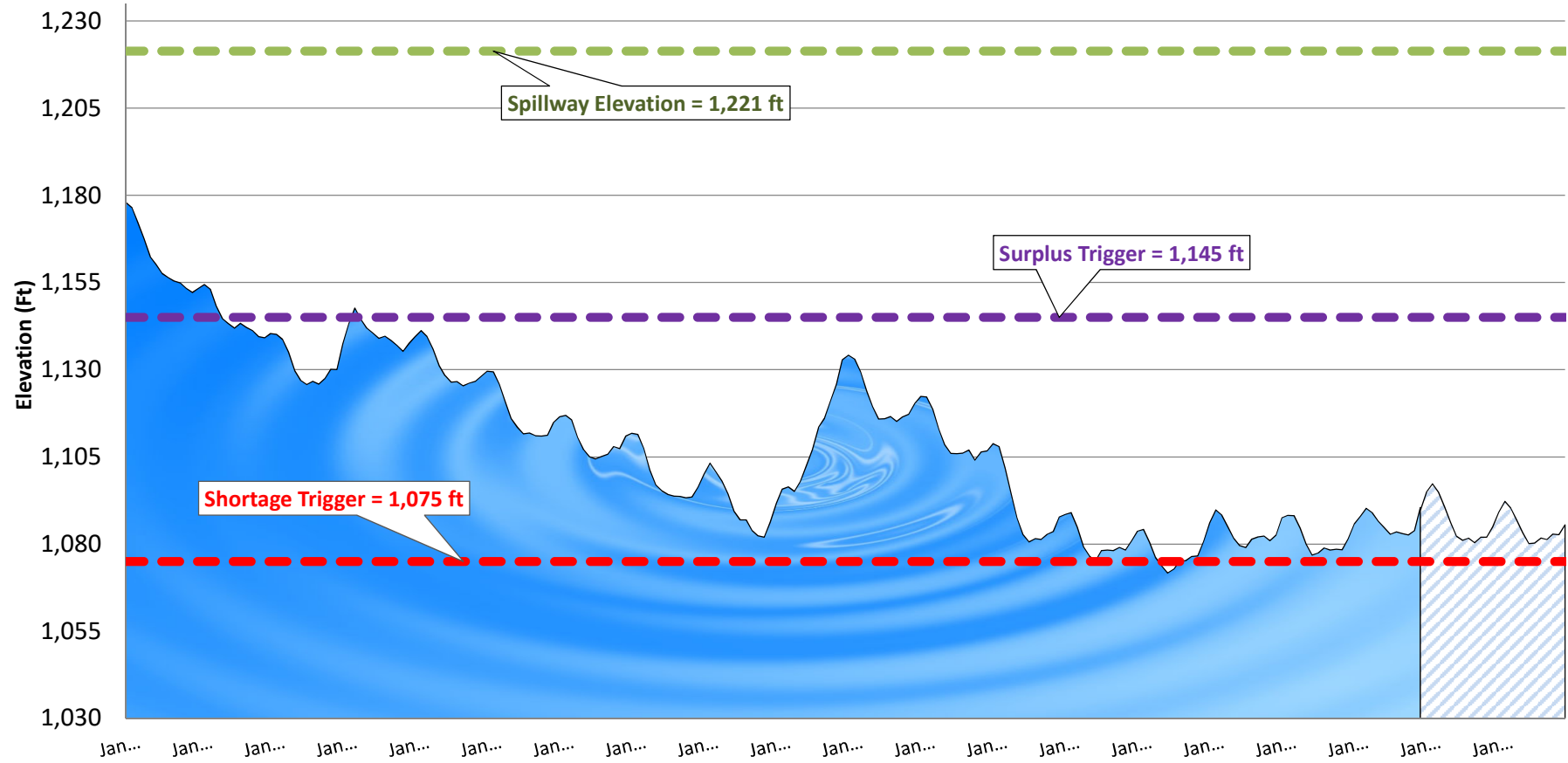
Lake Powell Levels: Historical and Projected projection per USBR 24-Month Study

■ Historical □ Projected

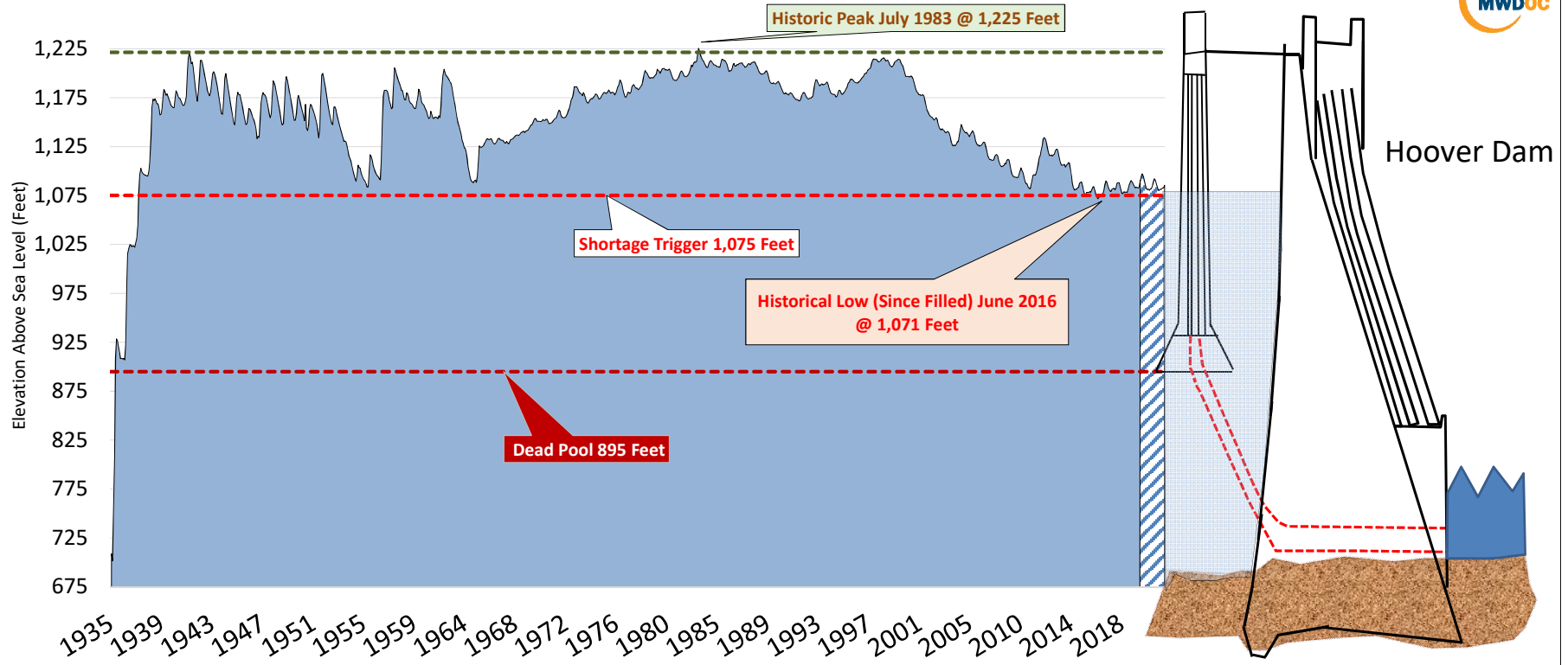


Lake Mead Levels: Historical and Projected projection per USBR 24-Month Study

■ Historical □ Projected



Lake Mead Historical Water Elevation Level



**EL TORO WATER DISTRICT
COLLECTION SYSTEM ACTIVITY REPORT**

MONTH ENDING:

January 2020

| ODOR COMPLAINTS | NUMBER | LOCATION, ORIGIN, ACTION: | | |
|--------------------------------|----------------|----------------------------------|----------------------|------------------|
| Outside Laguna Woods Village | | | | |
| Outside Laguna Woods Village | | | | |
| Laguna Woods Village | | | | |
| New World | | | | |
| Private System | | | | |
| Other: WRP | | | | |
| TOTAL | 0 | | | |
| ROOT FOAMING | FOOTAGE | CHEMICAL USED | CHEMICAL COST | COMMENTS: |
| Outside Laguna Woods Village | | | | |
| Laguna Woods Village | | | | |
| New World | | | | |
| Other | | | | |
| TOTAL | 0 | | | |
| ROOT CUTTING | FOOTAGE | COMMENTS: | | |
| Outside Laguna Woods Village | | | | |
| Laguna Woods Village | | | | |
| New World | | | | |
| TOTAL | 0 | | | |
| HYDRO-CLEANING | FOOTAGE | COMMENTS: | | |
| Outside Laguna Woods Village | | | | |
| Laguna Woods Village | 32,298 | | | |
| New World | | | | |
| Private System | | | | |
| Hot Spots | 25,962 | | | |
| ETWD TOTALS: | 58,260 | | | |
| SANTA MARGARITA TOTALS: | | | | |
| COMBINED TOTALS: | 58,260 | | | |
| TV INSPECTIONS | FOOTAGE | COMMENTS: | | |
| Outside Laguna Woods Village | | | | |
| Laguna Woods Village | 6,001 | | | |
| New World | | | | |
| Private System | | | | |
| Other | | | | |
| TOTAL | 6,001 | | | |
| Wet Wells | 3 | MATHIS,WESTLINE,FREEWAY | | |
| Flow Meter/Sampling | Number | | | |
| WATER TANK FILLS | 54,000 | | | |

**EL TORO WATER DISTRICT
MONTHLY POTABLE WATER QUALITY REPORT**

The quality and safety of drinking water in the U.S. is regulated by the federal government through the U.S. Environmental Protection Agency (USEPA). In California, those standards are enforced by the California Department of Public Health (CDPH). Water Quality parameters must meet both primary and secondary water quality standards as established by the CDPH.

PRIMARY STANDARDS - are intended to protect public health against substances in the water that may be harmful to humans if consumed for long periods of time.

SECONDARY STANDARDS - are to ensure esthetic qualities of water such as taste, odor or clarity. Rather than its healthfulness, these standards govern substances that may influence consumer acceptance of water.

Given that 100% of ETWD's potable water resource is fully treated and delivered by Metropolitan Water District of Southern California (MWDSC) through an enclosed and protected conveyance system, the majority of the State and federal primary and secondary source water quality monitoring requirements are performed by MWDSC. The District's physical responsibility for water quality monitoring is associated with the distribution system. To monitor the distribution system water quality the District utilizes both in-house and outside lab services. Routine distribution analysis conforming to CDPH requirements is conducted for the following constituents:

- 1) **Microbiological** - The number of microbiological samples and the frequency of analysis during the month is based on the population and/or service connections served. Utilizing a population of 50,000, the CDPH requires that 20 "representative" samples be collected and analyzed for coliform bacteria. The objective is to maintain water quality that is absent of coliform bacteria which is a general indicator for the existence of fecal coliform.
- 2) **Chlorine Residual** - The chlorine residual monitoring is performed in conjunction with the microbiological monitoring. The CDPH requirement for treated surface water mandates that the distribution system maintain a "detectable" residual. The number of and frequency of sampling is determined utilizing the same formula applied to microbiological requirements. At a minimum, we are obligated to collect and analyze for chlorine residual each time we collect the representative microbiological samples. Per EPA Disinfectants & Disinfection Byproduct Rule (D/DBP), which was effective January 2002, requires quarterly reporting for all sampling.
- 3) **TTHM & HAA5 Stage 2 DBPR Compliance** The U.S. Environmental Protection Agency (EPA) published the Stage 2 Disinfectants and Disinfection Byproducts Rule (Stage 2 DBPR) on January 4, 2006. The Stage 2 DBPR builds on existing regulations by requiring water systems to meet disinfection byproduct (DBP)* maximum contaminant levels (MCLs) at each monitoring site in the distribution system to better protect public health. The Stage 2 DBP rule is intended to reduce potential cancer and reproductive and developmental health risks from disinfection byproducts (DBPs) in drinking water, which form when disinfectants are used to control microbial pathogens. This final rule strengthens public health protection for customers of systems that deliver disinfected water by requiring such systems to meet maximum contaminant levels as an average at each compliance monitoring location (instead of as a system-wide average as in previous rules) for two groups of DBPs, trihalomethanes (TTHM) and five haloacetic acids (HAA5). The rule targets systems with the greatest risk and builds incrementally on existing rules. This regulation will reduce DBP exposure and related potential health risks and provide more equitable public health protection. The Stage 2 DBPR is being released simultaneously with the Long Term 2 Enhanced Surface Water Treatment Rule to address concerns about risk tradeoffs between pathogens and DBPs.

The mandatory requirement under the Stage 2 DBP rule, known as an Initial Distribution System Evaluation (IDSE) was completed by ETWD in 2008 and a Stage 2 monitoring plan has been approved by CDPH. Full Stage 2 compliance begins in 2012. The IDSE identified the locations with high disinfection byproduct concentrations. These locations will then be used by the District as the 8 sampling sites for Stage 2 DBP rule compliance monitoring. Compliance with the maximum contaminant levels for two groups of disinfection byproducts (TTHM and HAA5) will be calculated for each monitoring location in the distribution system. This approach, referred to as the locational running annual average (LRAA), differs from current requirements, which determine compliance by calculating the running annual average of samples from all monitoring locations across the system. The Stage 2 DBP rule also requires each system to determine if they have exceeded an operational evaluation level, which is identified using their compliance monitoring results. The operational evaluation level provides an early warning of possible future MCL violations, which allows the system to take proactive steps to remain in compliance. A system that exceeds an operational evaluation level is required to review their operational practices and submit a report to the state that identifies actions that may be taken to mitigate future high DBP levels, particularly those that may jeopardize their compliance with the DBP MCLs.

- 4) **Physical Quality** - Physical Quality analysis is associated with the esthetic qualities of the finished water. Primarily, we are performing analysis for taste, odor and Turbidity (Clarity). In accordance with CDPH requirements, the District collects a minimum of 15 samples per month.
- 5) **Nitrites** - Although the chloramine disinfection process has been effective in controlling TTHM levels, it requires increased monitoring and adjustment as a result of its susceptibility to the Nitrification process. Nitrification is a biological process caused by naturally occurring ammonia oxidizing bacteria. Nitrification in chloraminated drinking water can have various adverse impacts on water quality, the most serious of which is the loss of total chlorine residual which is required by the CDPH and the subsequent potential to increase bacteria-logical activity within the finished or treated water system. MWD has developed an effective nitrification monitoring and prevention program which ETWD staff have adopted and incorporated into the District's daily water quality monitoring and action plan. The number and frequency of this type of monitoring is not currently regulated by CDPH. Staff monitor the level of nitrites in source water, reservoirs and the distribution system daily and weekly in conjunction with the microbiological and chlorine sampling program. A nitrite level of between 0.015 and 0.030 would signal an alert. > 0.030 would require action such as the addition of chlorine to produce a chloramine residual.

| EL TORO WATER DISTRICT MONTHLY POTABLE WATER QUALITY ANALYSIS | | | | | |
|--|--------------------|------------|---------------------|-------------|---------|
| MONTH: | | January | YEAR : 2020 | | |
| CONSTITUENT ANALYSIS | | INSIDE LAB | | OUTSIDE LAB | |
| | MCL | NO. | RESULTS | NO. | RESULTS |
| 1 Microbiological | Pres/Absence | 148(A) | Pres/Absence | | Average |
| 2 Chlorine (ppm) | Detectable Resid | 209 | Average = 1.38 ppm | | |
| 3 TTHM (ppb) (Stage 2) | 80 ppb | | N/A | | |
| 3 HAA5 (ppb) (Stage 2) | 60 ppb | | N/A | | |
| 4 Physical Quality: | | | RANGE | | |
| Turbidity (ppm) | 5 NTU | 20 | 0.01 to 0.05 | | |
| Odor | 3 Units | 20 | ND<1 | | |
| Color | 15 Units | 20 | ND<5 | | |
| Temperature | No standard | 20 | 55.0°F To 64.0°F | | |
| 5 Nitrite (Alert/Action level)ppm | 0.015 to 0.030 ppm | 75 | 0.000 to 0.013 Res. | | |

To ensure water quality compliance, the District annually performs approximately 8,750 water quality analytical evaluations of the samples collected from the distribution system.

Abbreviations:

| | |
|-----------------------|---|
| RES | Indicates that the nitrification was isolated to a reservoir and treated |
| ND | None detected |
| Pres/Absence | Presence (P) or Absence (A) related to a positive or negative bacteriological result |
| MCL | Maximum Contaminant Level |
| NTU | Nephelometric Turbidity Units, a measure of the suspended material in the water |
| ppm | Parts per million |
| ppb | Parts per billion |
| Total Coliform | No more than 5% of the monthly samples may be total coliform-positive |
| N/A | Not available |

WILL SERVE REQUEST STATUS REPORT

(January 2020)

All projects subject to previously issued Will Serve Letters are either Complete or the Will Serve Letter has Expired
(Will Serve Letters Expire One Year from Date of Issuance)

| Date Requested | Applicant | Project Description | Type | Location | Status | Date Issued |
|----------------|------------------------|------------------------------------|------|----------------------|--------|-------------|
| 3/8/19 | Target Corporation | Target Mission Viejo Redevelopment | ND | 24500 Alicia Pkwy. | Issued | 7/3/19 |
| 8/16/19 | Burgertown USA | Burgertown Sewer Connection | TI | 24418 Muirlands | Issued | 11/20/19 |
| 8/29/19 | Merlone Geier Partners | Hunter Court Utility Relocations | TI | 24322 Rockfield Blvd | Issued | 12/9/19 |
| 11/15/19 | Kiddie Academy | New Daycare at previous Restaurant | TI | 25521 Muirlands Blvd | Issued | 1/7/20 |
| | | | | | | |
| | | | | | | |
| | | | | | | |

ND = New Development

TI = Tenant Improvement

**EL TORO WATER DISTRICT
UNAUTHORIZED DISCHARGE SUMMARY
YEAR OF 2020**

| DATE | PUBLIC / PRIVATE | SPILL TYPE | LOCATION | REASON | IMMEDIATE CORRECTIVE MEASURES | PREVIOUS MAINTENANCE | | POST-INCIDENT PREVENTIVE MEASURES | RWQCB | DISCHARGED TO | SPILL VOLUME (PUBLIC) Gallons | | SPILL VOLUME (PRIVATE) Gallons | | REGULATORY NOTIFICATION AND RESPONSE |
|-------------------------|------------------|----------------------|-------------------|---------------------------------|---|----------------------|-----|--------------------------------------|-------|---------------|----------------------------------|--------|-----------------------------------|--------|--|
| | | | | | | CLEANING | TV | | | | CONTAINED | SPILED | CONTAINED | SPILED | |
| January 23, 2020 | Private | PLSD | 23645 El Toro Rd. | Debris in private lateral | No longer spilling when ETWD staff arrived. Shut water service off to prevent additional discharge until line was clear | N/A | N/A | Spoke to Property Management Company | N/A | Parking Lot | N/A | N/A | 5 | 5 | Communicated with City of Lake Forest, Water Quality Inspector, and Orange County Environmental Health |
| | | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | | |
| LEGEND | | | | | | | | | | | 0 | 0 | 5 | 5 | |
| S.D.C = San Diego Creek | | RES. = Residential | | R.S. = Rocks | | | | | | | | | | | |
| S.D. = Storm Drain | | C. = Commercial | | C.W.D. = Calcium Water Deposits | | | | | | | | | | | |
| A.C. = Aliso Creek | | S.B. = Siphon | | B.P. = Broken Pipe | | | | | | | | | | | |
| G.B. = Grease Blockage | | P.F. = Power Failure | | U.W. = Untreated Water | | | | | | | | | | | |

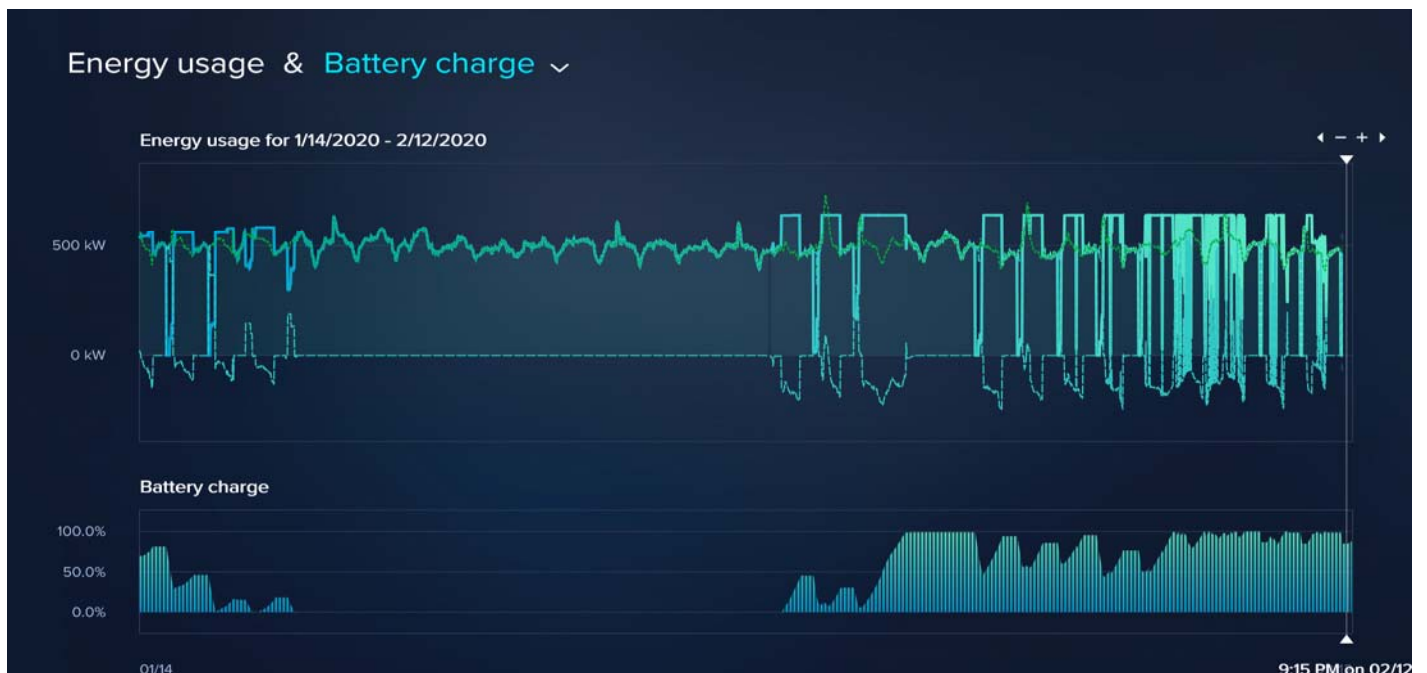


WRP BATTERY STORAGE SYSTEM

MONTHLY REPORT

JANUARY, 2020

| BILLING PERIOD | PEAK REDUCTION | PEAK INCURRED | BILL SAVINGS | NET SAVINGS |
|-------------------------|----------------|---------------|-------------------|---------------------|
| 07/15/2019 - 08/13/2019 | 67 kW | 1,032 kW | \$3,703.97 | \$2,113.97 |
| 08/13/2019 - 09/12/2019 | 9 kW | 1,070 kW | \$4,593.03 | \$3,003.03 |
| 09/12/2019 - 10/11/2019 | -45 kW | 988 kW | \$1,646.72 | \$56.72 |
| 10/11/2019 - 11/13/2019 | -45 kW | 949 kW | (\$471.94) | (\$2,061.94) |
| 11/13/2019 - 12/13/2019 | 28 kW | 834 kW | \$178.21 | (\$1,411.79) |
| 12/13/2019 - 01/14/2020 | -225 kW | 904 kW | (\$2,136.00) | (\$3,726.00) |
| 01/14/2020 - 02/12/2020 | 91 kW | 641 kW | \$989.24 | (\$600.76) |
| TOTAL | | | \$8,503.23 | (\$2,626.77) |



The Special Districts Dialogue

Volume 1, Number 1, January 2020

***Inaugural update from your Special District Voting Representatives on
OC LAFCO:***

**Douglass Davert
Vice Chair**

(714) 318-9550

DougDavert@ca.rr.com



**James R. Fisler
Commissioner**

(714) 423-4351

Jim@JimFisler.com

Honorable Special District members,

Happy New Year! We hope that your 2020 is off to a great start. As your voting representatives on the **Orange County Local Agency Formation Commission (OC LAFCO)**, we are pleased to provide this update on the Commission's recent activities relevant to special districts. As the voice for special districts serving the communities of Orange County, our goal is to provide transparency and strong leadership to ensure a kindler, gentler OC LAFCO as more of a facilitator than an initiator. Feel free to contact us if you have any OC LAFCO questions, requests, comments or concerns. Thank you.

At its January meeting, the Commission received a mid-year update on its FY 2019-20 Work Plan, including the status of activities in five focus areas of OC LAFCO's 2019 Strategic Plan. Below is a brief report regarding each area as it relates to Special Districts in Orange County:

- **Project Applications** (Voluntary Annexations/Consolidations) – Of three completed applications, one was an annexation for Irvine Ranch Water District/Orange County Sanitation District (OCSD). Four of five pending applications are for special district annexations: Costa Mesa Sanitary District/Newport Beach; OCSD/Anaheim; OCSD/Yorba Linda; and, Santa Margarita Water District/San Juan Capistrano (including a sphere of influence update).
- **4th Cycle Sphere of Influence (SOI) Updates & Municipal Service Reviews (MSRs)** – Five regional MSRs are in process: County Service Areas #13, #22 and #26; Municipal Water District of Orange County; OCSD; Southeast OC; and, Southwest OC. Summer 2020 is when the Commission anticipates considering these regions' SOI and MSR determinations. In Spring 2020, OCLAFCO.org will host an enhanced Shared Services Web Program and a new MSR Dashboard.
- **Unincorporated Areas** – Of 26 unincorporated Orange County islands, three that are being studied for possible annexation are located in the SOIs of the cities of Anaheim (Southwest), Buena Park (Andora/Fairhope), and Huntington Beach (Bolsa Chica). This is a multi-year effort.
- **South OC Governance** – To help determine the future governance of South Orange County, the Commission is conducting ongoing engagement with the communities and stakeholders of Coto de Casa, Ladera Ranch, Las Flores, Stonecliffe, Wagonwheel and Rancho Mission Viejo.
- **Communications Plan** – To improve communications between OC LAFCO and its constituents, a consultant was retained who will present recommendations at the Commission's next meeting on March 11, starting at 8:15 a.m.

Distributed at no cost to ratepayers/taxpayers.

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*Municipal Water District of Orange County, California
Washington Update
February 11, 2020*

Senate Impeachment Acquittal, Hyper-partisanship Plagues Washington, and the President Releases FY21 Budget Proposal

Last week, the Senate voted, largely along party lines, to acquit the President on both charges of Abuse of Power and Obstruction of Congress. In the wake of these impeachment votes, divisions have further intensified between the Republicans and the Democrats and are raising already growing concerns about further legislative gridlock during this Presidential election year. That said, party leaders have suggested that they can come to agreement on a handful of must-pass legislative items over the course of 2020, including the FY21 spending bill to keep the government open after September. The prospects of passing a major infrastructure bill this year seems to have greatly diminished.

President Trump released his proposed budget for FY2021; once again proposes major cuts to domestic spending:

On Monday, February 10, 2020, President Trump released his proposed budget for FY2021. As it has in years past, the President's proposed budget includes significant cuts to domestic spending. His FY21 budget closely mirrors his FY20 budget requests for the Bureau of Reclamation, Army Corps, Clean/Drinking State Revolving Funds, and the WIFIA loan program. Each of the President's requests represents a significant decrease to both the FY19 and FY20 spending levels.

Specifically, the President is again proposing that the Bureau of Reclamation be cut by nearly a half a billion dollars from FY20 levels, and the Army Corps of Engineers be cut by close to \$1 billion. Similarly, the White House is proposing a nearly \$700 million dollar cut from FY20 levels to the clean/drinking water state revolving funds and a \$30 million cut to WIFIA.

Notably, the President proposed a 26-percent cut to EPA from the FY20 spending levels.

| Programs | FY19 Levels | FY20 Levels | President's FY20 Budget | President's FY21 Budget |
|---|-----------------|----------------|-------------------------|-------------------------|
| Bureau of Reclamation | \$1.565 billion | \$1.68 billion | \$1.120 billion | \$1.1 billion |
| Army Corps of Engineers | \$6.998 billion | \$7.65 billion | \$4.964 billion | \$6 billion |
| Clean/Drinking Water State Revolving Funds | \$2.76 billion | \$2.77 billion | \$1.98 billion | \$1.98 billion |
| WIFIA | \$68 million | \$55 million | \$25 million | \$25 million |

The proposal is to fund EPA at \$6.7 billion, which is a cut down from \$9.1 billion in the FY20 spending bill.

It is important to remember, however, that the President's proposed budget is largely a political messaging effort. In fact, the Senate and House Appropriations Committees may not even hold hearings on the President's requested budget for FY21. The Congress has consistently and routinely ignored budget requests from the Executive Branch. For example, last year, the President requested major cuts in both the Energy & Water Appropriations bill and the Interior Appropriations bill, and the Congress not only ignored those proposed cuts but rather increased federal funding for most of these programs for FY20.

PFAS:

Since our last report, we have continued to meet with Orange County Congressional offices to express concerns about any legislative efforts to address PFAS that would generate any additional liability on public water utilities for PFAS cleanup under the Superfund law CERCLA. We prepared a draft letter for the MWDOC Board and a separate letter for MWDOC's member agencies that they could send to their Members of Congress echoing concerns about PFAS legislation that could negatively impact MWDOC and its members. Those draft letters are attached as a reference.

There has not been any meaningful legislative progress on the PFAS issue since the House passed their large package of PFAS bill in January. We continue to closely monitor this issue.

Other Legislation We are Actively Tracking:

- **H.R. 3723 (Rep. Mike Levin), the *Desalination Development Act***

This legislation would raise the funding authorization in the Water Infrastructure Improvements for the Nation (WIIN) Act for desalination projects to \$260 million over the next five years. Levin's objective in introducing this bill is to support projects like South Coast Water District's Doheny Ocean Desalination Project. The bill is awaiting further consideration by the House Committee on Natural Resources.

- **H.R. 1162, (cosponsors include: Huffman, Rouda, Lowenthal, Cisneros, and Sanchez), the *Water Recycling Investment and Improvement Act***

This bill increases the authorization for grant programs to prioritize water recycling and reuse projects. The increase in authorization is up from \$50 million up to \$500 million.

- **Rep. Huffman' *FUTURE Drought Resiliency Act*:**

This draft legislation would increase funding for ground and surface water storage, while investing in innovative technologies such as desalination and recycling. Rep. Huffman continues to seek input on the proposal.

- **S. 1932 (Sen. Gardner/Feinstein), *Drought Resiliency and Water Supply Infrastructure Act*:**

The bipartisan legislation extends funding for the *WIIN Act* for five years and adds \$670 million for surface and groundwater storage projects and \$100 million for water recycling projects. Additionally, the bill allocates \$60 million for desalination projects. The bill also includes funding for habitat restoration projects and a new loan program to spur investment in new water supply projects. The Senate Energy and Natural Resources is hoping to markup this bipartisan bill but has yet to do so because of objections from the Committee's ranking member Sen. Manchin. His concerns are with the project authorization section of the bill.

Update on the Southern California Water Luncheon and Briefing to be held in Washington, DC on February 26, 2020:

We continue to meet with, call, and send email invitations and reminders to Congressional offices about the upcoming CA water luncheon. We were also very pleased that Representatives Calvert and Correa jointly sent a bipartisan letter to their Congressional colleagues inviting them and encouraging them and their staffs to attend and participate in the luncheon and briefing, an effort we helped orchestrate. A copy of this letter is attached as a reference.

Because the luncheon will be held in a new location this year, we have taken extra steps to assist Members and their staff in finding the event—including distributing maps of the location of the event. As was the case in past years, Members and staff have been slow to commit to attending, because their schedules often don't become set until the week before or the week of the event. We have given extra encouragement to Members and their staff to come and to listen to reports from the various water district representatives that will be speaking at the luncheon briefing.

On the day of this luncheon (Wednesday, Feb. 26), the first votes of the day will be at 1pm. Subsequently, these votes will also be the first votes of the week. This will provide an excellent chance for Members of Congress to participate in the luncheon just before they will be required to be on the House floor for a series of floor votes.

JCB/RWL 2/11/20

Congress of the United States

Washington, DC 20515

January 16, 2020

Dear Colleague:

On behalf of five large water governmental agencies located in Southern California, including at least one water district that provides water to your Congressional District, we invite you and your key staff to an important water luncheon, on Wednesday, Feb. 26, 2020, at 12:00 Noon in CVC 217, "The South Congressional Meeting Room".

For more than fifteen years we have held this same luncheon and it has always been a great success. Constituents and locally elected water directors from your district will be in attendance at this luncheon.

The buffet luncheon is designed so that Members of Congress and/or other staff can "drop by" and grab a quick lunch and stay for 10 or 15 minutes or for a longer period of time. The luncheon will take place the week when the California Water Agencies come to Washington for their annual meetings. By having a large get-together like this, the Member can still see these important California constituents, in one large group, rather than the various water district setting up individual water meetings with each congressional office.

Your office may have also been contacted by one of the other California water agencies. As you know, water, infrastructure, and drought issues have been a major issue in California. These issues will be addressed in the luncheon.

As the invitation indicates, the Member, the Chief of Staff, the Leg Director, the Executive Assistant/Scheduler, and the Water LA are all invited to the lunch meeting. If the Member can attend, he or she will be recognized and will be allowed to say a few words to the group. The Member's comments can be about any subject they would like to speak on and need not address water issues. Many of the Members comments reflect what committees they serve on. The audience will all be related to the water community. Members of the water community will also be providing short 1-4 minute reports on issues impacting their particular water district.

This luncheon has been a great tradition. It has worked extremely well in the past. Most of the Congressional Representatives have typically come and participated in these events. The luncheon will be paid for by California local governmental agencies. We encourage your attendance. The RSVP Contact information is located on the attached card.

Sincerely,



KEN CALVERT
Member of Congress



J. LUIS CORREA
Member of Congress

January XX, 2020

Honorable [NAME NAME]
Member of Congress/US Senator
Address line 1
Address line 2

Dear [BLANK MEMBER OF CONGRESS]:

On behalf of the XXXXXXXX residents that we serve, the **(name of your water agency)** strongly believes that per- and polyfluoroalkyl substances (PFAS) should be kept out of our community's water supply. We are committed to protecting public health and the environment while providing reliable water services to our residents and customers.

The U.S. Congress has taken recent actions to address the growing public health concerns related to PFAS. We commend the Congress for seeking solutions to this major problem. As Congress moves forward to address PFAS issues, we wish to impress upon you the significant division between the entities that produced and introduced PFAS into the environment and ultimately into our water systems and the public water agencies, and **(your water agency)** that has been charged to provide clean, safe drinking water to the public. It is important to remember that we are not producers of PFAS, but rather we are on the receiving end of PFAS polluters.

Municipal water utilities take great care to follow all local, state, and federal laws related to water treatment and management—including the removal of harmful chemicals like PFAS. To that end, we express serious concern with any legislative effort to address the PFAS problem that would hold water agencies, such as our agency, liable for environmental cleanup costs under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA).

If PFAS were to be added as hazardous substances under the Superfund Law, and water utilities were not provided any liability shield, **(your agency here)** and other public water agencies could be held liable under CERCLA for the environmental costs associated with the cleanup of PFAS found outside of our water systems—particularly when those agencies that have already dutifully complied with all applicable laws and regulations related to PFAS removal and disposal.

Once again, we are committed to protecting the public and the environment from PFAS and applaud the Congress's attention to this critical issue, but we firmly believe that any legislation should hold the polluters who are responsible for this contamination accountable, rather than forcing the costs of this environmental cleanup on public water utilities and consequently on our hard-working customers.

Respectfully,

January XX, 2020

Honorable [NAME NAME]
Member of Congress/US Senator
Address line 1
Address line 2

Dear [BLANK MEMBER OF CONGRESS]:

On behalf of the over 3.2 million Orange County residents that we serve, the Municipal Water District of Orange County (MWDOC) and our 28 retail water agencies strongly believe that per- and polyfluoroalkyl substances (PFAS) should be kept out of our communities' water supplies. We are committed to protecting public health and the environment while providing reliable water services to our residents and customers.

The U.S. Congress has taken recent actions to address the growing public health concerns related to PFAS. We commend the Congress for seeking solutions to this major problem. As Congress moves forward to address PFAS issues, we wish to impress upon you the significant division between the entities that produced and introduced PFAS into the environment and ultimately into our water systems and the public water agencies, like MWDOC and our member agencies, that have been charged to provide clean, safe drinking water to the public. It is important to remember that we are not producers of PFAS, but rather we are on the receiving end of PFAS polluters.

Municipal water utilities take great care to follow all local, state, and federal laws related to water treatment and management—including the removal of harmful chemicals like PFAS. To that end, we express serious concern with any legislative effort to address the PFAS problem that would hold water agencies liable for environmental cleanup costs under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA).

If PFAS were to be added as hazardous substances under the Superfund Law, and water utilities were not provided any liability shield, MWDOC and other public water agencies could be held liable under CERCLA for the environmental costs associated with the cleanup of PFAS found outside of our water systems—particularly when those agencies that have already dutifully complied with all applicable laws and regulations related to PFAS removal and disposal.

Once again, we are committed to protecting the public and the environment from PFAS and applaud the Congress's attention to this critical issue, but we firmly believe that any legislation should hold the polluters who are responsible for this contamination accountable, rather than forcing the costs of this environmental cleanup on public water utilities and consequently on our hard-working customers.

Respectfully,



Memorandum

To: Municipal Water District of Orange County
From: Syrus Devers, Best Best & Krieger
Date: February 18, 2020
Re: Monthly State Political Report

Legislative Report

As promised, the Bill Matrix looks rather anemic now that all the two-year bills have dropped off. The timing of this report misses the last two weeks of the bill introduction period so next month's matrix will look a bit more robust. It's very likely that BB&K will be giving an update on newly introduced legislation at the PAL meeting.

There is one ACWA sponsored bill that was not published in time for this report but is in circulation. AB 2182 (Rubio) will exempt emergency backup generators from air quality restrictions during Public Safety Power Shutoffs (PSPS). It's one of three bills (so far) on the topic of emergency generators. One is sponsored by CMUA but has yet to find an author, and the other is specific to hospitals. An interesting development is that the big telecommunications companies have taken an interest now that they are threatened with requirements to have backup generators. Driving the issue for water districts is that diesel generators are the only viable option for long-term PSPS events. There are battery backup options for the telecos, but they're typically only good for 6 or 8 hours, whereas a PSPS event can be days. The Assembly Water, Parks, and Wildlife Committee held an informational hearing on this topic last week. The panelists were asked questions about micro grid options and batteries but the answers were unequivocal: water weighs eight pounds per gallon and you can't lift very much of it with solar or batteries. Certainly not for than several hours.

Administrative Report

The State Water Resources Control Board and the Division of Drinking Water have been active. The biggest news is the release of Response Levels (RLs) for PFOS (40 parts per trillion, "ppt") and PFOA (10 parts per trillion). Both of which are in the PFAS family. It's the 10 ppt for PFOA that's causing the problem for a large number of ground water supplies. MWD is currently polling their members to determine how many will need to increase their supply of imported water. Unlike Notification Levels, RLs require the water provider to either take the contaminated source offline or



provide statutorily proscribed notices. Unfortunately, AB 756 from last year that called for the Notification Levels also prohibited anything in the RL public notice that “minimizes or contradicts” the information in the notice. Water districts with very low levels for PFOA, therefore, cannot include other facts to put the notice in context, such as there being no evidence of health risks at the levels found in the drinking water.

The other major source of activity at SWRCB is trying to get SB 200, Safe and Affordable Drinking Water Funds, out the door. Appropriations done in bills, as opposed to a budget items, take effect the first of the year. Budget items (future ones), however, won't take effect until the start of the fiscal year on July 1st. That means SWRCB is sitting on \$130M but the people needed to move that money won't be authorized for several more months. The short-term solution is to start a round of musical chairs with existing staff to get some people on the job now, which will inevitable create backlogs in other areas. Too bad there's nothing in the Constitution requiring everything to make sense.

Work continues on the water bond. The administration released budget trailer bill language with no surprises, and meetings continue to take place, but there's nothing to report that wasn't covered previously.

The County of Orange Report

February 12, 2020
by Lewis Consulting Group



Light Board Agenda Leading Up to Election

Both the January 28th and February 11th meetings of the Board of Supervisors had agendas that were unusually short in length and seemingly short of controversies. Perhaps that would be of benefit to both Don Wagner and Andrew Do, who are facing primary opponents.

Despite the apparent effort, the January 28th meeting devolved into manufactured controversy as over 100 Santa Ana residents flooded the chambers in opposition to a relocation of a homeless shelter.

A current 400 bed homeless facility in a former bus terminal across the street from the County Civic Center is being closed and a new 425 bed shelter in a different part of Santa Ana is taking its place. The new facility impacts fewer churches and schools, will have better security and will resist "homeless dumping" from other parts of the County. However, this improvement did little to satisfy the local residents who bitterly complained that their city is a continuing "dumping ground" and that new facilities should be opened in other parts of the County, particularly in South Orange County.

At the end of the meeting, the residents stormed out of the meeting hurling insults at Supervisor Do and threatening his re-election, which seemed to be the point of the organized effort.



No Surprises in Latest PPIC Poll

The Public Policy Institute of California released its latest California poll in mid-January. The poll of 967 likely voters was conducted January 3-12, 2020 and a sample of that size yields a level of confidence of 95%. Below are selected results from the most recent survey:

**PPIC Statewide Survey
Californians and Their Government - Likely Voters - January 2020**

| | Likely voters | Party | | | Ideology | | | Region | | | | | |
|--|---|-------|-----|-----|----------|-----|-----|----------------|---------------|-------------|------------------|-------------|-----|
| | | Dem | Rep | Ind | Lib | Mod | Con | Central Valley | Inland Empire | Los Angeles | Orange/San Diego | SF Bay Area | |
| Q1. First, which one issue facing California today do you think is the most important for the governor and state legislature to work on in 2020? | homelessness | 23% | 21% | 29% | 21% | 19% | 27% | 25% | 19% | 24% | 32% | 19% | 25% |
| | housing costs, availability | 11% | 15% | 4% | 8% | 16% | 13% | 3% | 5% | 8% | 11% | 17% | 13% |
| | jobs, economy | 7% | 8% | 4% | 7% | 6% | 11% | 5% | 12% | 2% | 3% | 9% | 8% |
| | environment, pollution, global warming | 9% | 15% | 2% | 7% | 17% | 5% | 2% | 6% | 8% | 10% | 7% | 9% |
| | immigration, illegal immigration | 8% | 4% | 12% | 13% | 5% | 4% | 14% | 6% | 7% | 9% | 13% | 6% |
| | health care, health insurance | 4% | 5% | 2% | 5% | 5% | 7% | 2% | 6% | 2% | 2% | 4% | 7% |
| | education, schools, teachers | 3% | 5% | 2% | 2% | 4% | 3% | 3% | 4% | 4% | 4% | 1% | 4% |
| | state budget, deficit, taxes | 7% | 3% | 12% | 7% | 3% | 6% | 11% | 10% | 12% | 5% | 7% | 3% |
| | infrastructure | 3% | 3% | 2% | 4% | 3% | 4% | 2% | 3% | 9% | 1% | 2% | 4% |
| | crime, gangs, drugs | 2% | 1% | 2% | 1% | 0% | 2% | 3% | 2% | 0% | 3% | 0% | 2% |
| | government in general, problems with elected officials, political parties | 3% | 0% | 6% | 6% | 2% | 1% | 6% | 5% | 4% | 2% | 5% | 0% |
| | water, drought | 2% | 1% | 1% | 0% | 0% | 5% | 1% | 2% | 1% | 1% | 4% | 0% |
| | wildfires, fires | 2% | 3% | 0% | 4% | 4% | 0% | 3% | 3% | 0% | 1% | 1% | 8% |
| | other (specify) | 12% | 9% | 18% | 11% | 10% | 8% | 16% | 13% | 16% | 10% | 10% | 7% |
| (VOL) don't know | 4% | 6% | 3% | 3% | 5% | 2% | 4% | 5% | 2% | 6% | 2% | 4% | |
| Unweighted n | 967 | 449 | 264 | 222 | 353 | 247 | 351 | 159 | 107 | 234 | 153 | 220 | |

**PPIC Statewide Survey
Californians and Their Government - Likely Voters - January 2020**

| | Likely voters | Party | | | Ideology | | | Region | | | | | |
|---|------------------|-------|-----|-----|----------|-----|-----|----------------|---------------|-------------|------------------|-------------|-----|
| | | Dem | Rep | Ind | Lib | Mod | Con | Central Valley | Inland Empire | Los Angeles | Orange/San Diego | SF Bay Area | |
| Q2. Overall, do you approve or disapprove of the way that Gavin Newsom is handling his job as governor of California? | approve | 49% | 74% | 11% | 43% | 83% | 45% | 16% | 38% | 37% | 51% | 47% | 64% |
| | disapprove | 42% | 17% | 80% | 49% | 8% | 44% | 76% | 52% | 53% | 40% | 47% | 29% |
| | (VOL) don't know | 9% | 9% | 9% | 8% | 9% | 11% | 8% | 9% | 9% | 9% | 6% | 7% |
| | Unweighted n | 960 | 447 | 262 | 220 | 350 | 245 | 349 | 160 | 107 | 233 | 149 | 219 |

**PPIC Statewide Survey
Californians and Their Government - Likely Voters - January 2020**

| | Likely voters | Party | | | Ideology | | | Region | | | | | |
|--|------------------|-------|-----|-----|----------|-----|-----|----------------|---------------|-------------|------------------|-------------|-----|
| | | Dem | Rep | Ind | Lib | Mod | Con | Central Valley | Inland Empire | Los Angeles | Orange/San Diego | SF Bay Area | |
| Q5. Do you think things in the California are generally going in the right direction or the wrong direction? | right direction | 49% | 73% | 13% | 41% | 81% | 48% | 14% | 35% | 36% | 56% | 41% | 59% |
| | wrong direction | 49% | 23% | 86% | 58% | 16% | 48% | 85% | 64% | 60% | 42% | 56% | 36% |
| | (VOL) don't know | 3% | 4% | 2% | 2% | 3% | 5% | 1% | 1% | 4% | 2% | 3% | 5% |
| | Unweighted n | 966 | 448 | 264 | 222 | 348 | 250 | 352 | 160 | 107 | 236 | 153 | 219 |

**PPIC Statewide Survey
Californians and Their Government - Likely Voters - January 2020**

| | Likely voters | Party | | | Ideology | | | Region | | | | | |
|---|---------------------------|-------|-----|-----|----------|-----|-----|----------------|---------------|-------------|------------------|-------------|-----|
| | | Dem | Rep | Ind | Lib | Mod | Con | Central Valley | Inland Empire | Los Angeles | Orange/San Diego | SF Bay Area | |
| Q17. Thinking about these four areas of state spending, I'd like you to name the one you think should have the highest priority when it comes to state government spending? | K-to-12 public education | 38% | 38% | 37% | 37% | 38% | 40% | 37% | 31% | 28% | 44% | 39% | 40% |
| | higher education | 12% | 13% | 10% | 10% | 14% | 10% | 10% | 10% | 19% | 11% | 8% | 11% |
| | health and human services | 40% | 46% | 30% | 39% | 46% | 42% | 31% | 47% | 33% | 38% | 42% | 41% |
| | prisons and corrections | 7% | 2% | 17% | 9% | 1% | 5% | 17% | 10% | 17% | 5% | 6% | 5% |
| | (VOL) don't know | 3% | 1% | 6% | 6% | 1% | 3% | 5% | 2% | 3% | 2% | 6% | 3% |
| Unweighted n | 945 | 453 | 250 | 211 | 352 | 248 | 331 | 157 | 103 | 231 | 148 | 215 | |

**PPIC Statewide Survey
Californians and Their Government - Likely Voters - January 2020**

| | Likely voters | Party | | | Ideology | | | Region | | | | | |
|---|--------------------------------|-------|-----|-----|----------|-----|-----|----------------|---------------|-------------|------------------|-------------|-----|
| | | Dem | Rep | Ind | Lib | Mod | Con | Central Valley | Inland Empire | Los Angeles | Orange/San Diego | SF Bay Area | |
| Q18. In general, which of the following statements do you agree with more...? | higher taxes and more services | 53% | 75% | 17% | 48% | 85% | 52% | 19% | 53% | 39% | 57% | 43% | 62% |
| | lower taxes and fewer services | 44% | 22% | 80% | 47% | 14% | 43% | 78% | 45% | 58% | 41% | 52% | 32% |
| | (VOL) don't know | 3% | 3% | 3% | 5% | 1% | 5% | 3% | 1% | 3% | 2% | 5% | 6% |
| | Unweighted n | 953 | 444 | 258 | 221 | 349 | 244 | 346 | 160 | 105 | 232 | 151 | 215 |

**PPIC Statewide Survey
Californians and Their Government - Likely Voters - January 2020**

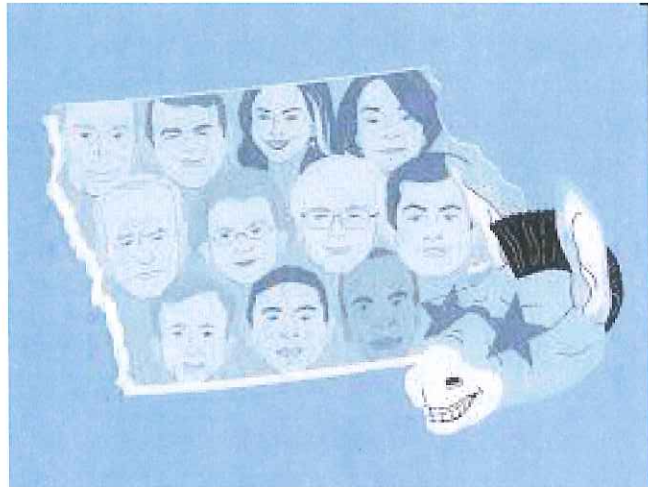
| | Likely voters | Party | | | Ideology | | | Region | | | | | |
|---|------------------|-------|-----|-----|----------|-----|-----|----------------|---------------|-------------|------------------|-------------|-----|
| | | Dem | Rep | Ind | Lib | Mod | Con | Central Valley | Inland Empire | Los Angeles | Orange/San Diego | SF Bay Area | |
| Q23. Overall, do you approve or disapprove of the way that Donald Trump is handling his job as president? | approve | 38% | 8% | 83% | 42% | 6% | 32% | 78% | 46% | 44% | 31% | 47% | 27% |
| | disapprove | 61% | 91% | 16% | 55% | 94% | 65% | 21% | 53% | 50% | 68% | 53% | 72% |
| | (VOL) don't know | 1% | 1% | 1% | 3% | 0% | 2% | 1% | 1% | 5% | 1% | 0% | 1% |
| | Unweighted n | 970 | 452 | 264 | 222 | 354 | 249 | 351 | 160 | 107 | 237 | 153 | 220 |

Iowa's Impact

The much maligned Iowa Caucus with its infamous vote counting fiasco still managed to serve its main purpose. As a result of its long job interview style process, the field was re-shaped and narrowed.

Going into New Hampshire two different internal primaries may have been settled. Senator Bernie Sanders has defeated Senator Elizabeth Warren for the representative of the party's progressive wing. In the contest

for the more mainstream liberal wing of the party, Mayor Pete Buttigieg's late surge has all but crushed the hopes of those supporting former Vice President Joe Biden. Unless the Granite State throws a late curve (what they have been known to do) it appears for now the contest has been winnowed down to Sanders, Buttigieg and the yet untested Michael Bloomberg. Bloomberg's candidacy strategy of skipping early primaries is an interesting one. He is banking that no clear front runner emerges and his financial advantage allows him to seriously contest all remaining states. His candidacy has also severely diminished any possibility of former Secretary of State Hillary Clinton from swooping in and saving the party from a national convention impasse. While Klobuchar, Warren, Yang, Steyer and Gabbard have little chance of success, they will be tempted to stay in the race to accumulate at least some share of valuable proportionally divided delegates.



Luckily my pre-New Hampshire analysis wasn't too far off the mark. Sifting through the New Hampshire results, there are a few take-a-ways. First, the field has shrunk as Yang, Steyer and Bennett have exited the stage. Secondly, the biggest surprise of the night was Senator Klobuchar's third place showing. She amassed more votes than Biden and Warren combined, yet it's still hard to see a path for going forward. New Hampshire all but dashed the dreams of Biden and Warren. Senator Sanders cemented his role as front-runner, but a 25% victory is hardly impressive. Democrat proportional delegate allocation has almost assured a "brokered" convention. Bloomberg's unlimited bank account will be the X-factor starting with Super Tuesday. Is it too early to speculate about a possible Bloomberg/Klobuchar ticket?

Latest Democratic National Polls

2020 Democratic Presidential Nomination



[National](#) | [Iowa](#) | [New Hampshire](#) | [Nevada](#) | [South Carolina](#) | [California](#) | [Texas](#) | [Massachusetts](#) | [General Election Polls](#)

| Polling Data | | | | | | | | | | | | | | |
|--------------|------------|----------|-------|---------|--------|-----------|-----------|-----------|------|---------|--------|--------|---------|------------|
| Poll | Date | Sample | Biden | Sanders | Warren | Bloomberg | Buttigieg | Klobuchar | Yang | Gabbard | Steyer | Bennet | Patrick | Spread |
| RCP Average | 1/27 - 2/9 | -- | 23.0 | 22.7 | 15.3 | 12.7 | 8.3 | 4.3 | 3.0 | 2.0 | 2.0 | 0.7 | 0.3 | Biden +0.3 |
| Quinnipiac | 2/5 - 2/9 | 665 RV | 17 | 25 | 14 | 15 | 10 | 4 | 2 | 1 | 1 | 0 | 0 | Sanders +8 |
| Economist | 2/2 - 2/4 | 616 RV | 24 | 19 | 18 | 9 | 9 | 6 | 3 | 3 | 2 | 1 | 0 | Biden +5 |
| M. Consult | 1/27 - 2/2 | 15259 RV | 28 | 24 | 14 | 14 | 6 | 3 | 4 | 2 | 3 | 1 | 1 | Biden +4 |

[All 2020 Democratic Presidential Nomination Polling Data](#)

2020 California Polls

California Democratic Primary

March 3 (416 Delegates)



[National](#) | [Iowa](#) | [New Hampshire](#) | [Nevada](#) | [South Carolina](#) | [California](#) | [Texas](#) | [Massachusetts](#) | [General Election Polls](#)

| Polling Data | | | | | | | | | | | | | |
|--------------|-------------|---------|---------|-------|--------|-----------|-----------|------|-----------|---------|--------|--------------|--|
| Poll | Date | Sample | Sanders | Biden | Warren | Buttigieg | Bloomberg | Yang | Klobuchar | Gabbard | Steyer | Spread | |
| RCP Average | 1/3 - 1/27 | -- | 25.8 | 21.0 | 19.8 | 7.3 | 4.3 | 4.0 | 3.5 | 3.0 | 2.7 | Sanders +4.8 | |
| KQED/NPR | 1/25 - 1/27 | 1967 LV | 30 | 15 | 16 | 8 | 4 | 5 | 3 | 4 | 2 | Sanders +14 | |
| Berkeley IGS | 1/15 - 1/21 | 2895 LV | 26 | 15 | 20 | 7 | 6 | 4 | 5 | -- | 2 | Sanders +6 | |
| SurveyUSA | 1/14 - 1/16 | 565 LV | 20 | 30 | 20 | 8 | 6 | 4 | 2 | 2 | 4 | Biden +10 | |
| PPIC | 1/3 - 1/12 | 530 LV | 27 | 24 | 23 | 6 | 1 | 3 | 4 | -- | -- | Sanders +3 | |

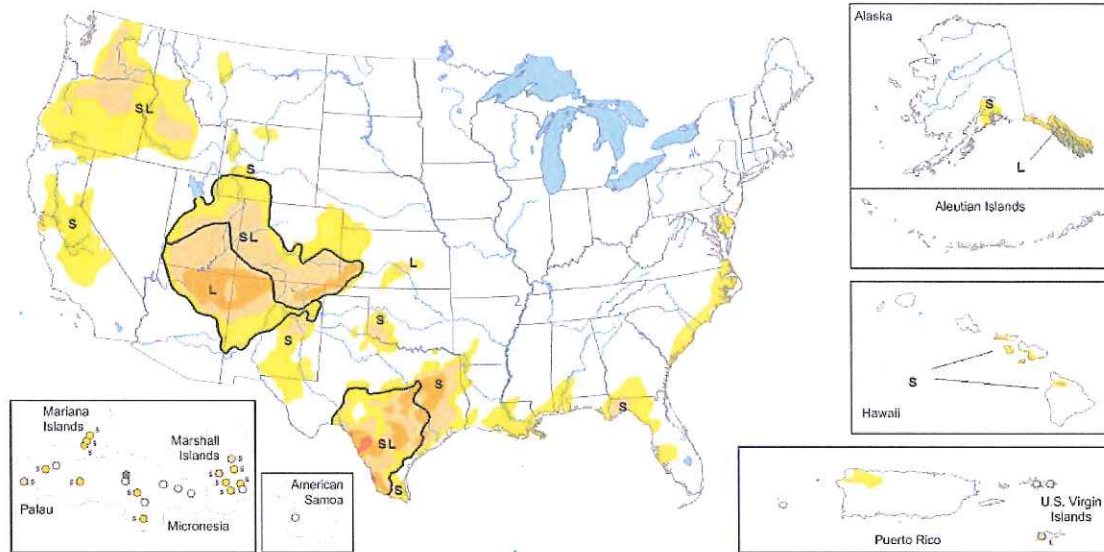
[All California Democratic Primary Polling Data](#)

Dry Conditions Return

After a bountiful year of rain and snow in 2019, the winter of 2020 is now shaping up to be a disappointing one. On January 1st, the state's snowpack was 90% of normal but that level has now dropped to 64% of normal for this time of year. Luckily our state's reservoirs are still healthy with our two largest, Lake Shasta and Lake Oroville at 112% and 95% respectively of normal capacity for this time of year.

Map released: February 6, 2020

Data valid: February 4, 2020



United States and Puerto Rico

Author(s):

Richard Tinker, NOAA/NWS/NCEP/CPC

U.S. Affiliated Pacific Islands and

Virgin Islands Author(s):

Curtis Riganti, National Drought Mitigation Center

The data cutoff for Drought Monitor maps is each Tuesday at 7 a.m. EST. The maps, which are based on analysis of the data, are released each Thursday at 8:30 a.m. Eastern Time.

Intensity and Impacts

| | | |
|-----------------------|--------------------------|---|
| None | D3 (Extreme Drought) | - Delineates dominant impacts |
| D0 (Abnormally Dry) | D4 (Exceptional Drought) | S - Short-Term impacts, typically less than 6 months (e.g. agriculture, grasslands) |
| D1 (Moderate Drought) | No Data | L - Long-Term impacts, typically greater than 6 months (e.g. hydrology, ecology) |
| D2 (Severe Drought) | | |

MWDOC

PAL Committee

Prepared by Best Best & Krieger LLP

February 18th, 2020

| Measure | Author | Topic | Status | Location | Brief Summary | Position | Priority | Notes 1 |
|-----------------------|-------------------------|---|---|-------------------|---|------------------|-----------------------------|---------|
| SB 45 | Allen D | Wildfire Prevention, Safe Drinking Water, Drought Preparation, and Flood Protection Bond Act of 2020. | 1/30/2020-In Assembly. Read first time. Held at Desk. | 1/29/2020-A. DESK | Would enact the Wildfire Prevention, Safe Drinking Water, Drought Preparation, and Flood Protection Bond Act of 2020, which, if approved by the voters, would authorize the issuance of bonds in the amount of \$5,510,000,000 pursuant to the State General Obligation Bond Law to finance projects for a wildfire prevention, safe drinking water, drought preparation, and flood protection program. | Out for Analysis | A. Priority Support/ Oppose | |

B. Watch

| Measure | Author | Topic | Status | Location | Brief Summary | Position | Priority | Notes 1 |
|-------------------------|-------------------------|--|---|------------------------|---|------------------|----------|---------|
| AB 2148 | Quirk D | Climate change: adaptation: regional plans. | 2/10/2020-Read first time. To print. | 2/10/2020-A. PRINT | Current law establishes the Integrated Climate Adaptation and Resiliency Program, administered by the Office of Planning and Research, to coordinate regional and local efforts with state climate adaptation strategies to adapt to the impacts of climate change, as specified. This bill would state the intent of the Legislature to enact legislation that would foster regional-scale adaptation, as specified; give regions a time to develop their regional plans, as specified; and consider, among other things, sea level rise and fire vulnerability. | Out for Analysis | B. Watch | |
| SB 797 | Wilk R | Water resources: permit to appropriate: application procedure. | 1/15/2020-Referred to Com. on N.R. & W. | 1/15/2020-S. N.R. & W. | Current law requires the State Water Resources Control Board to issue and deliver a notice of an application as soon as practicable after the receipt of | Out for Analysis | B. Watch | |

Item 1e

| | | | | | | | |
|--|--|--|--|--|--|--|--|
| | | | | <p>an application for a permit to appropriate water that conforms to the law. Current law allows interested persons to file a written protest with regard to an application to appropriate water and requires the protestant to set forth the objections to the application. Current law declares that no hearing is necessary to issue a permit in connection with an unprotested application, or if the undisputed facts support the issuance of the permit and there is no disputed issue of material fact, unless the board elects to hold a hearing. This bill, if the board has not rendered a final determination on an application for a permit to appropriate water within 30 years from the date the application was filed, would require the board to issue a new notice and provide an opportunity for protests before rendering a final determination, with specified exceptions.</p> | | | |
|--|--|--|--|--|--|--|--|

Total Measures: 3

Total Tracking Forms: 3

**Metropolitan Water District of Southern California
State Legislative Matrix
February 10, 2020**

| Bill Number Author | Amended Date; Location | Title-Summary | MWD Position | Effects on Metropolitan |
|--|--|--|--|--|
| <p>AB 1071 Limon (D)</p> <p>Sponsor: California Climate and Agricultural Network</p> | <p>Amended 1/6/2020</p> <p>Senate</p> | <p>Climate change: agriculture: Agricultural Climate Adaptation Tools Program: grants. Establishes a pilot program in the Central Valley, Central Coast and desert regions of the state where grant funding is available for the purposes of developing planning tools for adapting to climate change within the agricultural sector.</p> | <p style="text-align: center;">SUPPORT</p> <p>Based upon Board Action on 7/9/2019</p> | <p>AB 1071 was amended to mirror language from AB 409 (Limón), which Metropolitan supported. The Metropolitan Board has formally adopted policies supporting research related to the effects of climate change on water supply and water quality. This measure provides funding and guidance to support resilient agricultural practices.</p> |
| <p>AB 1580 Levine (D)</p> <p>Sponsor: Author</p> | <p>Amended 7/1/2019</p> <p>Senate Appropriations Committee - Suspense File</p> | <p>Major infrastructure construction projects: oversight committees. Requires a state agency undertaking a publicly-funded infrastructure project of \$1 billion or more to form an oversight committee and develop a risk management plan to minimize cost overruns.</p> | <p style="text-align: center;">OPPOSE</p> <p>Based upon Board- adopted 2019 State Legislative Priorities and Principles</p> | <p>To the extent the bill is aimed at proposed Delta conveyance, it is duplicative of the Delta Conveyance Design and Construction Authority (DCA). At the direction of the Department of Water Resources, the DCA is tasked to provide oversight and risk management in order to protect the ratepayers who will pay for and benefit from the project.</p> |
| <p>SB 45 Allen (D)</p> <p>Sponsor: Author</p> | <p>Amended 1/23/2020</p> <p>Assembly</p> | <p>Wildfire, Drought, and Flood Protection Bond Act of 2020. Would place a wildfire and water bond totaling \$5.51 billion on the November 2020 ballot for voter approval.</p> | <p style="text-align: center;">SUPPORT AND AMEND</p> <p>Based upon Board action on 6/11/19</p> | <p>Would create statewide funding to restore areas damaged by wildfires, mitigate future wildfires, create healthy forests and watersheds, protect water supplies and water quality, and protect and restore rivers, streams and lakes. Seeking amendments to ensure adequate funding for safe drinking water needs, restoration projects that would benefit Voluntary Agreements for managing the Bay – Delta and the tributaries, and for recycled water projects.</p> |

**Metropolitan Water District of Southern California
State Legislative Matrix
February 10, 2020**

| Bill Number Author | Amended Date; Location | Title-Summary | MWD Position | Effects on Metropolitan |
|--|---|--|--|--|
| <p>SB 69 Wiener (D)</p> <p>Sponsors: California Coastkeeper Alliance and Pacific Coast Federation of Fishermen's Associations</p> | <p>Amended 7/11/2019</p> <p>Assembly Appropriations Committee – Suspense File</p> | <p>Ocean Resiliency Act of 2019. Seeks to bolster the resilience of the state's marine and coastal environments to climate change and improve conditions for salmon and other commercially valuable species.</p> | <p>WATCH</p> <p>Based upon Board-adopted 2019 State Legislative Priorities and Principles</p> | <p>Would replace existing forestry, fishery and water quality regulatory processes with entirely different approaches in the hope of improving conditions for fish upstream of the Delta and in the ocean along the California coast.</p> |
| <p>SB 204 Dodd (D)</p> <p>Sponsor: Delta Counties Caucus</p> | <p>Amended 5/17/2019</p> <p>Assembly Water, Parks and Wildlife</p> | <p>State Water Project: contracts. Revises the notification requirements for pending State Water Project (SWP) contract negotiations and contract amendments. Additionally, explicitly requires the California Water Commission to review and report on the progress of the design, construction, and operation of any new Delta conveyance facility as a part of its annual review of the SWP.</p> | <p>WATCH</p> <p>Based upon Board-adopted 2019 State Legislative Priorities and Policies</p> | <p>Recent amendments adhere to the author's stated purpose and delete objectionable provisions related to the Delta Conveyance joint powers authorities. Bill provides for further transparency on any future amendments to State Water Project contracts as described in Water Code Section 147.6 (c) and construction of future Delta conveyance improvements.</p> |

**Metropolitan Water District of Southern California
State Legislative Matrix
February 10, 2020**

| Bill Number Author | Amended Date; Location | Title-Summary | MWD Position | Effects on Metropolitan |
|--|---|---|---|--|
| <p>SB 414 Caballero (D)</p> <p>Sponsor: Eastern Municipal Water District and California Municipal Utilities Association (CMUA)</p> | <p>Amended 6/25/2019</p> <p>Assembly Appropriations Committee – Suspense File</p> | <p>Small System Water Authority Act of 2019. Authorizes State Water Resources Control Board (SWRCB) to merge small, non-noncompliant public water systems into regional water authority that will directly benefit from increased economies of scale and access to public financing.</p> | <p>SUPPORT</p> <p>Based upon past support for AB 2050 (Caballero) from 2017/18</p> | <p>As introduced, SB 414 sets deadline for small water systems to comply with safe drinking water standards or consolidate into regional authority managed by SWRCB-appointed contractor until water system achieves self-sufficiency, complies with drinking water standards, and can reliably provide access to safe drinking water.</p> |
| <p>SB 559 Hurtado (D)</p> <p>Sponsor: Friant Water Authority</p> | <p>Amended 7/3/2019</p> <p>Assembly Appropriations Committee- Suspense File</p> | <p>Department of Water Resources: grant: Friant-Kern Canal. Seeks to address problems of land subsidence on the federally-owned Friant Kern Canal.</p> | <p>SUPPORT IF AMENDED</p> <p>Based upon Board-adopted 2019 State Legislative Priorities and Principles</p> | <p>Addresses land subsidence in the Central Valley but only focuses on impacts to the Friant Kern Canal. Metropolitan seeking amendments to include the need to address subsidence problems on the California Aqueduct to ensure reliable water supply for southern California as well.</p> |

ETWD Public Education and Outreach Report February 27, 2020

The following provides an update on the education and outreach ETWD is developing or has completed.

Drought Log

Customer Service continues to update the drought response log. This includes phone calls, walk-ins and emails regarding water waste complaints and ETWD's permanent mandatory conservation measure inquiries. There were no water waste complaints for the month of January.

Messaging/Materials

Bill Message

The customer February/March bill message: Help make water conservation a California way of life. Using a broom instead of hosing down your driveway, sidewalk or patio saves 8 – 18 gallons of water per minute.

Laguna Woods Village TV-6

Director Freshley is scheduled for TV-6 on February 28th, 2020. Topic is to be determined.

Community Events/Outreach

Women in Water Meeting

ETWD hosted the February 21st, 2020 Women in Water Meeting at the District. This group is an ad hoc group of water professionals in and around Orange County. The February meeting focused on a roundtable discussion of all attendees and updates on their current projects to foster networking, collaboration and coordination. Over 40 water professionals attended.

OC Vote Center

ETWD has partnered with the Orange County Registrar of Voters and be one of five vote centers located in Lake Forest for the upcoming primary election. ETWD will be a 4-day vote center and is open to all residents in Orange County. Attendees can either vote in person or drop off their ballot at the ETWD Vote Center during the following dates and times:

| Vote Center Dates | Vote Center Hours |
|--------------------------|--------------------------|
| Saturday, 02/29/20 | 8:00 am – 8:00 pm |
| Sunday, 03/01/20 | 8:00 am – 8:00 pm |
| Monday, 03/02/20 | 8:00 am – 8:00 pm |
| Tuesday, 03/03/20 | 7:00 am – 8:00 pm |

ETWD's 60th Anniversary

ETWD will celebrate its 60th anniversary on August 12, 2020. ETWD staff is working on a plan to celebrate the occasion. Tentative plans are to hold an open house, tour and elected officials ceremony on a Saturday in August. ETWD will also celebrate anniversary at the August CAG meeting.

MWDOC Water Awareness Poster Contest

MWDOC's 2020 Water Awareness Poster Contest is open to Orange County students in grades K – 12. Students are encouraged to submit hand-drawn posters that reflect the theme: Water is Life. Entries are due April 3, 2020. 40 winners will be selected and one grand prize winner in 4 grade levels will receive an iPad Mini. Teachers who submit their students' artwork are entering into a drawing for a class pizza party. All winners are invited to a special awards ceremony with Ricky-the-Raindrop at the Discovery Science Center.

Water Education School Program

MWDOC coordinates the water education school program and ETWD participates in the program as part of the choice program. The program is broken down into three education programs:

1. Shows that Teach
 - a. Grades K -2
 - b. Assembly-style; performance and role-play
 - c. Topics covered: The journey of water, aqueducts and reservoirs, how water gets to the tap, water cycle, evaporation, states of water, aquifers, value of water, location of the Sierra Nevada Mountains and reasons to conserve water.
 - d. ETWD targets 5 large assembly presentations for 20/21.
2. Discovery Cube
 - a. Grades 3 – 8
 - b. Assembly style: student keypad response (3-6)
 - i. Topics covered: climate, environment, ways to adapt local gardens to survive with less water, ecosystem, local water resources, water use efficiency, water supply and environmental factors that influence the growth of organisms in our local area.
 - c. Classroom-style; water quality labs (7-8)
 - i. Aiming to bridge the gap between the elementary and school and the high school programs.
 - ii. Hands on water quality workshops – testing water quality at their school monitoring levels of dissolved oxygen and discuss chemically treated vs. tap water. Discuss water consumption and securing a reliable water supply.
 - d. ETWD is targeting approximately 802 students for grades 3-6 and 807 students for grades 7-8.

3. Bolsa Chica Conservancy

- a. Grades 9 – 12
- b. Each class receives 3 classroom visits.
- c. 1st visit includes interactive water quality presentation
- d. 2nd visit includes the Windows to Our Wetlands (WOW) mobile learning center and water quality comparison lab
- e. 3rd visit includes students presenting findings on water quality testing.
- f. ETWD is targeting 1 high school, El Toro High.

MWDOC actively engages with the teachers and requests surveys on all the programs. A recent quote from an AP Environmental Science teacher at El Toro High School read as follows: "I liked it so much, I asked them back next year. The watershed and water quality information is part of the AP Environmental Science curriculum and was very helpful to the students."

In 2018, SB 720 was adopted that directs educators to support environmental literacy and codifies EP&Cs. As a result of that bill, MWDOC has been working to incorporate the California Environmental Literacy Initiative (CAELI) into the Water Education Program. This new initiative includes discovering and understanding the interdependencies between humans and natural systems – cause and effect, good/bad and neutral, utilize the 3 D NGSS learning (inquiry, critical thinking, problem-solving skills) and connecting students to an environment around them. This education program will steer away from memorizing definitions and procedures and just watching and reading about experiments. The program will include the integration of science content with science and engineering practices, activities that include real-world situations that can be investigated and student reasoning and argumentation.

MWDOC will be presenting the revised MWDOC education program goals in and OC roll out in April. MWDOC will also provide formal training for MWDOC school program contractors, select OC teachers, and other OC community based organizations. Sherri will be attending the program roll out Lunch and Learn on April 16, 2020 from 12:30 pm – 5:00 p.m. at MWDOC.

WATER AWARENESS POSTER CONTEST

ALL Orange County students in grades K-12 are invited to create posters that reflect the theme:

WATER IS LIFE.



CONTEST RULES

DEADLINE: APRIL 3, 2020

- Open to all Orange County students in grades K-12.
 - Submissions must reflect the student's own ability.
 - Posters must be drawn horizontally on 8.5 x 11 in. or 12 x 18 in. paper. Paper available upon request.
 - ORIGINAL ARTWORK ONLY.** Posters submitted with copyrighted characters or images (e.g. Mickey Mouse) will not be accepted. Students are allowed to use the Ricky Raindrop character in their artwork.
- ★ All posters will be the exclusive property of the Municipal Water District of Orange County for reproduction or promotional purposes, and may be published at mwdoc.com*

WIN AN IPAD!



One grand prize winner per grade divisions: K-2 / 3-5 / 6-8 / 9-12
***All winning students, along with their parents and teachers, will be invited to attend a special awards ceremony at the Discovery Cube!**

SUBMIT ARTWORK

PLEASE CLEARLY WRITE THE FOLLOWING INFORMATION ON THE BACK OF YOUR POSTER



- | | |
|-------------------|------------------|
| ★ Student's Name | ★ Grade Level |
| ★ School Name | ★ Parent's Name |
| ★ School District | ★ Parent's Email |
| ★ Teacher's Name | ★ Parent's Phone |
| ★ Teacher's Email | |

ATTENTION TEACHERS!

Submit your students' artwork as a batch to be entered in a drawing for a class pizza party with Ricky Raindrop!

MAIL OR DROP OFF ENTRIES TO:

To: MWD OC
18700 Ward Street
Fountain Valley, CA 92708
Attn: Traci Muldoon

QUESTIONS?

Contact Traci Muldoon
tmuldoon@mwdoc.com
(714) 593-5004



**EL TORO WATER DISTRICT
CONSERVATION PROGRAM
Monthly
Status Report
February 27, 2020**

REBATE PROGRAMS

The following tables are the current device rebate amounts for MET, MWDOC and ETWD for the fiscal year 2019/20 from July 1st through June 30th.

Select device purchases are eligible for rebates while devices meet eligibility requirements and while funding lasts. The rebate process is completed online through www.ocwatersmart.com. Customers without computer access can call 888-376-3314 to apply.

1) Residential Rebate Program:

| Device | MET Rebate | MWDOC Grant | ETWD Rebate | Total Rebate (up to) |
|---|---|----------------------------|------------------------|---|
| High Efficiency Clothes Washer (CEE tier one or better) | \$85 | | \$115 | \$200 |
| Premium High Efficiency Toilet (4 liter) | \$40 | | \$60 | \$100 |
| Rotating Sprinkler Nozzles (min 30 per home) | \$2 ea | | \$1 | \$3 |
| Smart Irrigation Timer | \$80 | \$100 | \$100 | \$280 |
| Turf Removal Program (up to 5,000 sq ft)* | \$1 sq. ft. | \$2 sq. ft. | | \$3 sq. ft. |
| Soil Moisture Sensor System <1 Acre >1 Acre | \$80 \$35/station | \$100 | \$100 | \$280 \$35/station |
| Rain Barrels Cisterns (200 -500 gallon) (501-999 gallon) (1,000 gallon or more) | \$35 \$250 \$300 \$350 | | \$15 | \$50 \$250 \$300 \$350 |
| Drip Irrigation (per kit and up to 5 kits) | | \$90 base plus \$85 | | \$175 per kit |

*Designated recycled water sites are not eligible for turf removal rebates. MWDOC Grant funding based on availability. ETWD has discontinued funding of synthetic turf rebates.

2) Commercial Plumbing/Irrigation Devices Rebate Program:

| Device | MET Rebate | MWDOC Grant | ETWD Rebate | Total Rebate (up to) |
|--|-------------------|--------------------|--------------------|-----------------------------|
| Premium High Efficiency Toilet (4 liter) | \$40 | | | \$40 |
| Multi-family Premium High Efficiency Toilet (4 liter) | \$40 | | | \$40 |
| Zero Water/Ultra Low Water Urinal | \$200 | | | \$200 |
| Plumbing Flow Control Valve (min. 10) | \$5 | | | \$5 |
| Smart Irrigation Timer (weather based or central computer) | \$35/station | | | \$35/station |
| Rotating Sprinkler Nozzles (minimum quantity of 15) | \$2 | | \$1 | \$3 |
| Rotating Nozzles – Large Rotary | \$13 | | | \$13 |
| Turf Removal Program (up to 50,000 sq ft)* | \$1 sq. ft | \$2 sq. ft. | | \$3 sq. ft. |
| Drip Irrigation (sq. ft.)(maximum 45,000 sq. ft) | | \$0.20 sq. ft. | | \$0.20 sq. ft. |
| Soil Moisture Sensor System | \$35/station | \$15/station | | \$50/station |

*Designated recycled water sites are not eligible for turf removal rebates. ETWD has discontinued synthetic turf rebates. Additional commercial rebates available online at ocwatersmart.com. MWDOC Grant funding based on availability.

WATER USE EFFICIENCY PLAN UPDATE (Water Conservation Plan)

The District Water Budget-Based Tiered Conservation Rate Structure (WBBTCRS) pricing structure is the primary plan that gives customers the incentive needed to be efficient. The Plan efforts initially will concentrate on those customers continually in the Inefficient and Excessive Tiers (Tiers 3 and 4). [As of January 2020 year-to-date sales, residential accounted for 62% of the overall Tier 3 usage and dedicated irrigation accounted for 58% of Tier 4 usage.](#)

TOTAL CONSUMPTION COMPARISON TO EVAPOTRANSPIRATION (ET) FACTOR

Included in this month's Conservation Report is a chart comparing the current fiscal year 2019/20 consumption and ET factor to the fiscal 2018/19 consumption and ET factor. [The ET factor increased 1% from January 2019 when compared to January 2020. There was a 5.74% increase in consumption reflected in January 2020.](#)

**MWDOC's—WATER USE EFFICIENCY PROGRAMS SAVINGS AND
IMPLEMENTATION REPORT / ETWD's—WATER USE EFFICIENCY PROGRAM
SAVINGS REPORT**

The current MWDOC water use efficiency program savings reports were not updated for December and not included in this month's report.

**By: Sherri Seitz
Date: February 20, 2020**

**El Toro Water District
Water Use Efficiency Program Savings**

| Program | Program Start Year | Program/Total Years | Avoided Water Use Acre Feet/Annual | Avoided Water Use Million Gallons/Annual | Avoided Water Costs Based on MWDOC Rate (\$2.16 CCF) Annual |
|---|--------------------|---------------------|------------------------------------|--|---|
| High Efficiency Toilet (HET) | 2005 | 14 | 50.0 | 16.3 | \$47,055 |
| High Efficiency Clothes Washers--Residential | 2001 | 18 | 24.8 | 8.1 | \$23,339 |
| *SoCal Water Smart Commercial Plumbing Fixtures Rebate Program (ULFT's, HET's, Urinals, HECW, Cooling Tower Conductivity Controllers) | 2002 | 17 | 49.4 | 16.1 | \$46,490 |
| SmarTimer Program--Irrigation Timers | 2004 | 15 | 182.0 | 59.3 | \$171,280 |
| Rotating Nozzles Rebate Program | 2007 | 12 | 118.4 | 38.6 | \$111,464 |
| Turf Removal Program | 2010 | 9 | 57.7 | 18.8 | \$54,255 |
| **Water Smart Landscape Program - Ended 2016 | 1997 | 20 | 242.9 | 79.2 | \$228,594 |
| Synthetic Turf Rebate Program-Ended 2011 | 2007 | 8 | 0.9 | 0.3 | \$847 |
| ***Ultra Low Flush Toilets (ULFT)--Ended 2009 | 1992 | 16 | 193.2 | 58.0 | \$167,487 |
| Computer Controlled Irrigation System--Gate 11--Ended 2006 | 2001 | 6 | 8.9 | 2.9 | \$8,357 |
| Totals | | | 928.2 | 302.5 | \$873,502 |

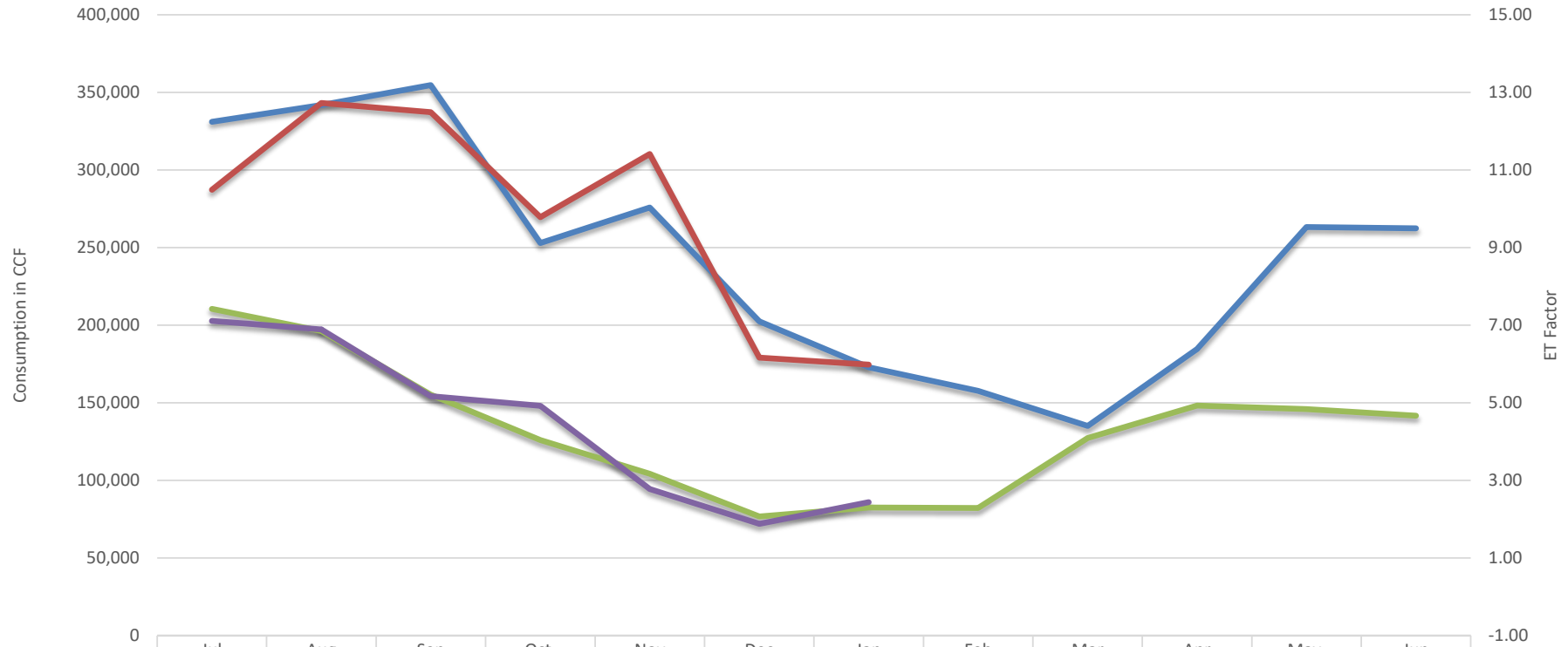
* Formerly the Save Water Save a Buck - Commercial Rebate Program

** Formerly the Landscape Performance Certification Program

*** Correction on date and total

Because of our participation in Water Use Efficiency Programs, the District will not be using an estimated 302.5 million gallons of water per year.

Total Consumption Comparison



| | Jul | Aug | Sep | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun |
|-----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 2018-2019 | 331,098 | 341,819 | 354,683 | 253,007 | 275,853 | 202,506 | 172,911 | 157,696 | 135,090 | 184,628 | 263,218 | 262,396 |
| 2019-2020 | 287,207 | 343,163 | 337,247 | 269,666 | 310,344 | 179,155 | 174,596 | | | | | |
| 18/19 ET | 7.42 | 6.85 | 5.21 | 4.04 | 3.17 | 2.07 | 2.30 | 2.29 | 4.09 | 4.93 | 4.84 | 4.67 |
| 19/20 ET | 7.11 | 6.89 | 5.17 | 4.92 | 2.78 | 1.88 | 2.44 | | | | | |
| % | 87% | 100% | 95% | 107% | 113% | 88% | 101% | 0% | 0% | 0% | 0% | 0% |

Orange County

Water Use Efficiency Programs Savings and Implementation Report

Retrofits and Acre-Feet Water Savings for Program Activity

| Program | Program Start Date | Retrofits Installed in | Month Indicated | | Current Fiscal Year | | Overall Program | | |
|---|--------------------|------------------------|-----------------|----------------|---------------------|-------------------|-----------------|-------------------------|-----------------------------|
| | | | Interventions | Water Savings | Interventions | Water Savings | Interventions | Annual Water Savings[4] | Cumulative Water Savings[4] |
| High Efficiency Clothes Washer Program | 2001 | December-19 | 103 | 0.30 | 1,047 | 10.69 | 120,300 | 4,150 | 33,852 |
| Smart Timer Program - Irrigation Timers | 2004 | December-19 | 118 | 1.03 | 2,456 | 40.50 | 26,390 | 8,633 | 55,228 |
| Rotating Nozzles Rebate Program | 2007 | December-19 | 132 | 0.53 | 3,163 | 12.65 | 570,221 | 2,787 | 21,101 |
| Commercial Plumbing Fixture Rebate Program | 2002 | December-19 | 719 | 2.22 | 3,193 | 32.59 | 108,145 | 5,295 | 55,072 |
| Industrial Process/Water Savings Incentive Program (WSIP) | 2006 | December-19 | 0 | 0.00 | 3 | 171.58 | 37 | 1,257 | 4,416 |
| Turf Removal Program ^[3] | 2010 | December-19 | 74,320 | 0.87 | 219,753 | 4.66 | 22,612,806 | 3,166 | 16,455 |
| High Efficiency Toilet (HET) Program | 2005 | December-19 | 17 | 0.06 | 118 | 5.02 | 60,491 | 2,236 | 21,863 |
| Water Smart Landscape Program [1] | 1997 | | | | | | 12,677 | 10,621 | 72,668 |
| Home Water Certification Program | 2013 | | | | | | 312 | 7.339 | 15.266 |
| Synthetic Turf Rebate Program | 2007 | | | | | | 685,438 | 96 | 469 |
| Ultra-Low-Flush-Toilet Programs ^[2] | 1992 | | | | | | 363,926 | 13,452 | 162,561 |
| Home Water Surveys ^[2] | 1995 | | | | | | 11,867 | 160 | 1,708 |
| Showerhead Replacements ^[2] | 1991 | | | | | | 270,604 | 1,667 | 19,083 |
| Total Water Savings All Programs | | | 5 | 229,733 | 278 | 24,843,214 | 53,527 | 464,492 | |

(1) Water Smart Landscape Program participation is based on the number of water meters receiving monthly Irrigation Performance Reports.

(2) Cumulative Water Savings Program To Date totals are from a previous Water Use Efficiency Program Effort.

(3) Turf Removal Interventions are listed as square feet.

(4) Cumulative & annual water savings represents both active program savings and passive savings that continues to be realized due to plumbing code changes over time.

HIGH EFFICIENCY CLOTHES WASHERS INSTALLED BY AGENCY

through MWDOC and Local Agency Conservation Programs

| Agency | FY 12/13 | FY13/14 | FY14/15 | FY15/16 | FY16/17 | FY17/18 | FY18/19 | FY19/20 | FY20/21 | Total | Current FY Water Savings Ac/Ft (Cumulative) | Cumulative Water Savings across all Fiscal Years | 15 yr. Lifecycle Savings Ac/Ft |
|-----------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|----------|----------------|---|--|--------------------------------|
| Brea | 93 | 115 | 114 | 76 | 57 | 55 | 53 | 15 | - | 1,990 | 0.13 | 559.91 | 1,030 |
| Buena Park | 105 | 106 | 91 | 76 | 54 | 50 | 46 | 6 | - | 1,620 | 0.06 | 445.10 | 838 |
| East Orange CWD RZ | 10 | 8 | 8 | 8 | 3 | 1 | 6 | 2 | - | 201 | 0.02 | 59.47 | 104 |
| El Toro WD | 134 | 121 | 111 | 65 | 47 | 50 | 40 | 19 | - | 1,630 | 0.19 | 447.00 | 843 |
| Fountain Valley | 115 | 102 | 110 | 76 | 65 | 48 | 39 | 14 | - | 2,501 | 0.15 | 734.08 | 1,294 |
| Garden Grove | 190 | 162 | 165 | 251 | 127 | 87 | 70 | 16 | - | 3,736 | 0.15 | 1,053.97 | 1,933 |
| Golden State WC | 265 | 283 | 359 | 260 | 138 | 156 | 92 | 38 | - | 5,301 | 0.36 | 1,497.33 | 2,743 |
| Huntington Beach | 334 | 295 | 319 | 225 | 180 | 139 | 93 | 56 | - | 8,534 | 0.49 | 2,542.88 | 4,416 |
| Irvine Ranch WD | 1,763 | 1,664 | 1,882 | 1,521 | 1,369 | 1,194 | 883 | 268 | - | 27,007 | 2.98 | 7,242.13 | 13,974 |
| La Habra | 82 | 114 | 87 | 66 | 53 | 48 | 48 | 18 | - | 1,441 | 0.21 | 391.59 | 746 |
| La Palma | 34 | 25 | 34 | 29 | 10 | 14 | 7 | 7 | - | 486 | 0.08 | 135.22 | 251 |
| Laguna Beach CWD | 38 | 37 | 39 | 32 | 19 | 20 | 18 | 8 | - | 978 | 0.07 | 279.77 | 506 |
| Mesa Water | 114 | 86 | 89 | 113 | 79 | 53 | 42 | 18 | - | 2,630 | 0.18 | 781.43 | 1,361 |
| Moulton Niguel WD | 442 | 421 | 790 | 688 | 574 | 524 | 357 | 148 | - | 10,949 | 1.46 | 2,878.07 | 5,665 |
| Newport Beach | 116 | 92 | 95 | 66 | 61 | 51 | 41 | 15 | - | 2,731 | 0.14 | 823.60 | 1,413 |
| Orange | 218 | 163 | 160 | 124 | 80 | 73 | 56 | 24 | - | 4,051 | 0.25 | 1,213.26 | 2,096 |
| San Juan Capistrano | 76 | 73 | 92 | 63 | 33 | 32 | 23 | 11 | - | 1,525 | 0.09 | 434.95 | 789 |
| San Clemente | 140 | 94 | 141 | 75 | 70 | 83 | 64 | 29 | - | 2,796 | 0.28 | 789.10 | 1,447 |
| Santa Margarita WD | 553 | 662 | 792 | 466 | 367 | 271 | 213 | 131 | - | 10,131 | 1.31 | 2,772.72 | 5,242 |
| Seal Beach | 31 | 29 | 38 | 23 | 9 | 17 | 8 | 11 | - | 638 | 0.10 | 181.28 | 330 |
| Serrano WD | 13 | 10 | 26 | 8 | 11 | 8 | 2 | 2 | - | 369 | 0.01 | 109.83 | 191 |
| South Coast WD | 89 | 79 | 68 | 43 | 44 | 36 | 28 | 15 | - | 1,663 | 0.18 | 469.17 | 860 |
| Trabuco Canyon WD | 30 | 45 | 47 | 34 | 28 | 22 | 13 | 6 | - | 839 | 0.07 | 235.28 | 434 |
| Tustin | 78 | 59 | 80 | 66 | 44 | 48 | 34 | 8 | - | 1,702 | 0.09 | 495.33 | 881 |
| Westminster | 121 | 82 | 109 | 149 | 84 | 65 | 46 | 16 | - | 2,713 | 0.18 | 771.66 | 1,404 |
| Yorba Linda | 181 | 167 | 156 | 123 | 55 | 66 | 43 | 34 | - | 3,894 | 0.35 | 1,163.69 | 2,015 |
| MWDOC Totals | 5,365 | 5,094 | 6,002 | 4,726 | 3,661 | 3,211 | 2,365 | 935 | - | 102,068 | 9.58 | 28,512.26 | 19,719 |
| Anaheim | 331 | 285 | 295 | 266 | 213 | 173 | 135 | 54 | - | 11,044 | 0.55 | 3,324.20 | 5,714 |
| Fullerton | 200 | 186 | 211 | 165 | 107 | 99 | 113 | 48 | - | 3,955 | 0.47 | 1,112.06 | 2,046 |
| Santa Ana | 163 | 131 | 132 | 259 | 141 | 124 | 128 | 10 | - | 3,233 | 0.09 | 903.71 | 1,673 |
| Non-MWDOC Totals | 694 | 602 | 638 | 690 | 461 | 396 | 376 | 112 | - | 18,232 | 1.11 | 5,339.97 | 3,522 |
| Orange County Totals | 6,059 | 5,696 | 6,640 | 5,416 | 4,122 | 3,607 | 2,741 | 1,047 | - | 120,300 | 10.69 | 33,852.23 | 23,241 |

SMART TIMERS INSTALLED BY AGENCY
through MWDOC and Local Agency Conservation Programs

| Agency | FY 12/13 | | FY 13/14 | | FY 14/15 | | FY 15/16 | | FY16/17 | | FY17/18 | | FY18/19 | | FY19/20 | | Total Program | | Cumulative Water Savings across all Fiscal Years |
|-----------------------------|--------------|------------|------------|------------|------------|--------------|--------------|--------------|--------------|--------------|--------------|------------|--------------|------------|--------------|------------|---------------|---------------|--|
| | Res | Comm | Res | Comm | Res | Comm | Res | Comm | Res | Comm | Res | Comm | Res | Comm | Res | Comm | Res | Comm. | |
| Brea | 9 | 8 | 4 | 0 | 43 | 6 | 20 | 4 | 31 | 4 | 32 | 0 | 33 | 0 | 23 | 0 | 219 | 80 | 585.35 |
| Buena Park | 3 | 0 | 0 | 0 | 4 | 10 | 7 | 4 | 10 | 7 | 15 | 3 | 17 | 7 | 15 | 1 | 78 | 52 | 186.72 |
| East Orange CWD RZ | 2 | 0 | 0 | 0 | 2 | 0 | 1 | 0 | 11 | 1 | 6 | 0 | 1 | 0 | 0 | 0 | 32 | 1 | 26.86 |
| El Toro WD | 7 | 2 | 11 | 0 | 8 | 9 | 9 | 17 | 33 | 8 | 29 | 4 | 34 | 0 | 11 | 0 | 189 | 359 | 2,729.70 |
| Fountain Valley | 3 | 2 | 4 | 0 | 7 | 10 | 13 | 1 | 33 | 12 | 28 | 12 | 36 | 4 | 21 | (2) | 176 | 54 | 232.40 |
| Garden Grove | 5 | 2 | 9 | 0 | 10 | 14 | 13 | 11 | 28 | 0 | 27 | 2 | 36 | 3 | 21 | 0 | 185 | 43 | 211.61 |
| Golden State WC | 9 | 49 | 9 | 25 | 39 | 12 | 35 | 16 | 56 | 37 | 88 | 6 | 85 | 15 | 46 | (1) | 444 | 212 | 980.18 |
| Huntington Beach | 18 | 33 | 20 | 35 | 19 | 2 | 42 | 12 | 88 | 94 | 70 | 30 | 105 | 65 | 42 | 11 | 489 | 374 | 1,348.19 |
| Irvine Ranch WD | 414 | 135 | 71 | 59 | 67 | 310 | 239 | 207 | 344 | 420 | 416 | 78 | 379 | 105 | 174 | 17 | 2,738 | 2,486 | 13,162.63 |
| La Habra | 4 | 7 | 2 | 0 | 4 | 7 | 3 | 1 | 12 | 7 | 8 | 0 | 19 | 3 | 14 | (2) | 77 | 45 | 237.72 |
| La Palma | 1 | 0 | 2 | 0 | 2 | 0 | 3 | 2 | 1 | 0 | 5 | 0 | 7 | 0 | 5 | 0 | 27 | 2 | 8.38 |
| Laguna Beach CWD | 76 | 2 | 71 | 0 | 86 | 0 | 86 | 1 | 27 | 0 | 11 | 0 | 8 | 0 | 7 | 0 | 523 | 20 | 272.59 |
| Mesa Water | 10 | 2 | 15 | 2 | 17 | 28 | 36 | 12 | 149 | 41 | 49 | 0 | 34 | 55 | 18 | 0 | 419 | 209 | 894.01 |
| Moulton Niguel WD | 51 | 74 | 40 | 45 | 46 | 95 | 163 | 100 | 236 | 129 | 284 | 33 | 316 | 64 | 141 | (31) | 1,655 | 867 | 4,280.63 |
| Newport Beach | 242 | 26 | 168 | 75 | 11 | 9 | 28 | 43 | 30 | 12 | 24 | 0 | 21 | 0 | 5 | 0 | 1,088 | 409 | 2,941.42 |
| Orange | 20 | 24 | 13 | 9 | 18 | 31 | 51 | 13 | 69 | 10 | 61 | 13 | 93 | 26 | 68 | 0 | 507 | 204 | 1,095.57 |
| San Juan Capistrano | 14 | 18 | 6 | 11 | 6 | 19 | 20 | 8 | 22 | 8 | 23 | 5 | 20 | 1 | 12 | 9 | 277 | 140 | 746.29 |
| San Clemente | 26 | 7 | 28 | 2 | 28 | 24 | 26 | 3 | 37 | 13 | 38 | 41 | 36 | 0 | 23 | 0 | 1,148 | 415 | 3,015.67 |
| Santa Margarita WD | 53 | 171 | 64 | 93 | 53 | 321 | 189 | 136 | 326 | 221 | 273 | 220 | 222 | 37 | 140 | 7 | 1,789 | 1,636 | 6,936.47 |
| Seal Beach | 1 | 0 | 1 | 36 | 1 | 12 | 2 | 2,446 | 2 | 4 | 5 | 0 | 6 | 31 | 6 | 0 | 24 | 2,533 | 6,825.34 |
| Serrano WD | 1 | 0 | 0 | 0 | 4 | 0 | 11 | 2 | 4 | 0 | 8 | 0 | 10 | 0 | 6 | 0 | 62 | 2 | 18.26 |
| South Coast WD | 13 | 16 | 8 | 4 | 104 | 73 | 9 | 11 | 7 | 0 | 15 | 2 | 7 | 7 | 7 | 0 | 307 | 221 | 1,312.17 |
| Trabuco Canyon WD | 6 | 0 | 2 | 0 | 6 | 1 | 16 | 50 | 13 | 3 | 20 | 0 | 33 | 0 | 26 | 0 | 182 | 157 | 1,063.63 |
| Tustin | 8 | 4 | 9 | 1 | 18 | 14 | 33 | 8 | 33 | 23 | 27 | 1 | 37 | 0 | 26 | 0 | 233 | 81 | 404.72 |
| Westminster | 1 | 1 | 2 | 0 | 13 | 17 | 7 | 1 | 17 | 12 | 22 | 0 | 24 | 0 | 15 | 0 | 126 | 44 | 232.49 |
| Yorba Linda | 20 | 0 | 12 | 5 | 32 | 2 | 61 | 27 | 72 | 71 | 68 | 10 | 74 | 4 | 70 | 2 | 550 | 199 | 990.43 |
| MWDOC Totals | 1,017 | 583 | 571 | 402 | 648 | 1,026 | 1,123 | 3,136 | 1,691 | 1,137 | 1,652 | 460 | 1,693 | 427 | 942 | 11 | 13,544 | 10,845 | 50,739.42 |
| Anaheim | 19 | 10 | 9 | 26 | 7 | 52 | 30 | 34 | 87 | 10 | 66 | 0 | 142 | 73 | 74 | 3 | 526 | 533 | 2,981.41 |
| Fullerton | 9 | 29 | 8 | 0 | 40 | 26 | 32 | 12 | 53 | 7 | 45 | 0 | 77 | 0 | 41 | 8 | 362 | 207 | 1,083.63 |
| Santa Ana | 8 | 19 | 7 | 8 | 9 | 27 | 22 | 26 | 15 | 3 | 16 | 0 | 24 | 20 | 11 | 120 | 133 | 240 | 423.47 |
| Non-MWDOC Totals | 36 | 58 | 24 | 34 | 56 | 105 | 84 | 72 | 155 | 20 | 127 | 0 | 243 | 93 | 126 | 131 | 1021 | 980 | 4,488.51 |
| Orange County Totals | 1,053 | 641 | 595 | 436 | 704 | 1,131 | 1,207 | 3,208 | 1,846 | 1,157 | 1,779 | 460 | 1,936 | 520 | 1,068 | 142 | 14,565 | 11,825 | 55,228 |

ROTATING NOZZLES INSTALLED BY AGENCY
through MWDOC and Local Agency Conservation Programs

| Agency | FY 13/14 | | | FY 14/15 | | | FY 15/16 | | | FY 16/17 | | | FY 17/18 | | | FY 18/19 | | | FY 19/20 | | | Total Program | | | Cumulative Water Savings across all Fiscal Years |
|-----------------------------|---------------|---------------|----------|---------------|---------------|----------|---------------|---------------|----------|--------------|---------------|----------|--------------|-------------|----------|--------------|--------------|----------|------------|--------------|----------|----------------|----------------|---------------|--|
| | Small | | Large | Small | | Large | Small | | Large | Small | | Large | Small | | Large | Small | | Large | Small | | Large | Small | | Large | |
| | Res | Comm. | Comm. | Res | Comm. | Comm. | Res | Comm. | Comm. | Res | Comm. | Comm. | Res | Comm. | Comm. | Res | Comm. | Comm. | Res | Comm. | Comm. | Res | Comm. | Comm. | |
| Brea | 84 | 0 | 0 | 157 | 45 | 0 | 74 | 2,484 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 572 | 2,749 | 0 | 62.74 |
| Buena Park | 53 | 0 | 0 | 248 | 0 | 0 | 45 | 98 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 49 | 0 | 0 | 558 | 173 | 2,535 | 904.56 |
| East Orange | 30 | 0 | 0 | 221 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 781 | 0 | 0 | 22.41 |
| El Toro | 56 | 3,288 | 0 | 1,741 | 28,714 | 0 | 730 | 4,457 | 0 | 55 | 242 | 0 | 36 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3,405 | 46,222 | 890 | 1,421.25 |
| Fountain Valley | 0 | 0 | 0 | 107 | 0 | 0 | 222 | 0 | 0 | 0 | 0 | 0 | 85 | 0 | 0 | 0 | 283 | 0 | 0 | 0 | 0 | 795 | 283 | 0 | 21.86 |
| Garden Grove | 80 | 0 | 0 | 88 | 50 | 0 | 110 | 0 | 0 | 55 | 98 | 0 | 52 | 0 | 0 | 0 | 0 | 0 | 72 | 0 | 0 | 1,057 | 299 | 0 | 37.86 |
| Golden State | 192 | 0 | 0 | 583 | 1,741 | 0 | 1,088 | 0 | 0 | 207 | 6,008 | 0 | 161 | -495 | 0 | 35 | 259 | 0 | 63 | 1,652 | 0 | 3,707 | 12,732 | 0 | 299.31 |
| Huntington Beach | 120 | 0 | 0 | 798 | 1,419 | 0 | 1,345 | 2,836 | 0 | 149 | 3,362 | 0 | -37 | 0 | 0 | 0 | 0 | 0 | 30 | 0 | 0 | 3,790 | 12,526 | 2,681 | 1,469.75 |
| Irvine Ranch | 11,010 | 4,257 | 0 | 1,421 | 632 | 0 | 1,989 | 5,047 | 0 | 335 | 9,511 | 0 | 356 | -215 | 0 | 72 | 0 | 0 | 119 | 0 | 0 | 47,684 | 94,346 | 2,004 | 5,382.59 |
| La Habra | 15 | 0 | 0 | 109 | 338 | 0 | 300 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 481 | 1,236 | 900 | 404.34 |
| La Palma | 0 | 0 | 0 | 0 | 0 | 0 | 46 | 505 | 0 | 0 | 2,385 | 0 | 33 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 89 | 2,890 | 0 | 38.12 |
| Laguna Beach | 2,948 | 878 | 0 | 2,879 | 1,971 | 0 | 1,390 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 12,139 | 2,896 | 0 | 361.30 |
| Mesa Water | 361 | 0 | 0 | 229 | 0 | 0 | 166 | 0 | 0 | 113 | 0 | 0 | 36 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2,066 | 385 | 343 | 217.09 |
| Moulton Niguel | 361 | 227 | 0 | 1,596 | 4,587 | 0 | 5,492 | 1,441 | 0 | 153 | 5,872 | 0 | 893 | 0 | 0 | 713 | 38 | 153 | 347 | 0 | 0 | 13,827 | 20,553 | 2,945 | 1,931.13 |
| Newport Beach | 19,349 | 6,835 | 0 | 460 | 3,857 | 0 | 348 | 670 | 0 | 0 | 0 | 0 | 45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 46,723 | 21,413 | 0 | 1,856.70 |
| Orange | 245 | 120 | 0 | 304 | 668 | 0 | 631 | 91 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30 | 0 | 0 | 67 | 0 | 0 | 3,267 | 1,072 | 0 | 126.33 |
| San Juan Capistrano | 370 | 0 | 0 | 495 | 737 | 0 | 310 | 593 | 0 | 75 | 123 | 0 | 59 | 0 | 0 | 40 | 1,400 | 0 | 58 | 0 | 0 | 5,652 | 10,252 | 0 | 509.09 |
| San Clemente | 415 | 5,074 | 0 | 326 | 0 | 0 | 426 | 0 | 0 | 0 | 0 | 0 | 146 | 0 | 0 | 0 | 0 | 0 | 35 | 0 | 0 | 10,170 | 7,538 | 1,343 | 917.84 |
| Santa Margarita | 389 | 0 | 0 | 1,207 | 1,513 | 0 | 1,820 | 837 | 0 | 15 | 0 | 0 | 224 | 0 | 0 | 30 | 0 | 0 | 194 | 0 | 0 | 16,613 | 6,921 | 611 | 939.56 |
| Seal Beach | 0 | 0 | 0 | 40 | 5,261 | 0 | 0 | 2,300 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 155 | 7,852 | 0 | 159.45 |
| Serrano | 105 | 0 | 0 | 377 | 0 | 0 | 695 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3,405 | 0 | 0 | 106.90 |
| South Coast | 70 | 0 | 0 | 4,993 | 13,717 | 0 | 1,421 | 2,889 | 0 | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8,130 | 18,870 | 0 | 580.71 |
| Trabuco Canyon | 0 | 0 | 0 | 56 | 0 | 0 | 130 | 0 | 0 | 0 | 4,339 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2,086 | 5,130 | 0 | 160.44 |
| Tustin | 329 | 0 | 0 | 408 | 0 | 0 | 317 | 386 | 0 | 65 | -341 | 0 | 30 | 0 | 0 | 47 | 0 | 0 | 0 | 0 | 0 | 3,448 | 1,058 | 0 | 138.85 |
| Westminster | 0 | 0 | 0 | 54 | 0 | 0 | 73 | 0 | 0 | 105 | 0 | 0 | 50 | 0 | 0 | 42 | 0 | 0 | 0 | 0 | 0 | 556 | 0 | 0 | 13.41 |
| Yorba Linda | 40 | 990 | 0 | 921 | 0 | 0 | 1,715 | 0 | 0 | 213 | 0 | 0 | 0 | 0 | 0 | 34 | 0 | 0 | 0 | 0 | 0 | 6,115 | 4,359 | 500 | 519.44 |
| MWDOC Totals | 36,622 | 21,669 | 0 | 19,818 | 65,250 | 0 | 20,883 | 24,634 | 0 | 1,556 | 31,599 | 0 | 2,199 | -710 | 0 | 1,043 | 1,980 | 0 | ### | 1,652 | 0 | 197,271 | 281,755 | 14,752 | 18,603.02 |
| Anaheim | 338 | 0 | 0 | 498 | 712 | 0 | 794 | 5,221 | 0 | 147 | 3,953 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4,020 | 49,799 | 105 | 1,569.31 |
| Fullerton | 107 | 0 | 0 | 684 | 1,196 | 0 | 521 | 7,015 | 0 | 65 | 3,034 | 0 | 0 | 0 | 0 | 140 | 0 | 0 | 31 | 0 | 0 | 3,081 | 11,309 | 1,484 | 778.09 |
| Santa Ana | 86 | 2,533 | 0 | 310 | 0 | 0 | 0 | 1,420 | 0 | 0 | 1,106 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 34 | 0 | 0 | 893 | 5,752 | 0 | 150.90 |
| Non-MWDOC Totals | 531 | 2,533 | 0 | 1,492 | 1,908 | 0 | 1,315 | 13,656 | 0 | 212 | 8,093 | 0 | 0 | 0 | 0 | 140 | 0 | 0 | 65 | 0 | 0 | 7,994 | 66,860 | 1,589 | 2,498.29 |
| Orange County Totals | 37,153 | 24,202 | 0 | 21,310 | 67,158 | 0 | 22,198 | 38,290 | 0 | 1,768 | 39,692 | 0 | 2,199 | -710 | 0 | 1,183 | 1,980 | 0 | ### | 1,652 | 0 | 205,265 | 348,615 | 16,341 | 21,101.31 |

COMMERCIAL PLUMBING FIXTURES INSTALLED BY AGENCY^[1]
through MWDOC and Local Agency Conservation Programs

| Agency | FY 12/13 | FY 13/14 | FY 14/15 | FY 15/16 | FY 16/17 | FY 17/18 | FY 18/19 | FY 19/20 | Totals | Cumulative Water Savings across all Fiscal Years |
|-----------------------------|--------------|--------------|--------------|---------------|---------------|--------------|---------------|--------------|----------------|--|
| Brea | 234 | 0 | 10 | 91 | 734 | 242 | 0 | 73 | 1,680 | 671 |
| Buena Park | 5 | 23 | 56 | 591 | 133 | 49 | 0 | 94 | 2,632 | 1,510 |
| East Orange CWD RZ | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| El Toro WD | 0 | 212 | 6 | 268 | 35 | 737 | 717 | 0 | 2,516 | 840 |
| Fountain Valley | 0 | 0 | 1 | 249 | 0 | 895 | 0 | 289 | 2,056 | 847 |
| Garden Grove | 4 | 1 | 167 | 676 | 410 | 0 | 354 | 331 | 3,136 | 1,991 |
| Golden State WC | 0 | 1 | 0 | 1,008 | 53 | 93 | 86 | 80 | 3,124 | 2,479 |
| Huntington Beach | 104 | 144 | 7 | 783 | 641 | 10 | 208 | 0 | 3,172 | 2,139 |
| Irvine Ranch WD | 1,090 | 451 | 725 | 11,100 | 5,958 | 1,599 | 1,000 | 15 | 30,480 | 11,073 |
| La Habra | 0 | 0 | 0 | 340 | 42 | 0 | 0 | 59 | 984 | 725 |
| La Palma | 0 | 0 | 0 | 0 | 509 | 0 | 0 | 0 | 675 | 187 |
| Laguna Beach CWD | 0 | 27 | 0 | 0 | 0 | 0 | 0 | 0 | 446 | 404 |
| Mesa Water | 6 | 0 | 79 | 661 | 782 | 0 | 110 | 19 | 4,383 | 2,792 |
| Moulton Niguel WD | 0 | 0 | 3 | 413 | 281 | 506 | 4,392 | 285 | 6,460 | 1,473 |
| Newport Beach | 0 | 0 | 566 | 0 | 0 | 0 | 1,596 | 16 | 3,446 | 1,804 |
| Orange | 1 | 271 | 81 | 275 | 2,851 | 458 | 532 | 251 | 6,271 | 2,539 |
| San Juan Capistrano | 0 | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 260 | 488 |
| San Clemente | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 321 | 753 | 487 |
| Santa Margarita WD | 0 | 0 | 2 | 90 | 743 | 598 | 699 | 0 | 2,247 | 452 |
| Seal Beach | 0 | 0 | 0 | 0 | 184 | 278 | 0 | 0 | 816 | 565 |
| Serrano WD | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| South Coast WD | 148 | 0 | 382 | 0 | 0 | 0 | 0 | 0 | 1,320 | 714 |
| Trabuco Canyon WD | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 | 19 |
| Tustin | 0 | 0 | 75 | 358 | 212 | 2 | 408 | 207 | 2,019 | 1,134 |
| Westminster | 1 | 28 | 0 | 146 | 177 | 25 | 0 | 0 | 1,163 | 1,287 |
| Yorba Linda | 1 | 0 | 0 | 226 | 84 | 338 | 0 | 83 | 1,016 | 749 |
| MWDOC Totals | 1,594 | 1,172 | 2,161 | 17,275 | 13,829 | 5,830 | 10,102 | 2,123 | 81,066 | 37,368 |
| Anaheim | 165 | 342 | 463 | 3,072 | 309 | 1,808 | 686 | 585 | 16,832 | 9,326 |
| Fullerton | 94 | 0 | 178 | 476 | 621 | 274 | 384 | 356 | 3,792 | 2,252 |
| Santa Ana | 16 | 17 | 5 | 1,293 | 238 | 582 | 7 | 129 | 6,455 | 6,127 |
| Non-MWDOC Totals | 275 | 359 | 646 | 4,841 | 1,168 | 2,664 | 1,077 | 1,070 | 27,079 | 17,705 |
| Orange County Totals | 1,869 | 1,531 | 2,807 | 22,116 | 14,997 | 8,494 | 11,179 | 3,193 | 108,145 | 55,072 |

[1] Retrofit devices include ULF Toilets and Urinals, High Efficiency Toilets and Urinals, Multi-Family and Multi-Family 4-Liter HETs, Zero Water Urinals, High Efficiency Clothes Washers, Cooling Tower Conductivity Controllers, Ph Cooling Tower Conductivity Controllers, Flush Valve Retrofit Kits, Pre-rinse Spray heads, Hospital X-Ray Processor Recirculating Systems, Steam Sterilizers, Food Steamers, Water Pressurized Brooms, Laminar Flow Restrictors, and Ice Making Machines.

INDUSTRIAL PROCESS/WATER SAVINGS INCENTIVE PROGRAM

Number of Projects by Agency

| Agency | FY 11/12 | FY 12/13 | FY 13/14 | FY 14/15 | FY 15/16 | FY 16/17 | FY 17/18 | FY 18/19 | FY 19/20 | Overall Program Interventions | Annual Water Savings[1] | Cumulative Water Savings across all Fiscal Years[1] |
|---------------------|----------|----------|----------|----------|-----------|----------|----------|----------|----------|-------------------------------|-------------------------|---|
| Brea | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Buena Park | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 2 | 54 | 596 |
| East Orange | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| El Toro | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 9 | 12 |
| Fountain Valley | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 23 | 65 |
| Garden Grove | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 2 | 7 | 2 |
| Golden State | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 58 | 44 |
| Huntington Beach | 0 | 2 | 0 | 1 | 2 | 0 | 1 | 0 | 0 | 6 | 180 | 882 |
| Irvine Ranch | 1 | 1 | 1 | 0 | 2 | 1 | 1 | 0 | 0 | 10 | 119 | 841 |
| La Habra | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| La Palma | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Laguna Beach | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mesa Water | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Moulton Niguel | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Newport Beach | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 21 | 108 |
| Orange | 0 | 0 | 0 | 0 | 1 | 2 | 1 | 0 | 0 | 5 | 97 | 666 |
| San Juan Capistrano | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| San Clemente | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Santa Margarita | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Seal Beach | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Serrano | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| South Coast | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 2 | 134 | 381 |
| Trabuco Canyon | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Tustin | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Westminster | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 117 | 78 |
| Yorba Linda | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 20 | 27 |
| MWDOC Totals | 1 | 3 | 1 | 2 | 9 | 5 | 3 | 3 | 2 | 35 | 840 | 3702 |
| Anaheim | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fullerton | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 282 | 117 |
| Santa Ana | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 135 | 597 |
| OC Totals | 1 | 3 | 1 | 2 | 10 | 5 | 3 | 3 | 3 | 37 | 1257 | 4416 |

[1] Acre feet of savings determined during a one year monitoring period.

If monitoring data is not available, the savings estimated in agreement is used.

TURF REMOVAL BY AGENCY^[1]
through MWDOC and Local Agency Conservation Programs

| Agency | FY 13/14 | | FY 14/15 | | FY 15/16 | | FY 16/17 | | FY 17/18 | | FY 18/19 | | FY 19/20 | | Total Program | | Cumulative Water Savings across all Fiscal Years |
|---------------------|----------------|----------------|------------------|------------------|------------------|------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|---------------|------------------|-------------------|--|
| | Res | Comm. | Res | Comm. | Res | Comm. | Res | Comm. | Res | Comm. | Res | Comm. | Res | Comm. | Res | Comm. | |
| Brea | 5,697 | 0 | 71,981 | 30,617 | 118,930 | 404,411 | 8,354 | 479 | 9,853 | 27,234 | 3,180 | 44,733 | 2,026 | 0 | 228,997 | 516,940 | 511.56 |
| Buena Park | 0 | 0 | 11,670 | 1,626 | 77,127 | 16,490 | 3,741 | 0 | 4,586 | 0 | 1,230 | 0 | 4,754 | 0 | 98,354 | 18,116 | 80.42 |
| East Orange | 1,964 | 0 | 18,312 | 0 | 27,844 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 48,120 | 0 | 36.80 |
| El Toro | 4,582 | 0 | 27,046 | 221,612 | 63,546 | 162,548 | 13,139 | 48,019 | 7,273 | 42,510 | 12,856 | 9,895 | 1,060 | 0 | 137,845 | 557,302 | 518.81 |
| Fountain Valley | 4,252 | 0 | 45,583 | 5,279 | 65,232 | 0 | 3,679 | 0 | 8,631 | 0 | 5,764 | 28,700 | 734 | 0 | 135,123 | 41,503 | 117.51 |
| Garden Grove | 8,274 | 0 | 67,701 | 22,000 | 177,408 | 49,226 | 11,504 | 0 | 4,487 | 0 | 0 | 0 | 0 | 0 | 287,921 | 117,403 | 337.17 |
| Golden State | 32,725 | 8,424 | 164,507 | 190,738 | 310,264 | 112,937 | 0 | 0 | 0 | 0 | 0 | 48,595 | 0 | 0 | 581,902 | 394,867 | 780.47 |
| Huntington Beach | 20,642 | 0 | 165,600 | 58,942 | 305,420 | 270,303 | 9,560 | 21,534 | 14,236 | 6,032 | 9,539 | 40,135 | 6,129 | 0 | 562,647 | 461,872 | 775.67 |
| Irvine Ranch | 36,584 | 76,400 | 234,905 | 317,999 | 782,844 | 2,675,629 | 231,483 | 46,725 | 86,893 | 61,037 | 55,346 | 203,014 | 19,931 | 0 | 1,472,812 | 3,427,648 | 3,374.41 |
| La Habra | 0 | 0 | 14,014 | 1,818 | 49,691 | 72,164 | 0 | 0 | 3,003 | 0 | 1,504 | 0 | 1,682 | 0 | 68,212 | 90,019 | 121.15 |
| La Palma | 0 | 0 | 4,884 | 0 | 10,257 | 59,760 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 15,141 | 59,760 | 53.11 |
| Laguna Beach | 4,586 | 226 | 13,647 | 46,850 | 47,614 | 0 | 3,059 | 0 | 589 | 0 | 0 | 1,217 | 0 | 0 | 75,670 | 48,788 | 100.20 |
| Mesa Water | 22,246 | 0 | 131,675 | 33,620 | 220,815 | 106,896 | 4,173 | 77,033 | 17,373 | 77,785 | 3,023 | 0 | 5,534 | 0 | 416,749 | 295,334 | 483.49 |
| Moulton Niguel | 14,739 | 40,741 | 314,250 | 1,612,845 | 889,748 | 1,059,279 | 220,749 | 0 | 98,271 | 0 | 106,574 | 0 | 55,071 | 0 | 1,661,308 | 2,840,054 | 3,389.00 |
| Newport Beach | 894 | 0 | 33,995 | 65,277 | 76,675 | 375,404 | 2,924 | 0 | 5,938 | 6,499 | 0 | 90,403 | 0 | 0 | 127,428 | 539,929 | 442.10 |
| Orange | 11,244 | 0 | 120,093 | 281,402 | 289,990 | 106,487 | 12,847 | 2,366 | 11,956 | 0 | 13,645 | 1,798 | 490 | 0 | 488,697 | 400,776 | 685.96 |
| San Clemente | 18,471 | 13,908 | 90,349 | 1,137 | 215,249 | 438,963 | 4,267 | 0 | 33,083 | 7,098 | 6,500 | 0 | 3,987 | 3,064 | 405,483 | 474,271 | 641.80 |
| San Juan Capistrano | 12,106 | 0 | 101,195 | 32,366 | 197,290 | 143,315 | 2,624 | 40,748 | 0 | 0 | 0 | 0 | 0 | 0 | 365,415 | 347,277 | 609.46 |
| Santa Margarita | 17,778 | 48,180 | 211,198 | 514,198 | 534,048 | 550,420 | 17,010 | 28,094 | 62,706 | 25,000 | 24,616 | 23,198 | 6,616 | 38,074 | 883,954 | 1,217,651 | 1,551.53 |
| Seal Beach | 0 | 0 | 15,178 | 504 | 17,349 | 15,911 | 1,234 | 0 | 752 | 0 | 0 | 0 | 0 | 0 | 38,124 | 16,415 | 41.40 |
| Serrano | 2,971 | 0 | 41,247 | 0 | 127,877 | 4,403 | 5,450 | 0 | 555 | 0 | 4,000 | 0 | 840 | 0 | 182,100 | 4,403 | 134.48 |
| South Coast | 15,162 | 116,719 | 84,282 | 191,853 | 181,102 | 128,290 | 14,967 | 0 | 13,319 | 7,806 | 7,574 | 0 | 0 | 0 | 332,641 | 465,387 | 641.09 |
| Trabuco Canyon | 2,651 | 0 | 14,771 | 0 | 42,510 | 88,272 | 1,465 | 0 | 4,788 | 0 | 1,536 | 0 | 432 | 49,533 | 69,535 | 110,712 | 136.34 |
| Tustin | 1,410 | 0 | 71,285 | 14,137 | 232,697 | 33,362 | 11,173 | 0 | 16,926 | 0 | 13,189 | 6,894 | 7,495 | 6,936 | 356,660 | 54,393 | 287.17 |
| Westminster | 0 | 0 | 14,040 | 34,631 | 71,833 | 23,902 | 11,112 | 0 | 10,033 | 0 | 5,924 | 0 | 1,962 | 0 | 112,942 | 58,533 | 118.59 |
| Yorba Linda | 0 | 0 | 112,136 | 12,702 | 360,279 | 116,985 | 19,420 | 0 | 9,529 | 3,696 | 12,590 | 12,020 | 2,186 | 0 | 525,303 | 145,403 | 476.30 |
| MWDOC Totals | 238,978 | 304,598 | 2,195,544 | 3,692,153 | 5,493,639 | 7,015,357 | 613,934 | 264,998 | 424,780 | 264,697 | 288,590 | 509,385 | 122,146 | 97,607 | 9,679,083 | 12,704,756 | 16,445.98 |

| | | | | | | | | | | | | | | | | | |
|-------------------------|----------|--------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|--------------|-------------|
| Anaheim | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| Fullerton | 0 | 9,214 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9,214 | 9.03 |
| Santa Ana | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| Non-MWDOC Totals | 0 | 9,214 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9,214 | 9.03 |

| | | | | | | | | | | | | | | | | | |
|-----------------------------|----------------|----------------|------------------|------------------|------------------|------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|---------------|------------------|-------------------|---------------|
| Orange County Totals | 238,978 | 313,812 | 2,195,544 | 3,692,153 | 5,493,639 | 7,015,357 | 613,934 | 264,998 | 424,780 | 264,697 | 288,590 | 509,385 | 122,146 | 97,607 | 9,679,083 | 12,713,970 | 16,455 |
|-----------------------------|----------------|----------------|------------------|------------------|------------------|------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|---------------|------------------|-------------------|---------------|

[1] Installed device numbers are listed as square feet

HIGH EFFICIENCY TOILETS (HETs) INSTALLED BY AGENCY

through MWDOC and Local Agency Conservation Programs

| Agency | FY 12-13 | FY 13-14 | FY 14-15 | FY 15-16 | FY 16-17 | FY 17-18 | FY 18-19 | FY 19-20 | FY 20-21 | Total | Cumulative Water Savings across all Fiscal Years |
|-----------------------------|--------------|--------------|---------------|---------------|--------------|------------|------------|------------|----------|---------------|--|
| Brea | 0 | 38 | 146 | 154 | 4 | 6 | 1 | 0 | 0 | 457 | 135.98 |
| Buena Park | 0 | 96 | 153 | 112 | 13 | 3 | 0 | 2 | 0 | 689 | 244.67 |
| East Orange CWD RZ | 0 | 13 | 26 | 24 | 0 | 0 | 0 | 2 | 0 | 88 | 27.92 |
| El Toro WD | 133 | 218 | 869 | 264 | 12 | 6 | 10 | 2 | 0 | 2,055 | 699.42 |
| Fountain Valley | 0 | 41 | 132 | 220 | 7 | 8 | 1 | 3 | 0 | 835 | 314.34 |
| Garden Grove | 0 | 63 | 350 | 363 | 7 | 4 | 5 | 0 | 0 | 1,493 | 538.63 |
| Golden State WC | 2 | 142 | 794 | 512 | 9 | 11 | 5 | 6 | 0 | 2,812 | 997.63 |
| Huntington Beach | 0 | 163 | 1,190 | 628 | 4 | 3 | 4 | 2 | 0 | 2,910 | 946.09 |
| Irvine Ranch WD | 1,449 | 810 | 1,777 | 2,798 | 638 | 239 | 162 | 48 | 0 | 17,358 | 6,771.40 |
| Laguna Beach CWD | 0 | 45 | 112 | 81 | 1 | 4 | 0 | 2 | 0 | 394 | 134.95 |
| La Habra | 0 | 37 | 94 | 83 | 5 | 1 | 0 | 0 | 0 | 591 | 241.01 |
| La Palma | 0 | 21 | 59 | 52 | 4 | 2 | 4 | 3 | 0 | 231 | 76.14 |
| Mesa Water | 0 | 147 | 162 | 162 | 7 | 3 | 3 | 1 | 0 | 1,625 | 719.42 |
| Moulton Niguel WD | 0 | 400 | 2,497 | 1,939 | 49 | 38 | 21 | 14 | 0 | 5,763 | 1,590.90 |
| Newport Beach | 0 | 49 | 168 | 243 | 11 | 6 | 0 | 0 | 0 | 731 | 239.39 |
| Orange | 1 | 142 | 978 | 416 | 17 | 10 | 5 | 2 | 0 | 2,196 | 702.57 |
| San Juan Capistrano | 0 | 35 | 140 | 202 | 3 | 9 | 4 | 0 | 0 | 536 | 162.75 |
| San Clemente | 0 | 72 | 225 | 246 | 11 | 6 | 10 | 1 | 0 | 889 | 294.17 |
| Santa Margarita WD | 0 | 528 | 997 | 1,152 | 114 | 33 | 11 | 6 | 0 | 3,359 | 937.49 |
| Seal Beach | 2 | 17 | 50 | 69 | -1 | 0 | 0 | 0 | 0 | 857 | 458.19 |
| Serrano WD | 0 | 2 | 40 | 55 | 3 | 0 | 3 | 0 | 0 | 124 | 34.09 |
| South Coast WD | 64 | 102 | 398 | 235 | 11 | 7 | 0 | 0 | 0 | 1,028 | 310.30 |
| Trabuco Canyon WD | 0 | 10 | 108 | 169 | 2 | 3 | 2 | 0 | 0 | 344 | 92.48 |
| Tustin | 0 | 64 | 132 | 201 | 12 | 10 | 4 | 4 | 0 | 1,524 | 654.64 |
| Westminster | 0 | 35 | 161 | 359 | 3 | 4 | 0 | 0 | 0 | 1,335 | 517.35 |
| Yorba Linda WD | 0 | 40 | 280 | 379 | 12 | 8 | 2 | 1 | 0 | 1,262 | 442.53 |
| MWDOC Totals | 1,651 | 3,330 | 12,038 | 11,118 | 958 | 424 | 257 | 99 | 0 | 51,486 | 18,284.44 |
| | | | | | | | | | | | |
| Anaheim | 0 | 156 | 1,188 | 614 | 70 | 19 | 5 | 7 | 0 | 5,896 | 2,444.42 |
| Fullerton | 0 | 61 | 293 | 286 | 14 | 9 | 8 | 5 | 0 | 1,077 | 360.31 |
| Santa Ana | 0 | 33 | 602 | 293 | 20 | 0 | 4 | 3 | 0 | 2,028 | 774.15 |
| Non-MWDOC Totals | 0 | 250 | 2,083 | 1,193 | 104 | 28 | 17 | 15 | 0 | 9,001 | 3,578.88 |
| | | | | | | | | | | | |
| Orange County Totals | 1,651 | 3,580 | 14,121 | 12,311 | 1,062 | 452 | 274 | 114 | 0 | 60,487 | 21,863.32 |

I hereby certify that the following Agenda was posted at least 72 hours prior to the time of the Board Meeting so noticed below, at the usual agenda posting location of the South Orange County Wastewater Authority [SOCWA] and at www.socwa.com.



Betty Burnett, General Manager
SOCWA and the Board of Directors thereof

AGENDA

*Regular Meeting of The
South Orange County Wastewater Authority
Board of Directors*

February 6, 2020
8:30 a.m.

THE BOARD OF DIRECTORS MEETING ROOM IS LOCATED AT 34156 DEL OBISPO STREET, DANA POINT, CA. THE ROOM IS WHEELCHAIR ACCESSIBLE. IF YOU REQUIRE ANY SPECIAL DISABILITY-RELATED ACCOMMODATIONS (I.E., ACCESS TO AN AMPLIFIED SOUND SYSTEM, ETC.), PLEASE CONTACT THE SOUTH ORANGE COUNTY WASTEWATER AUTHORITY'S BOARD SECRETARY'S OFFICE AT 949-234-5452 AT LEAST SEVENTY-TWO (72) HOURS PRIOR TO THE SCHEDULED MEETING. THIS AGENDA CAN BE OBTAINED IN AN ALTERNATE FORMAT UPON WRITTEN REQUEST TO THE SOUTH ORANGE COUNTY WASTEWATER AUTHORITY BOARD SECRETARY AT LEAST SEVENTY-TWO (72) HOURS PRIOR TO THE SCHEDULED MEETING.

AGENDA ATTACHMENTS AND OTHER WRITINGS THAT ARE DISCLOSABLE PUBLIC RECORDS DISTRIBUTED TO ALL, OR A MAJORITY OF, THE MEMBERS OF THE SOUTH ORANGE COUNTY WASTEWATER AUTHORITY BOARD OF DIRECTORS IN CONNECTION WITH A MATTER SUBJECT TO DISCUSSION OR CONSIDERATION AT AN OPEN MEETING OF THE BOARD OF DIRECTORS ARE AVAILABLE FOR PUBLIC INSPECTION IN THE AUTHORITY OFFICE, 34156 DEL OBISPO STREET, DANA POINT, CA ("AUTHORITY OFFICE"). IF SUCH WRITINGS ARE DISTRIBUTED TO MEMBERS OF THE BOARD OF DIRECTORS LESS THAN SEVENTY-TWO (72) HOURS PRIOR TO THE MEETING, THEY WILL BE AVAILABLE IN THE RECEPTION AREA OF THE AUTHORITY OFFICE AT THE SAME TIME AS THEY ARE DISTRIBUTED TO THE BOARD OF DIRECTORS, EXCEPT THAT, IF SUCH WRITINGS ARE DISTRIBUTED IMMEDIATELY PRIOR TO, OR DURING, THE MEETING, THEY WILL BE AVAILABLE IN THE BOARD OF DIRECTORS MEETING ROOM.

- 1. CALL MEETING TO ORDER
- 2. PLEDGE OF ALLEGIANCE
- 3. ORAL COMMUNICATIONS

Members of the public may address the board regarding an item on the agenda or may reserve this opportunity during the meeting at the time the item is discussed by the board. There will be a three-minute limit for public comments.

4. CONSENT CALENDAR

- A. Minutes of Board of Directors Meeting 1
 - 1. Board of Directors Meeting January 9, 2020

ACTION The Board will be requested to approve subject Minutes

AGENDA
South Orange County Wastewater Authority
Board of Directors Meeting
February 6, 2020

PAGE NO

- B. Minutes of Executive Committee Meeting7
1. Executive Committee Meeting April 16, 2019

ACTION The Board will be requested to receive and file subject Minutes

- C. Minutes of Engineering Committee Meeting9
1. Engineering Committee Meeting September 12, 2019
2. Engineering Committee Meeting October 10, 2019

ACTION The Board will be requested to receive and file subject Minutes

- D. Minutes of PC-15 Committee Meeting 15
1. PC-15 Committee Meeting November 14, 2019

ACTION The Board will be requested to receive and file subject Minutes

- E. Financial Reports for the Month of December 2019..... 17
1. Summary of Disbursements for December 2019 (Exhibit A)
2. Schedule of Funds Available for Reinvestment (Exhibit B)
 ➤ Local Agency Investment Fund (LAIF)
3. Schedule of Cash and Investments (Exhibit C)
4. Capital Schedule (Exhibit D)
 ➤ Capital Projects – Graph (Exhibit D-1)
5. Budget vs. Actual Expenses:
 ➤ Operations and Environmental Summary (Exhibit E-1)
 ➤ Operations and Environmental by PC (E-1.2)
 ➤ Residual Engineering, after transfer to Capital (Exhibit E-2)
 ➤ Administration (Exhibit E-3)
 ➤ Information Technology (IT) (Exhibit E-4)

ACTION Information Item

- F. Fiscal Year 2018-19 Additional Cash Distribution to Member Agencies 36

ACTION Staff recommends to the Board of Directors to authorize staff to proceed with distribution of the Additional Cash from Other Sources to the Member Agencies as presented.

- G. Operational Reports – December 2019 38
1. Monthly Operations Report – December 2019
2. Ocean Outfall Discharges
3. Quarterly Report on Key Operational Expenses
4. Beach/Ocean Monitoring Report
5. Recycled Water Report
6. Pretreatment Report – January 2019

AGENDA
 South Orange County Wastewater Authority
 Board of Directors Meeting
 February 6, 2020

ACTION The Board will be requested to receive and file the
 December 2019 Operations Reports

H. Capital Improvement Program Status Report 92

ACTION The Board will be requested to receive and file report(s)

5. GENERAL MANAGER'S REPORTS

A. Small Capital Contract for CTP Roof Fan Installation Project by SS Mechanical
 Construction [PC-15] 106

ACTION Staff recommends the Project Committee No. 15 Board of Directors
 to authorize the General Manager to execute a construction
 contract for installing roof fans at CTP with SS Mechanical
 Construction in the amount of \$61,581.25.

B. Small Capital Contract for RTP Drain Slip Lining by Performance Pipeline [PC-17] .. 108

ACTION Staff recommends the Project Committee No. 17 Board of Directors
 authorize the General Manager to execute a construction contract
 for slip lining the RTP drain line with Performance Pipe at a cost of
 \$119,985.00.

C. Southern California Association of POTW's (SCAP) Update 110

ACTION Information Item

D. Request from CASA Renewable Resources for Research Funding Participation 120

ACTION Board of Directors to authorize expending \$2,000 in support of
 CASA technical review of the OEHHA recommendations on PFAS
 response and notification levels.

E. Resolution 2020-03, A Resolution of the South Orange County Wastewater
 Authority Establishing a Disaster Purchasing Policy 133

ACTION Staff recommends that the Board of Directors adopt Resolution
 2020-03, A Resolution of the South Orange County Wastewater
 Authority Establishing a Disaster Purchasing Policy.

F. General Manager's Status Report 146

ACTION Information and discussion

6. OTHER MATTERS

A. Open discussion or items received too late to be agendized.

AGENDA
South Orange County Wastewater Authority
Board of Directors Meeting
February 6, 2020

Note: Determine the need to take action on the following item(s) introduced by the General Manager which arose subsequent to the agenda being posted.

[Adoption of this action requires a two-thirds vote of the Board, or if less than two-thirds are present a unanimous vote.]

7. CLOSED SESSION

A. Closed Session Pursuant to Government Code Section 54957

1. Public Employee Performance Evaluation – Title: General Manager

ADJOURNMENT

THE NEXT SOCWA BOARD MEETING
FEBRUARY MARCH 5, 2020

**NOTICE OF REGULAR MEETING
OF THE
SOUTH ORANGE COUNTY WASTEWATER AUTHORITY
ENGINEERING COMMITTEE**

February 13, 2020

8:30 a.m.

NOTICE IS HEREBY GIVEN that a Regular Meeting of the South Orange County Wastewater Authority (SOCWA) Engineering Committee has been scheduled to be held on **February 13, 2020**, at **8:30 a.m.** at the SOCWA Administrative Office located at 34156 Del Obispo Street, Dana Point, California.

THE SOCWA MEETING ROOM IS WHEELCHAIR ACCESSIBLE. IF YOU REQUIRE ANY SPECIAL DISABILITY RELATED ACCOMMODATIONS (J.E., ACCESS TO AN AMPLIFIED SOUND SYSTEM, ETC.) PLEASE CONTACT THE SOUTH ORANGE COUNTY WASTEWATER AUTHORITY SECRETARY'S OFFICE AT (949) 234-5452 AT LEAST SEVENTY-TWO (72) HOURS PRIOR TO THE SCHEDULED MEETING. THIS AGENDA CAN BE OBTAINED IN ALTERNATE FORMAT UPON WRITTEN REQUEST TO THE SOUTH ORANGE COUNTY WASTEWATER AUTHORITY'S SECRETARY AT LEAST SEVENTY-TWO (72) HOURS PRIOR TO THE SCHEDULED MEETING

AGENDA EXHIBITS AND OTHER WRITINGS THAT ARE D/SCLOSABLE PUBLIC RECORDS DISTRIBUTED TO ALL, OR A MAJORITY OF, THE MEMBERS OF THE SOUTH ORANGE COUNTY WASTEWATER AUTHORITY ENGINEERING COMMITTEE IN CONNECTION WITH A MATTER SUBJECT TO DISCUSSION OR CONSIDERATION AT AN OPEN MEETING OF THE ENGINEERING COMMITTEE ARE AVAILABLE FOR PUBLIC INSPECTION IN THE AUTHORITY OFFICE, 34156 DEL OBISPO STREET, DANA POINT, CA ("AUTHORITY OFFICE"). IF SUCH WRITINGS ARE DISTRIBUTED TO MEMBERS OF THE ENGINEERING COMMITTEE LESS THAN 72 HOURS PRIOR TO THE MEETING, THEY WILL BE AVAILABLE IN THE RECEPTION AREA OF THE AUTHORITY OFFICE AT THE SAME TIME AS THEY ARE DISTRIBUTED TO THE ENGINEERING COMMITTEE MEMBERS, EXCEPT THAT, IF SUCH WRITINGS ARE DISTRIBUTED IMMEDIATELY PRIOR TO, OR DURING, THE MEETING, THEY WILL BE AVAILABLE IN THE ENGINEERING COMMITTEE MEETING ROOM.

AGENDA

- 1. Call Meeting to Order**

- 2. Public Comments**

PERSONS WISHING TO ADDRESS THE ENGINEERING COMMITTEE ON MATTERS NOT LISTED ON THE AGENDA MAY DO SO AT THIS TIME. "REQUEST TO BE HEARD" FORMS ARE AVAILABLE AT THE ENTRANCE TO THE BOARD ROOM. COMMENTS ARE LIMITED TO THREE (3) MINUTES UNLESS FURTHER TIME IS GRANTED BY THE PRESIDING OFFICER. SUBMIT FORM TO THE CLERK OF THE BOARD PRIOR TO THE BEGINNING OF THE MEETING.

THOSE WISHING TO ADDRESS THE ENGINEERING COMMITTEE ON ANY ITEM LISTED ON THE AGENDA SHOULD SUBMIT A "REQUEST TO BE HEARD" FORM TO THE CLERK OF THE BOARD BEFORE THE PRESIDING OFFICER ANNOUNCES THAT AGENDA ITEM. YOUR NAME WILL BE CALLED TO SPEAK AT THAT TIME.

3. Approval of Minutes

1. Engineering Committee Meeting Minutes of November 14, 2019
2. Engineering Committee Meeting Minutes of January 16, 2020

Recommended Action:

Staff recommends the Engineering Committee to approve subject minutes as submitted.

4. Operations Report

Recommended Action:

Information Item

5. Capital Improvement Construction Projects Report

Recommended Action:

Information Item

6. Knowledge Sharing – Using Process Capability Analysis for Identifying Process Issues

Recommended Action:

Information Item

7. SOCWA Draft Fiscal Year 2021 and Fiscal Year 2022 Capital Improvement Budget

Recommended Action:

Information Item

8. San Juan Creek Ocean Outfall Junction Structure Rehabilitation (Project Committee 5)

Recommended Action:

Information Item

9. Aliso Creek Ocean Outfall – Draft Strategic Plan for Emergency Outfall Repair (Project Committee 24) Review

Recommended Action:

Information Item

10. Research Budget Update (Project Committee 12)

Recommended Action:

Information Item

11. Flow Ecology Metrics Analysis (Project Committee 12)

Recommended Action:

Information Item

Adjournment

I hereby certify that the foregoing Notice was personally emailed or mailed to each member of the SOCWA Engineering Committee at least 72 hours prior to the scheduled time of the Regular Meeting referred to above.

I hereby certify that the foregoing Notice was posted at least 72 hours prior to the time of the above-referenced Engineering Committee meeting at the usual agenda posting location of the South Orange County Wastewater Authority and at www.socwa.com.

Dated this 6th day of February 2020.



Betty C. Burnett, General Manager/Secretary
SOUTH ORANGE COUNTY WASTEWATER AUTHORITY

**NOTICE OF SPECIAL MEETING
OF THE
SOUTH ORANGE COUNTY WASTEWATER AUTHORITY
FINANCE COMMITTEE**

**February 20, 2020
10:30 a.m.**

NOTICE IS HEREBY GIVEN that a Special Meeting of the South Orange County Wastewater Authority (SOCWA) Finance Committee was called by the Chairman to be held on **February 20, 2020 at 10:30 a.m.** at the SOCWA Administrative Office located at 34156 Del Obispo Street, Dana Point, California.

THE SOCWA MEETING ROOM IS WHEELCHAIR ACCESSIBLE. IF YOU REQUIRE ANY SPECIAL DISABILITY RELATED ACCOMMODATIONS (I.E., ACCESS TO AN AMPLIFIED SOUND SYSTEM, ETC.) PLEASE CONTACT THE SOUTH ORANGE COUNTY WASTEWATER AUTHORITY SECRETARY'S OFFICE AT (949) 234-5421 AT LEAST TWENTY-FOUR (24) HOURS PRIOR TO THE SCHEDULED MEETING. THIS AGENDA CAN BE OBTAINED IN ALTERNATE FORMAT UPON WRITTEN REQUEST TO THE SOUTH ORANGE COUNTY WASTEWATER AUTHORITY'S SECRETARY AT LEAST TWENTY-FOUR (24) HOURS PRIOR TO THE SCHEDULED MEETING.

AGENDA EXHIBITS AND OTHER WRITINGS THAT ARE DISCLOSABLE PUBLIC RECORDS DISTRIBUTED TO ALL, OR A MAJORITY OF, THE MEMBERS OF THE SOUTH ORANGE COUNTY WASTEWATER AUTHORITY FINANCE COMMITTEE IN CONNECTION WITH A MATTER SUBJECT TO DISCUSSION OR CONSIDERATION AT AN OPEN MEETING OF THE FINANCE COMMITTEE ARE AVAILABLE FOR PUBLIC INSPECTION IN THE AUTHORITY OFFICE, 34156 DEL OBISPO STREET, DANA POINT, CA ("AUTHORITY OFFICE"). IF SUCH WRITINGS ARE DISTRIBUTED TO MEMBERS OF THE FINANCE COMMITTEE LESS THAN TWENTY-FOUR (24) HOURS PRIOR TO THE MEETING, THEY WILL BE AVAILABLE IN THE RECEPTION AREA OF THE AUTHORITY OFFICE AT THE SAME TIME AS THEY ARE DISTRIBUTED TO THE FINANCE COMMITTEE MEMBERS, EXCEPT THAT, IF SUCH WRITINGS ARE DISTRIBUTED IMMEDIATELY PRIOR TO, OR DURING, THE MEETING, THEY WILL BE AVAILABLE IN THE FINANCE COMMITTEE MEETING ROOM.

AGENDA

- 1. Call Meeting to Order**
- 2. Pledge of Allegiance**
- 3. Public Comments**

THOSE WISHING TO ADDRESS THE FINANCE COMMITTEE ON ANY ITEM LISTED ON THE AGENDA SHOULD SUBMIT A "REQUEST TO BE HEARD" FORM TO THE CLERK OF THE BOARD BEFORE THE PRESIDING OFFICER ANNOUNCES THAT AGENDA ITEM. YOUR NAME WILL BE CALLED TO SPEAK AT THAT TIME.

4. Approval of Minutes

- a. Finance Committee Meeting Minutes of November 12, 2019
- b. Finance Committee Meeting Minutes of December 10, 2019

Recommended Action:

Staff recommends the Finance Committee to approve minutes as submitted.

5. Financial Reports for the Month of October 2019

- a. Summary of Disbursements for October 2019 (Exhibit A)
- b. Schedule of Funds Available for Reinvestment (Exhibit B)
 - Local Agency Investment Fund (LAIF)
- c. Schedule of Cash and Investments (Exhibit C)
- d. Budget vs. Actual Expenses:
 - Operations and Environmental Summary (Exhibit E-1)
 - Operations and Environmental by PC (E-1.2)
 - Residual Engineering, after transfer to Capital (Exhibit E-2)
 - Administration (Exhibit E-3)
 - Information Technology (IT) (Exhibit E-4)

Recommended Action

Staff recommends the Finance Committee recommend to the Board of Directors to ratify the October 2019 disbursements for the period from October 1, 2019, through October 31, 2019, totaling \$2,417,679, and to receive and file the October 2019 Financial Reports as submitted.

6. Financial Reports for the Month of November 2019

- a. Summary of Disbursements for November 2019 (Exhibit A)
- b. Schedule of Funds Available for Reinvestment (Exhibit B)
 - Local Agency Investment Fund (LAIF)
- c. Schedule of Cash and Investments (Exhibit C)
- d. Capital Schedule (Exhibit D)
 - Capital Projects – Graph (Exhibit D-1)
- e. Budget vs. Actual Expenses:
 - Operations and Environmental Summary (Exhibit E-1)
 - Operations and Environmental by PC (E-1.2)
 - Residual Engineering, after transfer to Capital (Exhibit E-2)
 - Administration (Exhibit E-3)
 - Information Technology (IT) (Exhibit E-4)

Recommended Action

Staff recommends the Finance Committee to recommend to the Board of Directors to ratify the November 2019 disbursements for the period from November 1, 2019, through November 30, 2019, totaling \$2,154,482, and to receive and file the November 2019 Financial Reports as submitted.

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7. Financial Reports for the Month of December 2019

- a. Summary of Disbursements for December 2019 (Exhibit A)
- b. Schedule of Funds Available for Reinvestment (Exhibit B)
 - Local Agency Investment Fund (LAIF)
- c. Schedule of Cash and Investments (Exhibit C)
- d. Capital Schedule (Exhibit D)
 - Capital Projects – Graph (Exhibit D-1)
- e. Budget vs. Actual Expenses:
 - Operations and Environmental Summary (Exhibit E-1)
 - Operations and Environmental by PC (E-1.2)
 - Residual Engineering, after transfer to Capital (Exhibit E-2)
 - Administration (Exhibit E-3)
 - Information Technology (IT) (Exhibit E-4)

Recommended Action:

Staff recommends the Finance Committee recommend to the Board of Directors to ratify the December 2019 disbursements for the period from December 1, 2019, through December 31, 2019, totaling \$1,999,492, and to receive and file the December 2019 Financial Reports as submitted.

8. Fiscal Year 2018-19 Additional Cash Payout

Recommended Action:

Staff recommends the Finance Committee to recommend to the Board of Directors to approve payment of the additional cash from other sources to the Member Agencies as distributed in the Supplemental Financial Statements, Statement of Net Position.

9. FY 2019-20 2nd Quarter Cash Roll Forward

- a. Cash Roll Forward Notes
- b. Large Capital Cash Reconciliation to General Ledger (GL)
- c. Large Capital Cash Roll Forward Balance by Member Agency, Project Committee, and Capital Project
- d. Non-Capital Cash Roll Forward Balance by Member Agency, Project Committee, and Capital Project
- e. Non-Capital – Miscellaneous Cash Roll Forward Balance by Member Agency, Project Committee, and Capital Project
- f. Small Capital Cash Roll Forward Balance by Member Agency, Project Committee, and Capital Project

Recommended Action:

Staff recommends the Finance Committee to recommend to the Board of Directors to receive and file the Q2 Fiscal Year 2019-20 Cash Roll Forward as submitted.

10. Major Large Capital Projects Rolling Cash Flow Forecast Fiscal Year 2019-20, Q3 and Q4 / Large Capital Project Management and Reporting - Sample Reports

Recommended Action:

Staff recommends the Finance Committee to recommend to the Board of Directors to receive and file the Major Capital Projects Rolling Cash Flow Forecast.

11. FY 2020-2021 Budget Schedule

Staff will present the Budget Preparation Schedule.

Recommended Action

Information Item.

12. Finance Committee Meeting Schedule

Staff to discuss with the Committee possible dates for Finance Committee Meetings for the remainder of the 2020 calendar year.

Recommended Action

Committee discussion and direction.

Adjournment

I hereby certify that the foregoing Notice was personally emailed or mailed to each member of the SOCWA Finance Committee at least 24 hours prior to the scheduled time of the Special Meeting referred to above.

I hereby certify that the foregoing Notice was posted at least 24 hours prior to the time of the above-referenced Finance Committee at the usual agenda posting location of the South Orange County Wastewater Authority and at www.socwa.com.

Dated this 13th day of February 2020.



Betty Burnett, General Manager/Secretary
SOUTH ORANGE COUNTY WASTEWATER AUTHORITY

MEETING OF THE BOARD OF DIRECTORS OF THE
MUNICIPAL WATER DISTRICT OF ORANGE COUNTY

Jointly with the

PLANNING & OPERATIONS COMMITTEE

February 3, 2020, 8:30 a.m.

Conference Room 101

P&O Committee:

Director McVicker, Chair

Director Dick

Director Yoo Schneider

Staff: R. Hunter, K. Seckel, J. Berg,

H. De La Torre, K. Davanaugh,

D. Harrison

Ex Officio Member: Director Tamaribuchi

MWDOC Committee meetings are noticed and held as joint meetings of the Committee and the entire Board of Directors and all members of the Board of Directors may attend and participate in the discussion. Each Committee has designated Committee members, and other members of the Board are designated alternate committee members. If less than a quorum of the full Board is in attendance, the Board meeting will be adjourned for lack of a quorum and the meeting will proceed as a meeting of the Committee with those Committee members and alternate members in attendance acting as the Committee.

PUBLIC COMMENTS - Public comments on agenda items and items under the jurisdiction of the Committee should be made at this time.

ITEMS RECEIVED TOO LATE TO BE AGENDIZED - Determine there is a need to take immediate action on item(s) and that the need for action came to the attention of the District subsequent to the posting of the Agenda. (Requires a unanimous vote of the Committee)

ITEMS DISTRIBUTED TO THE BOARD LESS THAN 72 HOURS PRIOR TO MEETING -- Pursuant to Government Code section 54957.5, non-exempt public records that relate to open session agenda items and are distributed to a majority of the Board less than seventy-two (72) hours prior to the meeting will be available for public inspection in the lobby of the District's business office located at 18700 Ward Street, Fountain Valley, California 92708, during regular business hours. When practical, these public records will also be made available on the District's Internet Web site, accessible at <http://www.mwdoc.com>.

ACTION ITEMS

1. FY 2019-20 WATER USE EFFICIENCY RESEARCH ACTIVITIES

DISCUSSION ITEM

2. REGIONAL SYSTEM PLANNING & LOCAL WATER SUPPLY INTEGRATION UPDATE

INFORMATION ITEMS (The following items are for informational purposes only – background information is included in the packet. Discussion is not necessary unless a Director requests.)

3. STATUS REPORTS
 - a. Ongoing MWDOC Reliability and Engineering/Planning Projects
 - b. WEROC
 - c. Water Use Efficiency Projects

4. REVIEW OF ISSUES RELATED TO CONSTRUCTION PROGRAMS, WATER USE EFFICIENCY, FACILITY AND EQUIPMENT MAINTENANCE, WATER STORAGE, WATER QUALITY, CONJUNCTIVE USE PROGRAMS, EDUCATION, DISTRICT FACILITIES, and MEMBER-AGENCY RELATIONS

ADJOURNMENT

NOTE: At the discretion of the Committee, all items appearing on this agenda, whether or not expressly listed for action, may be deliberated, and may be subject to action by the Committee. On those items designated for Board action, the Committee reviews the items and makes a recommendation for final action to the full Board of Directors; final action will be taken by the Board of Directors. Agendas for Committee and Board meetings may be obtained from the District Secretary. Members of the public are advised that the Board consideration process includes consideration of each agenda item by one or more Committees indicated on the Board Action Sheet. Attendance at Committee meetings and the Board meeting considering an item consequently is advised.

Accommodations for the Disabled. Any person may make a request for a disability-related modification or accommodation needed for that person to be able to participate in the public meeting by telephoning Maribeth Goldsby, District Secretary, at (714) 963-3058, or writing to Municipal Water District of Orange County at P.O. Box 20895, Fountain Valley, CA 92728. Requests must specify the nature of the disability and the type of accommodation requested. A telephone number or other contact information should be included so that District staff may discuss appropriate arrangements. Persons requesting a disability-related accommodation should make the request with adequate time before the meeting for the District to provide the requested accommodation.

WORKSHOP MEETING OF THE
BOARD OF DIRECTORS WITH MET DIRECTORS
MUNICIPAL WATER DISTRICT OF ORANGE COUNTY
18700 Ward Street, Board Room, Fountain Valley, California
February 5, 2020, 8:30 a.m.

AGENDA

PLEDGE OF ALLEGIANCE

ROLL CALL

PUBLIC PARTICIPATION/COMMENTS

At this time members of the public will be given an opportunity to address the Board concerning items within the subject matter jurisdiction of the Board. Members of the public may also address the Board about a particular Agenda item at the time it is considered by the Board and before action is taken.

The Board requests, but does not require, that members of the public who want to address the Board complete a voluntary "Request to be Heard" form available from the Board Secretary prior to the meeting.

ITEMS RECEIVED TOO LATE TO BE AGENDIZED

Determine need and take action to agendize item(s), which arose subsequent to the posting of the Agenda. (ROLL CALL VOTE: Adoption of this recommendation requires a two-thirds vote of the Board members present or, if less than two-thirds of the Board members are present, a unanimous vote.)

ITEMS DISTRIBUTED TO THE BOARD LESS THAN 72 HOURS PRIOR TO MEETING

Pursuant to Government Code Section 54957.5, non-exempt public records that relate to open session agenda items and are distributed to a majority of the Board less than seventy-two (72) hours prior to the meeting will be available for public inspection in the lobby of the District's business office located at 18700 Ward Street, Fountain Valley, California 92708, during regular business hours. When practical, these public records will also be made available on the District's Internet Web site, accessible at <http://www.mwdoc.com>.

(NEXT RESOLUTION NO. 2093)

PRESENTATION/DISCUSSION/INFORMATION ITEMS

1. INPUT OR QUESTIONS ON MET ISSUES FROM THE MEMBER AGENCIES/MET DIRECTOR REPORTS REGARDING MET COMMITTEE PARTICIPATION

Recommendation: Receive input and discuss the information.

2. GOVERNOR'S DRAFT WATER RESILIENCE PORTFOLIO

Recommendation: Review and discuss the information presented.

3. ORAL UPDATE REGARDING COLORADO RIVER SALINITY CONTROL ISSUES

Recommendation: Receive and file the information presented.

4. WATER SUPPLY CONDITION UPDATE

Recommendation: Review and discuss the information presented.

5. DELTA CONVEYANCE PROJECT ACTIVITIES UPDATE

Recommendation: Review and discuss the information presented.

6. MET ITEMS CRITICAL TO ORANGE COUNTY (The following items are for informational purposes only – a write up on each item is included in the packet. Discussion is not necessary unless requested by a Director)

- a. MET’s Water Supply Conditions
- b. MET’s Finance and Rate Issues
- c. Colorado River Issues
- d. Bay Delta/State Water Project Issues
- e. MET’s Ocean Desalination Policy and Potential Participation in the Doheny and Huntington Beach Ocean (Poseidon) Desalination Projects
- f. South County Projects

Recommendation: Review and discuss the information presented.

7. METROPOLITAN (MET) BOARD AND COMMITTEE AGENDA DISCUSSION ITEMS

- a. Summary regarding January MET Board Meetings
- b. Review items of significance for MET Board and Committee Agendas

Recommendation: Review and discuss the information presented.

CLOSED SESSION

8. CONFERENCE WITH LEGAL COUNSEL- ANTICIPATED LITIGATION – SIGNIFICANT EXPOSURE TO LITIGATION - Pursuant to Paragraph (2) Subdivision (d) of Section 54956.9, Claim of Rosemary Ramirez Against the Municipal Water District of Orange County for personal injury, Date of Claim January 14, 2020

ADJOURNMENT

Note: Accommodations for the Disabled. Any person may make a request for a disability-related modification or accommodation needed for that person to be able to participate in the public meeting by telephoning Maribeth Goldsby, District Secretary, at (714) 963-3058, or writing to Municipal Water District of Orange County at P.O. Box 20895, Fountain Valley, CA 92728. Requests must specify the nature of the disability and the type of accommodation requested. A telephone number or other contact information should be included so that District staff may discuss appropriate arrangements. Persons requesting a disability-related accommodations should make the request with adequate time before the meeting for the District to provide the requested accommodations.

MEETING OF THE BOARD OF DIRECTORS OF THE
MUNICIPAL WATER DISTRICT OF ORANGE COUNTY

Jointly with the

ADMINISTRATION & FINANCE COMMITTEE

February 12, 2020, 8:30 a.m.

Conference Room 101

A&F Committee:

Director Thomas, Chair

Director Finnegan

Director Dick

Staff: R. Hunter, K. Seckel, J. Berg,

H. De La Torre, K. Davanaugh, C. Harris,

H. Chumpitazi

Ex Officio Member: Director Tamaribuchi

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PUBLIC COMMENTS - Public comments on agenda items and items under the jurisdiction of the Committee should be made at this time.

ITEMS RECEIVED TOO LATE TO BE AGENDIZED - Determine there is a need to take immediate action on item(s) and that the need for action came to the attention of the District subsequent to the posting of the Agenda. (Requires a unanimous vote of the Committee)

ITEMS DISTRIBUTED TO THE BOARD LESS THAN 72 HOURS PRIOR TO MEETING -- Pursuant to Government Code section 54957.5, non-exempt public records that relate to open session agenda items and are distributed to a majority of the Board less than seventy-two (72) hours prior to the meeting will be available for public inspection in the lobby of the District's business office located at 18700 Ward Street, Fountain Valley, California 92708, during regular business hours. When practical, these public records will also be made available on the District's Internet Web site, accessible at <http://www.mwdoc.com>.

PROPOSED BOARD CONSENT CALENDAR ITEMS

1. TREASURER'S REPORT
 - a. Revenue/Cash Receipt Report – January 2020
 - b. Disbursement Approval Report for the month of February 2020
 - c. Disbursement Ratification Report for the month of January 2020 2019
 - d. GM Approved Disbursement Report for the month of January 2020
 - e. Water Use Efficiency Projects Cash Flow – January 31, 2020
 - f. Consolidated Summary of Cash and Investment – December 2019
 - g. OPEB and Pension Trust Fund monthly statement

2. FINANCIAL REPORT
 - a. Combined Financial Statements and Budget Comparative for the Period ending December 31, 2019

b. Quarterly Budget Review

DISCUSSION ITEM

- 3. FIRST DRAFT OF THE FY 2020-21 BUDGET
- 4. MWDOC DRAFT LETTER ON THE PARADOX VALLEY UNIT OF THE COLORADO RIVER BASIN SALINITY CONTROL PROGRAM DEIS

ACTION ITEMS

- 5. CONSIDER AUTHORIZING ATTENDANCE AT ASCE'S WORLD ENVIRONMENTAL & WATER RESOURCES CONGRESS, MAY 17-21, 2020, HENDERSON, NV
- 6. PROFESSIONAL SERVICES CONTRACT AWARD FOR OWNER'S REPRESENTATIVE SERVICES
- 7. ATTENDANCE AT THE CALIFORNIA WATER ENVIRONMENT ASSOCIATION (CWEA) ANNUAL CONFERENCE

INFORMATION ITEMS – (THE FOLLOWING ITEMS ARE FOR INFORMATIONAL PURPOSES ONLY – BACKGROUND INFORMATION IS INCLUDED IN THE PACKET. DISCUSSION IS NOT NECESSARY UNLESS REQUESTED BY A DIRECTOR.)

- 8. SOLE SOURCE PROCUREMENT WITH MUNICIPAL RESOURCE GROUP
- 9. LEGAL AND PROFESSIONAL SERVICES OPEN PURCHASE ORDERS
- 10. SEMI-ANNUAL DIRECTORS ACTIVITIES REPORT
- 11. SEMI-ANNUAL OVERTIME REPORT
- 12. ANNUAL AUTO ALLOWANCE REPORT
- 13. ANNUAL REVIEW OF COASTAL MUNICIPAL WATER DISTRICT ISSUES
- 14. DEPARTMENT ACTIVITIES REPORTS
 - a. Administration
 - b. Finance and Information Technology
- 15. MONTHLY WATER USAGE DATA, TIER 2 PROJECTION, AND WATER SUPPLY INFORMATION

OTHER ITEMS

- 16. REVIEW ISSUES REGARDING DISTRICT ORGANIZATION, PERSONNEL MATTERS, EMPLOYEE BENEFITS FINANCE AND INSURANCE

ADJOURNMENT

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MEETING OF THE
BOARD OF DIRECTORS OF THE
MUNICIPAL WATER DISTRICT OF ORANGE COUNTY
Jointly with the
PUBLIC AFFAIRS AND LEGISLATION COMMITTEE
February 18, 2020, 8:30 a.m.
Conference Room 101

Teleconference site:
Director Yoo Schneider will participate
via teleconference at the following location:
675 N Washington St #200, Alexandria, VA 22314
949/278-5761

(Members of the Public may attend and participate in the meeting at both locations.)

Committee:

Director Yoo Schneider, Chair
Director Barbre
Director McVicker

Staff: R. Hunter, K. Seckel, H. Baez,
D. Micalizzi, K. Davanaugh, T. Baca

Ex Officio Member: Director Tamaribuchi

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PUBLIC PARTICIPATION

Public comments on agenda items and items under the jurisdiction of the Committee should be made at this time.

ITEMS RECEIVED TOO LATE TO BE AGENDIZED - Determine there is a need to take immediate action on item(s) and that the need for action came to the attention of the District subsequent to the posting of the Agenda. (Requires a unanimous vote of the Committee)

ITEMS DISTRIBUTED TO THE BOARD LESS THAN 72 HOURS PRIOR TO MEETING --

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DISCUSSION ITEMS

1. LEGISLATIVE ACTIVITIES
 - a. Federal Legislative Report (Barker)
 - b. State Legislative Report (BBK)
 - c. County Legislative Report (Lewis)
 - d. Legal and Regulatory Report (Ackerman)

- e. MWDOC Legislative Matrix
 - f. Metropolitan Legislative Matrix
2. SOUTHERN CALIFORNIA WATER ISSUES CONGRESSIONAL DELEGATION BRIEFING LUNCHEON

ACTION ITEMS

- 3. TRAVEL TO WASHINGTON, DC TO COVER FEDERAL ADVOCACY INITIATIVES
- 4. TRAVEL TO SACRAMENTO TO COVER STATE ADVOCACY INITIATIVES
- 5. CALIFORNIA SPECIAL DISTRICTS ASSOCIATION (CSDA) CALL FOR NOMINATIONS: SEAT B – SOUTHERN NETWORK

INFORMATION ITEMS (THE FOLLOWING ITEMS ARE FOR INFORMATIONAL PURPOSES ONLY – BACKGROUND INFORMATION IS INCLUDED IN THE PACKET. DISCUSSION IS NOT NECESSARY UNLESS REQUESTED BY A DIRECTOR.)

- 6. WATER POLICY FORUM & DINNER SPEAKERS SERIES
- 7. 2019 OC WATER SUMMIT
- 8. SCHOOL PROGRAM UPDATE
- 9. EDUCATION PROGRAM INITIATIVES
- 10. PUBLIC AND GOVERNMENT AFFAIRS ACTIVITIES REPORT

OTHER ITEMS

- 11. REVIEW ISSUES RELATED TO LEGISLATION, OUTREACH, PUBLIC INFORMATION ISSUES, AND MET

ADJOURNMENT

NOTE: At the discretion of the Committee, all items appearing on this agenda, whether or not expressly listed for action, may be deliberated, and may be subject to action by the Committee. On those items designated for Board action, the Committee reviews the items and makes a recommendation for final action to the full Board of Directors; final action will be taken by the Board of Directors. Agendas for Committee and Board meetings may be obtained from the District Secretary. Members of the public are advised that the Board consideration process includes consideration of each agenda item by one or more Committees indicated on the Board Action Sheet. Attendance at Committee meetings and the Board meeting considering an item consequently is advised.

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REGULAR MEETING
OF THE BOARD OF DIRECTORS
MUNICIPAL WATER DISTRICT OF ORANGE COUNTY
18700 Ward Street, Board Room, Fountain Valley, California
February 19, 2020, 8:30 a.m.

AGENDA

MOMENT OF SILENCE

PLEDGE OF ALLEGIANCE

ROLL CALL

PUBLIC COMMENTS/PARTICIPATION

At this time, members of the public will be given an opportunity to address the Board concerning items within the subject matter jurisdiction of the Board. Members of the public may also address the Board about a particular Agenda item at the time it is considered by the Board and before action is taken. If the item is on the Consent Calendar, please inform the Board Secretary before action is taken on the Consent Calendar and the item will be removed for separate consideration.

The Board requests, but does not require, that members of the public who want to address the Board complete a voluntary "Request to be Heard" form available from the Board Secretary prior to the meeting.

ITEMS RECEIVED TOO LATE TO BE AGENDIZED

Determine need and take action to agendize items(s) which arose subsequent to the posting of the Agenda. (ROLL CALL VOTE: Adoption of this recommendation requires a two-thirds vote of the Board members present, or, if less than two-thirds of the Board members are present, a unanimous vote of those members present.)

ITEMS DISTRIBUTED TO THE BOARD LESS THAN 72 HOURS PRIOR TO MEETING

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NEXT RESOLUTION NO. 2093

CONSENT CALENDAR (Items 1 to 10)

(All matters under the Consent Calendar will be approved by one motion unless a Board member requests separate action on a specific item)

1. **MINUTES**
 - a. January 2, 2020 Workshop Board Meeting
 - b. January 15, 2020 Regular Board Meeting
 - c. January 18, 2020 Special Board Meeting

Recommendation: Approve as presented.

2. COMMITTEE MEETING REPORTS

- a. Planning & Operations Committee Meeting: January 6, 2020
- b. Administration & Finance Committee Meeting: January 8, 2020
- c. Public Affairs & Legislation Committee Meeting: January 20, 2020
- d. Executive Committee Meeting: January 16, 2020
- e. MWDOC/OCWD Joint Planning Committee Meeting: January 29, 2020

Recommendation: Receive and file as presented.

3. TREASURER'S REPORTS

- a. MWDOC Revenue/Cash Receipt Register as of January 31, 2020
- b. MWDOC Disbursement Registers (January/February)

Recommendation: Ratify and approve as presented.

- c. Summary of Cash and Investment and Portfolio Master Summary Report (Cash and Investment report) as of December 31, 2019
- d. PARS Monthly Statement (OPEB Trust)
- e. Water Use Efficiency Projects Cash Flow

Recommendation: Receive and file as presented.

4. FINANCIAL REPORT

- a. Combined Financial Statements and Budget Comparative for the Period ending November 30, 2019
- b. Quarterly Budget Review

Recommendation: Receive and file as presented.

5. CONSIDER AUTHORIZING ATTENDANCE AT ASCE'S WORLD ENVIRONMENTAL & WATER RESOURCES CONGRESS, MAY 17-21, 2020, HENDERSON, NV

Recommendation: Authorize attendance by Directors, and staff as authorized by the General Manager, at the ASCE World Environmental & Water Resources Congress to be held May 17-21, 2020 in Henderson, NV.

6. PROFESSIONAL SERVICES CONTRACT AWARD FOR OWNER'S REPRESENTATIVES SERVICES

Recommendation: Authorize the General Manager to enter into a professional services agreement with ABSG Consulting Inc. (ABS Consulting) to provide Owner's Representative/Project Management services for the upcoming Administration Building seismic retrofit and remodel, at a cost not to exceed \$245,434 plus 5% contingency for a total not to exceed cost of \$257,706.

7. ATTENDANCE AT THE CALIFORNIA WATER ENVIRONMENT ASSOCIATION (CWEA) ANNUAL CONFERENCE

Recommendation: Authorize attendance at the California Water Environment Association (CWEA) Annual conference on April 1-3, 2020 in Reno, NV.

8. TRAVEL TO WASHINGTON, DC TO COVER FEDERAL ADVOCACY INITIATIVES

Recommendation: Ratify the expenses as reported.

9. TRAVEL TO SACRAMENTO TO COVER STATE ADVOCACY INITIATIVES

Recommendation: Ratify the expenses as reported.

10. FY 2019-20 WATER USE EFFICIENCY RESEARCH ACTIVITIES

Recommendation: Approve implementation of research projects as follows: (1) a contribution of \$20,000 for participation in the Alliance for Water Efficiency Cooling Tower Study; (2) a contribution of \$17,500 for participation in the University of California Landscape Plant Irrigation Trials; and (3) implementation of a Residential End Uses of Water Study including (a) authorizing use of MWDOC-budgeted funds totaling \$128,250 and Metropolitan funds totaling \$79,000 for a total of \$207,250, and (b) authorizing a Professional Services Contract with Flume in the amount of \$207,250.

End Consent Calendar

ACTION ITEMS

11-1 CALIFORNIA SPECIAL DISTRICTS ASSOCIATION (CSDA) CALL FOR NOMINATIONS: SEAT B – SOUTHERN NETWORK

Recommendation: The Public Affairs & Legislation Committee will review this item on February 18, 2020 and make a recommendation to the Board.

INFORMATION CALENDAR (All matters under the Information Calendar will be Received/Filed as presented following any discussion that may occur)

12. GENERAL MANAGER'S REPORT, FEBRUARY 2020 (ORAL AND WRITTEN)

Recommendation: Receive and file report(s) as presented.

13. MWDOC GENERAL INFORMATION ITEMS

- a. Board of Directors - Reports re: Conferences and Meetings
- b. Requests for Future Agenda Topics

Recommendation: Receive and file as presented.

ADJOURNMENT

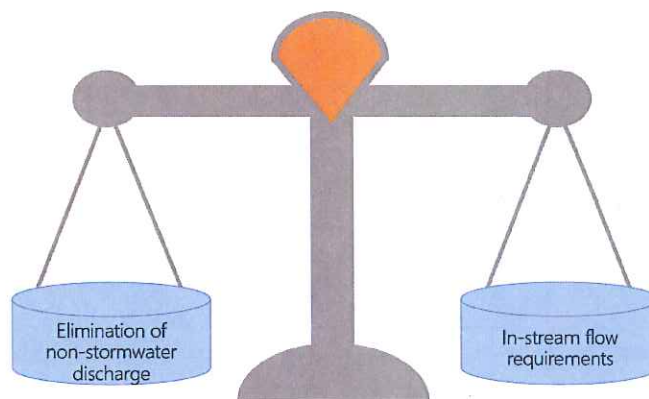
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GENERAL MANAGER'S REPORT OF STAFF ACTIVITIES FEBRUARY 2020

| | |
|---|--|
| <p>MWDOC Agencies Managers Meeting</p> | <p>MWDOC held its Member Agency Managers' meeting at its office in Fountain Valley on January 24, 2020.</p> <p>In attendance were: Lisa Ohlund – EOCWD, Dennis Cafferty – ETWD, Mark Sprague – Fountain Valley, Cel Pasillas – Garden Grove, Brian Ragland – Huntington Beach, Paul Cook & Paul Weghorst – IRWD, Paul Shoenberger – Mesa Water, Drew Atwater – MNWD, Steffen Catron – Newport Beach, , Mark Vukojevic – Newport Beach, Mike Markus & John Kennedy – OCWD, Dan Ferons – SMWD, Steve Myrter – Seal Beach, Jerry Vilander – Serrano WD, Joe McDivitt & Rick Shintaku – SCWD, Fernando Paludi – TCWD, Marc Marcantonio – YLWD.</p> <p>MWDOC Staff: R. Hunter, K. Seckel, H. De La Torre, M. Baum-Haley, K. Hostert, J. Berg, C. Lingad, K. Hubbard, D. Micalizzi</p> <p>Agenda Items:</p> <ul style="list-style-type: none"> • CA Draft Water Resilience Portfolio • Delta Conveyance Notice of Preparation • MWDOC Budget Schedule • MET Flower Meter Signal and Controlling Valves • MET Shutdowns Update • AWIA Update • BUC-AQMD Follow-Up • GPCD Use Trends • Legislative Reports • WEROC Matrix • Grant Funding Opportunities <p>The next meeting is scheduled for Thursday, February 20, 2020 at 10:30 a.m.</p> |
| <p>Meetings</p> | <p>Charles Busslinger and Chris Lingad attended multiple meetings with MET and agencies affected by the January 21st-27th Diemer Shutdown. Repairs to Diemer were successfully completed and the plant has been returned to service. During return to service operations for the AMP pipeline after the Diemer shutdown, a taste and odor water quality issue developed which resulted in several hours of pipeline flushing of the AMP to clear the issue. The AMP was returned to service following successful resolution of the water quality issue.</p> <p>Charles Busslinger attended the January 8, 2020 South OC Watershed Management Area (SOCWMA) Flow Ecology Study Workshop.</p> <p>The SOCWMA committed to implementing a comprehensive Water Quality Improvement Plan (WQIP) in association with the regional stormwater discharge permits (aka. Municipal Separate Storm Sewer System [MS4] permits of the National</p> |

Meetings – continued

Pollutant Discharge Elimination System [NPDES] authorized through the Clean Water Act).



The purpose of the workshop was to discuss an element of the WQIP that addresses surface water flows and stream restoration which are referred to as ‘Unnatural Water Balance’. The Flow Ecology Study seeks to clarify which flows in the SOCWMA are the result of human activity (such as overwatering) vs. flows that are necessary to foster stream restoration. One issue that remains to be resolved is establishing a baseline that current flows will be measured against. This is a technical challenging effort and staff is continuing to monitor and participate.

Karl Seckel and Charles Busslinger met independently with South Coast Water District and Santa Margarita Water District to discuss the progress on their local projects and to seek input regarding the work MWDOC has been doing with respect to integration of local projects into the regional system and the need for a hydraulic model.

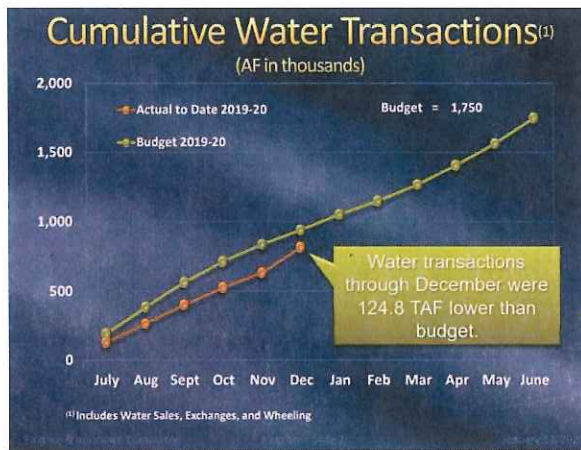
Karl Seckel and Charles Busslinger participated with Joe Berg and others in a discussion regarding an End-Uses Study in Orange County using metering devices manufactured by Flume that are strapped onto the outside of existing water meters to accurately record water use. The water use records can be disaggregated into indoor and outdoor uses and can be apportioned over various in-home water using devices. The information would be useful in helping to understand existing demands and what trends are occurring at this time.

Karl Seckel and Heather Baez participated in the monthly ISDOC meeting where Karl covered the WEROC and Operational Area Report.

MET ITEMS CRITICAL TO ORANGE COUNTY

**MET’s
Finance and
Rate Issues**

Water transactions through December 2019 were 124.8 TAF (or 13%) lower than the Budget. Year to date revenues were \$864.1 million. Metropolitan is projecting Fiscal Year 2019/20 water transactions are expected to be \$197.7 million under budget. Water transactions are anticipated to be 198 TAF lower than the Fiscal Year budget of 1750 TAF potentially resulting in \$214 million less water revenues.



**Colorado
River Issues**

Amendment to Agreements with Desert Water Agency and Coachella Valley Water District

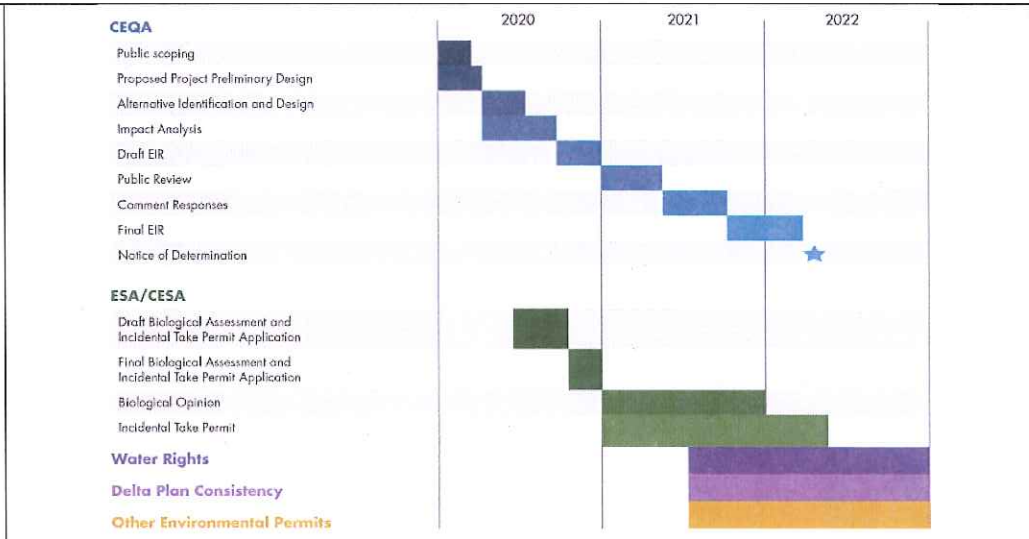
Following Board approval at the December Board meeting, on December 11, Metropolitan built on an existing partnership with Desert Water Agency and Coachella Valley Water District by signing the amendment to agreements for the exchange and delivery of water. This comprehensive set of amendments updates existing agreements and will provide greater certainty for water supply and financial planning, simplify program implementation, and improve dry-year water supply reliability. The partnership was recognized in Las Vegas where the agreements were signed by the agency General Managers and attorneys.

Bard Water District Seasonal Fallowing Agreement

Following Board approval at the December Board meeting, on December 20, a landmark, seven-year seasonal land fallowing agreement to conserve Colorado River water to benefit California cities and farms was signed by Metropolitan and Bard Water District. Under this agreement, Bard farmers will forgo planting lower-value, water-intensive crops during spring and summer, receiving a payment of \$452 for each acre fallowed for the season (escalated annually). A portion of this payment will be used by Bard Water District to make needed system improvements. This seasonal fallowing will reduce water consumption in Bard, making more Colorado River water available for Metropolitan to divert or store in Lake Mead. Metropolitan estimates a water savings of 2.0 acre-feet per irrigable acre. Participating farmers will

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| <p>Colorado River Issues -- continued</p> | <p>reduce their water consumption through land fallowing of up to 3,000 acres annually between the months of April and July.</p> <p><u>Regional Recycled Water – Potential Partnership</u></p> <p>In December, staff of Metropolitan and the Southern Nevada Water Authority (SNWA) shared information with their respective board and advisory meetings about a potential future partnership on Metropolitan’s Regional Recycled Water Program. At Metropolitan’s Engineering and Operations Committee in December, the possibility of a Letter of Intent between Metropolitan and SNWA was discussed, followed by a meeting at which SNWA described the potential Letter of Intent with its Integrated Resource Planning Advisory Committee 2020. Metropolitan staff will keep its Board apprised of discussion between our two agencies on this matter.</p> |
| <p>Bay Delta/State Water Project Issues</p> | <p><u>Delta Conveyance Notice of Preparation</u></p> <p>On January 15, California Department of Water Resources posted a Notice of Preparation that will initiate the Environmental Impact Report for the Delta Conveyance Project. Pursuant to the California Environmental Quality Act (CEQA), the California Department of Water Resources (DWR) will initiate the preparation of an Environmental Impact Report (EIR) for the Delta Conveyance Project in the Sacramento-San Joaquin Delta, California.</p> <p>DWR is the lead agency under CEQA. The Delta Conveyance Project will also involve federal agencies that must comply with the National Environmental Policy Act (NEPA), likely requiring the preparation of an environmental impact statement (EIS). Federal agencies with roles with respect to the project may include approvals or permits issued by the Bureau of Reclamation (Reclamation) and United States Army Corps of Engineers. To assist in the anticipated federal agencies’ NEPA compliance, DWR will prepare an EIR that includes relevant NEPA information where appropriate. Once the role of the federal lead agency is established, that federal lead agency will publish a Notice of Intent to formally initiate the NEPA process.</p> <p>The proposed Delta Conveyance project facilities will have a capacity of 6,000 cubic feet per-second (cfs) combined between two intakes (3,000 cfs each) located along the Sacramento River between South Sacramento and Walnut Grove. Likely alternatives to the proposed project will be considered within the range of 3,000 cfs – 7,500 cfs capacity. The NOP also includes two corridor options for the single tunnel, one within in the central portion of the Delta, and the other in the eastern portion of the Delta.</p> <p>The chart below illustrates the Delta Conveyance environmental compliance milestones.</p> |

Bay Delta/State Water Project Issues – continued



Agreement in Principle

State Water Project (SWP) cost/benefit allocation negotiations to establish the Agreement in Principle will determine basic terms for a SWP Contract Amendment to equitably allocate costs and benefits of a potential Delta Conveyance Facility (DCF), which will be part of the existing SWP.

The public negotiations between State Water Contractors (PWA) and DWR occurred between July and November 2019, with negotiations focused on an “Opt-In” approach. Where the PWAs decide whether or not to invest in and receive corresponding benefits from the DCF. On November 15, an Agreement in Principle was reached with support amongst 17 PWAs (92% of Table A) and 12 non-participant PWAs did not support.

DWR expressed concern about operating to two contracts given that 12 contractors did not support the November 15 Agreement in Principle. DWR presented a sixth offer, shifting the focus to an “Opt-Out” approach on December 20. The PWA’s are evaluating this latest proposal.

Delta Conveyance Design and Construction Authority

At the January 16, 2020 Delta Conveyance Design and Construction Authority (DCA) reported that the Engineering team continued to complete foundational studies regarding design criteria and alternative siting analyses of the proposed Delta Conveyance Project in support of the release of the NOP. The Engineering team also prepared materials and visualizations for the Stakeholder Engagement Meetings focused on the Intakes and the Intermediate Forebay siting studies.

Field work has been delayed as the DCA awaits the completion of the CEQA process for the geotechnical work and gain clarity on the permitting requirements for the program from the on-going litigation with the Delta Counties. The DCA staff continues to analyze the existing data and enter validated data into their geologic model of the Delta.

The DCA also held its second Stakeholder Engagement Committee meeting in December, where they presented an overview of the CEQA process and reviewed the

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| <p>Bay Delta/State Water Project Issues – continued</p> | <p>key components that comprise the Delta Conveyance Project. They also reviewed a series of maps that can be used to evaluate siting alternatives of project components.</p> <p><u>Additional Information</u></p> <p>Additional information on the Bay-Delta Issues can be found in <i>Issue Brief D - Bay Delta/State Water Project Issues</i> of the Discussion Item regarding Metropolitan Water District items critical to Orange County.</p> |
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ENGINEERING & PLANNING

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| <p>Doheny Ocean Desalination Project</p> | <p>On October 30, 2019, South Coast held a workshop on a Peer Review Cost Estimate for the Doheny Desal Project. Rich Svindland, of California American Water (CalAm), who helped develop the 6.4 MGD Monterey Ocean Desal Project using slant well technology, completed a peer review cost estimate for the Doheny Ocean Desal Project. The CalAm review of the previous Doheny Desal cost estimate by GHD indicated some differences in capital and operating costs including a higher level of staffing for the plant as suggested by CalAm. Overall the cost differences resulted in estimated increased costs:</p> <ul style="list-style-type: none"> • Capital costs were estimated at 5.4% higher • O&M costs were estimated at 15.8% higher • Overall, the unit cost of water increased from \$1556 per AF to \$1805 per AF, an increase of \$249 per AF, an overall increase of about 16.0% <p>South Coast WD's Board has voiced their opinion that a 5 MGD project provides too much water and is beyond the ability of South Coast WD to shoulder by themselves. Without other partners, they may consider a plant size as small as 2.0 mgd <u>without</u> any oversizing to protect the potential for an ultimate 15 mgd project. The use of excess recycled supplies potentially to be blended with ocean supplies was also discussed with the Latham wastewater plant in near proximity to the Doheny Desal Project.</p> <p><u>Next Steps by South Coast WD:</u></p> <ol style="list-style-type: none"> 1. Look for partners 2. High Level Schedule (has slipped a bit due to the Regional Board schedule) <table style="margin-left: 40px; border: none;"> <tr> <td style="padding-right: 20px;">a. Environmental permitting</td> <td>Late Summer 2020</td> </tr> <tr> <td>b. DBOM Contract Develop</td> <td>Early 2020</td> </tr> <tr> <td>c. DBOM Contract Award</td> <td>Early 2021</td> </tr> <tr> <td>d. Construction Completion</td> <td>Early 2023</td> </tr> </table> | a. Environmental permitting | Late Summer 2020 | b. DBOM Contract Develop | Early 2020 | c. DBOM Contract Award | Early 2021 | d. Construction Completion | Early 2023 |
| a. Environmental permitting | Late Summer 2020 | | | | | | | | |
| b. DBOM Contract Develop | Early 2020 | | | | | | | | |
| c. DBOM Contract Award | Early 2021 | | | | | | | | |
| d. Construction Completion | Early 2023 | | | | | | | | |
| <p>MET 2019-20 Shutdown Schedule</p> | <p>MWDOC staff have held many meetings with MET and MWDOC member agencies since July 2019 to review the extensive MET 2019-2020 Shutdown Schedule. The January 21-27, 2020 Diemer shutdown has been completed and the plant has returned to service.</p> <p>MWDOC is currently working with MET and affected agencies on the February 9 – 16, 2020 West Orange County Feeder (WOCF) shutdown which was rescheduled to accommodate the Diemer shutdown.</p> | | | | | | | | |

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| <p>MET 2019-20 Shutdown Schedule -- continued</p> | <p>The WOCF shutdown is needed to replace 13 primary isolation valves between the OC/LA County Line in Fullerton down to the connection with the OC Feeder in Anaheim. These valves are past their useful life.</p> |
| <p>SMWD Rubber Dams Project (San Juan Watershed Project)</p> | <p>Santa Margarita WD continues to focus on diversifying its water supply portfolio for south Orange County residents, businesses, schools, and visitors. On June 21, 2019, the San Juan Watershed Environmental Impact Report (EIR) was approved.</p> <p>The original project had three Phases; Phase 1 was three rubber dams recovering about 700 AFY; Phase 2 added up to 8 more rubber dams with the introduction of recycled water into the creek to improve replenishment of the basin for up to 6,120 AFY, and Phase 3 added more recycled water topping out at approximately 9,480 AFY. Under this arrangement, most or all of the production and treatment involved the existing San Juan Groundwater Desalter with expansions scheduled along the way to increase production over 5 mgd. Fish passage and regulatory hurdles to satisfy subsurface travel time requirements are presenting some difficulties.</p> <p>SMWD is working with the Ranch on the next phase of development within SMWD and have access to riparian groundwater from the Ranch. Furthermore, they have discovered that the local geology has high vertical percolation rates and sufficient groundwater basin travel time to potentially allow percolation of treated recycled water. SMWD is of opinion that groundwater production and treatment of the groundwater can be initiated in a relatively short time-frame while permitting for percolation augmentation using recycled water from the nearby Trampas reservoir can be added as permitting allows. They believe the new project area may be able to ultimately produce 4,000 to 5,000 AF per year; they believe the original project will continue to be developed for production out of the wells and treatment provided by San Juan Capistrano as the two agencies merge. Ultimate production out of the basin could exceed 10,000 AF per year if all goes well.</p> |
| <p>SOC Workshop-Local Supply Integration</p> | <p>Multiple water supply projects are currently under consideration in Orange County which include desalinated water, percolation of treated recycled water, and capture of stormwater into groundwater basins for subsequent pumping and treatment. Without proper planning, the possible integration of multiple treated water sources into the OC water distribution system at various points, or simply the reduction in demands, could result in unintended water quality consequences. A presentation was made at the February 3, 2020 Planning & Operations Committee meeting which showed the progress of investigation efforts for development of a Hydraulic Model of the regional distribution pipeline system in Orange County.</p> <p>Staff and consultants have been working on identification and understanding of key issues, and development of strategic pathways toward solutions, for the successful integration of multiple local water supply sources into the OC distribution system; prior to the time these projects are implemented.</p> <p>As part of these efforts, on May 16, 2018 the Board authorized the General Manager to enter into contracts with water quality consultants Black & Veatch and Hazen & Sawyer for their participation in a scoping workshop on local water supply integration issues.</p> <p>On August 31, 2018 MWDOC held a Water System Operations and Integration Workshop which was attended by both consulting firms, technical staff from multiple</p> |

**SOC
Workshop-
Local Supply
Integration –
continued**

OC water agencies, MET technical staff and other water quality/water operations experts. The collaborative discussion identified a number of potential issues that could arise within the OC water distribution system resulting from the introduction of multiple sources of water over time.

On October 18, 2018 MWDOC staff met with MET Facility Planning staff to understand the various uses MET has for their hydraulic model and to understand the benefits of such a model. MET shared their background, some of their experiences, and lessons learned with MWDOC staff.

On November 21, 2018 the Board approved development of two White Papers to review and provide recommendations concerning potential water quality issues identified in the August 31, 2018 workshop. Ed Means Consulting was brought in to help guide the water quality review effort.

The White Papers included 13 recommendations:

| SCOPE | EXPECTED OUTCOME |
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| 1. Develop & Utilize Base Hydraulic Model | <ul style="list-style-type: none"> • Determine flow routing and seasonal variations • Identify system pressures • Predict water age • Identify areas experiencing flow reversal |
| 2. Examine Groundwater Pump Back Well Siting | <ul style="list-style-type: none"> • Identify preferred locations for new wells |
| 3. Evaluate Operational Scenario Study | <ul style="list-style-type: none"> • Define operation of proposed facilities Identify facilities needed to manage flows, pressures, system control. Determine impact on operation of existing facilities (i.e. Diemer) Determine impact on Member Agency operations Inform detailed hydraulic modeling analyses |
| 4. Develop Conceptual Design Report | <ul style="list-style-type: none"> • Define new facilities needed for supply integration Identify modification to existing facilities needed to accommodate new supplies, proposed operations, management of water quality • Define cost of facilities • Provide basis of final design |
| 5. Conduct Bench Scale Testing | <ul style="list-style-type: none"> • Determine disinfection residual decay rates to inform modeling evaluation, determination of disinfection management facility needs. |
| 6. Hydraulic Modeling Based Analyses would include: | |
| 6A. Water Age | <ul style="list-style-type: none"> • Predict locations of concern for disinfection residual decay • Locate disinfection management facilities • Assess concentrations of other constituents |
| 6B. Reverse Flow | <ul style="list-style-type: none"> • Identify locations expected to experience reverse flow • Develop strategy to address concerns for areas expected to experience reverse flow |
| 6C. Piping/Water Interaction | <ul style="list-style-type: none"> • Predict locations in OC where new water supplies will interact with pipe materials of concern |

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| <p>SOC Workshop- Local Supply Integration – continued</p> | <p>6D. Assess Impacts on wastewater and water recycling facilities</p> | <ul style="list-style-type: none"> • Predict locations in sewersheds that will be supplied with new water supplies • Determine if change in constituent loading from new water supply has adverse effect on facility operation and regulatory compliance |
| | <p>6E. Agricultura l/ Horticultural Impacts</p> | <ul style="list-style-type: none"> • Predict locations in OC where new water supplies would impact agriculture/horticulture • Identify strategies to mitigate areas of concern |
| | <p>7. Preparation of Engineering Reports</p> | <ul style="list-style-type: none"> • Necessary operating permit DDW |
| | <p>8. Bench and Pilot Testing (pipe loops)</p> | <ul style="list-style-type: none"> • Identification of Conditions to minimize corrosion outcomes |
| | <p>9. Aesthetics Testing</p> | <ul style="list-style-type: none"> • Conduct consumer taste tests with desalinated water vs. blends |
| <p>Hydraulic & Water Quality Model Investigation</p> <p>On April 17, 2019 the Board authorized the General Manager to enter into a professional services agreement with Black & Veatch Corporation to investigate the feasibility of regional distribution hydraulic and water quality model and provide recommendations for development of such a model for the pipeline distribution system in Orange County. The investigation includes:</p> <ol style="list-style-type: none"> 1. Review existing available OC distribution system information and ranges of future supply and demand flow scenarios from MET/MWDOC; then to identify and document gaps necessary for development of the hydraulic model. 2. Identify stakeholder hydraulic modeling needs and MET requirements to successfully model the integration of “other sources of water” from local water projects into the OC distribution system while maintaining high quality water. The Consultant will assist with prioritizing the identified hydraulic and water quality needs. 3. Develop a software specification that incorporates the identified hydraulic and water quality modeling needs into model requirements. 4. Conduct a software review and identify software products that match the software specification. 5. Prioritize software products based upon model requirements and recommend a ‘best fit’ for MWDOC’s future uses. 6. Define scopes of work and associated cost estimates for purchasing and implementing the modeling software with a recommended implementation plan and alternatives. The plan alternatives are then to be documented in an OC Hydraulic Model Investigation Report. | | |
| <p>South Orange County Workshop</p> <p>On November 6, 2019 MWDOC held a Regional System Planning & Local Water Supply Integration Workshop with South Orange County member agencies. The workshop discussed a variety of issues including:</p> <ul style="list-style-type: none"> • Extension/Expansion of South Orange County Emergency Service Program • Additional Options for Emergency Water for South OC | | |

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| <p>SOC Workshop- Local Supply Integration – continued</p> | <ul style="list-style-type: none"> • Expert Panel Discussion on potential water quality impacts from the integration of various source waters • Solicited feedback from member agencies on hydraulic & water quality model options <p>Based upon the feedback from SOC member agencies, some efforts were generally believed to make sense moving forward with, and others were deemed premature or very project specific and might be handled at a future time when more information is available; and possibly at the cost of the project proponent. Takeaways from the hydraulic modeling discussion included:</p> <ol style="list-style-type: none"> 1. Development of a model was generally seen as valuable. 2. The approach to modeling should focus on South County needs since the Huntington Beach Poseidon Project future is unclear. Modeling efforts should focus on south county issues and potential pump back projects into the EOCF#2. Santa Margarita WD suggested consideration of modeling via mass balance/spreadsheet tools, before embarking on hydraulic/water quality modeling. We are currently evaluating whether it would be better to use a hydraulic model to serve the purpose/need suggested by SMWD (which would require additional effort to implement), vs. expending effort to develop spreadsheet tools which may be lost if that effort does not contribute/integrate to the long term hydraulic model. SCWD also is slated to do an “Integration Study” for Doheny desalination project which could rely on an OC hydraulic model. 3. Key issue regarding EOCF#2 shared ownership – all owners want to be involved in discussions regarding how the pipeline could be used and assurance that if used for certain purposes (e.g. OCWD pump back), that other uses aren’t curtailed without active involvement (IRWD expressed this concern). <p>North Orange County Workshop A second workshop is scheduled for February 20, 2020 with the North OC member agencies at the MWDOC Agencies Managers Meeting to provide an update on the work to date.</p> <p>Investigation Report The final OC Hydraulic Model Investigation Report is expected by the end of February 2020. Staff will be returning to the P&O Committee next month with a recommendation to move forward with the purchase of a hydraulic model software package and to develop a hydraulic model for the OC Distribution system</p> |
| <p>South Orange County Emergency Service Program</p> | <p>MWDOC, IRWD, and Dudek have completed the study to determine if the existing IRWD South Orange County Interconnection capacity for providing emergency water to South Orange County can be expanded and/or extended beyond its current time horizon of 2030. The options considered appeared to be cost-prohibitive to the SOC agencies, except for the installation of Variable Speed Drives at the IRWD pump station that sends water to South Orange County. IRWD is pursuing more work that could open up options in the future depending on the outcome of the studies.</p> <p>Dudek participated in the November 6 SOC workshop to re-engage with the SOC agencies on this project. Support from the agencies was expressed to take a small</p> |

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| <p>South Orange County Emergency Service Program - continued</p> | <p>next step to install Variable Frequency Drives at a pump station within IRWD which would be paid for by SOC to help move water from the IRWD system to SOC in an emergency. The Variable Frequency Drives will provide more flexibility to the IRWD operations staff to allow additional water to be sent to SOC while meeting all of the IRWD needs.</p> |
| <p>Strand Ranch Project</p> | <p>Staff from MWDOC and IRWD are still discussing how to capture the benefits that can be provided by the development of “extraordinary supplies” from the Strand Ranch Project. A meeting is scheduled for Feb. 14th to further exchange ideas on how to implement the program.</p> |
| <p>Poseidon Resources Huntington Beach Ocean Desalination Project</p> | <p>The Santa Ana Regional Water Quality Control Board (SARWQCB) continues to work with Poseidon on renewal of the National Pollutant Discharge Elimination System (NPDES) Permit for the proposed HB Desalination Project.</p> <p>At the December 6, 2019 SARWQCB meeting in Huntington Beach, Regional Board staff conducted a workshop on the renewal of the NPDES permit for the proposed desalination facility. Along with the NPDES permit renewal, the facility requires a California Water Code section 13142.5(b) determination in accordance with the State’s Ocean Plan (a.k.a. the Desalination Amendment). The workshop reviewed the proposed facility, the draft renewal of the NPDES permit, and the associated draft Water Code section determination. To make a determination consistent with the Desalination Amendment the Regional Board is required to analyze the project using a two-step process:</p> <ol style="list-style-type: none"> 1. Analyze separately as independent consideration a range of feasible alternatives for the best available to minimize intake and mortality of all forms of marine life: <ol style="list-style-type: none"> a. Site b. Design c. Technology d. Mitigation Measures 2. Then consider all four factors collectively and determine the best combination of feasible alternatives. <p>Regional Board staff reviewed hundreds of documents and input from both an independent reviewer and a neutral 3rd party reviewer to develop the tentative Order and proposed Water Code section 13142.5(b) determination.</p> <p>The key areas required by the Ocean Plan on which the Santa Ana Water Board is required to make a determination, includes:</p> <ul style="list-style-type: none"> • Facility onshore location; • Intake considerations including subsurface and surface intake systems; • Identified need for the desalinated water; • Concentrated brine discharge considerations; • Calculation of the marine life impacts; and • Determination of the best feasible mitigation project available |

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| <p>Poseidon Resources Huntington Beach Ocean Desalination Project - continued</p> | <p>In evaluating the proposed project, Santa Ana Regional Board staff interpreted “the identified need for the desalinated water” as whether or not the project is included in local area water planning documents, rather than a reliability need as analyzed in the OC Water Reliability Study. The Regional Board staff referenced several water planning documents; Municipal Water District of Orange County’s (MWDOC) 2015 Urban Water Management Plan (UWMP), the OC Water Reliability Study, OCWD’s Long Term Facilities Plan, and other OCWD planning documents in their evaluation of Identified Need.</p> <p>The workshop was heavily attended. There were a considerable range of views expressed at the meeting. Several of the SARWQCB members were somewhat confused about the evaluation of Identified Need for the project (inclusion in local water planning documents vs. an identified reliability need for the project) and requested staff to help them understand the issue better.</p> <p>It is anticipated that The Regional Board will issue the final permit at the April 3, 2020 meeting</p> <p>Assuming success, Poseidon would then seek its final permits from the California Coastal Commission (CCC). The CCC has committed to reviewing the permit within 90 days of the SARWQCB NPDES permit issuance (CCC permit issuance estimated to be Summer 2020).</p> <p>The latest information is for the SARWQCB to conduct a meeting on March 13 where both MWDOC and OCWD have been invited to participate regarding the “need” for the Poseidon Project. The definition of “need” varies between the 2014 Ocean Plan Amendment definition where the project must be included in an Urban Water Management Plan or other planning document to a more conventional definition of “need” being from a supply reliability perspective.</p> |
| <p>Trampas Canyon Dam and Reservoir</p> | <p>Construction of Trampas Canyon Dam and Reservoir by SMWD, Orange County's largest recycled water reservoir, is on track to be completed in the summer of 2020. The 5,000 AF reservoir will store recycled water in low demand months to provide supplies to SMWD and other agencies in the summer periods. The dam and pipeline phase of the project is 73% complete. The pump station construction contract was award to Kingmen Construction on November 22, 2019 for \$3.356 million. Substantial completion of the pump station is anticipated August 31, 2020.</p> |
| <p>EMERGENCY PREPAREDNESS</p> | |
| <p>WEROC Coordination</p> | <p>On January 13, 2020, Vicki Osborn joined the team as the Director of Emergency Management.</p> <p>Vicki presented the Draft WEROC Budget to the funding agencies on January 29th. This provided an opportunity for the funding agencies to ask questions about the budget and suggest any needed program support. Vicki and Karl will be meeting with those agencies who were unable to attend separately in February.</p> |

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| <p>WEROC Coordination continued</p> | <p>WEROC Quarterly Meeting was held February 4th. Items on the agenda included California Office of Emergency Services (CalOES) and Dam Planning and Compliance Assistance, AWIA update, Hazard Mitigation and the readiness initiative for the WEROC program as the new Director develops the strategic plan for the organization.</p> <p>On January 29th, water agencies were invited to view a demo on tiger dam products.</p> <p>Daniel has completed the creation of a Cyber Information Sharing Distribution list. WEROC will continue inform member agencies to threat trends when information from the Orange County Intelligence and Assessment Center (OCIAC) or other member agencies is received.</p> <p>Janine is working with member agencies on updating the AlertOC mass notification user agreement and performing an audit on users training credentials.</p> |
| <p>Coordination with the County of Orange and outside agencies</p> | <p>Daniel attended the January OCEMO meeting held at Cal State Fullerton Arboretum. Operational Area (OA) EOC Director Donna Boston from the Emergency Management Division (EMD) provided an overview of the Emergency Management Division projects and goals for 2019. Other presentation topics included OA Managers Report, Grant Updates, CalOES report, and Sub-committee updates.</p> <p>Vicki is working with CalOES Mitigation and Dam Safety Division and the County/OA on a tool to assist agencies responsible for dam safety compliance and creation of Emergency Response Plans. A presentation on this subject is occurring at the WEROC Quarterly Meeting.</p> <p>CalOES Southern California Catastrophic Earthquake Planning Officer reached out to Vicki for assistance with compiling a dataset of all water agencies within Orange County and the Southern California Regional Area. Additionally, Vicki has been invited to participate in a California Emergency Support Functions (CA-ESFs) workshop in March where all of the multimodal transportation system partners will be together for the first time, to discuss corridor access and commodity movement task force operations for a catastrophic event. California ESFs consist of 18 primary disciplines or activities essential to addressing the emergency management needs of communities in all phases of emergency management. Led by a State agency, each CA-ESF is designed to bring together discipline-specific stakeholders at all levels of government to collaborate and function within the four phases of emergency management: mitigation, preparedness, response, and recovery. At the state level, the CA-ESFs consist of an alliance of State agencies, departments, and other stakeholders with similar discipline-specific responsibilities. This grouping will allow each CA-ESF to collaboratively mitigate, prepare for, cohesively respond to, and effectively recover from an emergency. Vicki’s focus at this workshop will be ensuring water/waste water critical needs are heard and received.</p> |

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| | <p>WEROC continues to support California Water/Wastewater Agency Response Network (CalWarn). Janine and Leah are updating the CalWarn contact lists. These lists are vital during any event, large or small requiring mutual assistance.</p> |
| <p>America’s Water Infrastructure Act (AWIA)</p> | <p>WEROC and its consultant, Herndon Solutions Group (HSG) are continuing to work with the WEROC agencies to achieve compliance with America’s Water Infrastructure Act (AWIA). AWIA requires utilities to conduct a Risk and Resilience Assessment (RRA) of their community water systems and develop a corresponding Emergency Response Plan (ERP) by March 31, 2020, for systems serving a population of 100,000 or more and for later dates for smaller agencies.</p> <p>New Actions:</p> <ul style="list-style-type: none"> • 25 Agencies participated in the Phase 1 Compliance Crosswalk • All Phase 1 Crosswalks were developed and provided to agencies and Phase I was completed in October 2019. The crosswalks remain a draft as agencies work through the Phase 2 and Phase 3 processes. • There are 23 agencies participating in the Phase 2 Risk and Resilience Assessment and Phase 3 Emergency Response Plans. • Workshops with the agencies are two-day events with key staff from each of the agencies to complete the asset and threat characterization. A second workshop completes the consequence and vulnerability analysis. The combination of these workshops provide the basis for completion of the Risk and Resiliency Assessment (RRA). • Workshops have been completed for all of the larger agencies with a due date of March 2020, and these Tier I agencies are in process of receiving and reviewing their RRA. Phase III, the Emergency Response Plans, are due 6 months later in September 2020 and work will be beginning on those. • Tier II Agencies (RRA Due December 2020) will begin Phase II in March with scheduling of their RRA Workshops. |
| <p>Hazard Mitigation Planning</p> | <p>WEROC continues to follow-up with the 19 member agencies who participated in the 2018 update of the Orange County Water and Wastewater Multi-Jurisdictional Hazard Mitigation Plan. There are only three (3) agencies from whom we have not received their agency resolution letters formally adopting the plan. Once this step is completed, the plan will be sent back to FEMA for closeout on the certification process.</p> |
| <p>PSPS Events</p> | <p>On-going: California Public Utilities Commission (PUC) proceedings regarding the Impacts from De-Energization with a Focus on First Responders and Local Government. MWDOC has received Party Status to these proceedings. Party Status was intended to ensure that we receive all communications regarding the proceedings and that our comments are included officially for consideration. Vicki is monitoring the release of any documents for review and comment over the next few months.</p> <p>Vicki has been working with both SCE and SDGE in January to establish a collaborative partnership in her new position. She has been added to their notification lists, and will be working with agencies impacted by the PSPS program to update their contacts points and critical infrastructure.</p> |

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| <p>PSPS Events - continued</p> | <p>On January 22nd, Vicki attended the SCE PSPS Water Utilities Resiliency Workshop in Ventura. This workshop provided an overview on the current SCE programs, updated processes, communication procedures, and presentation on lessons learned from 2019 PSPS events from Kern River Valley Water District.</p> |
| <p>EOC Readiness</p> | <p>Janine Schunk and Daniel participated in the OA and MET radio tests and WebEOC tests.</p> <p>Janine is working to register the new WEROC/MWDOC EOC generator and obtain insurance. Daniel completed the installation required for towing capabilities.</p> <p>Carryover to February. Daniel is working with the vendor on the replacement antenna to repair our satellite rooftop antenna.</p> <p>Janine completed updates to Safety Center, the Concept of Operations Plan (COOP), and WEROC contact lists.</p> |
| <p>Training and Exercises</p> | <p>WEROC is hosting two radio user classes on February 19 and February 27th. Orange County Sheriff’s Department Communication Division is teaching the course.</p> <p>Vicki and Daniel participated in the annual County EOC Earthquake Functional Exercise on January 30th. The exercise was based on a 6.7 earthquake on the Chino Hills Fault impacting the east side of Orange County. The objectives on this exercise focused on coordination and communication including an activation of the Joint Information Center used for media outreach. In March, WEROC will include an action items list in its Planning and Operations Committee Report.</p> <p>On April 29th, WEROC and partner agencies will be participating in a Prado Dam Failure Tabletop Exercise being conducted by the United States Army Corps of Engineers (USACE).</p> <p>Vicki is currently transitioning her teaching credentials at the state level. Once completed, the Training and Exercise Program Plan will be revised based on the assessment and needs identified at the WEROC Quarterly Meeting.</p> |
| <p>WATER USE EFFICIENCY</p> | |
| <p>Irvine Ranch Water District (IRWD) Water Resources Policy and Communications Committee Meeting</p> | <p>On January 9, Joe Berg attended the IRWD Water Resources Policy and Communications Committee meeting. Of notable interest on the agenda were the results of a study of IRWD’s Future Potential Water Efficiency. Staff presented a series of study findings of past activities and future recommendations. IRWD will use these results to focus promotional activities and emphasis on specific savings opportunities to have the greatest water savings benefits moving into the future.</p> |

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| <p>Orange County Water Loss Control Workgroup Meeting</p> | <p>On January 14, Joe and Rachel Davis hosted the Orange County Water Loss Control Workgroup meeting at MWDOC. Approximately 31 agency staff attended this meeting. Items on the agenda included:</p> <ul style="list-style-type: none"> • Updates on: <ul style="list-style-type: none"> ○ Technical Assistance Exhibit A ○ State Water Loss Standards • NO-DES Distribution System Flushing • Year 5 Goals • Discussion and Questions <p>The next workgroup meeting is scheduled for March 10 at MWDOC.</p> |
| <p>Metropolitan Water District of Southern California (Metropolitan) Water Use Efficiency Workgroup Meeting</p> | <p>On January 16, MWDOC WUE staff participated via conference call in Metropolitan’s Water Use Efficiency Workgroup meeting. Approximately 30 member agencies participated in the meeting. Agenda items included:</p> <ul style="list-style-type: none"> • January Metropolitan Board Presentations <ul style="list-style-type: none"> ○ Conservation Updates • Council for WaterShed Health <ul style="list-style-type: none"> ○ School Conservation Pilot Program • Member Agency Roundtable • Metropolitan Involvement in Leak Detection/Budget Based Rates • Metropolitan Outreach Updates <p>The next workgroup meeting is scheduled for February 20 at Metropolitan.</p> |
| <p>California-Nevada American Water Works Association (CA-NV AWWA) Water Loss Control Workshop</p> | <p>On January 21, Rachel D. and Jason Thorsell attended a CA-NV AWWA Water Loss Control Workshop held in Escondido. Topics covered in the workshop included compiling a water balance, component analysis, water supplied, authorized consumption, and apparent loss and real loss, with an emphasis on non-revenue water.</p> |
| <p>Seal Beach Leak Detection Survey Kick-off Meeting</p> | <p>On January 22, Joe, Rachel D., and Jason met with staff from the City of Seal Beach to discuss details, develop a schedule, and kick-off the City’s Leak Detection Survey.</p> |
| <p>Qualified Water Efficient Landscaper (QWEL) Training</p> | <p>On January 23, January 30, and February 6, MWDOC WUE staff organized and hosted the first three sessions of QWEL training. The training was held at MWDOC, and 23 landscape and water professionals were in attendance. The remaining three classes of this series will be held at MWDOC on February 13, February 20, and February 27. On February 4, Beth Fahl coordinated the setup of the first of six QWEL class sessions at the Irvine Ranch Water District (IRWD) Duck Club. The sessions are six consecutive Tuesdays, ending March 10.</p> |

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| <p>Data Collaborative Conference Call</p> | <p>On February 5, Rachel Waite participated in a conference call organized by San Antonio Water Systems data research staff. The call was the kick-off of an effort to increase information sharing among water data analysts or other applicable water agency staff, and to promote collaboration on projects. Approximately six agencies participated. The next conference call is scheduled tentatively for May 2020.</p> |
| <p>Orange County Water Use Efficiency Coordinators Workgroup Meeting</p> | <p>On February 6, Joe, Beth, Rachel D., Rachel W., and Steve Hedges hosted the Orange County Water Use Efficiency Coordinators Workgroup meeting at MWDOC. Approximately 21 agencies participated in the meeting. Highlights on the agenda included:</p> <ul style="list-style-type: none"> • MWDOC Updates • Agency Roundtable/Problem Solving • Public Affairs/Marketing • Sustainable Landscapes in Commercial and Industrial Properties <ul style="list-style-type: none"> ○ Presentation from Pacific Institute • Water Budgets Assistance <ul style="list-style-type: none"> ○ Presentation from Santa Ana Watershed Project Authority • Metropolitan Update <ul style="list-style-type: none"> ○ Leak Detection ○ Board Update • Water Loss Control Program Update • Water Use Efficiency Programs Update <ul style="list-style-type: none"> ○ Water Demand Trends <p>The next meeting is scheduled for March 5 at MWDOC.</p> |
| <p>Aliso Creek Watershed and Flow Ecology Study Meeting Discussion</p> | <p>On February 10, Rachel W. and Charles Busslinger met with the staff from the County of Orange and the Southern California Water Research Project (SCWRP) to discuss MWDOC’s submitted feedback to the Aliso Creek Watershed Collaboration Workgroup and Flow Ecology Study meetings that were held on January 8, 2020. County and SCWRP staff provided further information and clarification on the studies and research that is being conducted in south Orange County.</p> |
| <p>Neutral Output Discharge Elimination System (NO-DES)</p> | <p>On February 11, MWDOC coordinated a Neutral Output Discharge Elimination System (NO-DES) Distribution System Flushing demonstration for Member Agencies. The City of Orange hosted this demonstration at its water yard, and 30 staff from five member agencies participated. The purpose of this demonstration was to introduce member agency staff to the process and provide information about MWDOC’s Water Loss Control Shared Services opportunities.</p> |
| <p>Alliance for Water Efficiency Research Committee Meeting</p> | <p>On February 11, Rachel W. participated via conference call in the Alliance for Water Efficiency Research Committee Meeting. Highlights on the agenda included:</p> <ul style="list-style-type: none"> • New Committee Chair • Research Committee Activity <ul style="list-style-type: none"> ○ AMI Workgroup ○ EM&V Workgroup • Committee Member Research Activity • Committee Member Research Interests and Ideas <ul style="list-style-type: none"> ○ Efficacy of National Standards ○ Customer Satisfaction Surveys on Efficient Fixtures • AWE Updates |

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| <p>Alliance for Water Efficiency Research Committee Meeting -- continued</p> | <ul style="list-style-type: none"> ○ Drought Restrictions Study Launch ○ Cooling Technology Project ○ Tracking Tool Version 4 Update ● CalWEP Research and Evaluation Committee ● Other Business/Updates <p>The next meeting is tentatively scheduled for April 8.</p> |
| <p>PUBLIC/GOVERNMENT AFFAIRS</p> | |
| <p>Member Agency Relations</p> | <p>Public Affairs Staff:</p> <ul style="list-style-type: none"> ● Prepared materials for the MWDOC member agency toolkits on PFAS and the Westminster Pocket Park ● Began planning and preparation for the February 20 Public Affairs Workgroup ● Began preparation for the 2020 Water Awareness Poster Contest ● Attended the Water Use Efficiency Coordinators meeting and provided a Public Affairs update ● Attended the Tiger Dam Emergency Flood Barrier Demonstration <p>Governmental Affairs Staff:</p> <ul style="list-style-type: none"> ● Coordinating with Joe Berg, reached out to cities in Orange County reminding them to file missing Model Water Efficiency Landscape Ordinance (MWELo) reports. ● Sent information including links to file MWELo reports to various cities in the county |
| <p>Community Relations</p> | <p>Public Affairs Staff:</p> <ul style="list-style-type: none"> ● Coordinated, facilitated, and staffed the January 11 Girl Scouts Water Resources and Conservation Patch Program with El Toro Water District ● Provided Orange County Sanitation District with information regarding MWDOC Scouts Programs |
| <p>Education</p> | <p>Public Affairs Staff:</p> <ul style="list-style-type: none"> ● Participated in the Metropolitan Water District of Southern California Education Coordinators meeting ● Participated in the 2-day Department of Water Resources Water Education Committee Meeting in Santa Barbara ● Participated in the Youth Employment Services Program mock interviews for Costa Mesa High School seniors ● Presented at the OC STEM Initiative Lunch and Learn for Orange County educators and administrators ● Participated in the California Water Energy Education Alliance (WEEA) Leadership Roundtable meeting hosted at Los Angeles Department of Water and Power ● Coordinated MWDOC High School Program observation with South Coast Water District and Bolsa Chica Conservancy at Dana Hills High School ● Provided MWDOC High School Program contractor, Bolsa Chica Conservancy, with member agency education contacts |

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| <p>Education - continued</p> | <ul style="list-style-type: none"> • Provided information and resource support to Bolsa Chica Conservancy, East Orange County Water District, City of Tustin, City of San Juan Capistrano, City of Santa Ana, Santa Margarita Water District, City of Brea, and City of Westminster regarding MWDOC High School Program • Coordinated MWDOC Elementary School (K-2 and 3-6) Program observations with Shows That Teach, Discovery Cube Orange County, City of Westminster, and Moulton Niguel Water District • Provided MWDOC Water Education School Program observer survey to Moulton Niguel Water District for both K-2 and 3-6 programs • Provided MWDOC Water Education School Program contractors— Shows That Teach, Discovery Cube Orange County, and Bolsa Chica Conservancy—with grade-band specific program flyers for promotional use • Responded to teacher interest form requests submitted through MWDOC School Program webpage and coordinated visit approval with Shows That Teach, Discovery Cube Orange County, City of Westminster, Moulton Niguel Water District, and Santa Margarita Water District • Responded to teacher interest form request submitted through MWDOC School Program webpage and provided information and appropriate contact for Irvine Ranch Water District and City of Fountain Valley • Provided Water Industry Careers Flyer to Bolsa Chica Conservancy to assist students in their 3rd school program visit presentations • Worked with education partners State Education and Environment Roundtable and Orange County Department of Education’s Inside the Outdoors, and ProjectWET, to provide South County teacher with additional resources to help integrate the MWDOC Water Awareness Poster Contest into two schools • Provided FY 2018/19 actual student counts to City of Santa Ana • Provided MWDOC Elementary School and Middle School program information to the City of Fountain Valley • Provided Santa Ana school teacher representing the Westminster School District with information on MWDOC Water Education School Programs • Participated in two (2) California Environmental Literacy Initiative Leadership Council meetings • Continued to rework MWDOC school program goals • Spoke with North Orange County Regional Occupational Program Manager about developing a survey for Orange County water and wastewater utilities to identify workforce needs |
| <p>Media Relations</p> | <p>Public Affairs Staff:</p> <ul style="list-style-type: none"> • Coordination of Orange County Register OC Water Reliability sponsored content feature • Developed and published February eCurrents newsletter • Developed and submitted news release announcing Vicki Osborn as the new MWDOC Director of Emergency Management |
| <p>Special Projects</p> | <p>Public Affairs Staff:</p> <ul style="list-style-type: none"> • Participated in several meetings with Directors and Orange County Water District Staff in preparation for the 2020 OC Water Summit |

Special Projects -- continued

- Continue to secure speakers and sponsors for the OC Water Summit
- Prepared and presented Public Affairs Goals and Objectives for 20/21 and beyond for the Board
- Prepared the first draft Public Affairs Budget for FY 20/21
- Coordinated event logistics with Avenue of the Arts Hotel for the February 12 Water Policy Forum & Dinner
- Accepted on-going registration and completed a variety of event logistics for the February 12 Water Policy Dinner
- Participated in one (1) CalDesal Communications and Outreach Committee meeting, and (1) CalDesal Social Media Subcommittee meeting
- Provided Water Emergency Response Organization of Orange County a recommended color palette for new logo design
- Finalized a video announcing the Xtreme Water Makeover contest winner – posted to social media
- Worked with contractor HashtagPinpoint to finalize the 2019 MWDOC social media audit
- Completed several mwdoc.com webpage updates
- Developed and posted social media content

Governmental Affairs Staff:

- Staffed the January WACO meeting focusing on response to Constituents of Emerging Concern
- Identified updated needs for both the WACO and ISDOC pages on the MWDOC website and coordinated with Public Affairs staff
- Drafted letters on behalf of ISDOC updating the membership to the Orange County Operational Area Board
- Coordinated with CSDA and finalized details for the upcoming ISDOC hosted Form 700 workshop, including assisting on the draft invite, developing mail and email invite lists, facilitating payment, and confirming details
- Invited speakers for the February WACO program on Housing and Water
- Developed panelist questions for February WACO program
- Participated in a conference call with EMWD, IEUA, and WMWD to finalize menu and room details for the DC luncheon
- Sent invitation to local legislative staff encouraging them to attend the February 12 Water Policy Dinner
- Sent invitations to March WACO speakers
- Coordinated details for January 30 ISDOC Quarterly Luncheon including registration, payments, catering, agenda, and talking points, and other logistics
- Handled inquiries from the City of Westminster and the City of Buena Park regarding SB 998 compliance and implementation
- Staffed the ISDOC Quarterly Luncheon featuring the Orange County Registrar of Voters
- Staffed the ISDOC Executive Committee meeting
- Coordinated with OC LAFCO and the OC Auditor-Controller on an appropriate timeline for an alternative dues formula for the special districts portion of the LAFCO budget

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| <p>Legislative Affairs</p> | <p>Governmental Affairs Staff:</p> <ul style="list-style-type: none"> • Participated in the Southern California Water Coalition Legislative Task Force Annual Planning Meeting at IEUA • Met with staff representatives from MWD, State Contractors, Upper District and IEUA to discuss issues and focus for the 2020 legislative session • Monitored the MWD Conservation and Local Resources Committee meeting featuring an update from Nancy Voegel on the California Water Resiliency Portfolio • Participated in the ACWA Region 10 State Legislative Committee meeting pre-call with participants in Orange and San Diego counties • Met with the County of Orange legislative director to discuss legislative priorities for 2020 • Participated in the ACWA State Legislative Committee meeting in Sacramento • Attended the California Municipal Utilities Association (CMUA) annual Capitol Days in Sacramento featuring speakers: Senate Pro Tem Toni Atkins, Assemblymember Chris Holden, Senator Brian Dahle, Assembly Water, Parks and Wildlife consultant Catherine Freeman, Senator Ana Caballero, Senator Ben Allen, and Assemblymember Cecilia Aguiar-Curry. • Participated in the ACWA Federal Affairs Committee meeting • Participated in the MWD Member Agencies Legislative Coordinators meeting • Participated in the Southern California Water Coalition Legislative Taskforce meeting • Participated in the CMUA/MWD CEC legislation working group meeting • Participated in the Association of Metropolitan Water Agencies Legislative Committee meeting • Monitored the Assembly Water, Parks and Wildlife Committee Information hearing – What Happens to Water Supplies During a Public Safety Power Shutoff? |
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**MUNICIPAL WATER DISTRICT OF ORANGE COUNTY
AGENCIES MANAGERS MEETING**

Street Address:
18700 Ward Street
Fountain Valley, California 92708

Mailing Address:
P.O. Box 20895
Fountain Valley, CA 92728-0895

(714) 963-3058
Fax: (714) 964-9389
www.mwdoc.com

Sat Tamaribuchi
President

Joan C. Finnegan
Vice President

Larry D. Dick
Director

Bob McVicker, P.E. D.WRE
Director

Megan Yoo Schneider, P.E.
Director

Brett R. Barbre
Director

Jeffery M. Thomas
Director

Robert J. Hunter
General Manager

MEMBER AGENCIES

- City of Brea
- City of Buena Park
- East Orange County Water District
- El Toro Water District
- Emerald Bay Service District
- City of Fountain Valley
- City of Garden Grove
- Golden State Water Co.
- City of Huntington Beach
- Irvine Ranch Water District
- Laguna Beach County Water District
- City of La Habra
- City of La Palma
- Mesa Water District
- Moulton Niguel Water District
- City of Newport Beach
- City of Orange
- Orange County Water District
- City of San Clemente
- City of San Juan Capistrano
- Santa Margarita Water District
- City of Seal Beach
- Serrano Water District
- South Coast Water District
- Trabuco Canyon Water District
- City of Tustin
- City of Westminster
- Yorba Linda Water District

LOCATION: MWDOC's Fountain Valley office is located at 18700 Ward St, and the entrance/exit is about ¼ mile south of Ellis Ave. The nearest freeway access is Euclid at the 405. Parking is available to the east of the MWDOC/OCWD Admin offices (follow driveway from Ward St to parking areas).

WHEN: Thursday, February 20, 2020 from **10:30 am to 12:00 pm.**

DRAFT AGENDA

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| 1. Opportunity to add and discuss items not already listed. | Page # |
| 2. Information Items: | |
| 2-1. WEROC Introduction - Vicki Osborn, Director of Emergency Management | |
| 2-2. MWDOC Budget | 2 |
| 2-3. Metropolitan Budget | 47 |
| 3. Follow-up Items: | |
| 3-1. Diemer Chemical Exposure Incident Update..... | 56 |
| 3-2. AWIA Update | |
| 3-3. BUC-AQMD Update | |
| 4. Roundtable Discussion Items: | |
| 4-1. Regional System Planning & Local Water Supply Integration Update..... | 60 |
| 5. Report Items: | |
| 5-1. Monthly GM Report | 65 |
| 5-2. Legislative Reports | 86 |
| 5-3. WEROC Matrix | 111 |
| 5-4. Grant Funding Opportunities | Provided at Mtg. |
| 6. Reminders: | |
| 6-1. Urban Water Management Plan – Selection of Consultant | |
| 6-2. Delta Conveyance Notice of Preparation | March 20, 2020 |
| 7. Next meeting will <u>tentatively</u> be held March 19, 2020. | |

Lunch will be provided immediately following the meeting.

NOTICE OF ADJOURNMENT

LOCAL AGENCY FORMATION COMMISSION ORANGE COUNTY

2677 North Main Street, Suite 1050
Santa Ana, CA 92705
(714) 640-5100 ♦ FAX (714) 640-5139

REGULAR MEETING AGENDA

Wednesday, February 12, 2019

8:15 a.m.

**Planning Commission Hearing Room
Hall of Administration
333 W. Santa Ana Blvd.
10 Civic Center Plaza, Santa Ana, CA 92701**

The February 12, 2020 Regular Commission Meeting has been cancelled. The next scheduled meeting of this Commission will be **Wednesday, March 11, 2020 at 8:15 a.m.** at the Planning Commission Hearing Room – Hall of Administration (HOA) located at 333 W. Santa Ana Blvd., 10 Civic Center Plaza, Santa Ana, CA 92701.

For more information, please contact Cheryl Carter-Benjamin, Clerk of the Commission, at (714) 640-5100.

NOTICE REGARDING ITEMS DISTRIBUTED TO THE COMMISSION LESS THAN 72 HOURS PRIOR TO THE LAFCO REGULAR MEETING:

Pursuant to Government Code Section 54957.5 public records that relate to open session agenda items that are distributed to a majority of the Commission less than seventy-two (72) hours prior to the meeting will be available to the public at Orange County LAFCO offices at 2677 North Main Street, Suite 1050, Santa Ana, CA 92705 during regular business hours. These records when possible will also be made available on the OC LAFCO website at <http://www.oclafco.org>.

NOTICE: *State law requires that a participant in a LAFCO proceeding who has a financial interest in a decision and who has made a campaign contribution of more than \$250 to any commissioner in the past year must disclose the contribution. If you are affected, please notify the Commission's staff before the hearing.*

LAFCO Agendas and supporting documentation are available on the Internet at <http://oclafco.org>.

**SOUTH ORANGE COUNTY WATERSHED MANAGEMENT AREA
MANAGEMENT COMMITTEE**

AGENDA
February 3, 2020
1:30 PM – 3:30 PM

City of Laguna Hills, City Hall – Council Chambers
24035 El Toro Road
Laguna Hills, CA 92653

[Map](#)



Shaun Pelletier

City of Aliso Viejo

Lisa Zawaski

City of Dana Point

Mary Vondrak

City of Laguna Beach

Ken Rosenfield

City of Laguna Hills

Hal Ghafari

City of Laguna Niguel

Rebecca Pennington

City of Laguna Woods

Devin Slaven

City of Lake Forest

Joe Ames

City of Mission Viejo

Hazel McIntosh

City of Rancho Santa Margarita

David Rebensdorf

City of San Clemente

Norris Brandt

San Juan Basin Authority

Joe Parco

City of San Juan Capistrano

Grant Sharp

County of Orange

Dennis Cafferty

El Toro Water District

Mark Tetteimer

Irvine Ranch Water District

Rodney Woods

Moulton Niguel Water District

Charles Busslinger

Municipal Water District of OC

Dan Ferons

Santa Margarita Water District

Rick Shintaku

South Coast Water District

Betty Burnett

South OC Wastewater Authority

Fernando Paludi

Trabuco Canyon Water District

David Youngblood

Laguna Beach County Water District

1. **Welcome & Introductions**

2. **Update: Aliso Creek Watershed Collaboration Group**
Jenna Voss & Andrew McGuire, County of Orange

3. **Updates: Water Resilience Portfolio & Roundtable of Regions**
Jenna Voss

4. **Updates: Proposition 1 IRWM & Stormwater Grants**
Jenna Voss

5. **Updates & Discussion: Water Quality Improvement Plan (WQIP)**
Cindy Rivers, County of Orange
 - a) **Implementation of the Comprehensive Human Waste Source Reduction Strategy (CHWSRS) Work Plan and Human Waste Abatement Group's Roles** – *Michael Trapp, Vada Moon & Vanessa Thulsiraj, MBI*

 - b) **Flow Ecology Study** – *Cindy Rivers*

6. **MC Member Roundtable**
Committee

7. **Next Executive Committee Meeting: March 2, 2020**
Next Management Committee Meeting: February 6, 2020

8. **Closing and Adjourn**

AGENDA
SOUTH ORANGE COUNTY WATERSHED MANAGEMENT AREA
EXECUTIVE COMMITTEE



February 6, 2020

2:30 – 4:30 p.m.

Laguna Niguel Council Chambers
30111 Crown Valley Parkway
Laguna Niguel, CA 92677

[Map](#)

Debbie Neev, Chair

Laguna Beach County Water District

Sandra Jacobs

Santa Margarita Water District

Sandy Rains

City of Laguna Niguel

Paul Wyatt

City of Dana Point

Kay Havens

El Toro Water District

Mary Aileen Matheis

Irvine Ranch Water District

Bob Whalen

City of Laguna Beach

Erica Pezold

City of Laguna Hills

Carol Moore

City of Laguna Woods

Trish Kelley

City of Mission Viejo

Scott Voigts

City of Lake Forest

Tiffany Ackley, Vice Chair

City of Aliso Viejo

Bill Moorhead

Moulton Niguel Water District

Megan Yoo Schneider

Municipal Water District of OC

Lisa Bartlett

County of Orange

Brad McGirr

City of Rancho Santa Margarita

David Rebensdorf (Alternate)

City of San Clemente

Derek Reeve

San Juan Basin Authority

Doug Erdman

South Coast Water District

Rick Erkeneff

South OC Wastewater Authority

Ed Mandich

Trabuco Canyon Water District

Jack Hunt

City of San Juan Capistrano

The Watershed Management Area Executive Committee welcomes you to this meeting and encourages your participation.

This agenda contains a brief general description of each item to be considered. Except as otherwise provided by law, no action shall be taken on any items not appearing in the following agenda. However, items may be taken up in a different sequence.

Any member of the public wishing to speak on non-agenda items under the jurisdiction of the Executive Committee may do so during Public Comments (Item 2) after completing a speaker request card. Those wishing to speak on agenda items may do so following the item by completing a speaker request card.

All persons addressing the Executive Committee are requested to limit their comments to three minutes.

Agenda Materials: www.ocwatersheds.com

WELCOME AND PLEDGE OF ALLEGIANCE

ITEM # 1 INTRODUCTIONS

ITEM # 2 PUBLIC COMMENTS (NON-AGENDA ITEMS)

ITEM # 3 APPROVAL OF MINUTES

Recommended Action: Approve the minutes of the November 7, 2019 meeting.

ITEM # 4 SALT AND NUTRIENT MANAGEMENT PLAN UPDATE

AMBER BAYLOR, SOCWA

Recommended Action: Receive and file.

ITEM # 5 SOCWA RECREATIONAL WATER QUALITY RESEARCH UPDATE

AMBER BAYLOR, SOCWA

Recommended Action: Receive and file.

ITEM # 6 DRAFT WATER RESILIENCE PORTFOLIO RECOMMENDATIONS

JENNA VOSS, COUNTY OF ORANGE

Recommended Action: Receive and file.

ITEM # 7 STATE UPDATES AND POTENTIAL WATER BOND

JENNA VOSS

Recommended Action: Receive and file.

ITEM # 8 EXECUTIVE OFFICER'S REPORT

ITEM # 9 EXECUTIVE COMMITTEE MEMBER COMMENTS

ITEM # 10 ADJOURNMENT

Next meeting date: May 14, 2019



AGENDA STAFF REPORTS

ITEM # 1. INTRODUCTIONS

ITEM # 2. PUBLIC COMMENTS, NON-AGENDA TOPICS

Any member of the public wishing to speak on non-agenda items under the jurisdiction of the Executive Committee may do so during Public Comments by submitting a completed speaker request card to the Committee staff. Those wishing to speak on agenda items may do so following the item by completing a speaker request card.

All persons addressing the Executive Committee are requested to limit their comments to three minutes.

ITEM # 3. APPROVAL OF MINUTES

MINUTES OF NOVEMBER 7, 2019 FOR APPROVAL

Date and Location: November 7, 2019 2:30 – 4:30 p.m.
Laguna Niguel Council Chambers
30111 Crown Valley Parkway
Laguna Niguel, CA 92677

****Audio recording for the November 7, 2019 meeting is available [here](#). Recording times noted in the minutes correspond to that item on the recording. ****

ITEM # 1 Roll Call/Self-Introductions

Debbie Neev, Chair, Laguna Beach County Water District
Tiffany Ackley, Vice-Chair, City of Aliso Viejo
Elaine Gennawey, City of Laguna Niguel
Rick Erkeneff, South OC Wastewater Authority
Jack Hunt, City of San Juan Capistrano
Erica Pezold, City of Laguna Hills
Carol Moore, City of Laguna Woods
Kay Havens, El Toro Water District
Bill Moorehead, Moulton Niguel Water District
Paul Wyatt, City of Dana Point
Norris Brandt, for Derek Reeve, San Juan Basin Authority
Rich Schlesinger, for Trish Kelley, City of Mission Viejo
Ed Mandich, Trabuco Canyon Water District
Mark Tettermer, for Mary Aileen Matheis, Irvine Ranch Water District

Wayne Rayfield, for Doug Erdman, South Coast Water District
Saundra Jacobs, Santa Margarita Water District
Megan Yoo Schneider, Municipal Water District of OC
Brendan Dugan, for Brad McGirr, City of Rancho Santa Margarita
Bob Whalen, City of Laguna Beach

ITEM # 2 Public Comments (Non-Agenda Items)

There were no public comments on non-agenda items.

ITEM # 3 Approval of Minutes

The minutes of the August 8, 2019 meeting were presented to the Executive Committee for approval.

Recommended Action: Approve the minutes of the August 8, 2019 meeting.

Motion: Approve minutes
First/Second: Tiffany Ackley/Saundra Jacobs
Abstained: None
Outcome: Approved unanimously

ITEM # 4 2020 Meeting Dates (Recording: 00:04:50)

The 2020 meeting dates of February 6, May 14, August 6 and November 5 were presented to the Executive Committee for approval.

Recommended Action: Approve the proposed 2020 meeting dates of February 6, May 14, August 6 and November 5.

Motion: Approve proposed 2020 meeting dates
First/Second: Saundra Jacobs/Wayne Rayfield
Abstained: None
Outcome: Approved unanimously

ITEM # 5 Proposition 1 IRWM Implementation Grant Project Slate Final Approval (Recording: 00:05:27) – Presenter: Jenna Voss, County of Orange County

Ms. Jenna Voss, County of Orange provided an overview of the slate of projects recommended for funding by the stakeholders at the August 8, 2019 meeting and requested re-approval after receiving and considering feedback on the project slate by the state Department of Water Resources (DWR) to move forward with submitting the final application due to DWR in December. The \$2.33 million in projects and County administration approved by the stakeholders and Committee will be submitted collectively in one comprehensive application.

Ms. Debbie Neev, Ms. Megan Yoo Schneider, and Mr. Rick Erkeneff, asked Ms. Voss asked about next steps after the final application is submitted, whether or not we could replace a project rejected by DWR, and if there was a match cap requirement for projects in the proposal. Ms. Voss replied that after application submittal, the state will provide a draft recommendation for funding, followed by a formal offer of funding and drafting of agreements. Regarding replacing a project not accepted by DWR, we may have the opportunity to put a different project in its place but most likely we would need to wait for the next round



of funding. Regarding a funding cap, Ms. Voss clarified that DWR requires the full project slate to have a 50 percent match, and each project included in the slate meets or exceeds this standard.

Recommended Action: Re-approve recommended project slate for submittal of a \$2.33 million Proposition 1 Integrated Regional Water Management (IRWM) Implementation Grant Final Application Package to the California Department of Water Resources for the four projects recommended for funding consideration from the IRWM Plan.

Motion: Re-Approve the recommendation staff at the \$2.33 million Proposition 1 funds for the projects outlined.

First/Second: Tiffany Ackley/Saundra Jacobs

Abstained: None

Outcome: Approved unanimously

ITEM # 6 Data Management System Website Update (Recording: 00:13:23) – Presenters: Jenna Voss & Andrew McGuire, County of Orange

Ms. Voss and Mr. Andrew McGuire provided an update and a brief demonstration of the South Orange County Data Management System (DMS) website. For more information about the site, please visit www.southocirwm.org.

Recommended Action: Receive and file.

ITEM # 7 Water Quality Improvement Plan Studies & Updates (Recording: 00:22:41) – Presenter: Grant Sharp, County of Orange

Mr. Sharp provided a brief overview of the South Orange County Watershed Management Area (WMA) Water Quality Improvement Plan (WQIP) and the status on the Comprehensive Human Waste Source Reduction Strategy (CHWSRS) Work Plan and the Flow Ecology Special Study. For more information about these efforts, please visit the WQIP website at:

[http://www.ocwatersheds.com/documents/south_oc_water_quality_improvement_plan_\(wqip\)](http://www.ocwatersheds.com/documents/south_oc_water_quality_improvement_plan_(wqip))

a) Comprehensive Human Waste Source Reduction Strategy Work Plan (Recording: 00:30:48) – Presenters: Cindy Rivers, County of Orange & Clint Bosschen, Tetra Tech

Ms. Rivers provided an overview of the Comprehensive Human Waste Source Reduction Strategy (CHWSRS) Work Plan, the first step in addressing pathogen health risk, a key commitment of the WQIP. Inter-agency coordination is essential to the plan, so the cities and County have actively engaged the SOCWMA Management Committee. Mr. Clint Bosschen provided an overview of the tiered monitoring and assessment framework outlining a step-by-step process for assessing current conditions in the WMA and prioritizing areas for investigation and abatement activities. Mr. Bosschen provided an overview of a catchment prioritization approach developed to help target monitoring/abatement efforts and focus resources.

Several Committee members discussed this item, and asked Ms. Rivers clarifying questions ranging from the definition of a dry weather source, to how the plan will ensure coordination with cities or other groups working on similar issues, to how areas will be re-prioritized once all of the identified areas have been addressed or if the finding was related to a transient source of human waste. Ms. Rivers responded to Committee member inquiries, noting that the Permittees collectively are working together, including the San Clemente pier task force, and that as other areas are investigated based upon monitoring results, special teams of experts relevant to that area will coordinate on the investigation.



Additional Committee questions pertained to education and outreach and the stakeholder group working with the Permittees on the CHWSRS Work Plan. Ms. Rivers clarified that education and outreach efforts are identified in the Work Plan and will be developed in collaboration with representatives from the Management Committee, where applicable. Several Committee members recommended stakeholders to include in the process, such as private organizations adjacent to areas of concern.

Mr. Rayfield and Chair Neev requested updates on the CHWSRS Work Plan, including as agenda items at future Committee meetings.

For the full Committee discussion, please listen to the audio recording for the November 7, 2019 meeting available [here](#).

Public Comment (7a) (Recording: 01:06:41):

Ms. Amber Baylor, South Orange County Wastewater Authority (SOCWA), thanked the County and staff for working with them on the CHWSRS Work Plan. Ms. Baylor also updated the Committee on research they are conducting at SOCWA, including an eight-week research project focused on identifying bacteria present in surface water. Committee members thanked Ms. Baylor for her update. A request for more information at a future Committee meeting was recorded by staff.

b) South Orange County Flow Ecology Special Study (Recording: 01:25:44) – Presenters: Aaron Poresky, Geosyntec & Kris Taniguchi-Quan, SCCWRP

Mr. Poresky and Ms. Taniguchi-Quan provided an overview of the South Orange County Flow Ecology Special Study, including progress to date, methodology, and next steps. The study seeks to identify urban impacts on in-stream flows to best guide management actions and project development to meet the milestones of the WQIP. Ms. Taniguchi-Quan provided an overview of flow ecology, which considers flow related to biology and in-stream habitat. She went over the types of data being collected to prioritize flows for further management actions, and to inform future projects and watershed planning efforts.

Several Committee members asked clarifying questions on both the study and the stakeholder engagement process to develop and implement the study. Mr. Poresky described the broad-ranging stakeholder advisory group advising the process, which is inclusive of many of the agencies represented by the Committee. Ms. Taniguchi-Quan added that additional representatives with expertise in flow ecology and ecological communities are also engaged (e.g. California Department of Fish and Wildlife).

In response to questions from Committee members regarding data sources and intent of the study, Mr. Poresky clarified that the team developing the study are considering other agency/organization data sets, such as the San Juan Basin Authority's San Juan Creek modeling. Also, Mr. Poresky clarified that the study itself will not produce projects, but rather be used as a baseline tool to evaluate projects for their potential impact and benefit on flow balance, not to assess whether or not projects will happen. Additional clarification was provided regarding how the study will consider climate scenarios.

For the full Committee discussion, please listen to the audio recording for the November 7, 2019 meeting available [here](#).

Public Comment (7b) (Recording: 02:06:09):

Ms. Betty Burnett, SOCWA recognized the progress the South OC IRWM Group has made over the last 15 years of collaboration, and noted that consideration should also be made while working collaboratively, for



investments individual agencies are making respective of their goals, mandates and available resources. Ms. Burnett also requested that the group consider how we are communicating with the San Diego Regional Water Quality Control Board.

Recommended Action: Receive and file.

ITEM # 8 Executive Officer's Report (Recording: 02:08:45) – Presenter: Amanda Carr, County of Orange

Ms. Amanda Carr, County of Orange provided updates on the Aliso Creek Watershed Project Collaboration Group meetings, water resilience portfolio effort from the governor's office, and memorial service for Nancy Palmer. Additionally, Ms. Carr noted that County of Orange staff organized a meeting of resource and regulatory agencies to open dialogue about potential conflicts between NPDES and resource agency permit requirements.

Ms. Neev asked if the intent was to hold regular meetings with these entities; Ms. Carr confirmed.

ITEM # 9 Executive Committee Member Comments (Recording: 02:12:34)

Ms. Schneider stated, regarding the CHWSRS Work Plan discussed today, State Water Resources Control Board member Tam M. Doduc mentioned she is interested in this topic and looking for resources statewide.

Ms. Jacobs asked the County to bring the Salt Nutrient Management Plan update to a future meeting of the Committee. Ms. Carr informed her that will be covered in the February meeting.

ITEM #10 Adjournment (Recording: 02:15:06)



Non-Committee Attendees:

| | |
|---------------------|------------------------------------|
| Hal Ghafari | City of Laguna Niguel |
| Shawn Pelleffier | City of Aliso Viejo |
| Moy Yahya | City of Aliso Viejo |
| Mark Mountford | Moulton Niguel Water District |
| Laura Rocha | Moulton Niguel Water District |
| Betty Olson | San Diego Regional Board |
| Henry Abarbanel | San Diego Regional Board |
| Hal Schielenger | Bio Clean Environmental |
| Afnann Alseraji | College Student |
| Denise Vivas | College Student |
| Roger Butow | Clean Water Now |
| Steve Dishon | South Coast Water District |
| Dennis Cafferty | El Toro Water District |
| Christopher Regan | Laguna Beach County Water District |
| Aaron Poresky | Geosyntec Consultants |
| Clint Bosschen | Tetra Tech |
| Kris Taniguchi-Quan | SCCWRP |
| Amber Baylor | SOCWA |
| Don Bonts | Santa Margarita Water District |
| Justin McCluster | Santa Margarita Water District |
| Hasan Nouri | Fluvial Tech Inc. |
| Betty Burnett | SOCWA |

County Staff:

Amanda Carr, Grant Sharp, Jenna Voss, Andrew McGuire, Cindy Rivers,
Maria Tamez, Ryane Staley

END MINUTES OF NOVEMBER 7, 2019 FOR APPROVAL

Recommended Action: Approve the minutes of the November 7, 2019 meeting.

ITEM # 4. SALT AND NUTRIENT MANAGEMENT PLAN UPDATE

The Salt and Nutrient Management Plan (SNMP) describes how water and wastewater agencies will collaboratively manage salts, nutrients, and other significant chemical compounds on a watershed- or basin-wide basis. These plans are intended to streamline permitting of new recycled water projects while ensuring compliance with water quality objectives and protection of beneficial uses. SOCWA received IRWM funds through the Proposition 84 IRWM Planning Grant, to ensure compliance with Proposition 84 IRWM Plan Standards requiring completion and inclusion of an SNMP in the South OC IRWM Plan. The SNMP remains a key component of the 2018 IRWM Plan, included in summary as Section 13, and in full as Appendix G.

The SNMP was submitted to the San Diego Regional Water Quality Control Board (SDRWQCB) for approval on July 25, 2014 in compliance with the State Water Resources Control Board 2009 update to the Recycled Water Policy. The SNMP committed to seven implementation actions to support recycled water reuse within the San Juan Creek Watershed portion of the South Orange County Wastewater Agency (SOCWA) service



area. Implementation measure number six in the SNMP required a Five-Year update to assess the recycled water usage and impacts to the groundwater basins within the San Juan Basin hydrologic sub-areas.

The SNMP identified required adjustments to total dissolved solids (TDS) water quality objectives in the basin plan that are accomplished by the SDRWQCB's triennial review process, the development and implementation of an SNMP monitoring program to assess water quality trends, addressing any changes realized but not projected in the 2014 modeling efforts due to limited availability of SNMP specific data, and performing updates to assess water quality trends and recycled water usage impacts in the groundwater basins within the San Juan Basin hydrologic sub-areas. The first five-year update was initiated earlier this year. Overlap monitoring locations are included in the SOCWA Master Recycled Water Permit which will aid in the updated modeling and planning for SNMP related efforts.

This update provides a snap shot of the monitoring activities and associated work conducted associated with the SNMP. Amber Baylor, Director of Environmental Compliance at SOCWA, will provide the committee with an update of the SNMP next steps.

Recommended Action: Receive and file.

ITEM # 5. SOCWA RECREATIONAL WATER QUALITY RESEARCH UPDATE

Following on a request at the November 2019 Committee meeting, Ms. Amber Baylor, Director of Environmental Compliance at the South Orange County Wastewater Authority (SOCWA), will provide an overview of the Recreational Water Quality Research Plan currently underway.

To address the fundamental human health risk questions related to bacterial Total Maximum Daily Loading (TMDL) compliance, SOCWA began initial investigation of false positives in the EPA 1600 Method test. The EPA Method 1600 is an EPA-approved approach for quantifying Enterococci in water samples, providing a direct count based upon the growth of colonies on the surface of a membrane filter. False positives are considered sources from environmental bacteria that do not pose a risk to human health. In March 2019, SOCWA's laboratory began speciation of *Enterococcus* species from colonies growing on membranes using EPA Method 1600 and expanded the project through assistance with an intern over the summer of 2019 period.

SOCWA conducts weekly sampling of the shoreline between Laguna Beach and San Clemente as required by the Unified Beach Monitoring Program in the National Pollutant Discharge Elimination System (NPDES) permits. The research builds on the question of human health risk utilizing traditional fecal indicator bacteria (FIB) methods that are tied to compliance criteria established by AB 411¹ and the bacterial TMDLs applicable to South Orange County per REC-1 (recreational contact) standards. The results of the eight week program conducted by the SOCWA intern over the summer period indicate a large concentration of naturalized bacteria present and not of human origin. SOCWA will expand upon the research to assist the County in meeting compliance needs. For a more detailed description of this research, please refer to the SOCWA Engineering Committee Meeting staff report of November 14, 2019² linked in the footnote below.

¹ AB 411 chaptered into law in 1997 added to the California Health and Safety Code specifications for the California beach water quality monitoring program that samples FIB and provides public notification if it is safe to swim at any of the 476 California beaches. The US EPA Recreational Water Quality Criteria are intended to protect human health in inland and coastal waters by protecting primary contact recreation, such as swimming or surfing.

² SOCWA Engineering Committee Meeting on November 14, 2019 (Agenda Item 5): http://www.socwa.com/wp-content/uploads/2019/11/Complete-Engr-Comm.-Packet_11.14.19.pdf



Ms. Baylor will provide the committee with an update of the findings and the next steps.

Recommended Action: Receive and file.

ITEM # 6. DRAFT WATER RESILIENCE PORTFOLIO RECOMMENDATIONS

Ms. Jenna Voss will provide the Committee an update on the IRWM Roundtable of Regions (Roundtable) - an ad hoc group of representatives from IRWM regions around the State – which will again be providing input on local, regional and state-wide water resource planning priorities at in a comment letter to the California Natural Resources Agency regarding the Governor’s [Draft Water Resiliency Portfolio](#) (Draft Portfolio) released for public comment on January 3, 2020. Comments are due February 7, 2020.

The Roundtable provides a forum for people working on IRWM to discuss those interests and to share their successes and challenges. It also provides a coordinated mechanism for collaborating on providing input to the State on the IRWM program, including developing consensus responses to State agency information requests. Per the latter, Ms. Voss, as a member of the Roundtable Steering Committee, is working with representatives from several State agencies to respond to the draft Portfolio recommendations.

Ms. Voss will provide an overview of the Draft Portfolio, including how the recommendations included therein address the comments submitted on behalf of the SOCWMA IRWM Group on September 20, 2019. The SOCWMA comment letter is included as **Appendix A** for your reference.

Recommended Action: Receive and file.

ITEM # 7. STATE UPDATES AND POTENTIAL WATER BOND

Ms. Jenna Voss will provide an update on relevant State legislative activity for Committee and stakeholder reference, including several water bond bills currently going through committees. Additionally, Ms. Voss will provide an overview of the climate resilience portion of Governor Newsom’s FY 2020-21 Budget Summary released in mid-January 2020. Included in the governor’s proposed budget is a Climate Resilience section tied very closely with implementation of the Draft Portfolio. Ms. Voss will provide an overview of this portion of the budget, including the proposed \$4.75 billion Climate Resilience Bond that would fund \$2.925 billion for drinking water, flood, and drought preparedness.

The Roundtable is working closely with Nancy Vogel, California Natural Resource Agency, and primary author of the Draft Portfolio. This close coordination is intended to ensure comments submitted for the Draft Portfolio, and input provided to the State Legislature on water bonds, are supportive of IRWM Grant funding and other technical assistance for IRWM Regions necessary for implementing the recommendations of the Draft Portfolio. Ms. Voss will update the Committee on coordination between the Roundtable, Nancy Vogel, the California Stormwater Quality Association (CASQA) and the Association of California Water Agencies (ACWA).

Recommended Action: Receive and file.

ITEM # 8. EXECUTIVE OFFICER’S REPORT

Ms. Amanda Carr, County of Orange, will provide an update on several ongoing projects and efforts within the South Orange County Watershed Management Area.



Recommended Action: Receive and file.

ITEM # 9. EXECUTIVE COMMITTEE MEMBER COMMENTS

ITEM # 10. ADJOURNMENT

Next meeting date: May 14, 2020



Appendix A: SOCWMA IRWM Group Water Resilience Portfolio Comment Letter



SOUTH ORANGE COUNTY IRWM GROUP



September 20, 2019

Ms. Nancy Vogel
California Natural Resources Agency
1303 10th St., Suite 1173
Sacramento, CA 95814

Submitted electronically to: input@waterresilience.ca.gov

SUBJECT: California Water Resilience Portfolio Initiative Input from South Orange County Watershed Management Area (SOCWMA) Integrated Regional Water Management (IRWM) Group

Dear Ms. Vogel:

The County of Orange¹ on behalf of the South Orange County Watershed Management Area (SOCWMA) Integrated Regional Water Management (IRWM) Group comprising 22 Member Agencies² and other regional stakeholders submit the following comments on the California Water Resilience Portfolio Initiative (Portfolio) for your consideration. In addition to soliciting feedback from stakeholders at a public discussion of the Portfolio at an August 8, 2019 meeting, SOCWMA IRWM Group representatives coordinated with the IRWM Roundtable of Regions (Roundtable), and California Stormwater Quality Association (CASQA), and drew from collaborative efforts with the Association of California Water Agencies (ACWA) in developing this letter.

IRWM represents a construct for collaborative water resource management, holistically addressing the issues and differing perspectives of all entities involved in water management through mutually beneficial solutions. [The IRWM Program is managed by the Department of Water Resources](#), and implemented at regional and local scales state-wide. The SOCWMA IRWM Group takes pride in the collaborative efforts initiated and consistently supported in the San Diego Funding Area and South Orange County IRWM Region. To date, the SOCWMA IRWM Group has successfully applied for and received approximately \$36 million in IRWM Grant funds, supporting a total local investment of almost \$216 million in 24 multi-benefit water resource projects in the region.

¹The County of Orange administers the IRWM Group on behalf of regional stakeholders, representing the staff for the DWR-recognized SOCWMA IRWM Region.

²County of Orange, Cities of Aliso Viejo, Dana Point, Laguna Beach, Laguna Hills, Laguna Niguel, Laguna Woods, Lake Forest, Mission Viejo, Rancho Santa Margarita, San Clemente, and San Juan Capistrano, as well as El Toro Water District, Irvine Ranch Water District, Laguna Beach County Water District, Moulton Niguel Water District, Municipal Water District of Orange County, San Juan Basin Authority, Santa Margarita Water District, South Coast Water District, South Orange County Wastewater Authority, and Trabuco Canyon Water District.

Echoing the comments provided by the Roundtable³, the SOCWMA IRWM Group agrees that the IRWM approach should be considered as the foundation for [Governor Newsom's Water Resilience Portfolio](#). IRWM provides a stakeholder-driven structure that comprises local project planning and prioritization, involvement by under-represented communities, resource-based management, and has been field-tested for more than a decade in locations stretching from the North Coast to the Imperial Valley. State staff and stakeholders are thinking broadly about how to build climate-resilient water systems and healthy waterways that tackle the multi-dimensional problems surrounding water resources. Over the past few months, discussions in water circles around the state have focused on how to develop a collaborative process that addresses the issues of water supply resiliency, flood risk management, surface and groundwater quality, and needs of natural resources in a holistic manner in the face of climate change. IRWM provides such a process, and represents a solid structure for operationalizing the Water Resilience Portfolio.

The SOCWMA IRWM Group considers IRWM an implementable framework for the Portfolio and in support of this recommendation submits for your consideration the following:

- 1) **The State should adopt the IRWM approach as the foundation for the Portfolio and utilize IRWM Regions as a means to execute the local and regional resilience planning specifics of the Portfolio.**

IRWM is the only suitable state-wide program for which significant resources have already been utilized to see realized multi-benefit projects and multi-stakeholder coordination. This is evidenced in areas of the state where IRWM has successfully promoted IRWM concepts, generated meaningful partnerships, and created efficiencies through collaboration that would not have existed in a silo-driven approach. The SOCWMA believes strongly that IRWM represents an appropriate, goal-oriented planning framework and requests that the State not "re-create the wheel" by developing new programs to meet the intent of the Portfolio that are already being met by IRWM.

We request that the State make IRWM a priority, providing resources for intra-regional coordination, relationship-building, and project development; this is especially important for areas of the state where IRWM and other regional resilience planning efforts face significant challenges such as lack of staffing and funding, greater distance to participate, etc. Specifically, the SOCWMA IRWM Group requests baseline funding be added to the budget for DWR administration of the IRWM Program - a recommendation echoed by IRWM Regions throughout the State in the DWR-published *Stakeholder Perspectives - Recommendations for Sustaining and Strengthening Integrated Regional Water Management*⁴.

The SOCWMA IRWM Group has demonstrated significant local investment in both project implementation and the social capital involved in committing to a stakeholder-driven process. To build the list of goals, measurable objectives and strategies for multi-benefit projects in our Region, the South OC IRWM Plan represents a compendium of resiliency planning elements required of the Portfolio, including (but not limited to):

- a) OC Water Reliability Study

³ Roundtable of Regions letter was submitted for consideration on September 4, 2019.

⁴ https://water.ca.gov/LegacyFiles/irwm/docs/IRWM_Recommendations.pdf

- b) San Juan Basin Groundwater Facilities Management Plan & Optimization Plan
- c) Water Quality Improvement Plan (WQIP) for the San Juan Hydrologic Sub-Unit
- d) South Orange County Salt and Nutrient Management Plan (SNMP)
- e) Orange County Stormwater Resource Plan (OC SWRP)
- f) 2015 Urban Water Management Plans
- g) Southern Subregion Natural Communities Conservation Plan (NCCP)

Further, the SOCWMA IRWM Group has produced a GIS-based website⁵ to connect project planners and stakeholders to the data underlying the 2018 IRWM Plan, past funded project benefits, and future project planning. Data from sites like this could easily be rolled up to similar State databases. The agencies responsible for each of these planning documents and the data included in the GIS-based website have collectively invested significant resources in their development and integration through participation in the SOCWMA IRWM Planning process. These local agencies/entities are the most knowledgeable on the data inputs and resultant management objectives - this should be recognized by the state as a resource for funneling local resiliency planning up to the state from a bottom-up approach.

- 2) **State agencies should focus on regulatory alignment to recognize the benefit of a holistic Portfolio, breaking down silos between departments and agencies with separate authorities over natural and water resources to fund multi-benefit projects and to support regional multi-sector project planning.**

The SOCWMA IRWM Group reiterates the Roundtable insistence that IRWM Regions are an appropriate, locally-driven means to implement the requested elements of the Portfolio, and that the State should look to IRWM Regions successfully implementing multi-benefit projects through stakeholder-driven processes. The SOCWMA IRWM Group feels strongly that their 2018 IRWM Plan showcases a considerate, balanced approach to project prioritization supportive of local water resource portfolio planning. For example, the measurable objectives for assessing progress with meeting regional water resource management goals are pulled from water supply portfolio planning, directly relating project priority to identified water supply needs for the region⁶. Similarly, protecting surface water quality is a key goal for the IRWM Group - as such, the WQIP developed as an accepted alternative compliance document for the San Diego Regional Permit was the source of measurable objectives drawn from goals established for the highest priority water quality conditions in the SOCWMA⁷. Appendix K of the 2018 IRWM Plan summarizes all applicable measurable objectives⁸.

Local agencies and organizations in the SOCWMA have spent the past 15 years developing the relationships necessary to break down sector-driven silos and bring together all of these planning priorities into one, cohesive IRWM Plan. However, the SOCWMA IRWM Group echoes the Roundtable request for greater support from State agencies to address areas of overlapping

⁵ South OC IRWM website: www.southocirwm.org

⁶ OC Water Reliability Study, 2016 and 2018: <https://www.mwdoc.com/your-water/water-supply/local-water-supply/orange-county-water-supply-reliability-study/>

⁷ South Orange County Watershed Management Area Water Quality Improvement Plan (WQIP): http://www.ocwatersheds.com/documents/south_oc_water_quality_improvement_plan_wqip

⁸ South OC IRWM Plan - see Appendix K: <https://ocgov.app.box.com/s/2k07qmfo79qbls7kr26888m67bnnlcyz/file/297781378864>

jurisdiction. For example, protection and enhancement of natural resources is one of the four primary goals for the 2018 IRWM Plan. In order to develop truly integrated projects, conflicts between WQIP priorities to reduce dry weather flows to comply with the San Diego Regional NPDES Permit⁹ and state and federal resource agency (CDFW, USFWS) requirements to maintain flows for recognized habitat must be addressed at both the local and state levels.

The SOCWMA IRWM Group requests that regulatory alignment be a focus of the Portfolio - truly integrated projects are stymied by mis-aligned or conflicting regulatory drivers that could be alleviated through state-level coordination. Speaking a common language through an IRWM approach for local resource prioritization presents an opportunity for state agencies to support integrated projects whilst meeting regulatory requirements. The SOCWMA IRWM Group requests that the Portfolio recommendations direct state agencies responsible for water resource regulation and project review to examine opportunities to meet their objectives through an integrated planning approach - this should include coordination with local practitioners, the Roundtable, California Stormwater Quality Association (CASQA), Association of California Water Agencies (ACWA), etc.

3) The IRWM approach provides significant benefits that can be best utilized at a state-wide level by working closely with interested stakeholders and looking to successful IRWM Regions like the SOCWMA IRWM Group.

a) Dynamic stakeholder representation and engagement: The SOCWMA IRWM Group represents entities responsible for groundwater, surface water (stormwater), water supply, wastewater, and habitat (including mitigation). Engaged stakeholders represent elected officials, resource agencies, non-profits/NGOs, and residents of impacted communities. Local IRWM Groups like the SOCWMA IRWM Group represent the level at which project-based planning collaboration takes place; this should be supported by State actions taken as a result of Portfolio recommendations.

b) Local, stakeholder-driven outreach through local IRWM Regions is necessary to continue to address the needs of under-represented communities: In partnership with the San Diego Funding Area partners, collectively representing the Tri-County Funding Area Coordinating Committee (Tri-FACC), the SOCWMA IRWM Group completed the San Diego Funding Area Disadvantaged Community (DAC) Water Needs Assessment (WNA) in mid-2019; a companion Orange County-wide version is still in development. During the process to develop the WNAs, it was apparent that grassroots, community-level engagement was the best approach to soliciting DAC community feedback- a realization that will improve the South Orange County portion of both WNAs through extended outreach to community and Tribal organizations. Relationship building is a long, and intensive process. DAC and Tribal engagement must be conducted at localized scales to best address the specific needs of communities; a state-wide top-down, one-sized fits all approach will not be successful. This

⁹South Orange County Watershed Management Area Water Quality Improvement Plan (WQIP) - Unnatural water balance fact sheet: <http://prg.ocpublicworks.com/DocmgmtInternet/Download.aspx?id=1476>

is similarly echoed in a comments submitted by the San Diego IRWM.¹⁰

The SOCWMA IRWM Group feels strongly that IRWM Regions illustrating successful engagement of diverse stakeholders should be utilized for establishment of best practices state-wide. The IRWM Program represents one of the only state-wide, regionally-based programs that integrates DAC and Tribal outreach into programmatic documents and required project prioritization considerations. As such, the SOCWMA IRWM Group requests state consideration for using IRWM Regions successfully engaging DAC and Tribal communities as models for other IRWM Regions to emulate. Guidance developed from a local perspective based upon years, sometimes decades of work, should serve as the basis for meeting the requested elements of the Portfolio related to under-represented communities. To this end, the SOCWMA IRWM Group also requests that the state consider the IRWM Program as the implementing arm of the Safe and Affordable Drinking Water Fund (SB 200).

- c) Established governance for multi-benefit project planning: A multi-stakeholder process to establish regional resiliency project planning and funding priorities is necessary for the required elements of the Portfolio. The SOCWMA IRWM Group has established an extensive, stakeholder-driven project review process to prioritize state IRWM Grant funds¹¹. This process relies heavily on the regional planning documents cited in comment 1, including water supply resiliency goals (QC Water Reliability Study), surface water quality targets (WQIP), and groundwater optimization (San Juan Basin Optimization Plan). Similarly, the SOCWMA IRWM Group echoes the ACWA IRWM Policy Principles¹²(Principles), which identify IRWM as a hub for diverse, regional, stakeholder engagement with established governance structures to support the balance of diverse interests in a region. Additionally, the Principles articulate that projects developed and funded through IRWM result in measurable local and regional benefits and that benefits and regional data associated with these projects should be integrated with statewide water resource management.

Local project prioritization in the South QC IRWM Plan supports other local project planning, prioritization and funding. The Management Objectives of the OC SWRP reflect the IRWM Plan goals, measurable objectives and strategies that form the basis of project prioritization for the region. Reflective of comments on the Portfolio submitted by CASQA¹³, the Roundtable is working closely with CASQA leadership, DWR and SWRCB staff to better incorporate stormwater into IRWM Plan prioritization processes. Indeed, the SOCWMA IRWM Group feels that the South OC IRWM Plan is already reflective of the integration needed between stormwater and other water resource management in resiliency planning and requests that the state consider examples like the South OC IRWM Plan in developing their specific Portfolio recommendations.

¹⁰ San Diego Integrated Regional Water Management Program letter submitted by Mark Stadler on September 9, 2019.

¹¹ South OC 2018 IRWM Plan - Section 6, Appendix K

¹² <https://www.acwa.com/resources/integrated-regional-water-management-policy-principles/>

¹³ California Stormwater Quality Association (CASQA) comment letter submitted by Daniel Apt September 9, 2019.

- d) Regional resiliency and climate change planning: IRWM Plans are required to consider climate change in project planning, including integrating climate change considerations into their plan goals, objectives and strategies - the building blocks of integrated project prioritization¹⁴. The South OC IRWM Plan meets and exceeds these standards; the IRWM Plan goals, measurable objectives and weighted strategies developed through a stakeholder-driven process to prioritize projects for funding- have been modified in the 2018 IRWM Plan to explicitly recognize climate change.

The SOCWMA IRWM Group has a documented track record of supporting local water resiliency through project planning and setting regional priorities for collaborative efforts and resource allocation. Indeed, a majority of the 24 projects funded through the IRWM Grant program for SOCWMA have supported local resiliency goals. Central to these efforts are also extensive studies identifying key supply portfolio diversification needs, including (but not limited to): water use efficiency research (e.g. updating Water Use Classification of Landscape Species database for plant classifications), education and financial incentives to change public perception and behavior; beneficial use of stormwater through capture and use; support for direct potable reuse and the need for raw water augmentation regulations reflective of SOCWMA's limited resources for groundwater or surface water capacity as environmental buffers; and calls for further State engagement in salinity control efforts in the Colorado River Basin to reduce impacts on local treatment systems¹⁵.

- e) Project tracking and data management: The SOCWMA IRWM Group has invested in an ESRI GIS-driven website to best integrate geospatial water resource data with regional project planning efforts; we request that the state look to successful models like ours as a blueprint for rolling up project planning data to state-wide databases. Echoing the Roundtable letter, the SOCWMA IRWM Group requests that state support and implement the Water Sustainability Atlas¹⁶ supportive of better state-wide data integration, looking to local IRWM Regions for stakeholder input on the process. Also, IRWM Regions need resources for consistent data management, technical assistance to utilize GIS as a ubiquitous format, and support for collecting data that is now provided on a volunteer basis unless required expressly by the grant reporting structure. The SOCWMA IRWM Group recommends that the state look to the Roundtable to assist in further refining data management state-wide.

¹⁴ Vulnerability analyses are required in the IRWM Plan Standards, at a minimum these must be equivalent to the equivalent assessment in the DWR Climate Change Handbook for Regional Water Planning, Section 4 and Appendix B This is further described in the IRWM Proposition 1 IRWM Program Guidelines- Volume 2 - IRWM Planning Standards (pgs 42-43, 69-72).

¹⁵ Includes requests by SOCWMA Member Agencies to fill California appointee positions on the Colorado River Basin Salinity Control Forum to support water resiliency planning for areas reliant on imported water.

¹⁶ <https://water.ca.gov/-/media/DWR-Website/Web-Pages/Programs/California-Water-Plan/Docs/Update2018/Final/SupportingDocs/Report-on-the-Water-Sustainability-Atlas-Pilot-Project-with-Recommendations.pdf>

4) Recognition for significant local investment has driven water resilience and water resource project planning, IRWM has leveraged state funding at a ratio of 4:1 - a great ROI for state funds.

The SOCWMA IRWM Group reiterates Roundtable assertion that IRWM Regions have done assessments and multi-year planning estimates of water demands and supplies, and feels that resiliency planning is locally-driven. Indeed, a "one size fits all" approach would not capture the nuanced challenges with marrying multi-jurisdictional, multi-sector, prioritization efforts. Examples of successful local models should be referenced in developing the Portfolio recommendations. Holistic views are easier taken with a smaller perview.

As noted previously, the SOCWMA IRWM Group has already invested considerable time, resources, and funds in multi-benefit, regional, resilience projects. As noted in the Roundtable comments, IRWM Regions across the state have invested in 3-4 times the state investment in regional projects supportive of Portfolio goals; the South OC IRWM Planning approach has successfully matched \$35.9 million in state IRWM Grant funds with \$179.8 million local investment - representing a total investment of \$215.7 million in 24 projects. SOCWMA Member Agencies feel this is indicative of significant local investments in time, funding, and project planning that should be recognized, and IRWM planning efforts like those showcased in the SOCWMA be upheld as examples for how IRWM can and should be the implementing framework for the Portfolio.

5) State agencies preparing the Portfolio should review the successes, barriers, and direct feedback from IRWM Regions in their consideration of IRWM as a preferred platform for the Portfolio

Echoing the Roundtable letter summarizing survey results from across the state, the SOCWMA IRWM Group feels it is imperative that this feedback be reviewed to identify what's working and the barriers to success in other areas of the state. IRWM Regions cover 87% of the land area and 99% of the population of the state - this level of planning is not reflected in other state-wide programs and should be improved upon, better resourced, and further supported by state agencies to best realize the requested elements of the Portfolio. IRWM as a planning framework fosters cooperative decision-making, efficient use of resources, conflict reduction/resolution, financial leveraging, and increased regional self-reliance - all imperative to execution of the Portfolio in order to achieve statewide balance of water resource priorities.

The SOCWMA IRWM Group appreciates your consideration of these comments. If you have any questions or would like any clarifications on our recommendations, please contact me at (714) 955-0630.

Sincerely,



Amanda Carr
Deputy Director, OC Public Works - County of Orange
Executive Officer, SOCWMA IRWM Group

Ms. Nancy Vogel
September 20, 2019
Page 8 of 8

CC via email: SOCWMA IRWM Group, San Diego Funding Area Tri-FACC
Erik Eckdahl, SWRCB Deputy Director (Erik.Ekdahl@waterboards.ca.gov)
Arthur Hinojosa, DWR IRWM Division Chief (Arthur.Hinojosa@water.ca.gov)
Carmel Brown, DWR IRWM Division Financial Assistance Branch Chief
(Carmel.Brown@water.ca.gov)
Wade Crowfoot, Secretary for Natural Resources, California Natural Resources Agency
(secretary@resources.ca.gov)
Karen Ross, Secretary of Agriculture, California Department of Food and Agriculture
(secretary.ross@cdfa.ca.gov)
Jared Blumenfeld, Secretary for Environmental Protection, California Environmental
Protection Agency (jared.blumenfeld@calepa.ca.gov)
Kristopher Tjernell, Deputy Director of DWR IRWM Program
(Kristopher.Tjernell@water.ca.gov)



Executive Committee Meeting

Tuesday, February 4, 2020

7:30 a.m.

Municipal Water District of Orange County, Conference Room 101

AGENDA

Mailing Address

P.O. Box 20895
Fountain Valley, CA 92728

Meeting Location

MWDOC/OCWD
18700 Ward Street
Fountain Valley, CA 92708

(714) 963-3058
(714) 964-5930 fax

www.mwdoc.com/isdoc

Executive Committee

President
Hon. Sandra Jacobs
Santa Margarita Water District

1st Vice President
Hon. Mark Monin
El Toro Water District

2nd Vice President
Hon. Arlene Schafer
Costa Mesa Sanitary District

3rd Vice President
Hon. Mary Aileen Mathews
Irvine Ranch Water District

Secretary
Hon. William "Bill" Green
South Coast Water District

Treasurer
Hon. Joan C. Finnegan
Municipal Water District of Orange County

Immediate Past President
Hon. James Fisler
Mesa Water District

Staff Administration

Heather Baez
Municipal Water District of Orange County

Christina Hernandez
Municipal Water District of Orange County

I. Welcome, Introductions – 7:30 am

[Please silence cell phones]

II. Approval of Minutes – 7:35 am

- Consider approval of the minutes for the January 7, 2020 meeting.

III. Public Comments on items not on the agenda- 7:40 am

IV. New Business – 7:45 am

A. Dues Formula for LAFCO – Discussion from Ad Hoc Committee

V. Treasurer's Report – 7:50 am – Director Finnegan

- December report of accounts.

VI. CSDA Report – 8:00 am – Director Schafer

- Receive, discuss and file the CSDA Report

VII. LAFCO Report – 8:05 am – Director Fisler

- Receive, discuss and file the LAFCO report

VIII. ACWA Report – 8:10 am – Director Jacobs

- Receive, discuss and file the ACWA report.

IX. OCCOG Report – 8:15 am – Director Scheafer

A. Receive, discuss and file OCCOG report

X. Orange County Operational Area Report - 8:20 am – Director Monin

B. Receive, discuss and file OCOA report

XI. Subcommittee Reports – 8:25 am

- Programs
 - 2020 Quarterly Luncheons
- Membership
- Legislative
 - Discuss and consider taking action on proposed legislation of interest to Special Districts.

XII. Adjourn – 8:30 am

Next Executive Committee Meeting: Tuesday, March 3, 2020

Next Quarterly Luncheon: Thursday, April 30, 2020



ISDOC Executive Committee

January 7, 2020

Minutes

I. Welcome

President Sandra Jacobs called the meeting to order at 7:30 a.m.

Sandra Jacobs, President (SMWD)

Mark Monin (ETWD)

Arlene Schafer (CMSD)

Mary Aileen Matheis (IRWD)

Bill Green, Secretary (SCWD)

Joan Finnegan, Treasurer (MWDOC)

Others Present:

Gavin Centeno (OC LAFCO)

Doug Davert (EOCWD)

Mike Gaskins (ETWD)

Greg Mills (Serrano WD)

Chris Palmer (CSDA)

Mike Scheafer (CMSD)

Karl Seckel (MWDOC)

Stacy Taylor (Mesa WD)

Heather Baez (MWDOC)

Jody Brennan (SCWD)

II. Minutes

The minutes of the December 10, 2019 meeting were reviewed. Upon a motion by Bill Green and second by Mary Aileen Matheis, the minutes were unanimously approved.

III. Public Comments

None.

IV. New Business

A. LAFCO Dues Formula

President Sandra Jacobs reported the Ad Hoc Committee would be meeting on Friday, January 10, 2020.

V. Treasurer's Report

Joan Finnegan reported a balance of \$12,789.76.

VI. CSDA Report

Arlene Schafer provided the following update:

- A CSDA "Take Action" brief will be out next week
- The CSDA/ISDOC Form 700 workshop will be held on March 17 at MWDOC
- A decision on the vacant Section B seat will be made by March 27, 2020

Chris Palmer distributed the new CSDA Professional Development catalogue.

VII. LAFCO Report

Doug Davert reported the next meeting will be on January 8 at 8:15 and agenda items include election of officers, review of work plan, review of communications plan, legislative report and renewal of annual Professional Service Agreements. Doug also reported that the February 2020 LAFCO meeting has been cancelled.

VIII. ACWA Report

Sandra Jacobs reported on the following:

- The President is Steve Lamar (IRWD) and Vice President is Pam Tobin (San Juan Water)
- The Committee selections have been announced for 2020
- JPIA Executive Committee has a vacancy and the deadline to apply is January 14
- ACWA is moving their offices
- The Spring Conference will be held in May in Monterey
- A focus of ACWA will be PFAS issues

IX. OCCOG Report

Mike Scheafer reported OCCOG did not meet in December. The November meeting topics included the RHNA and legislative issues.

X. Orange County Operational Area Report

Karl Seckel reported that Victoria Osborn from the County of Orange will be replacing Kelly Hubbard with WEROC. Karl will ask Victoria to attend the next ISDOC Executive Committee meeting and the January Quarterly Luncheon. Karl also reported the final OA Agreement is still in the works and expects it in the next few months.

XI. Subcommittee Reports

- Programs: Mark Monin reported that Neal Kelley, OC Registrar of Voters will be the speaker for the January 30 Quarterly Luncheon. Ideas for speakers on future luncheons include Victoria Osborn, WEROC, Cheryl Brothers, President of OC LAFCO, and a speaker on RHNA.
- Membership: None
- Legislative Update: The new legislative session started yesterday; deadline to introduce new legislation is February 21.

XII. Adjourn

The meeting adjourned at 8:28 in memory of Trudy Ohlig-Hall and Michael Healy.



AGENDA

Friday, February 7, 2020
7:30 a.m. - 9:00 a.m.
Doors open at 7:00 a.m.

OCWD/MWDOC JOINT BOARD ROOM
18700 Ward Street, Fountain Valley

Mailing Address

P.O. Box 8300
Fountain Valley, CA 92708

Meeting Location

18700 Ward Street
Fountain Valley, CA 92708

(714) 378-3200
(714) 963-0291 fax

www.ocwd.com/news-events/events/waco
www.mwdoc.com/waco

Officers

Chair
Hon. Jim Atkinson
Mesa Water District

Vice Chair
Hon. Cathy Green
Orange County Water District

Staff Contacts

Alicia Dunkin
Orange County Water District

Heather Baez
Municipal Water District of Orange County

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@waco_h2o



/orangecountywater

Pledge of Allegiance

Announcements & Introductions

- Cathy Green, Orange County Water District

Reports

- Association of California Water Agencies (ACWA) Report – Cathy Green, Orange County Water District
- Metropolitan Water District of Southern California Report – Linda Ackerman, Metropolitan Water District of Southern California

Program – What Increased Housing Means for Water

- Moderator: Dan Ferons, General Manager, Santa Margarita Water District
- Panelist: Dr. Kevin Kane, Regional Planner, Southern California Association of Governments
- Panelist: Eric Nelson, Incoming Board President, Building Industry Association
- Panelist: Barry Curtis, Economic & Development Services Director, City of Costa Mesa

Adjourn

Next WACO Meeting

Friday, March 6, 7:30 a.m. @ OCWD/MWDOC Joint Boardroom

Next WACO Planning Committee Meeting

Tuesday, February 18, 7:30 a.m. @ C-3



WACO Planning Committee
Tuesday, February 18, 2020
7:30 A.M.

AGENDA

ACTION ITEMS

1. Confirm meeting title and talking points for March and April meetings
 - o March 6: Water Loss – Speaker: Joe Berg, MWDOC
 - o April 3: Ducks Unlimited – Speaker: Mark Biddlecomb, Ducks Unlimited

DISCUSSION ITEMS

1. Select topic for May 1 meeting
 - o Potential topics previously brought forth:
 - The future of power – Dr. Michael Binderbauer, Tri Alpha Energy (Howard Hull)
 - Urban Water Management Plan (Bob McVicker)
 - Contaminants of emerging concern / basin salt balance (Peer Swan / Fred O'Callaghan)
 - Dissolution of Sativa Water District - Daniel Lafferty (Karl Seckel)
 - Water Solutions Network (Larry McKenney)
 - The future of 5G w/Crown Castle (Sat Tamaribuchi)
 - Affordability of water & human right to water (Stacy Taylor)
 - International view of water (Ahmad Zahra)
 - Species in the river - Dept. of Fish & Wildlife (Peer Swan)
 - The challenges of wholesalers (Jim Atkinson)
 - Update on Prop 1 funding for storage projects/ status of projects gaining matching funds (Larry Dick)

2. Feedback of February 7 meeting
 - o What Increased Housing Means for Water

ADJOURN

Mailing Address

P.O. Box 20895
Fountain Valley, CA 92728

Meeting Location

18700 Ward Street
Fountain Valley, CA 92708

(714) 378-8232
(714) 963-0291 fax

www.mwdoc.com/waco
www.ocwd.com/news-events/events/waco

Officers

Chair

Hon. Jim Atkinson
Mesa Water District

Vice Chair

Hon. Cathy Green
Orange County Water District

Staff Contacts:

Alicia Dunkin
Orange County Water District

Heather Baez
Municipal Water District of Orange County



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DATES TO REMEMBER

FEBRUARY/MARCH 2020

1. Feb 28 – 7:30 a.m. – South Orange County Economic Coalition Meeting
2. Feb 28 – 8:00 a.m. – TV-6 (Freshley)
3. Feb 28 – DISTRICT OFFICE CLOSED
4. Feb 28 – Mar 2 – Monin Vacation
5. Mar 2 – 8:30 a.m. – MWDOC Planning/Operations Meeting
6. Mar 2 – 1:30 p.m. – SOCWMA Management Committee Meeting
7. Mar 3 – 7:30 a.m. – ISDOC Executive Committee Meeting
8. Mar 3 – 10:00 a.m. – RRC Meeting
9. Mar 3 – 10:30 a.m. – SOCWA Finance Committee Meeting
10. Mar 4 – 8:30 a.m. – MWDOC/MET Directors Workshop
11. Mar 5 – 8:30 a.m. – SOCWA Board Meeting
12. Mar 6 – 7:30 a.m. – WACO Meeting
13. Mar 6 – 11:30 a.m. – Chair/GM Meeting
14. Mar 11 – 8:30 a.m. – LAFCO
15. Mar 11 – 8:30 a.m. – MWDOC Admin/Finance Meeting
16. Mar 12 – 8:30 a.m. – SOCWA Engineering Committee Meeting
17. Mar 13 – DISTRICT OFFICE CLOSED
18. Mar 15-17 – WateReuse Conference (San Francisco)
19. Mar 16 – 7:30 a.m. – Agenda Review
20. Mar 16 – 8:30 a.m. – MWDOC Public Affairs Meeting
21. Mar 17 – 7:30 a.m. – WACO Planning Meeting
22. Mar 18 – 8:30 a.m. – MWDOC Board Meeting
23. Mar 19 – 8:00 a.m. – SAC Meeting (IRWD)
24. Mar 19 – 5:30 p.m. – Lake Forest State of the City Address
25. Mar 20 – 11:30 a.m. – Chair/GM Meeting

26. Mar 23 – 7:30 a.m. – Regular Engineering/Finance Committee Meeting
27. Mar 24 – 10:30 a.m. – SOCWA Special Finance Meeting
28. Mar 24 – 12:00 noon – SOCWMA Management Committee (TCWD)
29. Mar 26 – 7:30 a.m. – Regular Board Meeting
30. Mar 27 – 7:30 a.m. – South Orange County Economic Coalition
31. Mar 27 – 8:00 a.m. – TV-6 (Havens)
32. Mar 27 – DISTRICT OFFICE CLOSED
33. Mar 31 – 10:00 a.m. – RRC Meeting

EL TORO WATER DISTRICT

Glossary of Water Terms

Accumulated overdraft: The amount of water necessary to be replaced in the intake area of the groundwater basin to prevent the landward movement of ocean water into the fresh groundwater body.

Acre-foot, AF: A common water industry unit of measurement. An acre-foot is 325,851 gallons, or the amount of water needed to cover one acre with water one foot deep. An acre-foot serves annual needs of two typical California families.

ACWA: Association of California Water Agencies.
A statewide group based in Sacramento that actively lobbies State and Federal Government on water issues.

Advanced treatment: Additional treatment processes used to clean wastewater even further following primary and secondary treatment. Also known as tertiary treatment.

AFY: Acre-foot per year.

Alluvium: A stratified bed of sand, gravel, silt, and clay deposited by flowing water.

AMP: Allen McCulloch pipeline.

Major pipeline transporting treated water to water districts between Yorba Linda, where it starts to El Toro Water District reservoir, where it terminates.

Annexation: The inclusion of land within a government agency's jurisdiction.

Annual overdraft: The quantity by which the production of water from the groundwater supplies during the water year exceeds the natural replenishment of such groundwater supplies during the same water year.

Aqueduct: A man-made canal or pipeline used to transport water.

Aquifer: An underground geologic formation of rock, soil or sediment that is naturally saturated with water; an aquifer stores groundwater.

Arid: Dry; deserts are arid places. Semi-arid places are almost as dry as a desert.

Artesian: An aquifer in which the water is under sufficient pressure to cause it to rise above the bottom of the overlying confining bed, if the opportunity is provided.

Artificial recharge: The addition of surface water to a groundwater reservoir by human activity, such as putting surface water into recharge basins. (See also: groundwater recharge and recharge basin.)

AWWA American Water Works Association
Nationwide group of public and private water purveyors and related industrial suppliers.

Base flow: The portion of river surface flow which remains after deduction of storm flow and/or purchased imported water.

Bay-Delta: The Sacramento-San Joaquin Bay-Delta is a unique natural resource of local, state and national significance. The Delta is home to more than 500,000 people; contains 500,000 acres of agriculture; provides habitat for 700 native plant and animal species; provides water for more than 25 million Californians and 3 million acres of agriculture; is traversed by energy, communications and transportation facilities vital to the economic health of California; and supports a \$400 billion economy.

BIA: Building Industry Association.

Biofouling: The formation of bacterial film (biofilm) on fragile reverse osmosis membrane surfaces.

Biosolids: Solid organic matter recovered from a sewage treatment process and used especially as fertilizer.

BMP: Best Management Practice. An engineered structure or management activity, or combination of these, that eliminates or reduces adverse environmental effects.

Brackish water: A mixture of freshwater and saltwater.

Brown Act: Ralph M. Brown Act enacted by the State legislature governing all meetings of legislative bodies. Also known as the Open Meeting requirements.

Canal: A ditch used to move water from one location to another.

CASA: California Association of Sanitation Agencies The sanitation equivalent of ACWA concerned solely with issues affecting the treatment and disposal of solid waste and wastewater.

CEQA: California Environmental Quality Act.

CERCLA: Comprehensive Environmental Response, Compensation and Liability Act. This federal law establishes the Superfund program for hazardous waste sites. It provides the legal basis for the United States EPA to regulate and clean up hazardous waste sites, and if appropriate, to seek financial compensation from entities responsible for the site.

CFS: Cubic feet per second.

Chloramines: A mixture of ammonia and chlorine used to purify water.

Clarify: To make clear or pure by separation and elimination of suspended solid material.

Coagulation: The clumping together of solids so they can more easily be settled out or filtered out of water. A chemical called aluminum sulfate (alum) is generally used to aid coagulation in water treatment and reclamation.

Coastkeepers: A non-profit organization dedicated to the protection and preservation of the marine habitats and watersheds of Orange County through programs of education, restoration, enforcement and advocacy.

Colored water: Groundwater extracted from the basin that is unsuitable for domestic use without treatment due to high color and odor exceeding drinking water standards.

Condensation: The process of water vapor (gas) changing into liquid water. An example of condensation can be seen in the tiny water droplets that form on the outside of a glass of iced tea as warmer air touches the cooler glass.

Confined aquifer: An aquifer that is bound above and below by dense layers of rock and contains water under pressure.

Conjunctive use: Storing imported water in a local aquifer, in conjunction with groundwater, for later retrieval and use.

Contaminate: To make unclean or impure by the addition of harmful substances.

CPCFA: California Pollution Control Financing Authority. State agency providing funds for wastewater reclamation projects.

Crisis:

1. **a:** The turning point for better or worse **b:** a paroxysmal attack of pain, distress, or disordered function **c:** an emotionally significant event or radical change of status in a person's life <a midlife *crisis*>
2. The decisive moment (as in a literary plot)
3. **a:** An unstable or crucial time or state of affairs in which a decisive change is impending; *especially* : one with the distinct possibility of a highly undesirable outcome <a financial *crisis*> **b:** a situation that has reached a critical phase

CTP Coastal Treatment Plant

CWPCA California Water Pollution Control Association. A 7000 member non-profit educational organization dedicated to water pollution control.

Dam: A barrier built across a river or stream to hold water.

Decompose: To separate into simpler compounds, substances or elements.

Deep percolation: The percolation of surface water through the ground beyond the lower limit of the root zone of plants into a groundwater aquifer.

Degraded water: Water within the groundwater basin that, in one characteristic or another, does not meet primary drinking water standards.

Delta: Where the rivers empty; an outlet from land to ocean, also where the rivers deposit sediment they carry forming landforms.

Delta Vision: Delta Vision is intended to identify a strategy for managing the Sacramento-San Joaquin Delta as a sustainable ecosystem that would continue to support environmental and economic functions that are critical to the people of California.

Demineralize: To reduce the concentrations of minerals from water by ion exchange, distillation, electro-dialysis, or reverse osmosis.

De-nitrification: The physical process of removing nitrate from water through reverse osmosis, microfiltration, or other means.

Desalting (or desalination): Removing salts from salt water by evaporation or distillation. Specific treatment processes, such as reverse osmosis or multi-stage flash distillation, to demineralize seawater or brackish (saline) waters for reuse. Also sometimes used in wastewater treatment to remove salts other pollutants.

Desilting: The physical process of removing suspended particles from water.

Dilute: To lessen the amount of a substance in water by adding more water.

Disinfection: Water treatment which destroys potentially harmful bacteria.

Drainage basin: The area of land from which water drains into a river, for example, the Sacramento River Basin, in which all land area drains into the Sacramento River. Also called catchment area, watershed, or river basin.

Drought: A prolonged period of below-average precipitation.

DPHS: California Department of Public Health Services. Regulates public water systems; oversees water recycling projects; permits water treatment devices; certifies drinking water treatment and distribution operators; supports and promotes water system security; provides support for small water systems and for improving technical, managerial, and financial (TMF) capacity; provides funding opportunities for water system improvements.

DVL: Diamond Valley Lake. Metropolitan's major reservoir near Hemet, in southwestern Riverside County.

DWR: California Department of Water Resources. Guides development/management of California's water resources; owns/operates State Water Project and other water facilities.

Endangered Species: A species of animal or plant threatened with extinction.

Endangered Species Act of 1973 (ESA): The most wide-ranging of the dozens of United States environmental laws passed in the 1970s. As stated in section 2 of the act, it was designed to protect critically imperiled species from extinction as a "consequence of economic growth and development untended by adequate concern and conservation.

Ecosystem: Where living and non-living things interact (coexist) in order to survive.

Effluent: Wastewater or other liquid, partially or completely treated or in its natural state, flowing from a treatment plant.

Evaporation: The process that changes water (liquid) into water vapor (gas).

Estuary: Where fresh water meets salt water.

Evapotranspiration: The quantity of water transpired (given off), retained in plant tissues, and evaporated from plant tissues and surrounding soil surface. Quantitatively, it is expressed in terms of depth of water per unit area during a specified period of time.

FCH Federal Clearing House – Environmental Review/Processing

FEMA Federal Emergency Management Agency

Filtration: The process of allowing water to pass through layers of a porous material such as sand, gravel or charcoal to trap solid particles. Filtration occurs in nature when rain water soaks into the ground and it passes through hundreds of feet of sand and gravel. This same natural process of filtration is duplicated in water and wastewater treatment plants, generally using sand and coal as the filter media.

Flocculation: A chemical process involving addition of a coagulant to assist in the removal of turbidity in water.

Forebay: A reservoir or pond situated at the intake of a pumping plant or power plant to stabilize water level; also, a portion of a groundwater basin where large quantities of surface water can recharge the basin through infiltration.

Gray water reuse: Reuse, generally without treatment, of domestic type wastewater for toilet flushing, garden irrigation and other non-potable uses. Excludes water from toilets, kitchen sinks, dishwashers, or water used for washing diapers.

Green Acres Project (GAP): A 7.5 million gallons per day (MGD) water reclamation project that serves tertiary treated recycled water to irrigation and industrial users in Costa Mesa, Fountain Valley, Huntington Beach, Newport Beach, and Santa Ana.

God Squad: A seven-member committee that is officially called the "Endangered Species Committee". Members consist of Secretary of the Interior, the Secretary of Agriculture, the Secretary of the Army, the Chairman of the Council of Economic Advisers, the Administrator of the National Oceanic and Atmospheric Administration and one individual from the affected state. The squad was established in 1978 by an amendment to the 1973 Endangered Species Act (ESA). It has only been called into action three times to deal with proposed federal agency actions that have been determined to cause "jeopardy" to any listed species. Such actions may receive an exemption from the ESA if five members of the committee determine that the action is of regional or national significance, that the benefits of the action clearly outweigh the benefits of conserving the species and that there are no reasonable and prudent alternatives to the action.

Groundwater: Water that has percolated into natural, underground aquifers; water in the ground, not water puddled on the ground.

Groundwater basin: A groundwater reservoir defined by the overlying land surface and the underlying aquifers that contain water stored in the reservoir. Boundaries of success-ively deeper aquifers may differ and make it difficult to define the limits of the basin.

Groundwater mining: The withdrawal of water from an aquifer in excess of recharge over a period of time. If continued, the underground supply would eventually be exhausted or the water table could drop below economically feasible pumping lifts.

Groundwater overdraft: The condition of a groundwater basin in which the amount of water withdrawn by pumping exceeds the amount of water that recharges the basin over a period of years during which water supply conditions approximate average.

Groundwater recharge: The action of increasing groundwater storage by natural conditions or by human activity. See also: Artificial recharge.

Ground Water Replenishment System (GWRS): A joint project of the Orange County Water District and the Orange County Sanitation District that will provide up to 100,000 acre-feet of reclaimed water annually. The high-quality water will be used to expand an existing underground seawater intrusion barrier and to replenish the groundwater basin underlying north and central Orange County.

Groundwater table: The upper surface of the zone of saturation (all pores of subsoil filled with water), except where the surface is formed by an impermeable body.

GPM: Gallons per minute.

Ground Water Replenishment System (GWRS): Orange County Water District's state-of-the-art, highly advanced, waste-water treatment facility.

Hydrologic balance: An accounting of all water inflow to, water outflow from, and changes in water storage within a hydrologic unit over a specified period.

Hydrologic cycle: The process of water constantly circulating from the ocean, to the atmosphere, to the earth in a form of precipitation, and finally returning to the ocean.

Imported water: Water that has originated from one hydrologic region and is transferred to another hydrologic region.

Inflatable rubber dams: Designed to replace temporary sand levees that wash out during heavy storm flow, the dams hold back high-volume river flows and divert the water into the off-river system for percolation.

Influent: Water or wastewater entering a treatment plant, or a particular stage of the treatment process.

Irrigation: Applying water to crops, lawns or other plants using pumps, pipes, hoses, sprinklers, etc.

JPIA Joint Powers Insurance Authority. A group of water agencies providing self-insurance to members of the ACWA.

LAIF Local Agency Investment Fund. Statewide pool of surplus public agency money managed by State Treasurer.

Leach: To remove components from the soil by the action of water trickling through.

MAF: Million acre feet.

MCL: Maximum contaminant level set by EPA for a regulated substance in drinking water. According to health agencies, the maximum amount of a substance that can be present in water that's safe to drink and which looks, tastes and smells good.

MET: Metropolitan Water District of Southern California.

MGD: Million gallons per day.

Microfiltration: A physical separation process where tiny, hollow filaments members separate particles from water.

Microorganism: An animal or plant of microscopic size.

MWD: Metropolitan Water District of Southern California.

MWDOC: Municipal Water District of Orange County. Intermediate wholesaler between MWD and 27 member agencies including ETWD.

Non-point source pollution: Pollution that is so general or covers such a wide area that no single, localized source of the pollution can be identified.

NPDES National Pollution Discharge Elimination System

OCBC: Orange County Business Council.

OCEMA Orange County Environmental Management Agency

OCWD: Orange County Water District.

Opportunity:

1. A favorable juncture of circumstances.
2. A good chance for advancement or progress .

Organism: Any individual form of life, such as a plant, animal or bacterium.

PCM Professional Community Management, Inc. Property Management company providing services to Laguna Woods Village and other homeowner associations.

Perched groundwater: Groundwater supported by a zone of material of low permeability located above an underlying main body of groundwater with which it is not hydrostatically connected.

Percolation: The downward movement of water through the soil or alluvium to the groundwater table.

Permeability: The capability of soil or other geologic formations to transmit water.

Point source: A specific site from which waste or polluted water is discharged into a water body, the source of which is identified. See also: non-point source.

Potable water: Suitable and safe for drinking.

PPB: Parts per billion.

Precipitation: Water from the atmosphere that falls to the ground as a liquid (rain) or a solid (snow, sleet, hail).

Primary treated water: First major treatment in a wastewater treatment facility, usually sedimentation but not biological oxidation.

Primary treatment: Removing solids and floating matter from wastewater using screening, skimming and sedimentation (settling by gravity).

Prior appropriation doctrine: Allocates water rights to the first party who diverts water from its natural source and applies the water to beneficial use. If at some point the first appropriator fails to use the water beneficially, another person may appropriate the water and gain rights to the water. The central principle is beneficial use, not land ownership.

Pumping Plant: A facility that lifts water up and over hills.

Recharge: The physical process where water naturally percolates or sinks into a groundwater basin.

Recharge basin: A surface facility, often a large pond, used to increase the infiltration of surface water into a groundwater basin.

Reclaimed wastewater: Wastewater that becomes suitable for a specific beneficial use as a result of treatment. See also: wastewater reclamation.

Reclamation project: A project where water is obtained from a sanitary district or system and which undergoes additional treatment for a variety of uses, including landscape irrigation, industrial uses, and groundwater recharge.

Recycling: A type of reuse, usually involving running a supply of water through a closed system again and again. Legislation in 1991 legally equates the term "recycled water" to reclaimed water.

Reservoir: A place where water is stored until it is needed. A reservoir can be an open lake or an enclosed storage tank.

Reverse osmosis: (RO) A method of removing salts or other ions from water by forcing water through a semi-permeable membrane.

RFP Request for Proposal

Riparian: Of or on the banks of a stream, river, or other body of water.

RO: Reverse osmosis. See the listing under "reverse osmosis."

R-O-W Right-of-way

Runoff: Liquid water that travels over the surface of the Earth, moving downward due to gravity. Runoff is one way in which water that falls as precipitation returns to the ocean.

RWQCB Regional Water Quality Control Board. State agency regulating discharge and use of recycled water.

Safe Drinking Water Act (SDWA): The Safe Drinking Water Act (SDWA) was originally passed by Congress in 1974 to protect public health by regulating the nation's public drinking water supply. The law was amended in 1986 and 1996 and requires many actions to protect drinking water and its sources: rivers, lakes, reservoirs, springs, and ground water wells. (SDWA does not regulate private wells which serve fewer than 25 individuals.) SDWA authorizes the United States Environmental Protection Agency (US EPA) to set national health-based standards for drinking water to protect against both naturally-occurring and man-made contaminants that may be found in drinking water. US EPA, states, and water systems work together to make sure that these standards are met.

Safe yield: The maximum quantity of water that can be withdrawn from a groundwater basin over a long period of time without developing a condition of overdraft, sometimes referred to as sustained yield.

SAFRA Santa Ana River Flood Protection Agency

Salinity: Generally, the concentration of mineral salts dissolved in water. Salinity may be measured by weight (total dissolved solids - TDS), electrical conductivity, or osmotic pressure. Where seawater is known to be the major source of salt, salinity is often used to refer to the concentration of chlorides in the water.

SAWPA: Santa Ana Watershed Project Authority.

SCADA Supervisory Control and Data Acquisition

SCAP Southern California Alliance of Publicly. Newly formed group of public agencies seeking reasonable regulation of sewer industry.

SCH State Clearing House – Environmental Review/Processing

Seasonal storage: A three-part program offered by Metropolitan Water District of Southern California:

STSS (Short Term Seasonal Storage) financially encourages agencies with local groundwater production capabilities to produce a higher percentage of their demand in the summer from their local groundwater supplies, thus shifting a portion of their demand on the MWD system from the summer to winter;

LTSS (Long Term Seasonal Storage) financially encourages retail agencies to take and store additional amounts of MWD water above their normal annual demands for later use; Replenishment Water provides less expensive interruptible water that is generally available and used to increase the operating yield of groundwater basins.

Seawater intrusion: The movement of salt water into a body of fresh water. It can occur in either surface water or groundwater basins.

Seawater barrier: A physical facility or method of operation designed to prevent the intrusion of salt water into a body of freshwater.

Secondary treatment: The biological portion of wastewater treatment which uses the activated sludge process to further clean wastewater after primary treatment. Generally, a level of treatment that produces 85 percent removal efficiencies for biological oxygen demand and suspended solids. Usually carried out through the use of trickling filters or by the activated sludge process.

Sedimentation: The settling of solids in a body of water using gravity.

Settle: To clarify water by causing impurities/solid material to sink to a container's bottom.

Sewer: The system of pipes that carries wastewater from homes and businesses to a treatment plant or reclamation plant. Sewers are separate from storm drains, which is a system of drains and pipes that carry rain water from urban streets back to the ocean. Overwatering your yard can also cause water to run into the streets and into storm drains. Storm drain water is not treated before it is discharged.

SigAlert: Any unplanned event that causes the closing of one lane of traffic for 30 minutes or more, as opposed to a planned event, like road construction, which is planned.

SJBA San Juan Basin Authority

Sludge: The solids that remain after wastewater treatment. This material is separated from the cleaned water, treated and composted into fertilizer. Also called biosolids.

SOCWA South Orange County Wastewater Authority. Regional Joint Powers Authority formed for collection and treatment of sewerage (previously known as AWMA/SERRA/SOCRA). SOCWA member agencies:

CSC – City of San Clemente

CSJC – City of San Juan Capistrano

CLB – City of Laguna Beach

ETWD – El Toro Water District

EBSD – Emerald Bay Service District

IRWD – Irvine Ranch Water District

MNWD – Moulton Niguel Water District

SCWD – South Coast Water District

SMWD – Santa Margarita Water District

TCWD – Trabuco Canyon Water District

SRF State Revolving Fund

Storm Drain: The system of pipes that carries rain water from urban streets back to the ocean. Overwatering your yard can also cause water to run into the streets and into storm drains. Storm drain

water is not treated before it is discharged. Storm drains are separate from sewers, which is a separate system of pipes to carry wastewater from homes and businesses to a treatment plant or reclamation plant for cleaning.

Storm flow: Surface flow originating from precipitation and run-off which has not percolated to an underground basin.

SWP: State Water Project. An aqueduct system that delivers water from northern California to central and southern California.

SWRCB State Water Resources Control Board

TDS: Total dissolved solids. A quantitative measure of the residual minerals dissolved in water that remain after evaporation of a solution. Usually expressed in milligrams per liter.

Tertiary treatment: The treatment of wastewater beyond the secondary or biological stage. Normally implies the removal of nutrients, such as phosphorous and nitrogen, and a high percentage of suspended solids.

THM: Trihalomethanes. Any of several synthetic organic compounds formed when chlorine or bromine combine with organic materials in water.

TMA: Too many acronyms.

TMDL: Total maximum daily load; A quantitative assessment of water quality problems, contributing sources, and load reductions or control actions needed to restore and protect bodies of water.

Transpiration: The process in which plant tissues give off water vapor to the atmosphere as an essential physiological process.

Turbidity: Thick or opaque with matter in suspension; muddy water.

Ultraviolet light disinfection: A disinfection method for water that has received either secondary or tertiary treatment used as an alternative to chlorination.

VE Value Engineering

VOC: Volatile organic compound; a chemical compound that evaporates readily at room temperature and contains carbon.

Wastewater: Water that has been previously used by a municipality, industry or agriculture and has suffered a loss of quality as a result.

Water Cycle: The continuous process of surface water (puddles, lakes, oceans) evaporating from the sun's heat to become water vapor (gas) in the atmosphere. Water condenses into clouds and then falls back to earth as rain or snow (precipitation). Some precipitation soaks into the ground (percolation) to replenish groundwater supplies in underground aquifers.

Water rights: A legally protected right to take possession of water occurring in a natural waterway and to divert that water for beneficial use.

Water-use Efficiency: The water requirements of a particular device, fixture, appliance, process, piece of equipment, or activity.

Water year (USGS): The period between October 1st of one calendar year to September 30th of the following calendar year.

Watermaster: A court appointed person(s) that has specific responsibilities to carry out court decisions pertaining to a river system or watershed.

Water Reclamation: The treatment of wastewater to make it suitable for a beneficial reuse, such as landscape irrigation. Also called water recycling.

Watershed: The total land area that from which water drains or flows to a river, stream, lake or other body of water.

Water table: The top level of water stored underground.

WEF Water Environment Federation. Formerly – Water Pollution Control Federation (WPCF). International trade group advising members of sewage treatment techniques and their effect on the environment.

Weir box: A device to measure/control surface water flows in streams or between ponds.

Wellhead treatment: Water quality treatment of water being produced at the well site.

Wetland: Any area in which the water table stands near, at, or above the land surface for a portion of the year. Wetlands are characterized by plants adapted to wet soil conditions.

Xeriscape: Landscaping that requires minimal water.