

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

**(Director Monin will participate via teleconference
from: the Manchester Grand Hyatt, 1 Market Place,
San Diego, CA)**

**August 22, 2019
7:30 a.m.**

CALL MEETING TO ORDER – President Vergara

PLEDGE OF ALLEGIANCE – Director 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 "DIRECTORS COMMENTS/NON-AGENDA ITEMS." The public will 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(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.)

PRESENTATION OF AWARDS, RECOGNITIONS AND INTRODUCTIONS

a. Service Awards

There are no acknowledgements.

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

1. Mr. Cafferty will recognize and congratulate Robert McKern, Customer Field Representative 1, for obtaining his Water Treatment Operator Grade T2 from the State of California Water Resources Control Board.

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

There are no acknowledgements.

1. 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.

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)

2. Approval of Minutes/Conferences (Minutes Included)

- a. Consider approving the minutes of the July 25, 2019 Board meeting
- b. Consider approving the Directors to attend the American Water Resource Association (AWRA) conference November 3-7, 2019 in Salt Lake City, UT
- c. Consider approving Director Gaskins to participate on the Association of California Water Agencies (ACWA) Water Quality Committee
- d. Consider approving Director Monin to participate on the Association of California Water Agencies (ACWA) Finance Committee

**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.

DIRECTOR/COMMITTEE REPORTING

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

GENERAL MANAGER ACTION ITEMS

4. **ACWA Region 10 Board Election** (Reference Material Included)

Staff and the Board will review and comment on the ACWA Region 10 Board Ballot and Nominating Committee's Recommended Slate and Individual Board Candidate Nominations for Chair, Vice-Chair, and Board Members.

Recommended Action: Staff recommends that the Board authorize the General Manager to cast the vote for the ACWA Region 10 Board Ballot according to the Board's decision.

5. **Consulting Agreement with Bob Hill** (Reference Material Included)

Staff will review and comment on the proposed consulting agreement with Bob Hill.

Recommended Action: Staff recommends that the Board of Directors authorize the District's General Manager to enter into a consulting contract with Bob Hill for periodic support services.

6. **Resolution No. 19-8-3 Charlie Wilson Resolution** (Reference Material Included)

Staff recommends that the Board approve Resolution No. 19-8-3 which commends Charlie Wilson on his 19 years of service with the Santa Margarita Water District, and his more than 17 years serving on the County of Orange Board of the OC LAFCO.

Recommended Action: Staff recommends that the Board approve Resolution No. 19-8-3 which commends Charlie Wilson on his 19 years of service with the Santa Margarita Water District, and his more than 17 years serving on the County of Orange Board of the OC LAFCO, and authorize the General Manager to present the Resolution to Charlie Wilson.

RESOLUTION NO. 19-8-3

RESOLUTION OF THE BOARD OF DIRECTORS
OF THE EL TORO WATER DISTRICT
COMMENDING CHARLIE WILSON FOR HIS
DEDICATION TO THE SANTA MARGARITA WATER DISTRICT
AND TO THE OC LAFCO

7. **Resolution No. 19-8-4 Modifying Standing Committee and External Organization Board and Staff Assignments** (Reference Material Included)

The Board President will review and comment on Resolution No. 19-8-4 Modifying Standing Committee and External Organization Board and Staff Assignments for the balance of Calendar Year 2019, effective August 22, 2019.

Recommended Action: The Board of Directors will consider adopting Resolution No. 19-8-4, effective August 22, 2019.

RESOLUTION NO. 19-8-4

RESOLUTION OF THE BOARD OF DIRECTORS OF THE
EL TORO WATER DISTRICT
MODIFYING STANDING AND EXTERNAL ORGANIZATION
BOARD AND STAFF ASSIGNMENTS FOR THE BALANCE OF 2019
EFFECTIVE AUGUST 22, 2019

GENERAL MANAGER INFORMATION ITEMS

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

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

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

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

10. **Public Education and Outreach & Water Conservation Reports**
(Reference Material Included)
11. **SOCWA Reports** (Reference Material Included)
 - a. SOCWA Special Board Meeting – August 8, 2019
 - b. SOCWA Engineering Committee Meeting – August 15, 2019
 - c. SOCWA Special Finance Committee Meeting – August 20, 2019
12. **Municipal Water District Of Orange County (MWDOC) Report**
(Reference Material Included)
 - a. MWDOC Planning/Operations Committee – August 5, 2019
 - b. MWDOC/MET Directors Workshop – August 7, 2019
 - c. MWDOC Public Affairs & Legislation Committee – August 12, 2019
 - d. MWDOC Administration & Finance Committee – August 14, 2019
 - e. MWDOC Board Meeting – August 21, 2019
13. **Local Agency Formation Commission (LAFCO) Report**
 - a. Report on the August 14, 2019 LAFCO meeting
14. **South Orange County Watershed Management Area (SOCWMA) Management and/or Executive Committee Report**
 - a. Report on the August 8, 2019 SOCWMA Executive Committee meeting.
15. **ISDOC Meetings** (Reference Material Included)
 - a. Report on the August 6, 2019 ISDOC Executive Committee Meeting
16. **WACO Meetings** (Reference Material Included)
 - a. Report on the August 2, 2019 WACO Meeting
 - b. Report on the August 20, 2019 WACO Planning Committee meeting
17. **City Coordination Efforts**

There was no meeting.

COMMITTEE AND GENERAL INFORMATION

18. Dates to Remember for August/September 2019(Reference Material Included)

19. Carry-Over Pending Matters

DIRECTOR COMMENTS/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) (2) to consult with legal counsel and staff –Potential Litigation (one matter).
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 –Potential Litigation (one matter) Application to File Late Claim – Marlene Jean aka Marlene Jean Trusik (Claimant).

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, September 26, 2019 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.

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



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

Economic and Market Perspectives
Q3 2019

Market Overview

Despite signals that the global economy continues to deteriorate, investors embraced risk assets even as the disconnection between debt and equity markets deepened. Trade tensions remained unresolved, driving up consumer prices and leaving capital expenditure plans in limbo. This issue of the Economic and Market Perspectives discusses global markets and our outlook for the third quarter of 2019.

Trophies for everyone!

The second quarter and 2019 year-to-date has flipped the script on 2018 when most “risky” asset classes lost money. Nearly every asset class and index, in fact, has shown positive 2019 returns ranging from 26% in U.S. mid cap growth equity to 14% in U.S. long-term investment grade bonds as interest rates continued to decline. The trend continued in the second quarter with only Chinese equities and diversified commodity indices dipping into the red and asset classes, ranging from municipal bonds to emerging markets to gold, continuing their seemingly unstoppable march upwards.

Risk-hungry investors, buoyed by the prospect of three rate cuts before year-end, drove the S&P 500 index to record highs during the quarter and the index recorded the best first half year since the first six months of 1997: a total return of 19% following the 14% selloff in the fourth quarter of last year and a 4% return for the second quarter of 2019.

Unlike the volatility of the prior two years, the U.S. dollar, when measured against a trade-weighted basket of foreign currencies, has been remarkably stable so far in 2019. This is one of the most notable differences compared to 2017 when most asset classes also performed well but the dollar sold off from the near-term highs reached in December of 2016.

With market return trophies in hand, investors may wonder if the risk-on party will ever end. Equity market enthusiasm is somewhat surprising given the fact that domestic stock valuations are rich at 17 times earnings and, having nearly recovered

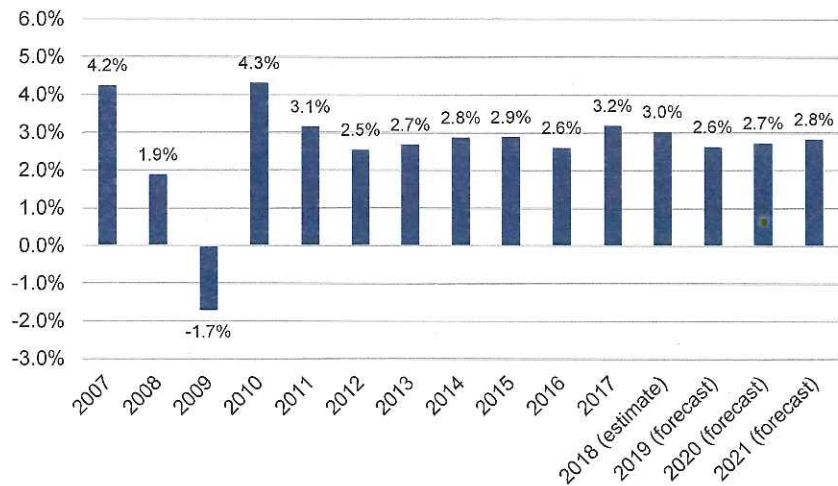
from the year-end 2018 selloff¹, now stand at the high end of their historic range. Even expectations that second quarter corporate earnings will fall 3% versus the same period last year have not deterred investor appetite for stocks in an environment of persistent trade tensions and global bond markets signaling caution.

Growth Slowdown Continues

Meanwhile, the global economy is fragile with most regions struggling to regain economic momentum. Many key indicators pointing to economic growth—industrial production, manufacturing, consumer confidence and trade—saw disappointing second quarter readings. The odds of a manufacturing and capital expenditure recession have risen substantially given deteriorating global growth outlooks as the World Bank continues to revise global GDP downwards with 2019 forecast growth downgraded to 2.6% from 2.9% due to weaker-than-forecast trade and investment momentum. Global GDP growth in the region of 2.6% can be considered “stall speed”—neither indicative of growth or decline.

As shown in the chart on the next page, global GDP is not expected to reach the 3% plus region recorded in 2017 and 2018 anytime soon.

Global Growth Slows



Source: World Bank (World Development Indicators), World Bank Group (Global Economic Prospects, June 2019)

Other evidence of tepid global growth includes the record high amount of global sovereign debt—some \$13 trillion or over 20% of the total outstanding—in negative yielding paperⁱⁱ. Global central banks continue to resist hiking rates—or in the case of the U.S. are expected to trim—and some, like the European Central Bank, are considering a return to bond purchases to drive rates even lower and, hopefully, prime the growth pump with a fresh infusion of easy money.

Meanwhile, equity market “disconnection” from bond, currency, commodity markets and inflation data continues to deepen.

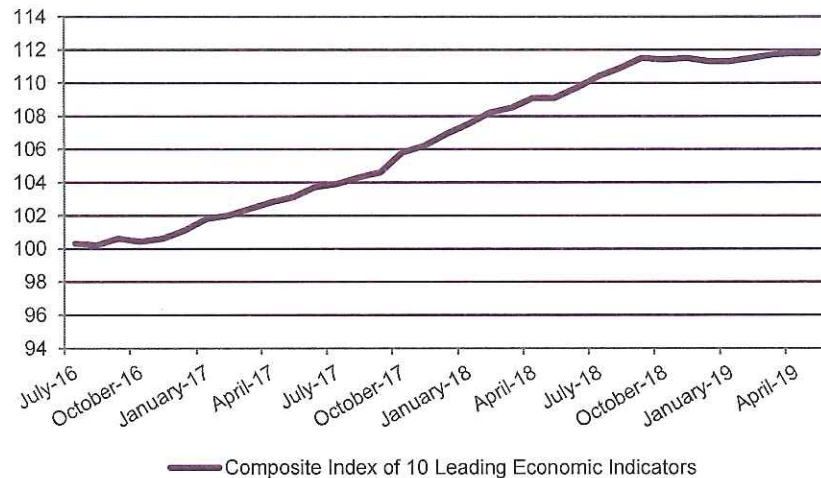
Disconnected from Reality?

Even as U.S. stocks and most other risk assets celebrated a strong second quarter, bond market investors continued to dampen enthusiasm by driving down yields. The bellwether 10-year Treasury yield dropped a further 41 basis points to finish the quarter at a yield of 2.0%. Yield curve inversion, which some believe predicts economic recession, continued to deepen with the one-month Treasury yielding 18 basis points more than the 10-year Treasury at the end of the second quarter-- up from a spread of 2 basis points at the end of the first quarter.

Both sides—equity market enthusiasm and bond, currency, and commodity market pessimism—can’t be right unless “Goldilocks” economic conditions remain. But a “not too hot, not too cold” environment this late in the economic cycle is unlikely as signs of declining global economic momentum in trade and industrial production continue to pile up. On balance, we believe bond markets are more realistic and suggest challenges going forward as the risks of a shallow recession increase.

For example, the chart on the next page plots the Conference Board’s Leading Economic Index (LEI) of 10 key leading economic indicators that include employment levels, consumer sentiment, manufacturing activity, and building permits. The LEI seeks to signal peaks and troughs of the business cycle and, based on the index, U.S. economic growth appears to have stalled since the fall of last year despite strong consumer spending year-to-date.

Stalling Out?



Source: FactSet, The Conference Board (U.S. Composite Index of 10 Leading Indicators, 2016=100)

Two key measurements of future economic growth—purchasing manager activity and consumer confidence—have declined by 14% and 4% respectively for the 12 months ending second quarter 2019 and confirm what appears to be slowing economic conditions and, if not a march towards recession, at least a slowing economy inconsistent with embracing a risk-on strategy. If consumer expenditures are all that stand between a stalled domestic economy or one entering recession, continuing declines in consumer confidence are worrisome.

Meanwhile, equity markets have embraced the prospect of rate cuts for the balance of 2019 with the Fed's reaction function shifting completely from a de facto hiking bias to an easing posture in a mere six months—possibly the fastest shift from hawk to dove in recent memory. Each mention of possible easing and/or tapering prompts a Pavlovian risk asset rally—a consistent theme most of this cycle. But the cure, rate cuts and other Fed policies to prop up the economy, may be worse than the disease of an end to the longest economic expansion in U.S. history.

A Market Untethered?

Unconventional central bank policies, including near-zero interest rates and a pause in selling off nearly \$4 trillion in bonds accumulated in response to the Great Recession, have manipulated asset prices and forced investors to seek yield and return further out on the risk curve. As a result, asset prices are untethered from economic fundamentals and instead are driven by central bank rhetoric and presidential tweets on the trade war with China. This is not a sign of healthy markets where the drivers are typically prospects of a better economy or improving corporate profit forecasts.

Equity markets continue to bet that the Fed can engineer a soft landingⁱⁱⁱ by foaming the runway with lower rates, potentially an overly optimistic view as bond markets continue to signal otherwise. Is this rosy scenario warranted when central banks' track records as economic saviors are not particularly heartening? The Fed's track record is typically to be behind the curve and therefore late in responding to shifting and deteriorating market conditions.

Given the disconnect between equity market enthusiasm and pessimistic bond markets, slowing global growth and continuing trade tensions, judicious rebalancing of portfolios back to strategic allocations may be warranted.

Rates and Trades and Tweets

In remarks after June's Federal Open Market Committee meeting, Chairman Powell noted concerns regarding global trade tensions and the impact they may have on U.S. economic growth.

Shortly after Powell's comments, President Trump and Chinese Premier Xi Jinping wrapped up their Group of 20 (G20) meeting by announcing that trade negotiations would resume after collapsing at the last round in early May when the Chinese balked at the prospect of rewriting domestic legislation to meet U.S. demands on dismantling the government's investment in state-owned businesses.

For now, the 25% tariffs on \$250 billion worth of Chinese imports will continue to have a negative impact on Chinese GDP and U.S. producers will continue to face export barriers. With the threat of additional 25% tariffs on \$300 billion of Chinese imports

still on the table, the trade wars with China continue to escalate despite the Osaka cease-fire, as does the risk of a domestic policy response that could pour oil on the fire.

As trade tariffs drive consumer prices higher and dampen demand, disrupt supply chains and spark uncertainty regarding business investment and capital expenditures, the administration is playing a high risk/potentially high reward endgame. A trade policy mistake would be highly destabilizing to markets: at best a major slowdown and at worst a global recession. The Fed also faces a dilemma as it considers how far to move from its past hawkish stance to an easing policy while the President continues his criticisms of Chairman Powell and his fellow FOMC Governors.

Going Their Own Way

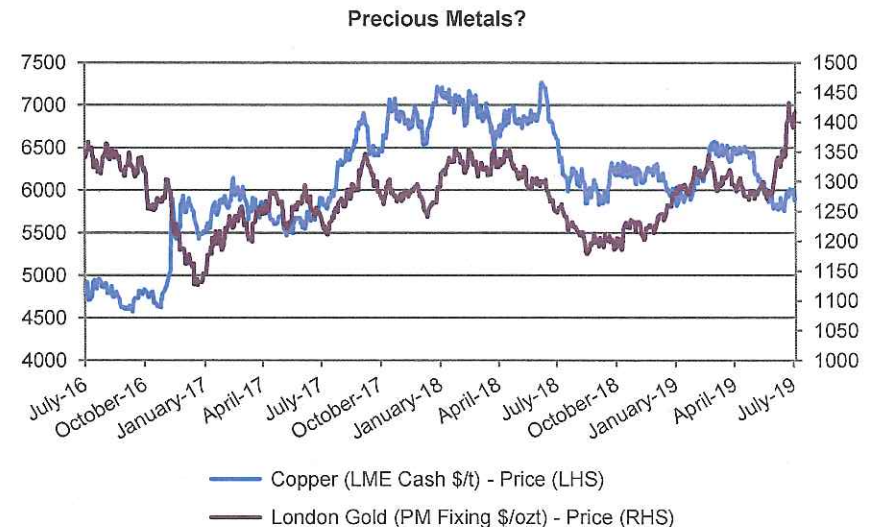
The day after the president and his negotiators arrived in Osaka, Japan for the G20 summit, the European Union (EU) announced a trade deal, after two decades of negotiations, with four Latin American countries (the Mercosur economic and political bloc) that will eliminate tariffs worth billions of dollars and cover nearly \$100 billion of bilateral trade annually. News of the deal came as the U.S. administration continues to play hardball with Europe-- imposing tariffs on steel and aluminum, threatening tariffs on automobiles and tweet-attacking the European Central Bank's monetary policy responses to a slowdown in growth.

The Mercosur deal was followed shortly by an EU free trade pact with Vietnam, even as the Trump administration added new tariffs to U.S. trade with Vietnam, and follows EU trade deals with Canada, Mexico, Japan, and Singapore. Trade deals with at least four other countries are also being pursued.

"We reinforce multilateral agreements whilst others rip them up," tweeted EU Trade Commissioner Cecilia Malmstrom after the Mercosur accord.

As the EU announces new trade pacts, global investors have responded to concerns over trade and geopolitical tensions from Iran to Brexit to North Korea by pouring money into flight to safety securities, ranging from U.S. Treasuries to Swiss Francs to Yen-denominated issues. The price of gold, the traditional "safest" safe haven asset class, is particularly telling, not only as an indication of investor geopolitical unease but, when combined with the price of copper, as a signal of slowing global growth.

During periods of economic expansion, copper prices can be expected to outperform gold as investors bet that future demand for commodities will be driven by increasing manufacturing activity. But as shown in the chart below, gold's recent outperformance illustrates increasing investor concerns regarding trade, slowing global growth and the credibility and effectiveness of central banks here and abroad to act in the interests of equity and bond investors.



Source: FactSet

The Mercosur agreement and other trade pacts led by countries seeking to retain a pro-globalization worldview, as the U.S. administration increasingly embraces an isolationist stance towards trade, highlights the potential risks of what might be called "Cold War 2.0".

If the China/U.S. trade confrontation becomes broader than trade and grows to include global political and military influence jockeying, the conflict may shape markets for the next several decades. As the quarter drew to a close, the

administration's responses to provocations from Iran to Venezuela to North Korea make it difficult to handicap the odds of a new global Cold War. But if safe haven investing in gold is any clue, they are increasing rather than decreasing.

Key Takeaways:

- Fundamental economic underpinnings do not support substantially higher equity moves.
- Global economic conditions remain fragile despite ongoing central bank interventions.
- Bond market pessimism may be more predictive than equity market enthusiasm.
- Asset prices are untethered from economic fundamentals and are driven by central bank rhetoric and presidential tweets.
- Risk asset rally may be a signal to rebalance portfolios to strategic allocations.
- Continuing trade tensions create multiple economic and geopolitical risks.

**Economic and Market Perspectives
Q3 2019**

For more information, speak to your relationship manager or visit us at unionbank.com/theprivatebank

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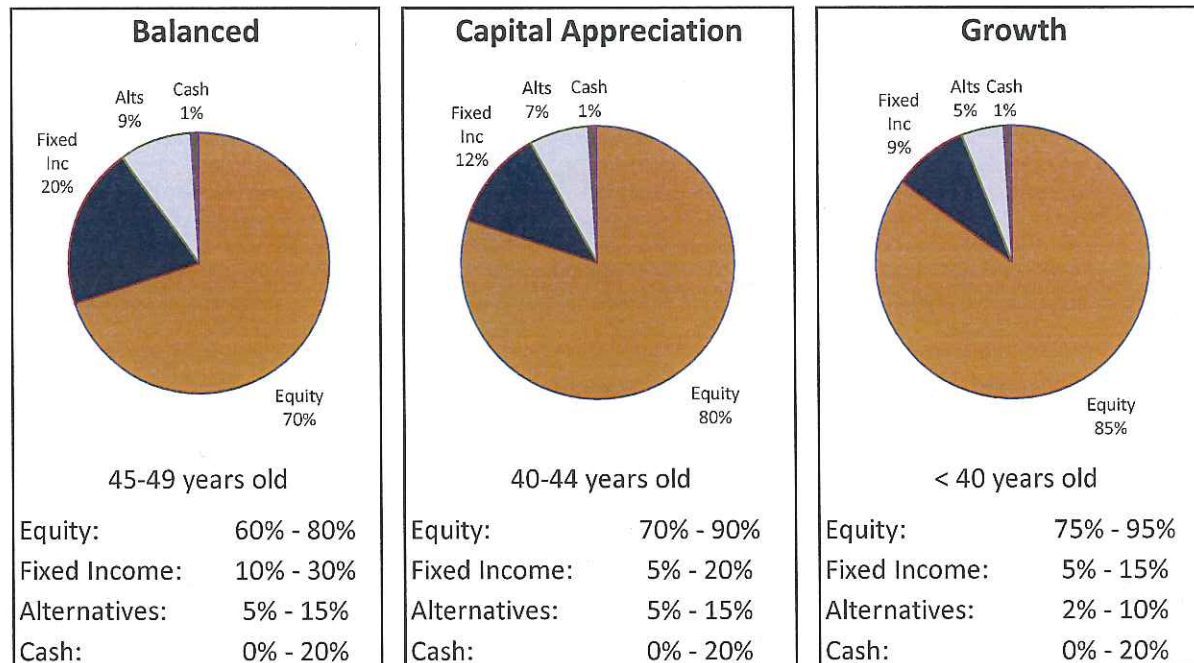
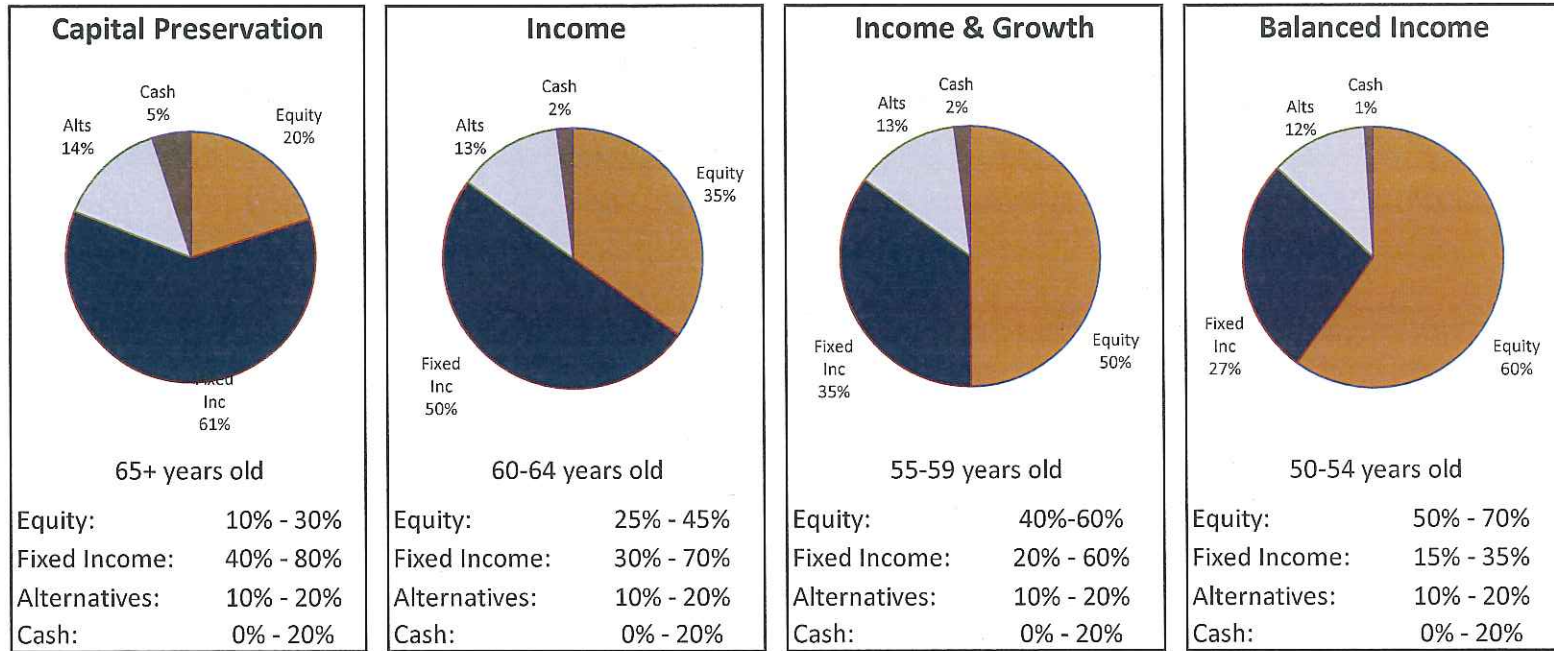
ⁱ FactSet

ⁱⁱ Bloomberg

ⁱⁱⁱ A soft landing occurs when an economy shifts from growth to slow-growth to potentially flat, approaching but avoiding a recession. A hard landing means a marked economic slowdown or downturn following a period of rapid growth.

INVESTMENT POOLS - ASSET ALLOCATION

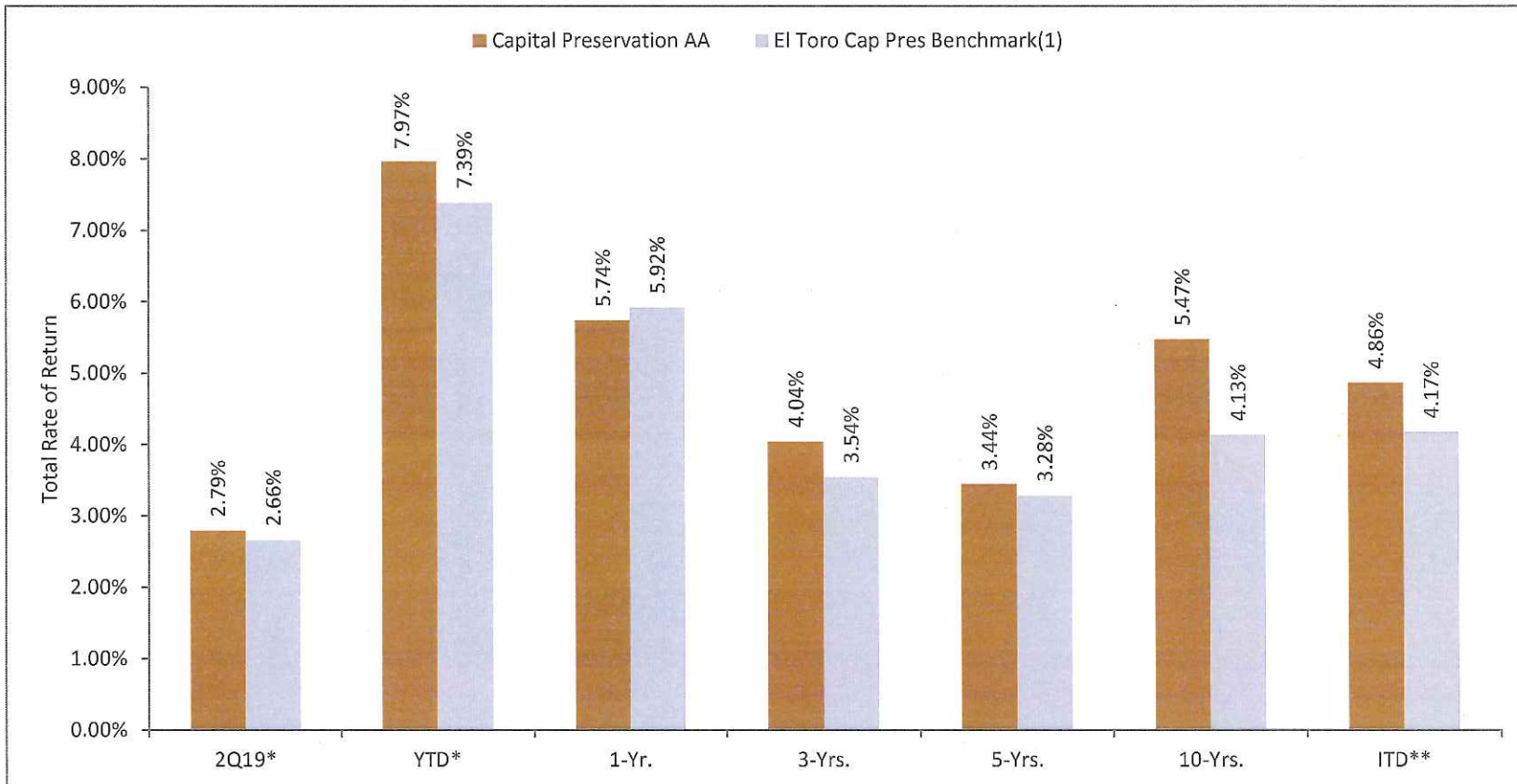
El Toro Water District - 401(k) Plan



INVESTMENT RETURNS - CAPITAL PRESERVATION PORTFOLIO

El Toro Water District - 401(k) Plan

Annualized Total Rate of Return
as of June 30, 2019



*Returns for periods under one year are not annualized

**Inception date: January 2006

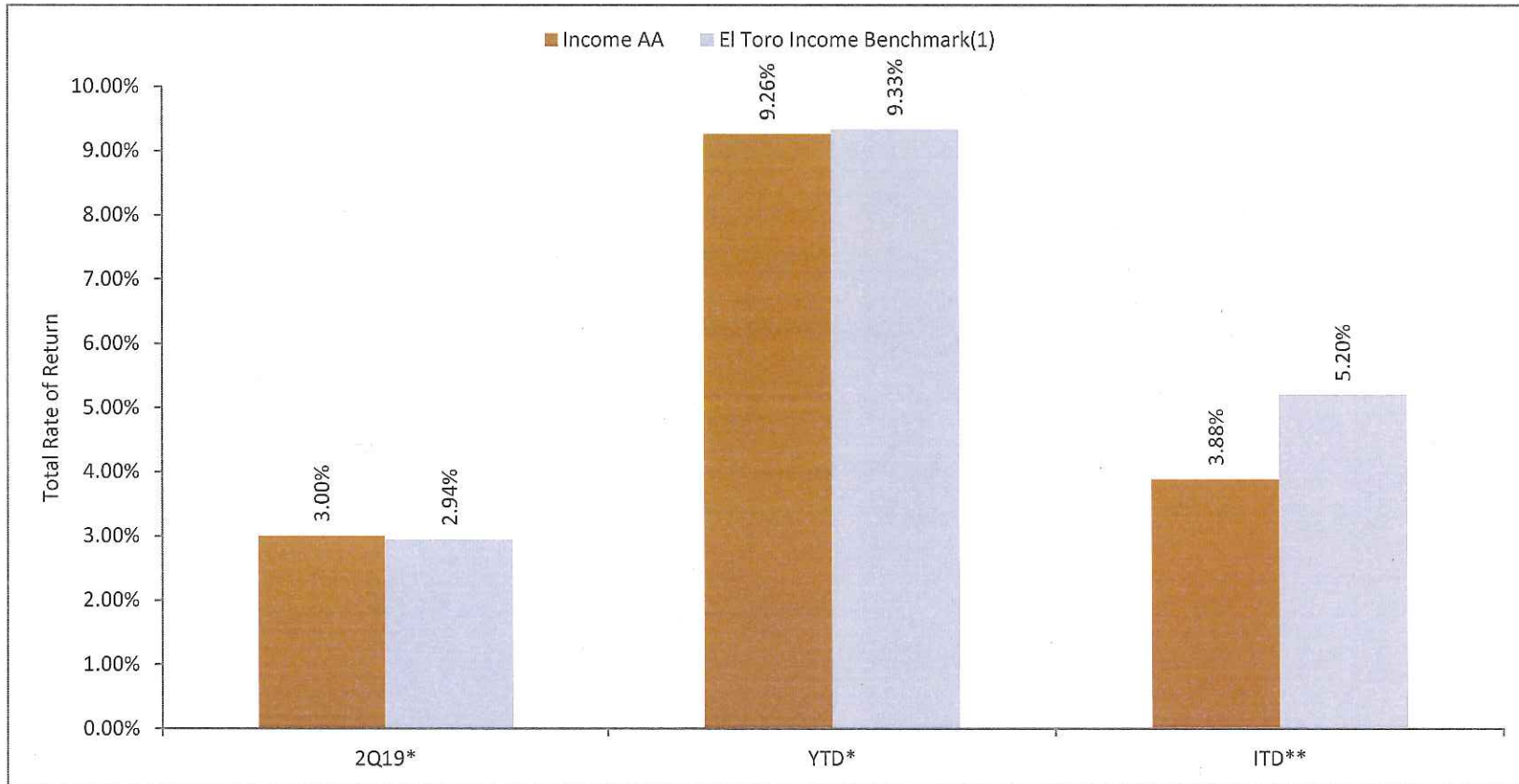
(1) El Toro Cap Pres Benchmark: 12% S&P 500, 2% Russell MidCap, 2% Russell 2000, 3% MSCI EAFE, 1% MSCI Emerging Markets, 44% Barclays US Aggregate Bond, 17% Barclays 1-3 Year Government/Credit Bond, 14% Wilshire Liquid Alternatives, 5% ICE BofAML 3 Mo US T-Bill

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 June 30, 2019



*Returns for periods under one year are not annualized

**Inception date: August 2018

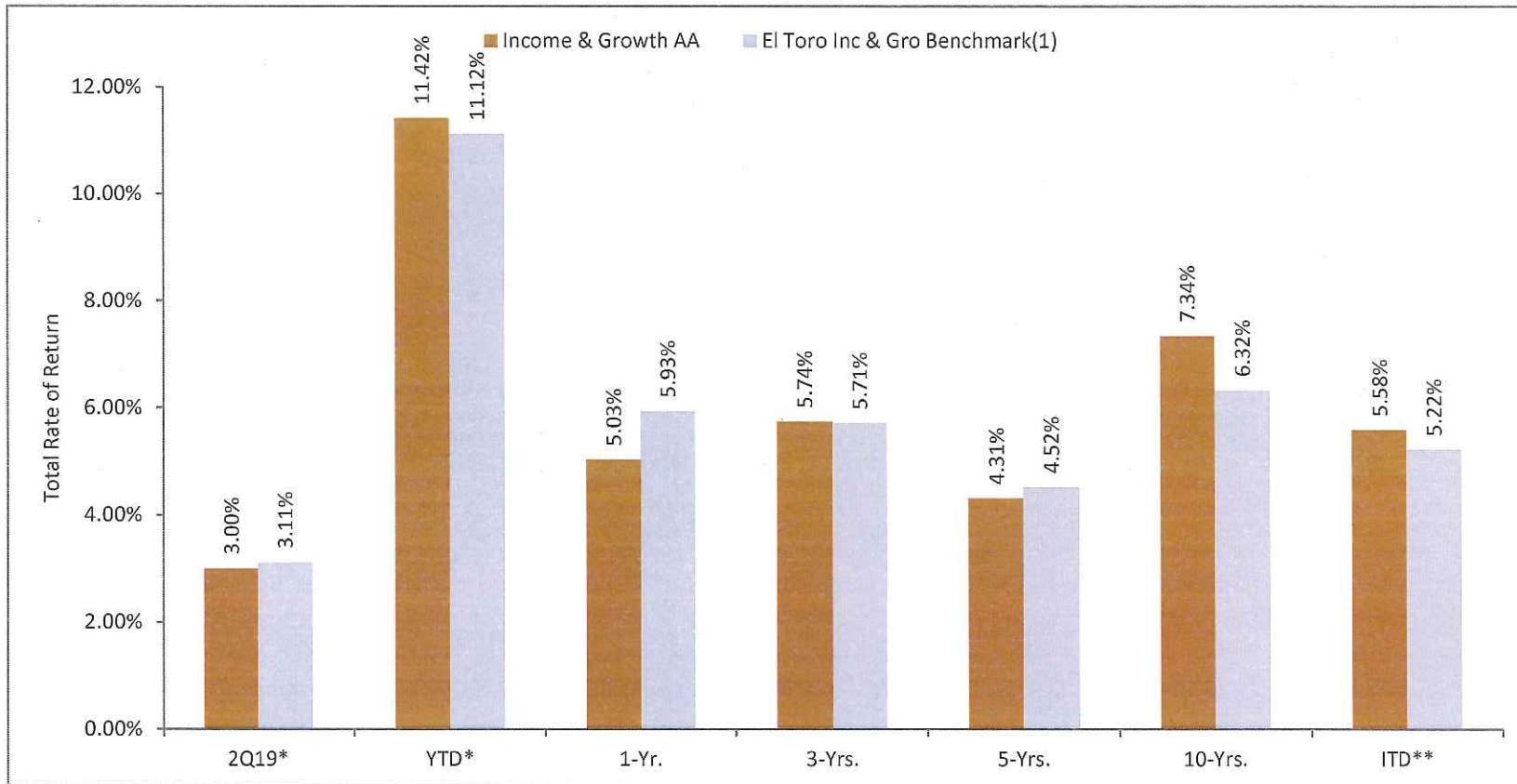
(1) El Toro Income Benchmark: 21% S&P 500, 3% Russell MidCap, 3% Russell 2000, 6% MSCI EAFE, 2% MSCI Emerging Market, 36% Barclays US Aggregate Bond, 14% Barclays 1-3 Year Government/Credit Bond, 13% Wilshire Liquid Alternatives, 2% ICE BofAML 3 Mo US T-Bill

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 June 30, 2019



*Returns for periods under one year are not annualized

**Inception date: January 2006

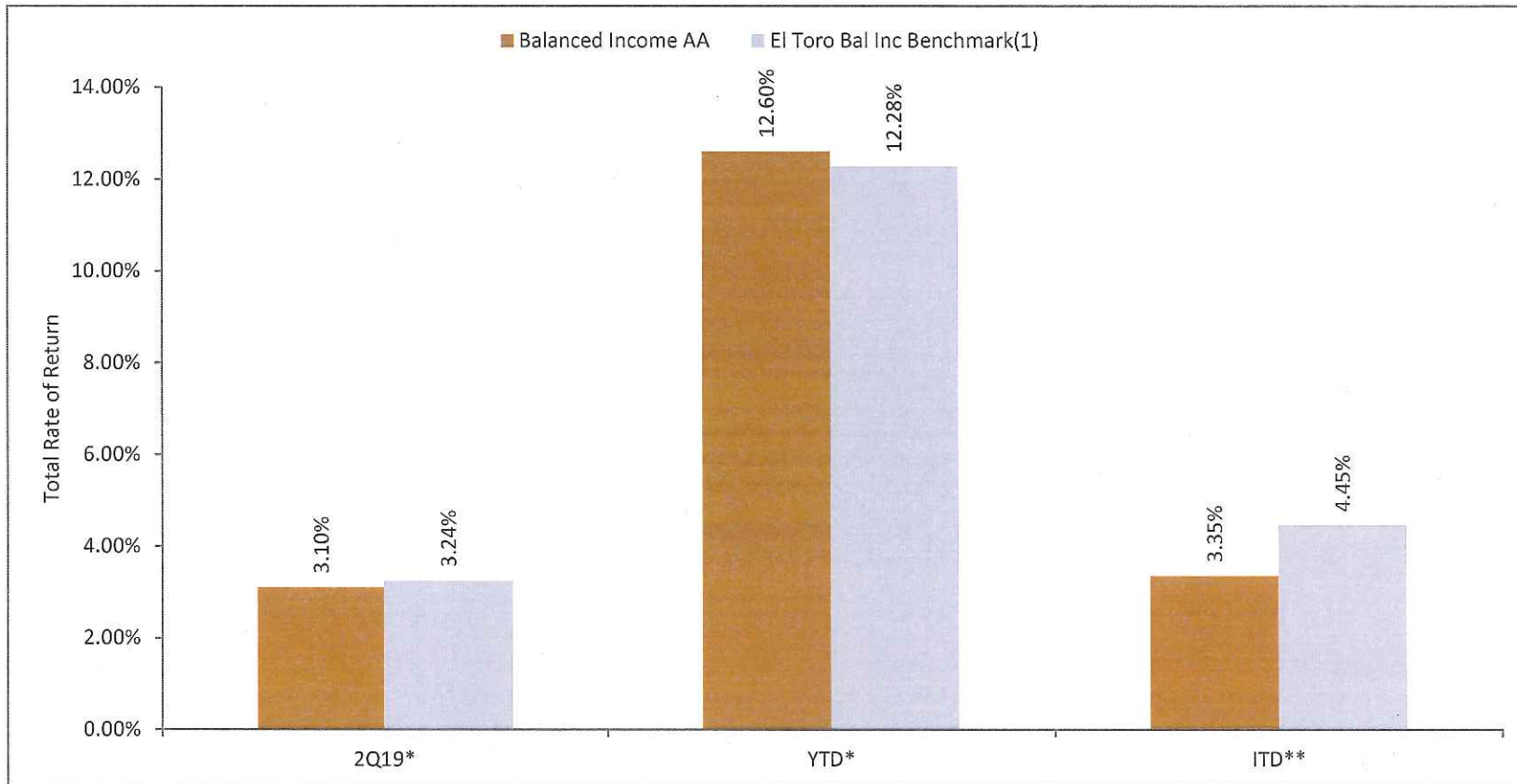
(1) El Toro Inc & Gro Benchmark: 30% S&P 500, 4% Russell MidCap, 4% Russell 2000, 9% MSCI EAFE, 3% MSCI Emerging Market, 25% Barclays US Aggregate Bond, 10% Barclays 1-3 Year Government/Credit Bond, 13% Wilshire Liquid Alternatives, 2% ICE BofAML 3 Mo US T-Bill

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 June 30, 2019



*Returns for periods under one year are not annualized

**Inception date: August 2018

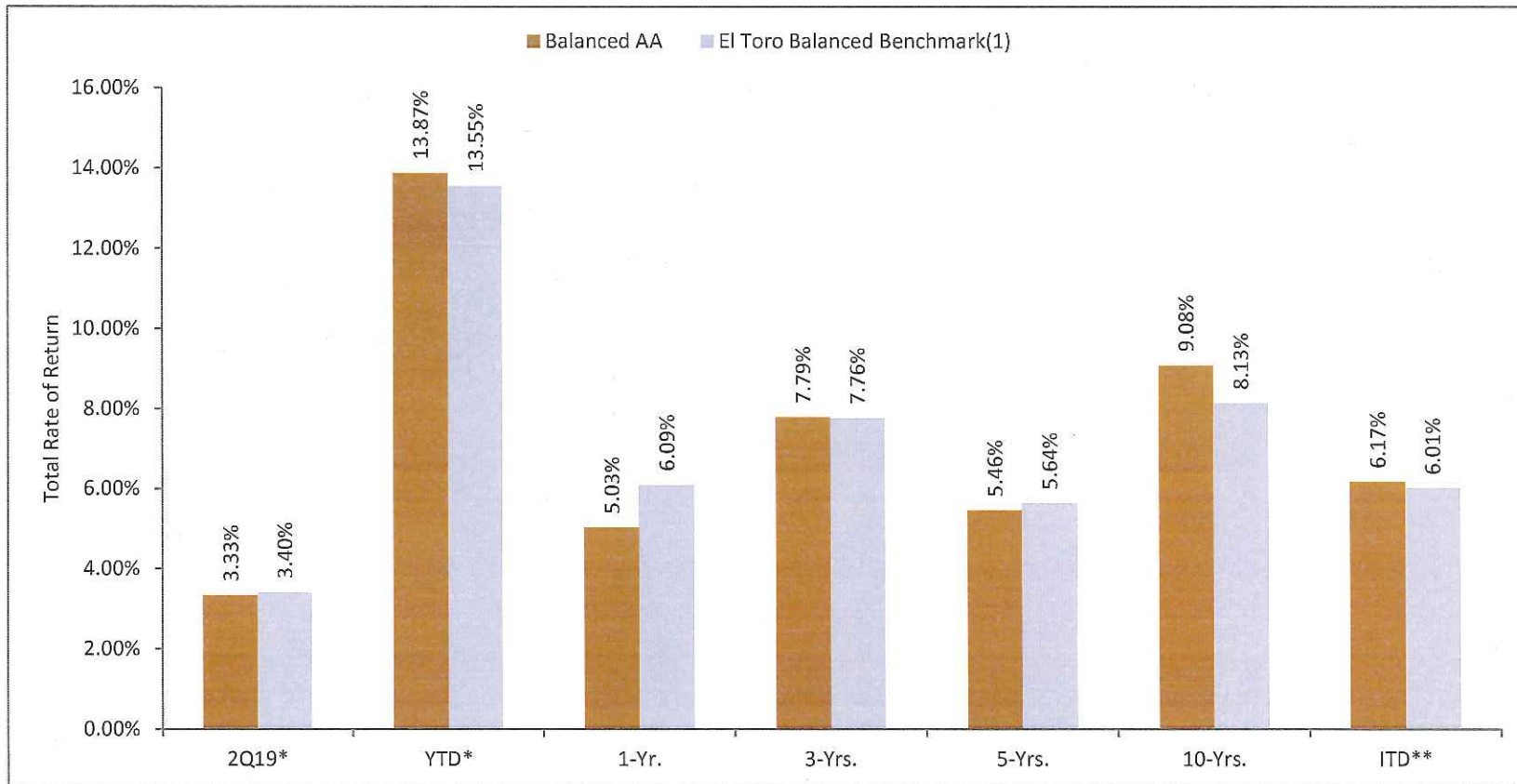
(1) El Toro Bal Inc Benchmark: 36% S&P 500, 4% Russell MidCap, 4% Russell 2000, 12% MSCI EAFE, 4% MSCI Emerging Market, 19% Barclays US Aggregate Bond, 8% Barclays 1-3 Year Government/Credit Bond, 12% Wilshire Liquid Alternatives, 1% ICE BofAML 3 Mo US T-Bill

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 June 30, 2019



*Returns for periods under one year are not annualized

**Inception date: January 2006

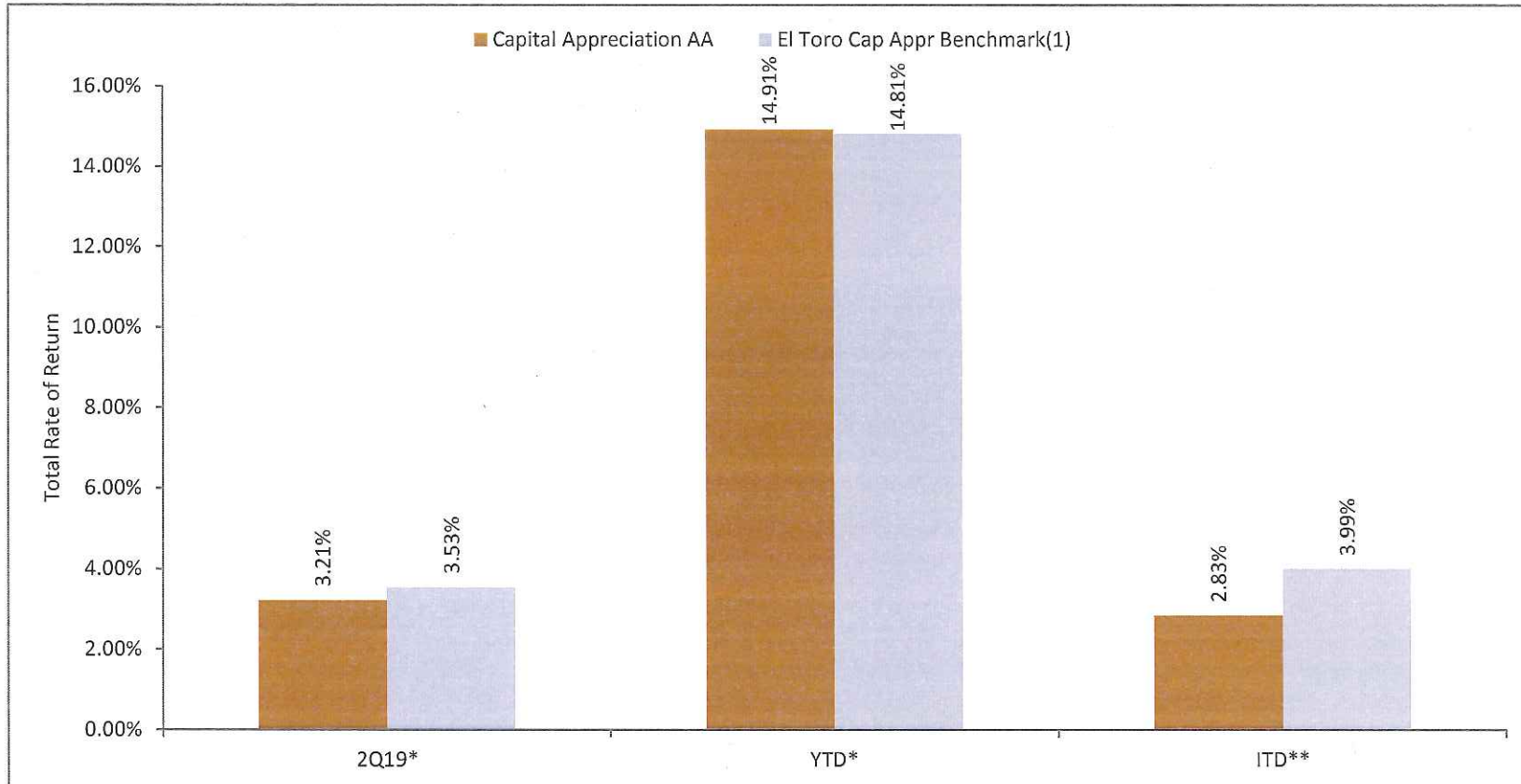
(1) El Toro Balanced Benchmark: 42% S&P 500, 5% Russell MidCap, 5% Russell 2000, 14% MSCI EAFE, 4% MSCI Emerging Market, 14% Barclays US Aggregate Bond, 6% Barclays 1-3 Year Government/Credit Bond, 9% Wilshire Liquid Alternatives, 1% ICE BofAML 3 Mo US T-Bill

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 June 30, 2019



*Returns for periods under one year are not annualized

**Inception date: August 2018

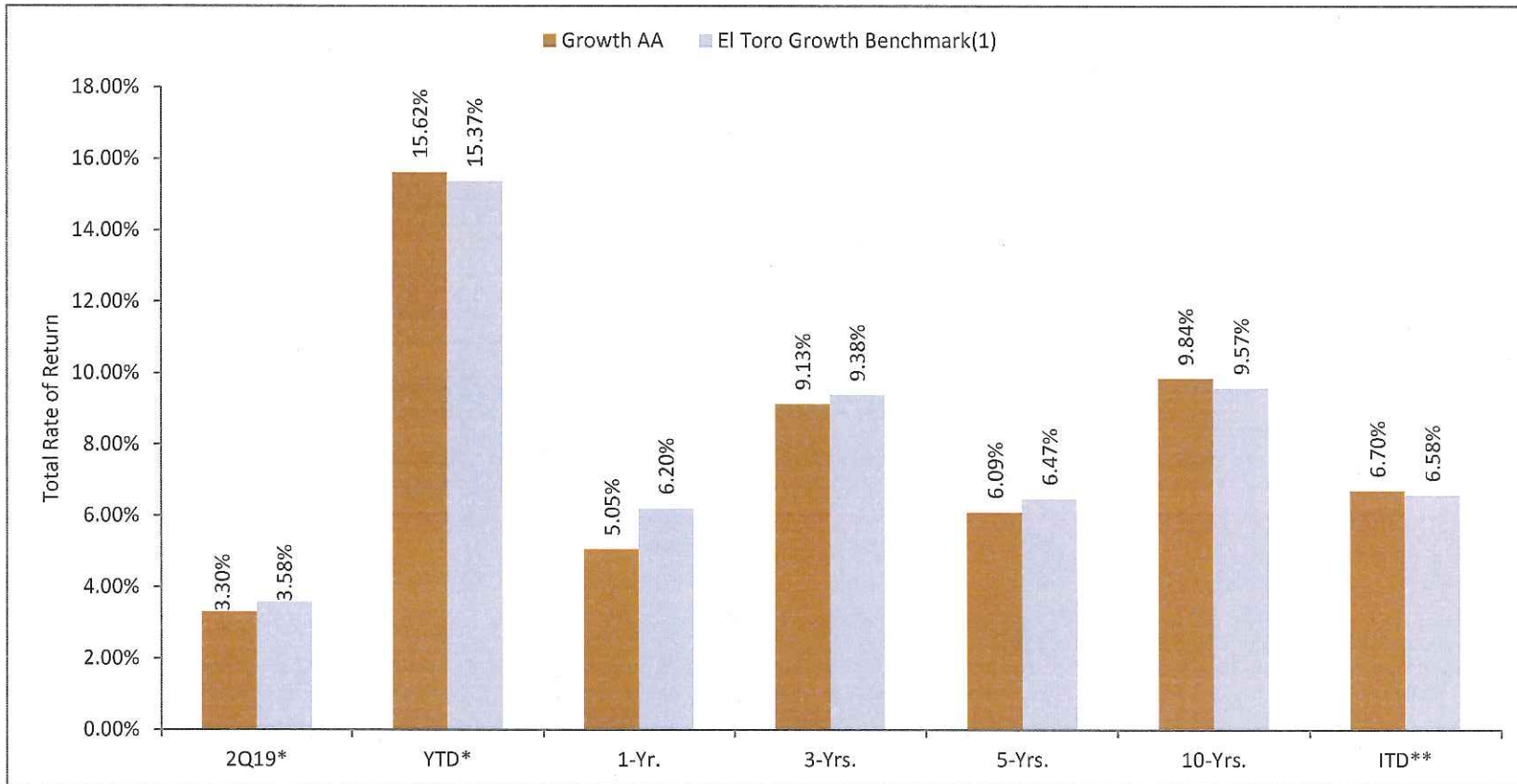
(1) El Toro Cap Appr Benchmark: 48% S&P 500, 6% Russell MidCap, 6% Russell 2000, 16% MSCI EAFE, 4% MSCI Emerging Market, 8% Barclays US Aggregate Bond, 4% Barclays 1-3 year Government/Credit, 7% Wilshire Liquid Alternatives, 1% ICE BofAML 3 Mo US T-Bill

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 June 30, 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 06/30/2019

| 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 | 1.92 | 4.14 | 5.48 | 2.31 | 2.26 | 3.15 |
| Intermediate-Term Bond | | | | | | | | |
| DODIX | Dodge & Cox Income | 4 | 2.79 | 6.59 | 7.58 | 3.69 | 3.27 | 4.90 |
| DBLFX | DoubleLine Core Fixed Income I | 4 | 3.02 | 6.07 | 7.04 | 3.12 | 3.40 | - |
| PTTRX | PIMCO Total Return Instl | 3 | 3.21 | 6.08 | 7.64 | 3.18 | 3.02 | 4.69 |
| PTRQX | PGIM Total Return Bond R6 | 5 | 3.68 | 7.85 | 9.22 | 4.00 | 4.12 | 6.29 |

*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 06/30/2019

| Ticker | Name | MStar Rating* | 3-Mos.** | YTD** | 1-Yr. | 3-Yrs. | 5-Yrs. | 10-Yrs. |
|---------------------|--|------------------|----------|-------|-------|--------|--------|---------|
| Large Blend | | | | | | | | |
| COFYX | Columbia Contrarian Core Inst3 | 3 | 4.68 | 19.57 | 9.75 | 12.20 | 9.69 | 14.39 |
| VGIAX | Vanguard Growth & Income Adm | 4 | 3.69 | 17.50 | 8.93 | 13.49 | 10.53 | 14.67 |
| Large Value | | | | | | | | |
| DODGX | Dodge & Cox Stock | 4 | 2.60 | 13.15 | 4.14 | 14.43 | 8.26 | 14.04 |
| PKAIX | PIMCO RAE US Instl | 3 | 2.21 | 13.86 | 4.66 | 10.33 | - | - |
| Large Growth | | | | | | | | |
| HNACX | Harbor Capital Appreciation Retirement | 4 | 3.05 | 21.17 | 8.12 | 20.28 | 13.65 | 15.93 |
| LSITX | ClearBridge Large Cap Growth IS | 4 | 5.22 | 21.81 | 13.76 | 17.72 | 14.16 | 15.97 |
| Mid Blend | | | | | | | | |
| VO | Vanguard Mid-Cap ETF | 5 | 4.36 | 21.86 | 7.85 | 12.33 | 8.82 | 15.21 |
| Small Blend | | | | | | | | |
| DCZRZ | Delaware Small Cap Core R6 | 4 | 3.36 | 18.56 | -2.86 | 12.65 | 7.92 | 14.74 |
| VB | Vanguard Small-Cap ETF | 5 | 2.87 | 19.52 | 2.27 | 12.38 | 7.72 | 14.79 |

*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 06/30/2019

| Ticker | Name | MStar Rating* | 3-Mos.** | YTD** | 1-Yr. | 3-Yrs. | 5-Yrs. | 10-Yrs. |
|-------------------------------------|---|------------------|----------|-------|-------|--------|--------|---------|
| Small Growth | | | | | | | | |
| RSEJX | Victory RS Small Cap Growth R6 | 5 | 7.09 | 31.55 | 6.58 | 23.13 | 12.74 | 17.25 |
| Small Cap Value | | | | | | | | |
| UBVFX | Undiscovered Managers Behavioral Val R6 | 5 | 2.20 | 16.50 | -4.69 | 9.19 | 7.10 | 15.41 |
| Foreign Large Value | | | | | | | | |
| DODFX | Dodge & Cox International Stock | 4 | 2.81 | 12.87 | -0.31 | 9.31 | 0.42 | 7.41 |
| Foreign Large Blend | | | | | | | | |
| DFALX | DFA Large Cap International I | 3 | 3.28 | 14.11 | 0.32 | 8.96 | 2.05 | 6.79 |
| HEFA | iShares Currency Hedged MSCI EAFE ETF | 5 | 3.32 | 15.57 | 5.18 | 11.28 | 6.67 | - |
| Foreign Large Growth | | | | | | | | |
| MGRDX | MFS International Growth R6 | 4 | 4.92 | 18.15 | 6.54 | 12.85 | 6.17 | 9.40 |
| Diversified Emerging Markets | | | | | | | | |
| HHHYX | Hartford Schrodgers Emerging Mkts Eq Y | 4 | 2.15 | 12.89 | 1.65 | 12.20 | 3.65 | 6.29 |

*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 06/30/2019 | | | | | | |
|----------------------------|---|--|----------|-------|--------|--------|--------|---------|
| Ticker | Name | MStar Rating* | 3-Mos.** | YTD** | 1-Yr. | 3-Yrs. | 5-Yrs. | 10-Yrs. |
| Market Neutral | | | | | | | | |
| QMNIX | AQR Equity Market Neutral I | 2 | -6.46 | -8.46 | -11.62 | -3.35 | - | - |
| BSIKX | BlackRock Strategic Income Opps K | 3 | 2.61 | 5.17 | 5.13 | 4.18 | 2.68 | 5.43 |
| Managed Futures | | | | | | | | |
| AQMIX | AQR Managed Futures Strategy I | 2 | 1.53 | 2.26 | -1.26 | -6.13 | -0.06 | - |
| AMFNX | Natixis ASG Managed Futures Strategy N | 3 | 4.54 | 6.62 | -0.10 | -3.70 | 1.63 | - |
| Merger Arbitrage | | | | | | | | |
| ARBNX | Arbitrage I | 3 | 0.45 | 1.37 | 3.73 | 2.69 | 2.37 | 2.34 |
| Global Macro | | | | | | | | |
| EGRSX | Eaton Vance Gbl Macro Abs Ret Advtg R6 | 3 | 3.39 | 5.89 | 0.57 | 2.17 | 3.43 | - |
| LAOSX | Western Asset Macro Opportunities IS | 5 | 4.43 | 9.38 | 10.26 | 6.43 | 5.23 | - |
| Fund of Hedge Funds | | | | | | | | |
| BXMIX | Blackstone Alternative Multi-Strategy I | 5 | 1.30 | 5.11 | 4.88 | 4.44 | 3.15 | - |
| QSPIX | AQR Style Premia Alternative I | 2 | -5.00 | -5.21 | -10.27 | -2.38 | 1.98 | - |
| REITs | | | | | | | | |
| ICF | iShares Cohen & Steers REIT ETF | 4 | 1.98 | 19.29 | 16.02 | 4.74 | 8.83 | 15.78 |

*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 | Exp Ratio | MStar Rtg* | Annualized Total Rate of Return (%) as of 06/30/2019 | | | | | | | | | | | | | | | | | | | | Lipper Category |
|-------------------------------|--|-----------|------------|--|------------|-------------|---------|------------|-------------|---------|------------|-------------|---------|------------|-------------|---------|------------|-------------|----------|------------|-------------|------------|---------|---------------------------------|
| | | | | 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 | 1.92 | 11 | 3 | 4.14 | 15 | 3 | 5.48 | 11 | 3 | 2.31 | 25 | 30 | 2.26 | 12 | 11 | 3.15 | 20 | 17 | 0.69 | 1.29 | Lipper Sht Inv Grade Debt Funds |
| Peer Group | US Fund Short-Term Bond | | | 1.48 | | | 3.20 | | | 4.19 | | | 1.97 | | | 1.60 | | | 2.48 | | | 0.46 | 1.09 | |
| Index | BBgBarc US Govt/Credit 1-3 Yr TR USD | | | 1.48 | | | 2.71 | | | 4.27 | | | 1.59 | | | 1.46 | | | 1.59 | | | 0.15 | 0.91 | |
| Intermediate-Term Bond | | | | | | | | | | | | | | | | | | | | | | | | |
| DBLFX | DoubleLine Core Fixed Income I | 0.42 | 4 | 3.02 | 49 | 56 | 6.07 | 73 | 81 | 7.04 | 69 | 81 | 3.12 | 36 | 46 | 3.40 | 16 | 23 | - | - | n.a. | 0.69 | 2.44 | Lipper Core Plus Bond Funds |
| DODIX | Dodge & Cox Income | 0.42 | 4 | 2.79 | 72 | 83 | 6.59 | 52 | 51 | 7.58 | 49 | 51 | 3.69 | 14 | 3 | 3.27 | 22 | 10 | 4.90 | 44 | 20 | 0.97 | 2.29 | Lipper Core Bond Funds |
| PTTRX | PIMCO Total Return Instl | 0.71 | 3 | 3.21 | 30 | 42 | 6.08 | 72 | 58 | 7.64 | 46 | 58 | 3.18 | 34 | 44 | 3.02 | 42 | 45 | 4.69 | 55 | 62 | 0.60 | 2.89 | Lipper Core Plus Bond Funds |
| PTRQX | PGIM Total Return Bond R6 | 0.41 | 5 | 3.68 | 4 | 8 | 7.85 | 6 | 6 | 9.22 | 4 | 6 | 4.00 | 8 | 11 | 4.12 | 4 | 5 | 6.29 | 9 | n.a. | 0.74 | 3.44 | Lipper Core Plus Bond Funds |
| Peer Group | US Fund Intermediate Core Bond | | | 2.83 | | | 5.77 | | | 7.24 | | | 2.09 | | | 2.55 | | | 3.86 | | | 0.23 | 2.81 | |
| Index | BBgBarc US Agg Bond TR USD | | | 3.08 | | | 6.11 | | | 7.87 | | | 2.31 | | | 2.95 | | | 3.90 | | | 0.30 | 3.03 | |

*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 | Exp Ratio | MStar Rtg* | Annualized Total Rate of Return (%) as of 06/30/2019 | | | | | | | | | | | | | | | | | | 3 Yr SD | Lipper Category | |
|---------------------|--|-----------|------------|--|------------|-------------|---------|------------|-------------|---------|------------|-------------|---------|------------|-------------|---------|------------|-------------|----------|------------|-------------|---------|-----------------|-------------------------------|
| | | | | 3-Mos** | | | YTD** | | | 1-Year | | | 3-Years | | | 5-Years | | | 10-Years | | | | | 3 Yr |
| | | | | 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 | Shrp% | | |
| Large Blend | | | | | | | | | | | | | | | | | | | | | | | | |
| COFYX | Columbia Contrarian Core Inst3 | 0.63 | 3 | 4.68 | 22 | 32 | 19.57 | 15 | 42 | 9.75 | 39 | 42 | 12.20 | 65 | 67 | 9.69 | 40 | 41 | 14.39 | 23 | n.a. | 0.86 | 12.70 | Lipper Large-Cap Core Funds |
| VGIAX | Vanguard Growth & Income Adm | 0.23 | 4 | 3.69 | 65 | 67 | 17.50 | 59 | 54 | 8.93 | 49 | 54 | 13.49 | 42 | 43 | 10.53 | 17 | 19 | 14.67 | 10 | 13 | 0.97 | 12.36 | Lipper Large-Cap Core Funds |
| Peer Group | US Fund Large Blend | | | 3.81 | | | 17.21 | | | 8.20 | | | 12.53 | | | 8.76 | | | 13.24 | | | 0.90 | 12.48 | |
| Index | Russell 1000 TR USD | | | 4.25 | | | 18.84 | | | 10.02 | | | 14.15 | | | 10.45 | | | 14.77 | | | 1.02 | 12.32 | |
| Index | S&P 500 TR USD | | | 4.30 | | | 18.54 | | | 10.42 | | | 14.19 | | | 10.71 | | | 14.70 | | | 1.03 | 12.19 | |
| Large Value | | | | | | | | | | | | | | | | | | | | | | | | |
| DODGX | Dodge & Cox Stock | 0.52 | 4 | 2.60 | 68 | 75 | 13.15 | 78 | 79 | 4.14 | 67 | 79 | 14.43 | 4 | 3 | 8.26 | 24 | 14 | 14.04 | 11 | 6 | 0.94 | 13.78 | Lipper Large-Cap Value Funds |
| PKAIX | PIMCO RAE US Instl | 0.41 | 3 | 2.21 | 75 | 77 | 13.86 | 69 | 34 | 4.66 | 63 | 34 | 10.33 | 50 | 41 | - | - | n.a. | - | - | n.a. | 0.72 | 12.68 | Lipper Large-Cap Core Funds |
| Peer Group | US Fund Large Value | | | 3.02 | | | 14.59 | | | 5.79 | | | 10.12 | | | 6.84 | | | 12.20 | | | 0.72 | 12.54 | |
| Index | Russell 1000 Value TR USD | | | 3.84 | | | 16.24 | | | 8.46 | | | 10.19 | | | 7.46 | | | 13.19 | | | 0.74 | 12.11 | |
| Large Growth | | | | | | | | | | | | | | | | | | | | | | | | |
| HNACX | Harbor Capital Appreciation Retirement | 0.57 | 4 | 3.05 | 85 | 91 | 21.17 | 49 | 79 | 8.12 | 70 | 79 | 20.28 | 16 | 17 | 13.65 | 18 | n.a. | 15.93 | 24 | n.a. | 1.21 | 15.00 | Lipper Large-Cap Growth Funds |
| LSITX | ClearBridge Large Cap Growth IS | 0.65 | 4 | 5.22 | 35 | 39 | 21.81 | 38 | 19 | 13.76 | 18 | 19 | 17.72 | 39 | 50 | 14.16 | 13 | 16 | 15.97 | 23 | n.a. | 1.21 | 13.10 | Lipper Large-Cap Growth Funds |
| Peer Group | US Fund Large Growth | | | 4.63 | | | 21.11 | | | 10.02 | | | 16.97 | | | 11.33 | | | 14.71 | | | 1.10 | 13.85 | |
| Index | Russell 1000 Growth TR USD | | | 4.64 | | | 21.49 | | | 11.56 | | | 18.07 | | | 13.39 | | | 16.28 | | | 1.20 | 13.40 | |
| Mid Core | | | | | | | | | | | | | | | | | | | | | | | | |
| VO | Vanguard Mid-Cap ETF | 0.04 | 5 | 4.36 | 23 | 38 | 21.86 | 7 | 18 | 7.85 | 18 | 18 | 12.33 | 24 | 20 | 8.82 | 11 | 15 | 15.21 | 6 | 6 | 0.84 | 13.21 | Lipper Mid-Cap Core Funds |
| Peer Group | US Fund Mid-Cap Blend | | | 3.04 | | | 17.52 | | | 2.41 | | | 9.98 | | | 6.04 | | | 12.87 | | | 0.64 | 14.25 | |
| Index | Russell Mid Cap TR USD | | | 4.13 | | | 21.35 | | | 7.83 | | | 12.16 | | | 8.63 | | | 15.16 | | | 0.81 | 13.43 | |

*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 | Exp Ratio | MStar Rtg* | Annualized Total Rate of Return (%) as of 06/30/2019 | | | | | | | | | | | | | | | | | | Lipper Category | | |
|---------------------|---|-----------|------------|--|------------|-------------|---------|------------|-------------|---------|------------|-------------|---------|------------|-------------|---------|------------|-------------|----------|------------|-------------|-----------------|------------|-------------------------------|
| | | | | 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 | 2.20 | 22 | 52 | 16.50 | 15 | 61 | -4.69 | 23 | 61 | 9.19 | 26 | 59 | 7.10 | 6 | 28 | 15.41 | 1 | n.a. | 0.50 | 17.83 | Lipper Small-Cap Value Funds |
| Peer Group | US Fund Small Value | | | 0.63 | | | 12.92 | | | -8.05 | | | 7.69 | | | 3.59 | | | 11.65 | | | 0.42 | 17.83 | |
| Index | Russell 2000 Value TR USD | | | 1.38 | | | 13.47 | | | -6.24 | | | 9.81 | | | 5.39 | | | 12.40 | | | 0.54 | 17.33 | |
| Small Blend | | | | | | | | | | | | | | | | | | | | | | | | |
| DCZRX | Delaware Small Cap Core R6 | 0.74 | 4 | 3.36 | 26 | 26 | 18.56 | 23 | 41 | -2.86 | 39 | 41 | 12.65 | 13 | 16 | 7.92 | 12 | n.a. | 14.74 | 6 | n.a. | 0.68 | 17.53 | Lipper Small-Cap Core Funds |
| VB | Vanguard Small-Cap ETF | 0.05 | 5 | 2.87 | 34 | 36 | 19.52 | 15 | 13 | 2.27 | 13 | 13 | 12.38 | 16 | 19 | 7.72 | 14 | 17 | 14.79 | 5 | 6 | 0.73 | 15.57 | Lipper Small-Cap Core Funds |
| Peer Group | US Fund Small Blend | | | 2.21 | | | 15.74 | | | -3.76 | | | 10.09 | | | 5.65 | | | 12.70 | | | 0.57 | 16.79 | |
| Index | Russell 2000 TR USD | | | 2.10 | | | 16.98 | | | -3.31 | | | 12.30 | | | 7.06 | | | 13.45 | | | 0.68 | 17.11 | |
| Small Growth | | | | | | | | | | | | | | | | | | | | | | | | |
| RSEJX | Victory RS Small Cap Growth R6 | 1.06 | 5 | 7.09 | 16 | 20 | 31.55 | 6 | 20 | 6.58 | 34 | 42 | 23.13 | 10 | n.a. | 12.74 | 11 | n.a. | 17.25 | 6 | n.a. | 1.20 | 17.51 | Lipper Small-Cap Growth Funds |
| Peer Group | US Fund Small Growth | | | 4.12 | | | 21.82 | | | 3.22 | | | 16.12 | | | 9.18 | | | 14.47 | | | 0.87 | 17.24 | |
| Index | Russell 2000 Growth TR USD | | | 2.75 | | | 20.36 | | | -0.49 | | | 14.69 | | | 8.63 | | | 14.41 | | | 0.79 | 17.44 | |

*Morningstar overall rating

**Returns for periods under one year are not annualized

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Source: Morningstar Direct; Wilshire Compass (Lipper Rankings)

INVESTMENT RETURNS & RANKINGS - EQUITY FUNDS

El Toro Water District - 401(k) Plan

| Ticker | Name | Exp Ratio | MStar Rtg* | Annualized Total Rate of Return (%) as of 06/30/2019 | | | | | | | | | | | | | | | | | | Lipper Category | | |
|-------------------------------------|--|-----------|------------|--|------------|-------------|---------|------------|-------------|---------|------------|-------------|---------|------------|-------------|---------|------------|-------------|----------|------------|-------------|-----------------|------------|---------------------------------------|
| | | | | 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 | 0.3 | 3 | 3.28 | 43 | 41 | 14.11 | 35 | 40 | 0.32 | 48 | 40 | 8.96 | 29 | 23 | 2.05 | 52 | 47 | 6.79 | 38 | 36 | 0.68 | 11.40 | Lipper International Large-Cap Core |
| HEFA | iShares Currency Hedged MSCI EAFE ETF | 0.03 | 5 | 3.32 | 41 | 10 | 15.57 | 12 | 3 | 5.18 | 5 | 3 | 11.28 | 3 | 4 | 6.67 | 1 | 2 | - | - | n.a. | 0.99 | 9.80 | Lipper International Multi-Cap Core |
| Peer Group | US Fund Foreign Large Blend | | | 2.97 | | | 13.58 | | | -0.06 | | | 8.13 | | | 2.03 | | | 6.44 | | | 0.61 | 11.53 | |
| Peer Group | US Fund Europe Stock | | | 4.47 | | | 15.85 | | | 0.72 | | | 8.75 | | | 1.86 | | | 7.19 | | | 0.60 | 12.83 | |
| Index | MSCI EAFE NR USD | | | 3.68 | | | 14.03 | | | 1.08 | | | 9.11 | | | 2.25 | | | 6.90 | | | 0.71 | 11.08 | |
| Index | MSCI ACWI Ex USA NR USD | | | 2.98 | | | 13.60 | | | 1.29 | | | 9.39 | | | 2.16 | | | 6.54 | | | 0.71 | 11.40 | |
| Foreign Large Value | | | | | | | | | | | | | | | | | | | | | | | | |
| DODFX | Dodge & Cox International Stock | 0.63 | 4 | 2.81 | 16 | 49 | 12.87 | 10 | 53 | -0.31 | 28 | 53 | 9.31 | 10 | 24 | 0.42 | 42 | 71 | 7.41 | 12 | 12 | 0.61 | 13.70 | Lipper International Large-Cap Growth |
| Peer Group | US Fund Foreign Large Value | | | 1.72 | | | 10.52 | | | -2.01 | | | 6.84 | | | 0.08 | | | 5.67 | | | 0.50 | 11.62 | |
| Index | MSCI EAFE Value NR USD | | | 1.54 | | | 9.58 | | | -2.10 | | | 8.46 | | | 0.05 | | | 5.50 | | | 0.64 | 11.40 | |
| Index | MSCI ACWI Ex USA Value NR USD | | | 1.57 | | | 10.02 | | | -0.07 | | | 8.93 | | | 0.29 | | | 5.43 | | | 0.68 | 11.36 | |
| Foreign Large Growth | | | | | | | | | | | | | | | | | | | | | | | | |
| MGRDX | MFS International Growth R6 | 0.79 | 4 | 4.92 | 47 | 34 | 18.15 | 53 | 19 | 6.54 | 17 | 19 | 12.85 | 13 | 5 | 6.17 | 16 | 9 | 9.40 | 17 | 7 | 0.98 | 11.51 | Lipper International Multi-Cap Growth |
| Peer Group | US Fund Foreign Large Growth | | | 4.81 | | | 18.29 | | | 2.25 | | | 9.63 | | | 4.09 | | | 8.20 | | | 0.63 | 12.46 | |
| Index | MSCI EAFE Growth NR USD | | | 5.73 | | | 18.47 | | | 4.24 | | | 9.68 | | | 4.39 | | | 8.23 | | | 0.73 | 11.69 | |
| Index | MSCI ACWI Ex USA Growth NR USD | | | 4.35 | | | 17.20 | | | 2.64 | | | 9.81 | | | 4.00 | | | 7.61 | | | 0.71 | 12.13 | |
| Diversified Emerging Markets | | | | | | | | | | | | | | | | | | | | | | | | |
| HHHYX | Hartford Schrodgers Emerging Mkts Eq Y | 1.11 | 4 | 2.15 | 34 | 37 | 12.89 | 37 | 43 | 1.65 | 44 | 43 | 12.20 | 13 | n.a. | 3.65 | 13 | n.a. | 6.29 | 34 | n.a. | 0.77 | 14.32 | Lipper Emerging Markets Funds |
| Peer Group | US Fund Diversified Emerging Mkts | | | 1.56 | | | 12.06 | | | 1.16 | | | 8.92 | | | 1.71 | | | 5.82 | | | 0.58 | 13.60 | |
| Index | MSCI EM NR USD | | | 0.61 | | | 10.58 | | | 1.21 | | | 10.66 | | | 2.49 | | | 5.81 | | | 0.69 | 13.85 | |

*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 | Exp Ratio | MStar Rtg* | 3-Mos** | | YTD** | | | 1-Year | | | 3-Years | | | 5-Years | | | 10-Years | | | 3 Yr Shrp% | 3 Yr SD | Lipper Category | |
|----------------------------|---|-----------|------------|---------|------------|-------------|---------|------------|-------------|---------|------------|-------------|---------|------------|-------------|---------|------------|-------------|---------|------------|------------|---------|-----------------|---------------------------------|
| | | | | 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 | -6.46 | 98 | 96 | -8.46 | 91 | 93 | -11.62 | 98 | 93 | -3.35 | 85 | 75 | - | - | n.a. | - | - | n.a. | -0.75 | 6.09 | Lipper Alt Equity Mkt Neutral |
| BSIKX | BlackRock Strategic Income Opps K | 1 | 3 | 2.61 | 13 | 19 | 5.17 | 42 | 31 | 5.13 | 29 | 31 | 4.18 | 39 | 50 | 2.68 | 35 | n.a. | 5.43 | 20 | n.a. | 1.47 | 1.77 | Lipper Alt Credit Focus Funds |
| Managed Futures | | | | | | | | | | | | | | | | | | | | | | | | |
| AQMIX | AQR Managed Futures Strategy I | 1.16 | 2 | 1.53 | 60 | 64 | 2.26 | 54 | 75 | -1.26 | 75 | 75 | -6.13 | 91 | 91 | -0.06 | 74 | 81 | - | - | n.a. | -0.95 | 7.86 | Lipper Alt Managed Futures |
| AMFNX | Natixis ASG Managed Futures Strategy N | 1.36 | 3 | 4.54 | 18 | 21 | 6.62 | 24 | 61 | -0.10 | 56 | 61 | -3.70 | 76 | n.a. | 1.63 | 46 | n.a. | - | - | n.a. | -0.40 | 11.49 | Lipper Alt Managed Futures |
| Merger Arbitrage | | | | | | | | | | | | | | | | | | | | | | | | |
| ARBNX | Arbitrage I | 1.65 | 3 | 0.45 | 44 | 68 | 1.37 | 45 | 51 | 3.73 | 29 | 51 | 2.69 | 36 | 63 | 2.37 | 25 | 49 | 2.34 | 42 | 85 | 0.65 | 1.87 | Lipper Alt Event Driven Funds |
| Global Macro | | | | | | | | | | | | | | | | | | | | | | | | |
| EGRSX | Eaton Vance Gbl Macro Abs Ret Advtg R6 | 1.1 | 3 | 3.39 | 7 | 19 | 5.89 | 30 | 80 | 0.57 | 88 | 80 | 2.17 | 79 | n.a. | 3.43 | 16 | n.a. | - | - | n.a. | 0.19 | 3.93 | Lipper Alt Global Macro Funds |
| LAOSX | Western Asset Macro Opportunities IS | 1.21 | 5 | 4.43 | 2 | 2 | 9.38 | 6 | 1 | 10.26 | 1 | 1 | 6.43 | 9 | 18 | 5.23 | 2 | 1 | - | - | n.a. | 0.79 | 6.32 | Lipper Alt Credit Focus Funds |
| Fund of Hedge Funds | | | | | | | | | | | | | | | | | | | | | | | | |
| BXMIX | Blackstone Alternative Multi-Strategy I | 3.19 | 5 | 1.30 | 48 | 48 | 5.11 | 53 | 14 | 4.88 | 20 | 14 | 4.44 | 22 | 18 | 3.15 | 7 | 6 | - | - | n.a. | 0.86 | 3.39 | Lipper Alt Multi-Strategy Funds |
| QSPIX | AQR Style Premia Alternative I | 2.24 | 2 | -5.00 | 100 | 98 | -5.21 | 99 | 99 | -10.27 | 98 | 99 | -2.38 | 97 | 94 | 1.98 | 26 | 44 | - | - | n.a. | -0.59 | 6.19 | Lipper Absolute Return |
| REITs | | | | | | | | | | | | | | | | | | | | | | | | |
| ICF | iShares Cohen & Steers REIT ETF | 0.34 | 4 | 1.98 | 49 | 54 | 19.29 | 30 | 33 | 16.02 | 4 | 33 | 4.74 | 45 | 3 | 8.83 | 12 | 42 | 15.78 | 19 | 13 | 0.32 | 12.62 | 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% | 49% | 48% | 48% | 67% | 84% | | |
| Large Cap Blend | 3.23% | 5.70% | 8.09% | 7.46% | 7.39% | 10.32% | 11.97% | COFYX | Columbia Contrarian Core Inst3 |
| | 3.20% | 5.67% | 8.35% | 7.40% | 7.28% | 10.17% | 11.86% | VGIAX | Vanguard Growth & Income Adm |
| Large Cap Growth | 1.32% | 2.28% | 3.25% | 3.36% | 3.14% | 5.17% | 6.02% | HNACX | Harbor Capital Appreciation Retirement |
| | 1.20% | 2.08% | 2.93% | 3.05% | 3.10% | 4.69% | 5.89% | LSITX | ClearBridge Large Cap Growth IS |
| Large Cap Value | 1.26% | 2.18% | 3.09% | 3.20% | 3.15% | 5.03% | 5.95% | PKAIX | PIMCO RAE US Instl |
| | 1.24% | 2.15% | 3.06% | 3.16% | 3.12% | 4.91% | 5.88% | DODGX | Dodge & Cox Stock |
| Mid Cap Blend | 0.35% | 0.09% | 1.02% | 1.27% | 1.69% | 0.85% | 3.50% | VO | Vanguard Mid-Cap ETF |
| Small Cap Blend | 0.54% | 1.24% | 1.14% | 1.02% | 1.14% | 1.69% | 2.09% | DCZRX | Delaware Small Cap Core R6 |
| | 0.37% | 0.46% | 1.13% | 1.01% | 1.17% | 1.67% | 2.09% | VB | Vanguard Small-Cap ETF |
| Small Cap Growth | 0.95% | 1.62% | 2.40% | 2.37% | 2.28% | 3.09% | 4.01% | RSEJX | Victory RS Small Cap Growth R6 |
| Small Cap Value | 0.96% | 1.60% | 2.38% | 2.37% | 2.24% | 3.05% | 3.96% | UBVFX | Undiscovered Managers Behavioral Val R6 |
| Foreign Large Blend | 1.05% | 1.65% | 1.57% | 1.54% | 1.34% | 2.07% | 3.34% | HEFA | iShares Currency Hedged MSCI EAFE ETF |
| | 1.49% | 3.02% | 5.01% | 4.74% | 5.05% | 6.66% | 6.75% | DFALX | DFA Large Cap International I |
| Foreign Large Growth | 0.55% | 0.94% | 1.18% | 1.16% | 1.15% | 1.63% | 2.60% | MGRDX | MFS International Growth R6 |
| Foreign Large Value | 0.52% | 0.88% | 1.27% | 1.09% | 1.16% | 1.65% | 2.32% | DODFX | Dodge & Cox International Stock |
| Emerging Markets | 1.40% | 2.50% | 3.51% | 3.31% | 3.37% | 4.64% | 5.98% | HHYX | Hartford Schroders Emerging Mkts Eq Y |
| Alternatives | 13% | 11% | 11% | 8% | 5% | 5% | 4% | | |
| Global Macro | 1.72% | 1.27% | 1.43% | 1.04% | 0.65% | 0.59% | 0.49% | EGRSX | Eaton Vance Gbl Macro Abs Ret Advtg R6 |
| | 1.82% | 1.37% | 1.55% | 1.12% | 0.70% | 0.63% | 0.52% | LAOSX | Western Asset Macro Opportunities IS |
| Managed Futures | 1.29% | 1.30% | 1.30% | 0.89% | 0.50% | 0.51% | 0.40% | AQMIX | AQR Managed Futures Strategy I |
| | 1.37% | 1.31% | 1.32% | 0.91% | 0.51% | 0.52% | 0.42% | AMFNX | Natixis ASG Managed Futures Strategy N |
| Merger/Arbitrage | 1.43% | 1.18% | 1.38% | 1.00% | 0.57% | 0.54% | 0.48% | ARBFX | Arbitrage I |
| Market Neutral | 0.61% | 0.47% | 0.55% | 0.39% | 0.20% | 0.21% | 0.18% | QMNIX | AQR Equity Market Neutral I |
| | 0.85% | 0.75% | 0.75% | 0.58% | 0.34% | 0.34% | 0.31% | BSIKX | BlackRock Strategic Income Opps K |
| Multi-Strategy / Fund of Funds | 1.56% | 1.18% | 1.28% | 1.02% | 0.61% | 0.54% | 0.49% | BXMIX | Blackstone Alternative Multi-Strategy I |
| | 1.32% | 1.06% | 1.24% | 0.82% | 0.50% | 0.40% | 0.41% | QSPIX | AQR Style Premia Alternative I |
| REITs | 1.26% | 1.00% | 0.61% | 0.50% | 0.32% | 0.35% | 0.26% | ICF | iShares Cohen & Steers REIT ETF |
| Fixed Income | 63% | 52% | 36% | 21% | 13% | 9% | 8% | | |
| Short Term Bond | 10.80% | 7.39% | 6.52% | 3.96% | 2.67% | 0.94% | 0.29% | VFSUX | Vanguard Short-Term Investment-Grade Adm |
| Intermediate-Term Bond | 13.08% | 11.18% | 7.21% | 4.28% | 2.70% | 1.95% | 1.86% | DBLFX | DoubleLine Core Fixed Income I |
| | 13.10% | 11.20% | 7.23% | 4.31% | 2.71% | 1.96% | 1.86% | PTTRX | PIMCO Total Return Instl |
| | 13.32% | 11.25% | 7.35% | 4.38% | 2.72% | 1.99% | 1.89% | PTRQX | PGIM Total Return Bond R6 |
| | 13.11% | 11.21% | 7.24% | 4.29% | 2.70% | 1.96% | 1.86% | DODIX | Dodge & Cox Income |
| Cash | 4% | 3% | 4% | 23% | 34% | 19% | 4% | | |
| Cash & Equivalents | 3.73% | 2.85% | 3.68% | 22.99% | 33.82% | 19.28% | 4.06% | 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

Account Number: 6721011389
 Data as of: 06/30/2019






Portfolio Manager:
 Keith Stribling, CFA

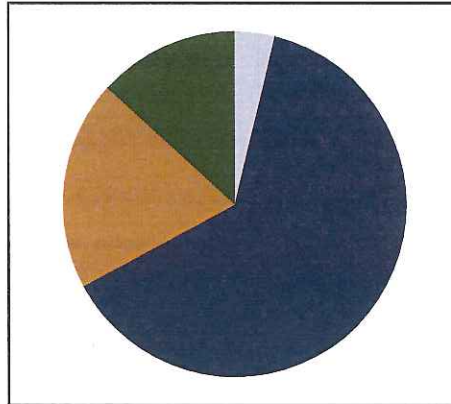
Account Snapshot

| Asset Class | Market Value | Tax Cost | Est. Annual Income | Current Yield (%) |
|--------------------|-----------------------|-----------------------|--------------------|-------------------|
| Cash & Equivalents | \$108,013.08 | \$108,013.08 | \$286.23 | 0.27% |
| Fixed Income | \$1,837,992.19 | \$1,821,901.53 | \$59,183.35 | 3.22% |
| Equities | \$568,982.33 | \$522,781.04 | \$8,739.57 | 1.54% |
| Alternatives | \$383,641.02 | \$390,734.41 | \$3,966.85 | 1.03% |
| Other | \$0.00 | \$0.00 | \$0.00 | 0.00% |
| Total | \$2,898,628.62 | \$2,843,430.06 | \$72,176.00 | 2.49% |

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

Asset Allocation

| | |
|---|-------------------------|
|  | 3.7% Cash & Equivalents |
|  | 63.4% Fixed Income |
|  | 19.6% Equities |
|  | 13.2% Alternatives |
|  | 0.0% Other |



Income Summary (1, 2)

| | |
|---|-----------------|
| Cash & Equivalents Income Earned YTD | \$693 |
| Taxable Fixed Income Income Earned YTD | \$15,122 |
| Tax-Exempt Fixed Income Income Earned YTD | \$0 |
| Equity Income Earned YTD | \$1,353 |
| Alternative Income Earned YTD | \$194 |
| Other Income Earned YTD | \$0 |
| Total | \$17,362 |

Net Gain/Loss Summary (3)

| | Realized | Unrealized |
|--------------------------|----------------|-----------------|
| Net Short Term Gain/Loss | \$2,830 | |
| Net Long Term Gain/Loss | -\$368 | |
| Total | \$2,462 | \$55,199 |

(1) As of 06/30/2019

(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 Second 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 | (4,792.1200) | (\$4,792.12) | 1.00 | (\$4,792.12) | -4.44% | -0.17% |
| FPZXX | n.a. | CASH FUND | 112,805.20 | \$112,805.20 | 1.00 | \$112,805.20 | 104.44% | 3.89% |
| TOTAL CASH | | | | \$108,013.08 | | \$108,013.08 | | 3.73% T |
| FIXED INCOME | | | | | | | | |
| Short-Term Bond Funds | | | | | | | | |
| VFSUX | 922031836 | Vanguard Short-Term Investment-Grade Adm | 29,222.76 | 309,677.63 | 10.71 | 312,975.78 | 17.03% | 10.80% |
| | | | | \$309,677.63 | | \$312,975.78 | | 10.80% T |
| Intermediate-Term Bond Funds | | | | | | | | |
| DBLFX | 258620301 | DoubleLine Core Fixed Income I | 34,267.62 | 372,143.89 | 11.06 | 378,999.89 | 20.62% | 13.08% |
| DODIX | 256210105 | Dodge & Cox Income | 27,327.21 | 374,917.46 | 13.91 | 380,121.42 | 20.68% | 13.11% |
| PTRQX | 74440B884 | PGIM Total Return Bond R6 | 26,166.39 | 381,156.60 | 14.76 | 386,215.90 | 21.01% | 13.32% |
| PTTRX | 693390700 | PIMCO Total Return Instl | 36,683.98 | 384,005.95 | 10.35 | 379,679.20 | 20.66% | 13.10% |
| | | | | \$1,512,223.90 | | \$1,525,016.41 | | 52.61% T |
| TOTAL FIXED INCOME | | | | \$1,821,901.53 | | \$1,837,992.19 | | 63.41% T |
| EQUITY | | | | | | | | |
| Large Cap Blend Funds | | | | | | | | |
| COFYX | 19766M709 | Columbia Contrarian Core Inst3 | 3,580.26 | 81,475.22 | 26.15 | 93,623.67 | 16.45% | 3.23% |
| VGIAX | 921913208 | Vanguard Growth & Income Adm | 1,166.35 | 83,856.03 | 79.53 | 92,759.66 | 16.30% | 3.20% |
| | | | | \$165,331.25 | | \$186,383.33 | | 6.43% T |
| Large Cap Value Funds | | | | | | | | |
| DODGX | 256219106 | Dodge & Cox Stock | 192.62 | 35,782.77 | 187.1 | 36,038.27 | 6.33% | 1.24% |
| PKAIX | 72202L462 | PIMCO RAE US Instl | 3,286.68 | 35,422.98 | 11.09 | 36,449.24 | 6.41% | 1.26% |
| | | | | \$71,205.75 | | \$72,487.51 | | 2.50% T |
| Large Cap Growth Funds | | | | | | | | |
| HNACX | 411512528 | Harbor Capital Appreciation Retirement | 509.20 | 33,080.17 | 75.03 | 38,205.50 | 6.71% | 1.32% |
| LSITX | 52469H255 | ClearBridge Large Cap Growth IS | 657.42 | 29,777.51 | 52.84 | 34,737.91 | 6.11% | 1.20% |
| | | | | \$62,857.68 | | \$72,943.41 | | 2.52% T |

HOLDINGS REPORT

El Toro Water District 401(k) - Capital Preservation

As of Second Quarter 2019

| TICKER | CUSIP | ASSET NAME | SHARES/UNITS | COST BASIS | PRICE | MARKET VALUE (MV) | MV AS % OF ASSET TYPE | MV AS % OF TOTAL |
|-------------------------------------|-----------|---|--------------|--------------------|---------------------|--------------------|-----------------------|------------------|
| Mid Cap Blend Funds | | | | | | | | |
| VO | 922908629 | Vanguard Mid-Cap ETF | 60.00 | 9,520.97 | 167.16 | 10,029.60 | 1.76% | 0.35% T |
| Small Cap Value Funds | | | | | | | | |
| UBVFX | 904504479 | Undiscovered Managers Behavioral Val R6 | 446.61 | 29,353.40 | 62.36 | 27,850.72 | 4.89% | 0.96% T |
| Small Cap Blend Funds | | | | | | | | |
| DCZR | 246108826 | Delaware Small Cap Core R6 | 684.70 | 16,456.76 | 22.74 | 15,570.06 | 2.74% | 0.54% |
| VB | 922908751 | Vanguard Small-Cap ETF | 68.00 | 10,033.06 | 156.66 | 10,652.88 | 1.87% | 0.37% |
| | | | | <u>\$26,489.82</u> | | <u>\$26,222.94</u> | | 0.90% T |
| Small Cap Growth Funds | | | | | | | | |
| RSEJX | 92647Q363 | Victory RS Small Cap Growth R6 | 327.97 | 26,483.85 | 83.97 | 27,539.89 | 4.84% | 0.95% T |
| Foreign Large Value Funds | | | | | | | | |
| DODFX | 256206103 | Dodge & Cox International Stock | 365.11 | 15,092.06 | 41.66 | 15,210.65 | 2.67% | 0.52% T |
| Foreign Large Blend Funds | | | | | | | | |
| DFALX | 233203868 | DFA Large Cap International I | 1,932.93 | 40,796.77 | 22.4 | 43,297.52 | 7.61% | 1.49% |
| HEFA | 46434V803 | iShares Currency Hedged MSCI EAFE ETF | 1,017.00 | 26,289.27 | 29.82 | 30,326.94 | 5.33% | 1.05% |
| | | | | <u>\$67,086.04</u> | | <u>\$73,624.46</u> | | 2.54% T |
| Foreign Large Growth Funds | | | | | | | | |
| MGRDX | 552746356 | MFS International Growth R6 | 458.52 | 12,812.00 | 34.96 | 16,029.93 | 2.82% | 0.55% T |
| Diversified Emerging Markets | | | | | | | | |
| HHHYX | 41665H797 | Hartford Schroders Emerging Mkts Eq Y | 2,593.11 | 36,548.22 | 15.68 | 40,659.89 | 7.15% | 1.40% |
| | | | | <u>\$36,548.22</u> | | <u>\$40,659.89</u> | | 1.40% T |
| TOTAL EQUITY | | | | | \$522,781.04 | | \$568,982.33 | 19.63% T |

HOLDINGS REPORT

El Toro Water District 401(k) - Capital Preservation

As of Second Quarter 2019

| TICKER | CUSIP | ASSET NAME | SHARES/UNITS | COST BASIS | PRICE | MARKET VALUE (MV) | MV AS % OF ASSET TYPE | MV AS % OF TOTAL |
|----------------------------|-----------|---|--------------|-----------------------|--------|-----------------------|-----------------------|------------------|
| ALTERNATIVES | | | | | | | | |
| Market Neutral | | | | | | | | |
| QMNIX | 00191K799 | AQR Equity Market Neutral I | 1,792.86 | 20,832.76 | 9.85 | 17,659.68 | 3.10% | 0.61% |
| BSIKX | 09260B374 | BlackRock Strategic Income Opps K | 2,489.28 | 24,546.87 | 9.92 | 24,693.65 | 4.34% | 0.85% |
| | | | | \$45,379.63 | | \$42,353.33 | | 1.46% T |
| Managed Futures | | | | | | | | |
| AQMIX | 00203H859 | AQR Managed Futures Strategy I | 4,352.23 | 42,604.89 | 8.6 | 37,429.18 | 6.58% | 1.29% |
| AMFNX | 63873P825 | Natixis ASG Managed Futures Strategy N | 4,112.80 | 43,617.35 | 9.67 | 39,770.77 | 6.99% | 1.37% |
| | | | | \$86,222.24 | | \$77,199.95 | | 2.66% T |
| Merger Arbitrage | | | | | | | | |
| ARBNX | 03875R205 | Arbitrage I | 3,117.67 | 40,687.49 | 13.31 | 41,496.13 | 7.29% | 1.43% T |
| Global Macro | | | | | | | | |
| EGRSX | 27830W108 | Eaton Vance Gbl Macro Abs Ret Advtg R6 | 4,948.22 | 49,613.23 | 10.07 | 49,828.61 | 8.76% | 1.72% |
| LAOSX | 95768D509 | Western Asset Macro Opportunities IS | 4,556.12 | 48,566.10 | 11.55 | 52,623.14 | 9.25% | 1.82% |
| | | | | \$98,179.33 | | \$102,451.75 | | 3.53% T |
| Fund of Hedge Funds | | | | | | | | |
| BXMIX | 09257V201 | Blackstone Alternative Multi-Strategy I | 4,156.66 | 43,570.57 | 10.9 | 45,307.63 | 7.96% | 1.56% |
| QSPIX | 00203H420 | AQR Style Premia Alternative I | 4,470.29 | 44,188.03 | 8.55 | 38,220.98 | 6.72% | 1.32% |
| | | | | \$87,758.60 | | \$83,528.61 | | 2.88% T |
| REITs | | | | | | | | |
| ICF | 464287564 | iShares Cohen & Steers REIT ETF | 325.00 | 32,507.12 | 112.65 | 36,611.25 | 6.43% | 1.26% T |
| TOTAL ALTERNATIVES | | | | \$390,734.41 | | \$383,641.02 | | 13.24% T |
| TOTAL - ALL ASSETS | | | | \$2,843,430.06 | | \$2,898,628.62 | | 100.00% |

INVESTMENT PORTFOLIO SUMMARY - INCOME

El Toro Water District - 401(k) Plan

Account Number: 6721051389
Data as of: 06/30/2019

Portfolio Manager:
Keith Stribling, CFA

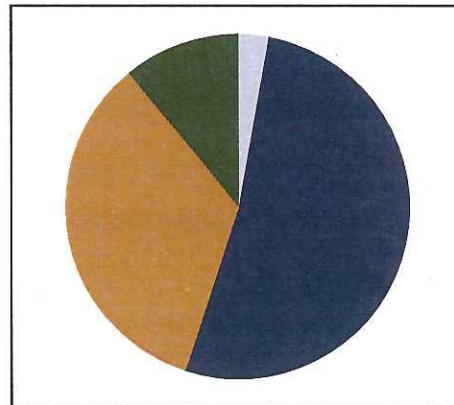
Account Snapshot

| Asset Class | Market Value | Tax Cost | Est. Annual Income | Current Yield (%) |
|--------------------|-----------------------|-----------------------|--------------------|-------------------|
| Cash & Equivalents | \$70,445.69 | \$70,445.69 | \$186.68 | 0.27% |
| Fixed Income | \$1,288,610.26 | \$1,246,371.81 | \$41,493.25 | 3.22% |
| Equities | \$840,091.10 | \$849,513.64 | \$12,903.80 | 1.54% |
| Alternatives | \$268,438.58 | \$269,024.82 | \$2,775.65 | 1.03% |
| Other | \$0.00 | \$0.00 | \$0.00 | 0.00% |
| Total | \$2,467,585.63 | \$2,435,355.96 | \$57,359.39 | 2.32% |

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

Asset Allocation

| | |
|-------|--------------------|
| 2.9% | Cash & Equivalents |
| 52.2% | Fixed Income |
| 34.0% | Equities |
| 10.9% | Alternatives |
| 0.0% | Other |



Income Summary (1, 2)

| | |
|---|-----------------|
| Cash & Equivalents Income Earned YTD | \$1,152 |
| Taxable Fixed Income Income Earned YTD | \$10,315 |
| Tax-Exempt Fixed Income Income Earned YTD | \$0 |
| Equity Income Earned YTD | \$1,834 |
| Alternative Income Earned YTD | \$141 |
| Other Income Earned YTD | \$0 |
| Total | \$13,442 |

Net Gain/Loss Summary (3)

| | Realized | Unrealized |
|--------------------------|-----------------|-----------------|
| Net Short Term Gain/Loss | -\$2,480 | |
| Net Long Term Gain/Loss | \$0 | |
| Total | -\$2,480 | \$32,230 |

(1) As of 06/30/2019

(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 Second 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 | (3,974.3900) | (\$3,974.39) | 1.00 | (\$3,974.39) | -5.64% | -0.16% |
| FPZXX | n.a. | CASH FUND | 74,420.08 | \$74,420.08 | 1.00 | \$74,420.08 | 105.64% | 3.02% |
| TOTAL CASH | | | | \$70,445.69 | | \$70,445.69 | | 2.85% T |
| FIXED INCOME | | | | | | | | |
| Short-Term Bond Funds | | | | | | | | |
| VFSUX | 922031836 | Vanguard Short-Term Investment-Grade Adm | 17,020.82 | 179,297.34 | 10.71 | 182,292.95 | 14.15% | 7.39% |
| | | | | <u>\$179,297.34</u> | | <u>\$182,292.95</u> | | <u>7.39% T</u> |
| Intermediate-Term Bond Funds | | | | | | | | |
| DBLFX | 258620301 | DoubleLine Core Fixed Income I | 24,937.91 | 267,085.61 | 11.06 | 275,813.23 | 21.40% | 11.18% |
| DODIX | 256210105 | Dodge & Cox Income | 19,881.86 | 267,894.55 | 13.91 | 276,556.69 | 21.46% | 11.21% |
| PTRQX | 74440B884 | PGIM Total Return Bond R6 | 18,801.40 | 265,159.33 | 14.76 | 277,508.62 | 21.54% | 11.25% |
| PTTRX | 693390700 | PIMCO Total Return Instl | 26,709.06 | 266,934.98 | 10.35 | 276,438.77 | 21.45% | 11.20% |
| | | | | <u>\$1,067,074.47</u> | | <u>\$1,106,317.31</u> | | <u>44.83% T</u> |
| TOTAL FIXED INCOME | | | | \$1,246,371.81 | | \$1,288,610.26 | | 52.22% T |
| EQUITY | | | | | | | | |
| Large Cap Blend Funds | | | | | | | | |
| COFYX | 19766M709 | Columbia Contrarian Core Inst3 | 5,381.92 | 143,258.80 | 26.15 | 140,737.31 | 16.75% | 5.70% |
| VGIAIX | 921913208 | Vanguard Growth & Income Adm | 1,757.74 | 141,913.85 | 79.53 | 139,792.66 | 16.64% | 5.67% |
| | | | | <u>\$285,172.65</u> | | <u>\$280,529.97</u> | | <u>11.37% T</u> |
| Large Cap Value Funds | | | | | | | | |
| DODGX | 256219106 | Dodge & Cox Stock | 283.94 | 57,740.92 | 187.1 | 53,125.92 | 6.32% | 2.15% |
| PKAIX | 72202L462 | PIMCO RAE US Instl | 4,845.07 | 55,950.88 | 11.09 | 53,731.82 | 6.40% | 2.18% |
| | | | | <u>\$113,691.80</u> | | <u>\$106,857.74</u> | | <u>4.33% T</u> |
| Large Cap Growth Funds | | | | | | | | |
| HNACX | 411512528 | Harbor Capital Appreciation Retirement | 749.66 | 56,203.38 | 75.03 | 56,247.06 | 6.70% | 2.28% |
| LSITX | 52469H255 | ClearBridge Large Cap Growth IS | 971.74 | 49,342.31 | 52.84 | 51,346.53 | 6.11% | 2.08% |
| | | | | <u>\$105,545.69</u> | | <u>\$107,593.59</u> | | <u>4.36% T</u> |

HOLDINGS REPORT

El Toro Water District 401(k) - Capital Preservation

As of Second Quarter 2019

| TICKER | CUSIP | ASSET NAME | SHARES/UNITS | COST BASIS | PRICE | MARKET VALUE (MV) | MV AS % OF ASSET TYPE | MV AS % OF TOTAL |
|-------------------------------------|-----------|---|--------------|--------------|--------|---------------------|-----------------------|------------------|
| Mid Cap Blend Funds | | | | | | | | |
| VO | 922908629 | Vanguard Mid-Cap ETF | 13.00 | 2,057.83 | 167.16 | 2,173.08 | 0.26% | 0.09% T |
| Small Cap Value Funds | | | | | | | | |
| UBVFX | 904504479 | Undiscovered Managers Behavioral Val R6 | 633.24 | 44,249.49 | 62.36 | 39,488.60 | 4.70% | 1.60% T |
| Small Cap Blend Funds | | | | | | | | |
| DCZR | 24610B826 | Delaware Small Cap Core R6 | 1,348.54 | 33,294.26 | 22.74 | 30,665.82 | 3.65% | 1.24% |
| VB | 922908751 | Vanguard Small-Cap ETF | 72.00 | 10,711.57 | 156.66 | 11,279.52 | 1.34% | 0.46% |
| | | | | \$44,005.83 | | \$41,945.34 | | 1.70% T |
| Small Cap Growth Funds | | | | | | | | |
| RSEJX | 92647Q363 | Victory RS Small Cap Growth R6 | 474.70 | 37,444.24 | 83.97 | 39,860.48 | 4.74% | 1.62% T |
| Foreign Large Value Funds | | | | | | | | |
| DODFX | 256206103 | Dodge & Cox International Stock | 520.22 | 22,907.66 | 41.66 | 21,672.49 | 2.58% | 0.88% T |
| Foreign Large Blend Funds | | | | | | | | |
| DFALX | 233203868 | DFA Large Cap International I | 3,329.19 | 70,965.50 | 22.4 | 74,573.79 | 8.88% | 3.02% |
| HEFA | 46434V803 | iShares Currency Hedged MSCI EAFE ETF | 1,362.00 | 39,523.55 | 29.82 | 40,614.84 | 4.83% | 1.65% |
| | | | | \$110,489.05 | | \$115,188.63 | | 4.67% T |
| Foreign Large Growth Funds | | | | | | | | |
| MGRDX | 552746356 | MFS International Growth R6 | 659.96 | 22,834.27 | 34.96 | 23,072.13 | 2.75% | 0.94% T |
| Diversified Emerging Markets | | | | | | | | |
| HHHYX | 41665H797 | Hartford Schroders Emerging Mkts Eq Y | 3,935.53 | 61,115.13 | 15.68 | 61,709.05 | 7.35% | 2.50% |
| | | | | \$61,115.13 | | \$61,709.05 | | 2.50% T |
| TOTAL EQUITY | | | | | | \$849,513.64 | | 34.05% T |
| ALTERNATIVES | | | | | | | | |
| Market Neutral | | | | | | | | |
| QMNIX | 00191K799 | AQR Equity Market Neutral I | 1,170.62 | 13,026.29 | 9.85 | 11,530.58 | 1.37% | 0.47% |
| BSIKX | 09260B374 | BlackRock Strategic Income Opps K | 1,866.52 | 18,260.90 | 9.92 | 18,515.83 | 2.20% | 0.75% |
| | | | | \$31,287.19 | | \$30,046.41 | | 1.22% T |

HOLDINGS REPORT

El Toro Water District 401(k) - Capital Preservation

As of Second 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 | 3,717.11 | 32,428.49 | 8.6 | 31,967.17 | 3.81% | 1.30% |
| AMFNX | 63873P825 | Natixis ASG Managed Futures Strategy N | 3,338.02 | 32,370.15 | 9.67 | 32,278.65 | 3.84% | 1.31% |
| | | | | \$64,798.64 | | \$64,245.82 | | 2.60% T |
| Merger Arbitrage | | | | | | | | |
| ARBNX | 03875R205 | Arbitrage I | 2,192.21 | 28,652.63 | 13.31 | 29,178.34 | 3.47% | 1.18% T |
| Global Macro | | | | | | | | |
| EGRSX | 27830W108 | Eaton Vance Gbl Macro Abs Ret Advtg R6 | 3,109.63 | 31,313.25 | 10.07 | 31,313.97 | 3.73% | 1.27% |
| LAOSX | 95768D509 | Western Asset Macro Opportunities IS | 2,929.07 | 31,841.80 | 11.55 | 33,830.77 | 4.03% | 1.37% |
| | | | | \$63,155.05 | | \$65,144.74 | | 2.64% T |
| Fund of Hedge Funds | | | | | | | | |
| BXMIX | 09257V201 | Blackstone Alternative Multi-Strategy I | 2,664.26 | 28,492.20 | 10.9 | 29,040.41 | 3.46% | 1.18% |
| QSPIX | 00203H420 | AQR Style Premia Alternative I | 3,067.27 | 29,550.61 | 8.55 | 26,225.16 | 3.12% | 1.06% |
| | | | | \$58,042.81 | | \$55,265.57 | | 2.24% T |
| REITs | | | | | | | | |
| ICF | 464287564 | iShares Cohen & Steers REIT ETF | 218.00 | 23,088.50 | 112.65 | 24,557.70 | 2.92% | 1.00% T |
| TOTAL ALTERNATIVES | | | | | | \$269,024.82 | | 10.88% T |
| TOTAL - ALL ASSETS | | | | | \$2,435,355.96 | \$2,467,585.63 | | 100.00% |

INVESTMENT PORTFOLIO SUMMARY - INCOME & GROWTH

El Toro Water District - 401(k) Plan

Account Number: 6721021389
 Data as of: 06/30/2019

Portfolio Manager:
 Keith Stribling, CFA

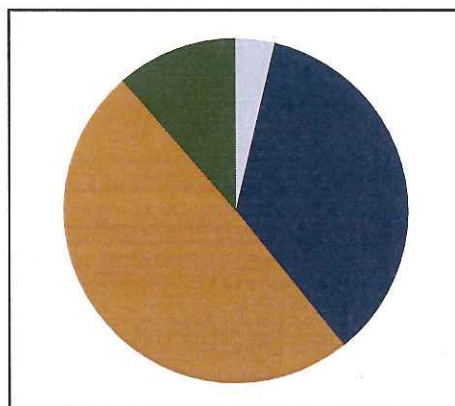
Account Snapshot

| Asset Class | Market Value | Tax Cost | Est. Annual Income | Current Yield (%) |
|--------------------|-----------------------|-----------------------|---------------------|-------------------|
| Cash & Equivalents | \$231,212.53 | \$231,212.53 | \$612.71 | 0.27% |
| Fixed Income | \$2,232,928.23 | \$2,223,463.37 | \$71,900.29 | 3.22% |
| Equities | \$3,101,010.01 | \$2,801,429.14 | \$47,631.51 | 1.54% |
| Alternatives | \$716,779.14 | \$742,232.69 | \$7,411.50 | 1.03% |
| Other | \$0.00 | \$0.00 | \$0.00 | 0.00% |
| Total | \$6,281,929.91 | \$5,998,337.73 | \$127,556.01 | 2.03% |

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

Asset Allocation

- 3.7% Cash & Equivalents
- 35.5% Fixed Income
- 49.4% Equities
- 11.4% Alternatives
- 0.0% Other



Income Summary (1, 2)

| | |
|---|-----------------|
| Cash & Equivalents Income Earned YTD | \$1,280 |
| Taxable Fixed Income Income Earned YTD | \$18,263 |
| Tax-Exempt Fixed Income Income Earned YTD | \$0 |
| Equity Income Earned YTD | \$6,769 |
| Alternative Income Earned YTD | \$351 |
| Other Income Earned YTD | \$0 |
| Total | \$26,663 |

Net Gain/Loss Summary (3)

| | Realized | Unrealized |
|--------------------------|-----------------|------------------|
| Net Short Term Gain/Loss | \$18,833 | |
| Net Long Term Gain/Loss | \$14,493 | |
| Total | \$33,325 | \$283,592 |

(1) As of 06/30/2019

(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 Second 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 | (9,534.9800) | (\$9,534.98) | 1.00 | (\$9,534.98) | -4.12% | -0.15% |
| FPZXX | n.a. | CASH FUND | 240,747.51 | \$240,747.51 | 1.00 | \$240,747.51 | 104.12% | 3.83% |
| TOTAL CASH | | | | \$231,212.53 | | \$231,212.53 | | 3.68% T |
| FIXED INCOME | | | | | | | | |
| Short-Term Bond Funds | | | | | | | | |
| VFSUX | 922031836 | Vanguard Short-Term Investment-Grade Adm | 38,224.45 | 405,656.63 | 10.71 | 409,383.89 | 18.33% | 6.52% |
| | | | | <u>\$405,656.63</u> | | <u>\$409,383.89</u> | | <u>6.52% T</u> |
| Intermediate-Term Bond Funds | | | | | | | | |
| DBLFX | 258620301 | DoubleLine Core Fixed Income I | 40,975.82 | 445,269.73 | 11.06 | 453,192.55 | 20.30% | 7.21% |
| DODIX | 256210105 | Dodge & Cox Income | 32,676.75 | 449,704.73 | 13.91 | 454,533.62 | 20.36% | 7.24% |
| PTRQX | 74440B884 | PGIM Total Return Bond R6 | 31,288.54 | 457,567.12 | 14.76 | 461,818.81 | 20.68% | 7.35% |
| PTTRX | 693390700 | PIMCO Total Return Instl | 43,864.67 | 465,265.16 | 10.35 | 453,999.36 | 20.33% | 7.23% |
| | | | | <u>\$1,817,806.74</u> | | <u>\$1,823,544.34</u> | | <u>29.03% T</u> |
| TOTAL FIXED INCOME | | | | \$2,223,463.37 | | \$2,232,928.23 | | 35.55% T |
| EQUITY | | | | | | | | |
| Large Cap Blend Funds | | | | | | | | |
| COFYX | 19766M709 | Columbia Contrarian Core Inst3 | 19,430.84 | 425,276.76 | 26.15 | 508,116.47 | 16.39% | 8.09% |
| VGIAIX | 921913208 | Vanguard Growth & Income Adm | 6,598.99 | 469,512.22 | 79.53 | 524,817.36 | 16.92% | 8.35% |
| | | | | <u>\$894,788.98</u> | | <u>\$1,032,933.83</u> | | <u>16.44% T</u> |
| Large Cap Value Funds | | | | | | | | |
| DODGX | 256219106 | Dodge & Cox Stock | 1,025.90 | 188,281.41 | 187.1 | 191,946.26 | 6.19% | 3.06% |
| PKAIX | 72202L462 | PIMCO RAE US Instl | 17,505.73 | 187,154.68 | 11.09 | 194,138.50 | 6.26% | 3.09% |
| | | | | <u>\$375,436.09</u> | | <u>\$386,084.76</u> | | <u>6.15% T</u> |
| Large Cap Growth Funds | | | | | | | | |
| HNACX | 411512528 | Harbor Capital Appreciation Retirement | 2,721.57 | 172,018.45 | 75.03 | 204,199.25 | 6.58% | 3.25% |
| LSITX | 52469H255 | ClearBridge Large Cap Growth IS | 3,484.11 | 156,702.93 | 52.84 | 184,100.58 | 5.94% | 2.93% |
| | | | | <u>\$328,721.38</u> | | <u>\$388,299.83</u> | | <u>6.18% T</u> |

HOLDINGS REPORT

El Toro Water District 401(k) - Capital Preservation

As of Second Quarter 2019

| TICKER | CUSIP | ASSET NAME | SHARES/UNITS | COST BASIS | PRICE | MARKET VALUE (MV) | MV AS % OF ASSET TYPE | MV AS % OF TOTAL |
|-------------------------------------|-----------|---|--------------|-----------------------|--------|-----------------------|-----------------------|------------------|
| Mid Cap Blend Funds | | | | | | | | |
| VO | 922908629 | Vanguard Mid-Cap ETF | 385.00 | 61,092.88 | 167.16 | 64,356.60 | 2.08% | 1.02% T |
| Small Cap Value Funds | | | | | | | | |
| UBVFX | 904504479 | Undiscovered Managers Behavioral Val R6 | 2,394.47 | 152,201.06 | 62.36 | 149,319.27 | 4.82% | 2.38% T |
| Small Cap Blend Funds | | | | | | | | |
| DCZRX | 24610B826 | Delaware Small Cap Core R6 | 3,142.00 | 75,674.76 | 22.74 | 71,449.01 | 2.30% | 1.14% |
| VB | 922908751 | Vanguard Small-Cap ETF | 454.00 | 65,793.87 | 156.66 | 71,123.64 | 2.29% | 1.13% |
| | | | | <u>\$141,468.63</u> | | <u>\$142,572.65</u> | | <u>2.27% T</u> |
| Small Cap Growth Funds | | | | | | | | |
| RSEJX | 92647Q363 | Victory RS Small Cap Growth R6 | 1,792.55 | 144,748.04 | 83.97 | 150,520.00 | 4.85% | 2.40% T |
| Foreign Large Value Funds | | | | | | | | |
| DODFX | 256206103 | Dodge & Cox International Stock | 1,908.17 | 78,195.46 | 41.66 | 79,494.32 | 2.56% | 1.27% T |
| Foreign Large Blend Funds | | | | | | | | |
| DFALX | 233203868 | DFA Large Cap International I | 14,039.60 | 294,431.68 | 22.4 | 314,486.93 | 10.14% | 5.01% |
| HEFA | 46434V803 | iShares Currency Hedged MSCI EAFE ETF | 3,300.00 | 83,083.41 | 29.82 | 98,406.00 | 3.17% | 1.57% |
| | | | | <u>\$377,515.09</u> | | <u>\$412,892.93</u> | | <u>6.57% T</u> |
| Foreign Large Growth Funds | | | | | | | | |
| MGRDX | 552746356 | MFS International Growth R6 | 2,117.25 | 58,020.79 | 34.96 | 74,018.89 | 2.39% | 1.18% T |
| Diversified Emerging Markets | | | | | | | | |
| HHHYX | 41665H797 | Hartford Schroders Emerging Mkts Eq Y | 14,063.58 | 189,240.74 | 15.68 | 220,516.93 | 7.11% | 3.51% |
| | | | | <u>\$189,240.74</u> | | <u>\$220,516.93</u> | | <u>3.51% T</u> |
| TOTAL EQUITY | | | | \$2,801,429.14 | | \$3,101,010.01 | | 49.36% T |

ALTERNATIVES

Market Neutral

| | | | | | | | | |
|-------|-----------|-----------------------------------|----------|-----------|------|-----------|-------|-------|
| QMNIX | 00191K799 | AQR Equity Market Neutral I | 3,477.09 | 40,656.38 | 9.85 | 34,249.31 | 1.10% | 0.55% |
| BSIKX | 09260B374 | BlackRock Strategic Income Opps K | 4,764.54 | 47,017.98 | 9.92 | 47,264.24 | 1.52% | 0.75% |

HOLDINGS REPORT

El Toro Water District 401(k) - Capital Preservation

As of Second Quarter 2019

| TICKER | CUSIP | ASSET NAME | SHARES/UNITS | COST BASIS | PRICE | MARKET VALUE (MV) | MV AS % OF ASSET TYPE | MV AS % OF TOTAL |
|----------------------------|-----------|---|--------------|----------------|--------|----------------------|--------------------------|---------------------|
| | | | | \$87,674.36 | | \$81,513.55 | | 1.30% T |
| Managed Futures | | | | | | | | |
| AQMIX | 00203H859 | AQR Managed Futures Strategy I | 9,471.51 | 94,621.08 | 8.6 | 81,454.98 | 2.63% | 1.30% |
| AMFNX | 63873P825 | Natixis ASG Managed Futures Strategy N | 8,589.96 | 92,731.18 | 9.67 | 83,064.92 | 2.68% | 1.32% |
| | | | | \$187,352.26 | | \$164,519.90 | | 2.62% T |
| Merger Arbitrage | | | | | | | | |
| ARBNX | 03875R205 | Arbitrage I | 6,511.53 | 85,087.73 | 13.31 | 86,668.50 | 2.79% | 1.38% T |
| Global Macro | | | | | | | | |
| EGRSX | 27830W108 | Eaton Vance Glbl Macro Abs Ret Advtg R6 | 8,938.59 | 90,423.66 | 10.07 | 90,011.58 | 2.90% | 1.43% |
| LAOSX | 95768D509 | Western Asset Macro Opportunities IS | 8,428.34 | 88,479.41 | 11.55 | 97,347.36 | 3.14% | 1.55% |
| | | | | \$178,903.07 | | \$187,358.94 | | 2.98% T |
| Fund of Hedge Funds | | | | | | | | |
| BXMIX | 09257V201 | Blackstone Alternative Multi-Strategy I | 7,366.54 | 76,708.39 | 10.9 | 80,295.28 | 2.59% | 1.28% |
| QSPIX | 00203H420 | AQR Style Premia Alternative I | 9,110.72 | 92,346.97 | 8.55 | 77,896.67 | 2.51% | 1.24% |
| | | | | \$169,055.36 | | \$158,191.95 | | 2.52% T |
| REITs | | | | | | | | |
| ICF | 464287564 | iShares Cohen & Steers REIT ETF | 342.00 | 34,159.91 | 112.65 | 38,526.30 | 1.24% | 0.61% T |
| TOTAL ALTERNATIVES | | | | \$742,232.69 | | \$716,779.14 | | 11.41% T |
| TOTAL - ALL ASSETS | | | | \$5,998,337.73 | | \$6,281,929.91 | | 100.00% |

INVESTMENT PORTFOLIO SUMMARY - BALANCED INCOME

El Toro Water District - 401(k) Plan

Account Number: 6721061389
 Data as of: 06/30/2019

Portfolio Manager:
 Keith Stribling, CFA

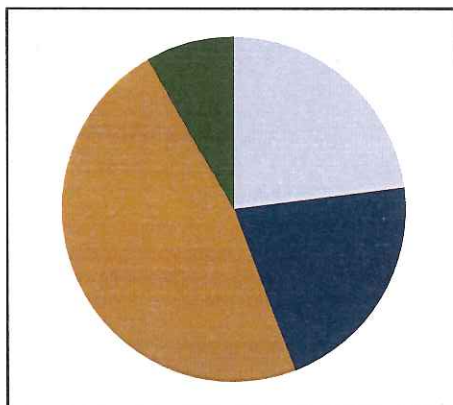
Account Snapshot

| Asset Class | Market Value | Tax Cost | Est. Annual Income | Current Yield (%) |
|--------------------|-----------------------|-----------------------|--------------------|-------------------|
| Cash & Equivalents | \$1,374,285.52 | \$1,374,285.52 | \$3,641.86 | 0.27% |
| Fixed Income | \$1,268,082.95 | \$1,225,909.48 | \$40,832.27 | 3.22% |
| Equities | \$2,840,589.76 | \$2,877,090.66 | \$43,631.46 | 1.54% |
| Alternatives | \$494,864.36 | \$495,290.75 | \$5,116.90 | 1.03% |
| Other | \$0.00 | \$0.00 | \$0.00 | 0.00% |
| Total | \$5,977,822.59 | \$5,972,576.41 | \$93,222.48 | 1.56% |

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

Asset Allocation

- 23.0% Cash & Equivalents
- 21.2% Fixed Income
- 47.5% Equities
- 8.3% Alternatives
- 0.0% Other



Income Summary (1, 2)

| | |
|---|-----------------|
| Cash & Equivalents Income Earned YTD | \$1,353 |
| Taxable Fixed Income Income Earned YTD | \$12,738 |
| Tax-Exempt Fixed Income Income Earned YTD | \$0 |
| Equity Income Earned YTD | \$7,371 |
| Alternative Income Earned YTD | \$348 |
| Other Income Earned YTD | \$0 |
| Total | \$21,810 |

Net Gain/Loss Summary (3)

| | Realized | Unrealized |
|--------------------------|-----------------|----------------|
| Net Short Term Gain/Loss | -\$3,586 | |
| Net Long Term Gain/Loss | \$0 | |
| Total | -\$3,586 | \$5,246 |

(1) As of 06/30/2019

(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 Second 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 | 1,176,536.4800 | \$1,176,536.48 | 1.00 | \$1,176,536.48 | 85.61% | 19.68% |
| FPZXX | n.a. | CASH FUND | 197,749.04 | \$197,749.04 | 1.00 | \$197,749.04 | 14.39% | 3.31% |
| TOTAL CASH | | | | \$1,374,285.52 | | \$1,374,285.52 | | 22.99% T |
| FIXED INCOME | | | | | | | | |
| Short-Term Bond Funds | | | | | | | | |
| VFSUX | 922031836 | Vanguard Short-Term Investment-Grade Adm | 22,088.48 | 233,410.87 | 10.71 | 236,567.64 | 18.66% | 3.96% |
| | | | | <u>\$233,410.87</u> | | <u>\$236,567.64</u> | | <u>3.96% T</u> |
| Intermediate-Term Bond Funds | | | | | | | | |
| DBLFX | 258620301 | DoubleLine Core Fixed Income I | 23,127.59 | 247,255.93 | 11.06 | 255,791.19 | 20.17% | 4.28% |
| DODIX | 256210105 | Dodge & Cox Income | 18,416.45 | 247,537.80 | 13.91 | 256,172.76 | 20.20% | 4.29% |
| PTRQX | 74440B884 | PGIM Total Return Bond R6 | 17,755.18 | 249,647.23 | 14.76 | 262,066.43 | 20.67% | 4.38% |
| PTTRX | 693390700 | PIMCO Total Return Instl | 24,877.77 | 248,057.65 | 10.35 | 257,484.93 | 20.31% | 4.31% |
| | | | | <u>\$992,498.61</u> | | <u>\$1,031,515.31</u> | | <u>17.26% T</u> |
| TOTAL FIXED INCOME | | | | \$1,225,909.48 | | \$1,268,082.95 | | 21.21% T |
| EQUITY | | | | | | | | |
| Large Cap Blend Funds | | | | | | | | |
| COFYX | 19766M709 | Columbia Contrarian Core Inst3 | 17,064.28 | 459,219.21 | 26.15 | 446,231.00 | 15.71% | 7.46% |
| VGIAIX | 921913208 | Vanguard Growth & Income Adm | 5,559.81 | 452,558.51 | 79.53 | 442,171.93 | 15.57% | 7.40% |
| | | | | <u>\$911,777.72</u> | | <u>\$888,402.93</u> | | <u>14.86% T</u> |
| Large Cap Value Funds | | | | | | | | |
| DODGX | 256219106 | Dodge & Cox Stock | 1,009.87 | 208,659.27 | 187.1 | 188,945.74 | 6.65% | 3.16% |
| PKAIX | 72202L462 | PIMCO RAE US Instl | 17,232.30 | 200,439.24 | 11.09 | 191,106.21 | 6.73% | 3.20% |
| | | | | <u>\$409,098.51</u> | | <u>\$380,051.95</u> | | <u>6.36% T</u> |
| Large Cap Growth Funds | | | | | | | | |
| HNACX | 411512528 | Harbor Capital Appreciation Retirement | 2,673.11 | 199,286.94 | 75.03 | 200,563.29 | 7.06% | 3.36% |
| LSITX | 52469H255 | ClearBridge Large Cap Growth IS | 3,451.63 | 174,217.30 | 52.84 | 182,384.02 | 6.42% | 3.05% |
| | | | | <u>\$373,504.24</u> | | <u>\$382,947.31</u> | | <u>6.41% T</u> |

HOLDINGS REPORT

El Toro Water District 401(k) - Capital Preservation

As of Second Quarter 2019

| TICKER | CUSIP | ASSET NAME | SHARES/UNITS | COST BASIS | PRICE | MARKET VALUE (MV) | MV AS % OF ASSET TYPE | MV AS % OF TOTAL |
|-------------------------------------|-----------|---|--------------|---------------------|-----------------------|---------------------|-----------------------|------------------|
| Mid Cap Blend Funds | | | | | | | | |
| VO | 922908629 | Vanguard Mid-Cap ETF | 454.00 | 72,042.00 | 167.16 | 75,890.64 | 2.67% | 1.27% T |
| Small Cap Value Funds | | | | | | | | |
| UBVFX | 904504479 | Undiscovered Managers Behavioral Val R6 | 2,267.73 | 157,219.49 | 62.36 | 141,415.64 | 4.98% | 2.37% T |
| Small Cap Blend Funds | | | | | | | | |
| DCZRX | 24610B826 | Delaware Small Cap Core R6 | 2,685.23 | 67,430.16 | 22.74 | 61,062.06 | 2.15% | 1.02% |
| VB | 922908751 | Vanguard Small-Cap ETF | 387.00 | 55,728.71 | 156.66 | 60,627.42 | 2.13% | 1.01% |
| | | | | <u>\$123,158.87</u> | | <u>\$121,689.48</u> | | <u>2.04% T</u> |
| Small Cap Growth Funds | | | | | | | | |
| RSEJX | 92647Q363 | Victory RS Small Cap Growth R6 | 1,687.37 | 136,254.96 | 83.97 | 141,688.29 | 4.99% | 2.37% T |
| Foreign Large Value Funds | | | | | | | | |
| DODFX | 256206103 | Dodge & Cox International Stock | 1,570.15 | 69,774.16 | 41.66 | 65,412.45 | 2.30% | 1.09% T |
| Foreign Large Blend Funds | | | | | | | | |
| DFALX | 233203868 | DFA Large Cap International I | 12,646.80 | 267,179.77 | 22.4 | 283,288.36 | 9.97% | 4.74% |
| HEFA | 46434V803 | iShares Currency Hedged MSCI EAFE ETF | 3,094.00 | 92,364.36 | 29.82 | 92,263.08 | 3.25% | 1.54% |
| | | | | <u>\$359,544.13</u> | | <u>\$375,551.44</u> | | <u>6.28% T</u> |
| Foreign Large Growth Funds | | | | | | | | |
| MGRDX | 552746356 | MFS International Growth R6 | 1,984.78 | 68,965.05 | 34.96 | 69,387.77 | 2.44% | 1.16% T |
| Diversified Emerging Markets | | | | | | | | |
| HHHYX | 41665H797 | Hartford Schrodgers Emerging Mkts Eq Y | 12,637.24 | 195,751.53 | 15.68 | 198,151.86 | 6.98% | 3.31% |
| | | | | <u>\$195,751.53</u> | | <u>\$198,151.86</u> | | <u>3.31% T</u> |
| TOTAL EQUITY | | | | | \$2,877,090.66 | | \$2,840,589.76 | 47.52% T |

ALTERNATIVES

Market Neutral

| | | | | | | | | |
|-------|-----------|-----------------------------------|----------|-----------|------|-----------|-------|-------|
| QMNIX | 00191K799 | AQR Equity Market Neutral I | 2,358.73 | 26,247.27 | 9.85 | 23,233.48 | 0.82% | 0.39% |
| BSIKX | 09260B374 | BlackRock Strategic Income Opps K | 3,512.28 | 34,341.33 | 9.92 | 34,841.77 | 1.23% | 0.58% |

HOLDINGS REPORT

El Toro Water District 401(k) - Capital Preservation

As of Second Quarter 2019

| TICKER | CUSIP | ASSET NAME | SHARES/UNITS | COST BASIS | PRICE | MARKET VALUE (MV) | MV AS % OF ASSET TYPE | MV AS % OF TOTAL |
|----------------------------|-----------|---|--------------|-----------------------|--------|-----------------------|--------------------------|---------------------|
| | | | | \$60,588.60 | | \$58,075.25 | | 0.97% T |
| Managed Futures | | | | | | | | |
| AQMIX | 00203H859 | AQR Managed Futures Strategy I | 6,153.35 | 53,841.82 | 8.6 | 52,918.82 | 1.86% | 0.89% |
| AMFNX | 63873P825 | Natixis ASG Managed Futures Strategy N | 5,634.54 | 54,880.16 | 9.67 | 54,485.98 | 1.92% | 0.91% |
| | | | | \$108,721.98 | | \$107,404.80 | | 1.80% T |
| Merger Arbitrage | | | | | | | | |
| ARBNX | 03875R205 | Arbitrage I | 4,504.51 | 58,874.73 | 13.31 | 59,954.96 | 2.11% | 1.00% T |
| Global Macro | | | | | | | | |
| EGRSX | 27830W108 | Eaton Vance Gbl Macro Abs Ret Advtg R6 | 6,200.08 | 62,433.42 | 10.07 | 62,434.85 | 2.20% | 1.04% |
| LAOSX | 95768D509 | Western Asset Macro Opportunities IS | 5,813.37 | 63,196.92 | 11.55 | 67,144.46 | 2.36% | 1.12% |
| | | | | \$125,630.34 | | \$129,579.31 | | 2.17% T |
| Fund of Hedge Funds | | | | | | | | |
| BXMIX | 09257V201 | Blackstone Alternative Multi-Strategy I | 5,606.62 | 59,958.46 | 10.9 | 61,112.14 | 2.15% | 1.02% |
| QSPIX | 00203H420 | AQR Style Premia Alternative I | 5,717.62 | 55,084.55 | 8.55 | 48,885.65 | 1.72% | 0.82% |
| | | | | \$115,043.01 | | \$109,997.79 | | 1.84% T |
| REITs | | | | | | | | |
| ICF | 464287564 | iShares Cohen & Steers REIT ETF | 265.00 | 26,432.09 | 112.65 | 29,852.25 | 1.05% | 0.50% T |
| TOTAL ALTERNATIVES | | | | \$495,290.75 | | \$494,864.36 | | 8.28% T |
| TOTAL - ALL ASSETS | | | | \$5,972,576.41 | | \$5,977,822.59 | | 100.00% |

INVESTMENT PORTFOLIO SUMMARY - BALANCED

El Toro Water District - 401(k) Plan

Account Number: 6721031389

Data as of: 06/30/2019

Portfolio Manager:






Keith Stribling, CFA

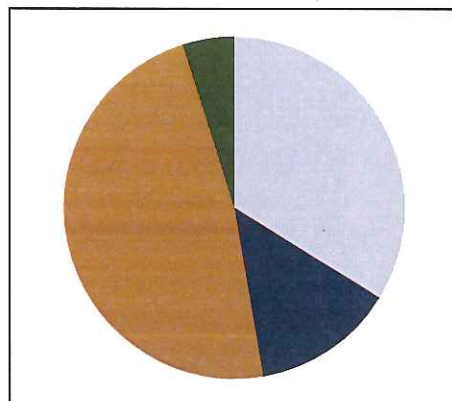
Account Snapshot

| Asset Class | Market Value | Tax Cost | Est. Annual Income | Current Yield (%) |
|--------------------|-----------------------|-----------------------|--------------------|-------------------|
| Cash & Equivalents | \$611,991.04 | \$611,991.04 | \$1,621.78 | 0.27% |
| Fixed Income | \$244,250.11 | \$241,965.34 | \$7,864.85 | 3.22% |
| Equities | \$864,707.19 | \$786,094.66 | \$13,281.90 | 1.54% |
| Alternatives | \$88,851.35 | \$91,083.12 | \$918.72 | 1.03% |
| Other | \$0.00 | \$0.00 | \$0.00 | 0.00% |
| Total | \$1,809,799.69 | \$1,731,134.16 | \$23,687.26 | 1.31% |

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

Asset Allocation

| | | |
|---|-------|--------------------|
|  | 33.8% | Cash & Equivalents |
|  | 13.5% | Fixed Income |
|  | 47.8% | Equities |
|  | 4.9% | Alternatives |
|  | 0.0% | Other |



Income Summary (1, 2)

| | |
|---|----------------|
| Cash & Equivalents Income Earned YTD | \$385 |
| Taxable Fixed Income Income Earned YTD | \$2,902 |
| Tax-Exempt Fixed Income Income Earned YTD | \$0 |
| Equity Income Earned YTD | \$2,677 |
| Alternative Income Earned YTD | \$68 |
| Other Income Earned YTD | \$0 |
| Total | \$6,032 |

Net Gain/Loss Summary (3)

| | Realized | Unrealized |
|--------------------------|-----------------|-----------------|
| Net Short Term Gain/Loss | \$7,143 | |
| Net Long Term Gain/Loss | \$6,281 | |
| Total | \$13,424 | \$78,666 |

(1) As of 06/30/2019

(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 Second 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 | 559,451.9800 | \$559,451.98 | 1.00 | \$559,451.98 | 91.42% | 30.91% |
| FPZXX | n.a. | CASH FUND | 52,539.06 | \$52,539.06 | 1.00 | \$52,539.06 | 8.58% | 2.90% |
| TOTAL CASH | | | | \$611,991.04 | | \$611,991.04 | | 33.82% T |
| FIXED INCOME | | | | | | | | |
| Short-Term Bond Funds | | | | | | | | |
| VFSUX | 922031836 | Vanguard Short-Term Investment-Grade Adm | 4,509.18 | 47,669.92 | 10.71 | 48,293.35 | 19.77% | 2.67% |
| | | | | \$47,669.92 | | \$48,293.35 | | 2.67% T |
| Intermediate-Term Bond Funds | | | | | | | | |
| DBLFX | 258620301 | DoubleLine Core Fixed Income I | 4,424.47 | 48,024.95 | 11.06 | 48,934.62 | 20.03% | 2.70% |
| DODIX | 256210105 | Dodge & Cox Income | 3,515.49 | 48,235.64 | 13.91 | 48,900.40 | 20.02% | 2.70% |
| PTRQX | 74440B884 | PGIM Total Return Bond R6 | 3,329.76 | 48,440.62 | 14.76 | 49,147.26 | 20.12% | 2.72% |
| PTTRX | 693390700 | PIMCO Total Return Instl | 4,731.83 | 49,594.21 | 10.35 | 48,974.48 | 20.05% | 2.71% |
| | | | | \$194,295.42 | | \$195,956.76 | | 10.83% T |
| TOTAL FIXED INCOME | | | | \$241,965.34 | | \$244,250.11 | | 13.50% T |
| EQUITY | | | | | | | | |
| Large Cap Blend Funds | | | | | | | | |
| COFYX | 19766M709 | Columbia Contrarian Core Inst3 | 5,114.50 | 111,180.11 | 26.15 | 133,744.17 | 15.47% | 7.39% |
| VGIAX | 921913208 | Vanguard Growth & Income Adm | 1,657.07 | 118,584.73 | 79.53 | 131,786.94 | 15.24% | 7.28% |
| | | | | \$229,764.84 | | \$265,531.11 | | 14.67% T |
| Large Cap Value Funds | | | | | | | | |
| DODGX | 256219106 | Dodge & Cox Stock | 302.18 | 55,869.46 | 187.1 | 56,538.44 | 6.54% | 3.12% |
| PKAIX | 72202L462 | PIMCO RAE US Instl | 5,134.59 | 54,832.36 | 11.09 | 56,942.59 | 6.59% | 3.15% |
| | | | | \$110,701.82 | | \$113,481.03 | | 6.27% T |
| Large Cap Growth Funds | | | | | | | | |
| HNACX | 411512528 | Harbor Capital Appreciation Retirement | 756.51 | 49,035.84 | 75.03 | 56,760.65 | 6.56% | 3.14% |
| LSITX | 52469H255 | ClearBridge Large Cap Growth IS | 1,061.87 | 48,719.31 | 52.84 | 56,109.42 | 6.49% | 3.10% |
| | | | | \$97,755.15 | | \$112,870.07 | | 6.24% T |

HOLDINGS REPORT

El Toro Water District 401(k) - Capital Preservation

As of Second Quarter 2019

| TICKER | CUSIP | ASSET NAME | SHARES/UNITS | COST BASIS | PRICE | MARKET VALUE (MV) | MV AS % OF ASSET TYPE | MV AS % OF TOTAL |
|-------------------------------------|-----------|---|--------------|---------------------|---------------------|---------------------|-----------------------|------------------|
| Mid Cap Blend Funds | | | | | | | | |
| VO | 922908629 | Vanguard Mid-Cap ETF | 183.00 | 29,038.95 | 167.16 | 30,590.28 | 3.54% | 1.69% T |
| Small Cap Value Funds | | | | | | | | |
| UBVFX | 904504479 | Undiscovered Managers Behavioral Val R6 | 651.22 | 41,602.18 | 62.36 | 40,609.77 | 4.70% | 2.24% T |
| Small Cap Blend Funds | | | | | | | | |
| DCZRX | 24610B826 | Delaware Small Cap Core R6 | 907.46 | 21,630.81 | 22.74 | 20,635.59 | 2.39% | 1.14% |
| VB | 922908751 | Vanguard Small-Cap ETF | 135.00 | 19,289.88 | 156.66 | 21,149.10 | 2.45% | 1.17% |
| | | | | <u>\$40,920.69</u> | | <u>\$41,784.69</u> | | 2.31% T |
| Small Cap Growth Funds | | | | | | | | |
| RSEJX | 92647Q363 | Victory RS Small Cap Growth R6 | 491.95 | 39,724.62 | 83.97 | 41,308.71 | 4.78% | 2.28% T |
| Foreign Large Value Funds | | | | | | | | |
| DODFX | 256206103 | Dodge & Cox International Stock | 502.79 | 20,480.35 | 41.66 | 20,946.02 | 2.42% | 1.16% T |
| Foreign Large Blend Funds | | | | | | | | |
| DFALX | 233203868 | DFA Large Cap International I | 4,080.93 | 85,327.95 | 22.4 | 91,412.90 | 10.57% | 5.05% |
| HEFA | 46434V803 | iShares Currency Hedged MSCI EAFE ETF | 812.00 | 20,903.55 | 29.82 | 24,213.84 | 2.80% | 1.34% |
| | | | | <u>\$106,231.50</u> | | <u>\$115,626.74</u> | | 6.39% T |
| Foreign Large Growth Funds | | | | | | | | |
| MGRDX | 552746356 | MFS International Growth R6 | 597.62 | 16,223.72 | 34.96 | 20,892.73 | 2.42% | 1.15% T |
| Diversified Emerging Markets | | | | | | | | |
| HHHYX | 41665H797 | Hartford Schroders Emerging Mkts Eq Y | 3,894.52 | 53,650.84 | 15.68 | 61,066.04 | 7.06% | 3.37% |
| | | | | <u>\$53,650.84</u> | | <u>\$61,066.04</u> | | 3.37% T |
| TOTAL EQUITY | | | | | \$786,094.66 | | \$864,707.19 | 47.78% T |

ALTERNATIVES

Market Neutral

| | | | | | | | | |
|-------|-----------|-----------------------------------|--------|----------|------|----------|-------|-------|
| QMNIX | 00191K799 | AQR Equity Market Neutral I | 363.27 | 4,263.62 | 9.85 | 3,578.21 | 0.41% | 0.20% |
| BSIKX | 09260B374 | BlackRock Strategic Income Opps K | 626.20 | 6,183.86 | 9.92 | 6,211.91 | 0.72% | 0.34% |

HOLDINGS REPORT

El Toro Water District 401(k) - Capital Preservation

As of Second Quarter 2019

| TICKER | CUSIP | ASSET NAME | SHARES/UNITS | COST BASIS | PRICE | MARKET VALUE (MV) | MV AS % OF ASSET TYPE | MV AS % OF TOTAL |
|----------------------------|-----------|---|--------------|-----------------------|--------|-----------------------|--------------------------|---------------------|
| | | | | \$10,447.48 | | \$9,790.12 | | 0.54% T |
| Managed Futures | | | | | | | | |
| AQMIX | 00203H859 | AQR Managed Futures Strategy I | 1,046.76 | 10,489.27 | 8.6 | 9,002.17 | 1.04% | 0.50% |
| AMFNX | 63873P825 | Natixis ASG Managed Futures Strategy N | 958.29 | 10,389.58 | 9.67 | 9,266.68 | 1.07% | 0.51% |
| | | | | \$20,878.85 | | \$18,268.85 | | 1.01% T |
| Merger Arbitrage | | | | | | | | |
| ARBNX | 03875R205 | Arbitrage I | 780.78 | 10,174.91 | 13.31 | 10,392.20 | 1.20% | 0.57% T |
| Global Macro | | | | | | | | |
| EGRSX | 27830W108 | Eaton Vance Gbl Macro Abs Ret Advtg R6 | 1,162.49 | 11,559.11 | 10.07 | 11,706.28 | 1.35% | 0.65% |
| LAOSX | 95768D509 | Western Asset Macro Opportunities IS | 1,102.78 | 11,536.02 | 11.55 | 12,737.10 | 1.47% | 0.70% |
| | | | | \$23,095.13 | | \$24,443.38 | | 1.35% T |
| Fund of Hedge Funds | | | | | | | | |
| BXMIX | 09257V201 | Blackstone Alternative Multi-Strategy I | 1,011.03 | 10,535.66 | 10.9 | 11,020.23 | 1.27% | 0.61% |
| QSPIX | 00203H420 | AQR Style Premia Alternative I | 1,061.84 | 10,764.35 | 8.55 | 9,078.77 | 1.05% | 0.50% |
| | | | | \$21,300.01 | | \$20,099.00 | | 1.11% T |
| REITs | | | | | | | | |
| ICF | 464287564 | iShares Cohen & Steers REIT ETF | 52.00 | 5,186.74 | 112.65 | 5,857.80 | 0.68% | 0.32% T |
| TOTAL ALTERNATIVES | | | | \$91,083.12 | | \$88,851.35 | | 4.91% T |
| TOTAL - ALL ASSETS | | | | \$1,731,134.16 | | \$1,809,799.69 | | 100.00% |

INVESTMENT PORTFOLIO SUMMARY - CAPITAL APPRECIATION

El Toro Water District - 401(k) Plan

Account Number: 6721071389
 Data as of: 06/30/2019

Portfolio Manager:
 Keith Stribling, CFA

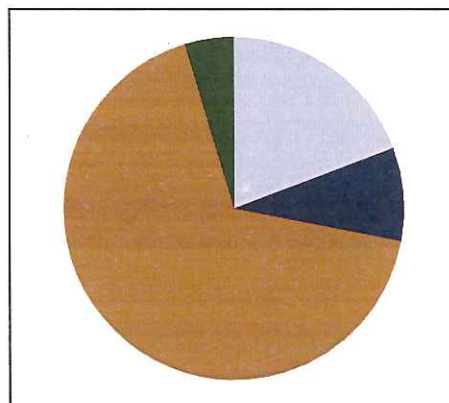
Account Snapshot

| Asset Class | Market Value | Tax Cost | Est. Annual Income | Current Yield (%) |
|--------------------|---------------------|---------------------|--------------------|-------------------|
| Cash & Equivalents | \$106,393.23 | \$106,393.23 | \$281.94 | 0.27% |
| Fixed Income | \$48,527.14 | \$46,754.10 | \$1,562.57 | 3.22% |
| Equities | \$371,397.15 | \$374,585.30 | \$5,704.66 | 1.54% |
| Alternatives | \$25,605.17 | \$25,548.88 | \$264.76 | 1.03% |
| Other | \$0.00 | \$0.00 | \$0.00 | 0.00% |
| Total | \$551,922.69 | \$553,281.51 | \$7,813.93 | 1.42% |

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

Asset Allocation

- 19.3% Cash & Equivalents
- 8.8% Fixed Income
- 67.3% Equities
- 4.6% Alternatives
- 0.0% Other



Income Summary (1, 2)

| | |
|---|----------------|
| Cash & Equivalents Income Earned YTD | \$142 |
| Taxable Fixed Income Income Earned YTD | \$500 |
| Tax-Exempt Fixed Income Income Earned YTD | \$0 |
| Equity Income Earned YTD | \$830 |
| Alternative Income Earned YTD | \$17 |
| Other Income Earned YTD | \$0 |
| Total | \$1,488 |

Net Gain/Loss Summary (3)

| | Realized | Unrealized |
|--------------------------|--------------|-----------------|
| Net Short Term Gain/Loss | \$206 | |
| Net Long Term Gain/Loss | \$0 | |
| Total | \$206 | -\$1,359 |

(1) As of 06/30/2019

(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 Second 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 | 82,082.1100 | \$82,082.11 | 1.00 | \$82,082.11 | 77.15% | 14.87% |
| FPZXX | n.a. | CASH FUND | 24,311.12 | \$24,311.12 | 1.00 | \$24,311.12 | 22.85% | 4.40% |
| TOTAL CASH | | | | \$106,393.23 | | \$106,393.23 | | 19.28% T |
| FIXED INCOME | | | | | | | | |
| Short-Term Bond Funds | | | | | | | | |
| VFSUX | 922031836 | Vanguard Short-Term Investment-Grade Adm | 483.07 | 5,082.32 | 10.71 | 5,173.63 | 10.66% | 0.94% |
| | | | | <u>\$5,082.32</u> | | <u>\$5,173.63</u> | | <u>0.94% T</u> |
| Intermediate-Term Bond Funds | | | | | | | | |
| DBLFX | 258620301 | DoubleLine Core Fixed Income I | 973.91 | 10,401.92 | 11.06 | 10,771.42 | 22.20% | 1.95% |
| DODIX | 256210105 | Dodge & Cox Income | 777.56 | 10,439.15 | 13.91 | 10,815.80 | 22.29% | 1.96% |
| PTRQX | 74440B884 | PGIM Total Return Bond R6 | 743.61 | 10,442.12 | 14.76 | 10,975.65 | 22.62% | 1.99% |
| PTTRX | 693390700 | PIMCO Total Return Instl | 1,042.57 | 10,388.59 | 10.35 | 10,790.64 | 22.24% | 1.96% |
| | | | | <u>\$41,671.78</u> | | <u>\$43,353.51</u> | | <u>7.85% T</u> |
| TOTAL FIXED INCOME | | | | \$46,754.10 | | \$48,527.14 | | 8.79% T |
| EQUITY | | | | | | | | |
| Large Cap Blend Funds | | | | | | | | |
| COFYX | 19766M709 | Columbia Contrarian Core Inst3 | 2,177.26 | 58,013.74 | 26.15 | 56,935.45 | 15.33% | 10.32% |
| VGIAIX | 921913208 | Vanguard Growth & Income Adm | 705.46 | 56,969.34 | 79.53 | 56,104.92 | 15.11% | 10.17% |
| | | | | <u>\$114,983.08</u> | | <u>\$113,040.37</u> | | <u>20.48% T</u> |
| Large Cap Value Funds | | | | | | | | |
| DODGX | 256219106 | Dodge & Cox Stock | 144.96 | 29,471.64 | 187.1 | 27,121.64 | 7.30% | 4.91% |
| PKAIX | 72202L462 | PIMCO RAE US Instl | 2,505.69 | 28,692.14 | 11.09 | 27,788.05 | 7.48% | 5.03% |
| | | | | <u>\$58,163.78</u> | | <u>\$54,909.69</u> | | <u>9.95% T</u> |
| Large Cap Growth Funds | | | | | | | | |
| HNACX | 411512528 | Harbor Capital Appreciation Retirement | 380.52 | 28,240.57 | 75.03 | 28,550.57 | 7.69% | 5.17% |
| LSITX | 52469H255 | ClearBridge Large Cap Growth IS | 490.29 | 24,656.73 | 52.84 | 25,906.71 | 6.98% | 4.69% |
| | | | | <u>\$52,897.30</u> | | <u>\$54,457.28</u> | | <u>9.87% T</u> |

HOLDINGS REPORT

El Toro Water District 401(k) - Capital Preservation

As of Second Quarter 2019

| TICKER | CUSIP | ASSET NAME | SHARES/UNITS | COST BASIS | PRICE | MARKET VALUE (MV) | MV AS % OF ASSET TYPE | MV AS % OF TOTAL |
|-------------------------------------|-----------|---|--------------|---------------------|--------|---------------------|-----------------------|------------------|
| Mid Cap Blend Funds | | | | | | | | |
| VO | 922908629 | Vanguard Mid-Cap ETF | 28.00 | 4,606.98 | 167.16 | 4,680.48 | 1.26% | 0.85% T |
| Small Cap Value Funds | | | | | | | | |
| UBVFX | 904504479 | Undiscovered Managers Behavioral Val R6 | 270.18 | 18,766.26 | 62.36 | 16,848.55 | 4.54% | 3.05% T |
| Small Cap Blend Funds | | | | | | | | |
| DCZRX | 24610B826 | Delaware Small Cap Core R6 | 410.78 | 10,184.76 | 22.74 | 9,341.09 | 2.52% | 1.69% |
| VB | 922908751 | Vanguard Small-Cap ETF | 59.00 | 8,707.87 | 156.66 | 9,242.94 | 2.49% | 1.67% |
| | | | | <u>\$18,892.63</u> | | <u>\$18,584.03</u> | | <u>3.37% T</u> |
| Small Cap Growth Funds | | | | | | | | |
| RSEJX | 92647Q363 | Victory RS Small Cap Growth R6 | 203.00 | 16,392.04 | 83.97 | 17,045.66 | 4.59% | 3.09% T |
| Foreign Large Value Funds | | | | | | | | |
| DODFX | 256206103 | Dodge & Cox International Stock | 217.98 | 9,540.39 | 41.66 | 9,080.96 | 2.45% | 1.65% T |
| Foreign Large Blend Funds | | | | | | | | |
| DFALX | 233203868 | DFA Large Cap International I | 1,639.77 | 34,705.10 | 22.4 | 36,730.80 | 9.89% | 6.66% |
| HEFA | 46434V803 | iShares Currency Hedged MSCI EAFE ETF | 383.00 | 11,357.31 | 29.82 | 11,421.06 | 3.08% | 2.07% |
| | | | | <u>\$46,062.41</u> | | <u>\$48,151.86</u> | | <u>8.72% T</u> |
| Foreign Large Growth Funds | | | | | | | | |
| MGRDX | 552746356 | MFS International Growth R6 | 257.71 | 8,933.41 | 34.96 | 9,009.61 | 2.43% | 1.63% T |
| Diversified Emerging Markets | | | | | | | | |
| HHHYX | 41665H797 | Hartford Schrodgers Emerging Mkts Eq Y | 1,631.93 | 25,347.02 | 15.68 | 25,588.66 | 6.89% | 4.64% |
| | | | | <u>\$25,347.02</u> | | <u>\$25,588.66</u> | | <u>4.64% T</u> |
| TOTAL EQUITY | | | | \$374,585.30 | | \$371,397.15 | | 67.29% T |

ALTERNATIVES

Market Neutral

| | | | | | | | | |
|-------|-----------|-----------------------------------|--------|----------|------|----------|-------|-------|
| QMNIX | 00191K799 | AQR Equity Market Neutral I | 116.05 | 1,291.32 | 9.85 | 1,143.04 | 0.31% | 0.21% |
| BSIKX | 09260B374 | BlackRock Strategic Income Opps K | 189.86 | 1,855.83 | 9.92 | 1,883.38 | 0.51% | 0.34% |

HOLDINGS REPORT

El Toro Water District 401(k) - Capital Preservation

As of Second Quarter 2019

| TICKER | CUSIP | ASSET NAME | SHARES/UNITS | COST BASIS | PRICE | MARKET VALUE (MV) | MV AS % OF ASSET TYPE | MV AS % OF TOTAL |
|----------------------------|-----------|---|--------------|---------------------|--------|----------------------|--------------------------|---------------------|
| | | | | \$3,147.15 | | \$3,026.42 | | 0.55% T |
| Managed Futures | | | | | | | | |
| AQMIX | 00203H859 | AQR Managed Futures Strategy I | 330.10 | 2,888.36 | 8.6 | 2,838.84 | 0.76% | 0.51% |
| AMFNX | 63873P825 | Natixis ASG Managed Futures Strategy N | 296.55 | 2,888.35 | 9.67 | 2,867.60 | 0.77% | 0.52% |
| | | | | \$5,776.71 | | \$5,706.44 | | 1.03% T |
| Merger Arbitrage | | | | | | | | |
| ARBNX | 03875R205 | Arbitrage I | 225.23 | 2,943.74 | 13.31 | 2,997.76 | 0.81% | 0.54% T |
| Global Macro | | | | | | | | |
| EGRSX | 27830W108 | Eaton Vance Gbl Macro Abs Ret Advtg R6 | 325.87 | 3,281.39 | 10.07 | 3,281.47 | 0.88% | 0.59% |
| LAOSX | 95768D509 | Western Asset Macro Opportunities IS | 301.09 | 3,273.18 | 11.55 | 3,477.64 | 0.94% | 0.63% |
| | | | | \$6,554.57 | | \$6,759.11 | | 1.22% T |
| Fund of Hedge Funds | | | | | | | | |
| BXMIX | 09257V201 | Blackstone Alternative Multi-Strategy I | 275.74 | 2,948.79 | 10.9 | 3,005.52 | 0.81% | 0.54% |
| QSPIX | 00203H420 | AQR Style Premia Alternative I | 256.71 | 2,473.19 | 8.55 | 2,194.87 | 0.59% | 0.40% |
| | | | | \$5,421.98 | | \$5,200.39 | | 0.94% T |
| REITs | | | | | | | | |
| ICF | 464287564 | iShares Cohen & Steers REIT ETF | 17.00 | 1,704.73 | 112.65 | 1,915.05 | 0.52% | 0.35% T |
| TOTAL ALTERNATIVES | | | | \$25,548.88 | | \$25,605.17 | | 4.64% T |
| TOTAL - ALL ASSETS | | | | \$553,281.51 | | \$551,922.69 | | 100.00% |

INVESTMENT PORTFOLIO SUMMARY - GROWTH

El Toro Water District - 401(k) Plan

Account Number: 6721041389
 Data as of: 06/30/2019

Portfolio Manager:
 Keith Stribling, CFA

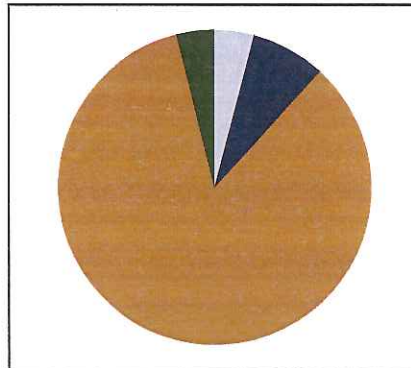
Account Snapshot

| Asset Class | Market Value | Tax Cost | Est. Annual Income | Current Yield (%) |
|--------------------|---------------------|---------------------|--------------------|-------------------|
| Cash & Equivalents | \$61,564.78 | \$61,564.78 | \$163.15 | 0.27% |
| Fixed Income | \$117,681.99 | \$116,672.14 | \$3,789.36 | 3.22% |
| Equities | \$1,276,221.86 | \$1,189,068.96 | \$19,602.77 | 1.54% |
| Alternatives | \$59,969.07 | \$61,515.25 | \$620.08 | 1.03% |
| Other | \$0.00 | \$0.00 | \$0.00 | 0.00% |
| Total | \$ 1,515,438 | \$ 1,428,821 | \$ 24,175 | 1.60% |

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

Asset Allocation

| | |
|-------|--------------------|
| 4.1% | Cash & Equivalents |
| 7.8% | Fixed Income |
| 84.2% | Equities |
| 4.0% | Alternatives |
| 0.0% | Other |



Income Summary (1, 2)

| | |
|---|----------------|
| Cash & Equivalents Income Earned YTD | \$331 |
| Taxable Fixed Income Income Earned YTD | \$988 |
| Tax-Exempt Fixed Income Income Earned YTD | \$0 |
| Equity Income Earned YTD | \$2,414 |
| Alternative Income Earned YTD | \$34 |
| Other Income Earned YTD | \$0 |
| Total | \$3,766 |

Net Gain/Loss Summary (3)

| | Realized | Unrealized |
|--------------------------|------------------|-----------------|
| Net Short Term Gain/Loss | \$21,515 | |
| Net Long Term Gain/Loss | \$124,926 | |
| Total | \$146,441 | \$86,617 |

(1) As of 06/30/2019

(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 Second 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 | (1,705.5000) | (\$1,705.50) | 1.00 | (\$1,705.50) | -2.77% | -0.11% |
| FPZXX | n.a. | CASH FUND | 63,270.28 | \$63,270.28 | 1.00 | \$63,270.28 | 102.77% | 4.18% |
| TOTAL CASH | | | | \$61,564.78 | | \$61,564.78 | | 4.06% T |
| FIXED INCOME | | | | | | | | |
| Short-Term Bond Funds | | | | | | | | |
| VFSUX | 922031836 | Vanguard Short-Term Investment-Grade Adm | 408.35 | 4,332.86 | 10.71 | 4,373.44 | 3.72% | 0.29% |
| | | | | \$4,332.86 | | \$4,373.44 | | 0.29% T |
| Intermediate-Term Bond Funds | | | | | | | | |
| DBLFX | 258620301 | DoubleLine Core Fixed Income I | 2,546.03 | 27,654.19 | 11.06 | 28,159.09 | 23.93% | 1.86% |
| DODIX | 256210105 | Dodge & Cox Income | 2,030.37 | 27,921.87 | 13.91 | 28,242.42 | 24.00% | 1.86% |
| PTRQX | 74440B884 | PGIM Total Return Bond R6 | 1,944.21 | 28,320.39 | 14.76 | 28,696.47 | 24.38% | 1.89% |
| PTRRX | 693390700 | PIMCO Total Return Instl | 2,725.66 | 28,442.83 | 10.35 | 28,210.57 | 23.97% | 1.86% |
| | | | | \$112,339.28 | | \$113,308.55 | | 7.48% T |
| TOTAL FIXED INCOME | | | | \$116,672.14 | | \$117,681.99 | | 7.77% T |
| EQUITY | | | | | | | | |
| Large Cap Blend Funds | | | | | | | | |
| COFYX | 19766M709 | Columbia Contrarian Core Inst3 | 6,937.63 | 157,622.18 | 26.15 | 181,418.92 | 14.22% | 11.97% |
| VGIAX | 921913208 | Vanguard Growth & Income Adm | 2,260.02 | 163,540.96 | 79.53 | 179,739.55 | 14.08% | 11.86% |
| | | | | \$321,163.14 | | \$361,158.47 | | 23.83% T |
| Large Cap Value Funds | | | | | | | | |
| DODGX | 256219106 | Dodge & Cox Stock | 476.49 | 89,856.39 | 187.1 | 89,151.28 | 6.99% | 5.88% |
| PKAIX | 72202L462 | PIMCO RAE US Instl | 8,130.41 | 88,421.14 | 11.09 | 90,166.20 | 7.07% | 5.95% |
| | | | | \$178,277.53 | | \$179,317.48 | | 11.83% T |
| Large Cap Growth Funds | | | | | | | | |
| HNACX | 411512528 | Harbor Capital Appreciation Retirement | 1,216.38 | 82,679.68 | 75.03 | 91,265.22 | 7.15% | 6.02% |
| LSITX | 52469H255 | ClearBridge Large Cap Growth IS | 1,687.91 | 79,777.15 | 52.84 | 89,189.38 | 6.99% | 5.89% |
| | | | | \$162,456.83 | | \$180,454.60 | | 11.91% T |

HOLDINGS REPORT

El Toro Water District 401(k) - Capital Preservation

As of Second Quarter 2019

| TICKER | CUSIP | ASSET NAME | SHARES/UNITS | COST BASIS | PRICE | MARKET VALUE (MV) | MV AS % OF ASSET TYPE | MV AS % OF TOTAL |
|-------------------------------------|-----------|---|--------------|-----------------------|--------|-----------------------|--------------------------|---------------------|
| Mid Cap Blend Funds | | | | | | | | |
| VO | 922908629 | Vanguard Mid-Cap ETF | 317.00 | 50,302.45 | 167.16 | 52,989.72 | 4.15% | 3.50% T |
| Small Cap Value Funds | | | | | | | | |
| UBVFX | 904504479 | Undiscovered Managers Behavioral Val R6 | 961.56 | 63,117.84 | 62.36 | 59,962.57 | 4.70% | 3.96% T |
| Small Cap Blend Funds | | | | | | | | |
| DCZRX | 24610B826 | Delaware Small Cap Core R6 | 1,395.85 | 33,306.65 | 22.74 | 31,741.63 | 2.49% | 2.09% |
| VB | 922908751 | Vanguard Small-Cap ETF | 202.00 | 29,760.95 | 156.66 | 31,645.32 | 2.48% | 2.09% |
| | | | | <u>\$63,067.60</u> | | <u>\$63,386.95</u> | | <u>4.18% T</u> |
| Small Cap Growth Funds | | | | | | | | |
| RSEJX | 92647Q363 | Victory RS Small Cap Growth R6 | 723.97 | 58,460.32 | 83.97 | 60,791.51 | 4.76% | 4.01% T |
| Foreign Large Value Funds | | | | | | | | |
| DODFX | 256206103 | Dodge & Cox International Stock | 843.00 | 35,024.78 | 41.66 | 35,119.26 | 2.75% | 2.32% T |
| Foreign Large Blend Funds | | | | | | | | |
| DFALX | 233203868 | DFA Large Cap International I | 4,563.75 | 97,258.27 | 22.4 | 102,228.09 | 8.01% | 6.75% |
| HEFA | 46434V803 | iShares Currency Hedged MSCI EAFE ETF | 1,699.00 | 44,593.39 | 29.82 | 50,664.18 | 3.97% | 3.34% |
| | | | | <u>\$141,851.66</u> | | <u>\$152,892.27</u> | | <u>10.09% T</u> |
| Foreign Large Growth Funds | | | | | | | | |
| MGRDX | 552746356 | MFS International Growth R6 | 1,128.73 | 34,102.32 | 34.96 | 39,460.47 | 3.09% | 2.60% T |
| Diversified Emerging Markets | | | | | | | | |
| HHHYX | 41665H797 | Hartford Schrodgers Emerging Mkts Eq Y | 5,783.71 | 81,244.49 | 15.68 | 90,688.56 | 7.11% | 5.98% |
| | | | | <u>\$81,244.49</u> | | <u>\$90,688.56</u> | | <u>5.98% T</u> |
| TOTAL EQUITY | | | | \$1,189,068.96 | | \$1,276,221.86 | | 84.21% T |

ALTERNATIVES

Market Neutral

| | | | | | | | | |
|-------|-----------|-----------------------------------|--------|----------|------|----------|-------|-------|
| QMNIX | 00191K799 | AQR Equity Market Neutral I | 278.22 | 3,284.53 | 9.85 | 2,740.49 | 0.21% | 0.18% |
| BSIKX | 09260B374 | BlackRock Strategic Income Opps K | 476.01 | 4,701.59 | 9.92 | 4,722.02 | 0.37% | 0.31% |

HOLDINGS REPORT

El Toro Water District 401(k) - Capital Preservation

As of Second Quarter 2019

| TICKER | CUSIP | ASSET NAME | SHARES/UNITS | COST BASIS | PRICE | MARKET VALUE (MV) | MV AS % OF ASSET TYPE | MV AS % OF TOTAL |
|----------------------------|-----------|---|--------------|-----------------------|--------|-----------------------|-----------------------|------------------|
| | | | | \$7,986.12 | | \$7,462.51 | | 0.49% T |
| Managed Futures | | | | | | | | |
| AQMIX | 00203H859 | AQR Managed Futures Strategy I | 703.74 | 6,948.78 | 8.6 | 6,052.14 | 0.47% | 0.40% |
| AMFNX | 63873P825 | Natixis ASG Managed Futures Strategy N | 661.88 | 7,010.54 | 9.67 | 6,400.34 | 0.50% | 0.42% |
| | | | | <u>\$13,959.32</u> | | <u>\$12,452.48</u> | | 0.82% T |
| Merger Arbitrage | | | | | | | | |
| ARBNX | 03875R205 | Arbitrage I | 541.87 | 7,102.86 | 13.31 | 7,212.24 | 0.57% | 0.48% T |
| Global Macro | | | | | | | | |
| EGRSX | 27830W108 | Eaton Vance Gbl Macro Abs Ret Advtg R6 | 743.84 | 7,378.22 | 10.07 | 7,490.45 | 0.59% | 0.49% |
| LAOSX | 95768D509 | Western Asset Macro Opportunities IS | 678.75 | 7,137.06 | 11.55 | 7,839.59 | 0.61% | 0.52% |
| | | | | <u>\$14,515.28</u> | | <u>\$15,330.04</u> | | 1.01% T |
| Fund of Hedge Funds | | | | | | | | |
| BXMIX | 09257V201 | Blackstone Alternative Multi-Strategy I | 680.92 | 7,121.77 | 10.9 | 7,422.06 | 0.58% | 0.49% |
| QSPIX | 00203H420 | AQR Style Premia Alternative I | 718.95 | 7,329.72 | 8.55 | 6,146.99 | 0.48% | 0.41% |
| | | | | <u>\$14,451.49</u> | | <u>\$13,569.05</u> | | 0.90% T |
| REITs | | | | | | | | |
| ICF | 464287564 | iShares Cohen & Steers REIT ETF | 35.00 | 3,500.18 | 112.65 | 3,942.75 | 0.31% | 0.26% T |
| TOTAL ALTERNATIVES | | | | \$61,515.25 | | \$59,969.07 | | 3.96% T |
| TOTAL - ALL ASSETS | | | | \$1,428,821.13 | | \$1,515,437.70 | | 100.00% |

DISCLOSURES

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MINUTES OF THE REGULAR MEETING
OF THE
BOARD OF DIRECTORS
OF THE
EL TORO WATER DISTRICT
July 25, 2019

President Vergara called the meeting of the Board of Directors of the ELTORO WATER DISTRICT to order at 7:30 o'clock a.m. on July 25, 2019 at the El Toro Water District Administrative Offices, 24251 Los Alisos Boulevard, Lake Forest, California.

Director Havens 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, GILBERT J. GRANITO, General Counsel, POLLY WELSCH, Recording Secretary, BILL MOORHEAD, MNWD Director, and RICHARD BABBE, CAMP Representative.

Oral Communications - Public Comments

President Vergara 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.

Items Received Too Late To Be Agendized

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

Presentation of Awards, Recognitions and Introductions

There were no awards.

CAMP Presentation

Mr. Babbe stated that economically we are expecting mixed economic news here and globally. He further stated that the market has been pretty volatile lately.

Director Freshley asked where they get their information from. Mr. Babbe replied that their information is obtained from the US Government.

Mr. Babbe stated that the 2-Year US Treasury History is trending down, and although the US Treasury Yields have fallen, inversion deepens. He stated that manufacturing is coming down, and consumer confidence as well.

Mr. Babbe stated that 2020 will not be a blessed economy due to worries about trade wars with China, and increasing interest rates. He further stated that we should see two rate cuts in 2019, depending on how the economy is doing.

Mr. Babbe stated that they haven't been buying anything new, per direction of the Board. He further stated that the portfolio has gotten very short.

Mr. Babbe stated that on the Total Return Performance, we saw return numbers very low due to a longer benchmark. He further stated that Portfolio Earnings reflect Market Value Earnings, and Book Value Earnings.

Mr. Babbe stated that the Yield Comparison with no new investments, the managed portfolio's yield remains relatively unchanged. He further stated that short-term rates have trended down given the market's expectations of upcoming cuts in federal funded target rates.

Vice President Monin asked what is the yield on the CAMP and LAIF funds. Mr. Babbe replied that the yield on CAMP is 2.39, and the current quarter to date yield on LAIF was at 2.37.

Vice President Monin asked how the CalTrust fund has done. Mr. Babbe replied that it has done well recently. Vice President Monin asked Mr. Babbe to check into this fund to see if it could work for our portfolio, and let Ms. Shahbakhti know.

Director Havens asked if CAMP discloses their fees. Mr. Babbe replied yes, their fees are 10 basis points per year, charged monthly.

At approximately 7:56 o'clock a.m. Mr. Babbe left the meeting.

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.

2.a Consider approving the June 27, 2019 Board meeting minutes.

2.b Consider approving the Directors to attend the CSDA Annual Conference September 25-28, 2019 in Anaheim, CA

2.c Consider approving the Directors to attend the American Water Resource Association (AWRA) conference November 3-7, 2019 in Salt Lake City, UT

2.d Consider approving the Directors to attend the ACWA Fall Conference December 2-6 in San Diego, CA

President Vergara stated that he is pulling items 2.b, 2.c, and 2.d from the Consent Calendar for further discussion.

President Vergara asked for a Motion.

Motion: Director Gaskins made a Motion, seconded by Director Havens, and unanimously carried across the Board to approve the removal of items 2.b, 2.c, and 2.d from the Consent Calendar, and to approve item 2.a of the Consent Calendar as modified.

Roll Call Vote:

| | |
|----------------------|-----|
| Director Gaskins | aye |
| Vice President Monin | aye |
| President Vergara | aye |
| Director Havens | aye |
| Director Freshley | aye |

Approval of Items Removed from the Consent Calendar

Item 2.b (CSDA Conference)

President Vergara inquired if anyone has previously attended CSDA conferences. Vice President Monin replied yes he had.

Director Havens stated that she is attending a one-day training at the CSDA conference in order to obtain her Governance training which is a requirement for new Board members.

Item 2.b (American Water Resources Association (AWRA) Conference)

Vice President Monin stated that this conference is similar to the ACWA conferences where water issues throughout the country are discussed.

Director Freshley stated that she feels some of the conferences should be for staff to attend, and not the Board members.

Director Gaskins stated that he feels the Board members should choose the conferences important to the District and stay within their budget.

President Vergara stated that any expenses incurred by a Director in excess of his or her budget will be at the Directors personal expense.

President Vergara asked for a Motion.

Motion: Director Freshley made a Motion, seconded by Director Gaskins to approve the Directors to attend the CSDA conference and the ACWA Fall Conference (items 2.b and 2.d on the Consent Calendar). Motion carried 4-1 across the Board.

President Vergara asked for a Roll Call Vote:

| | |
|-----------------------|---------|
| Director Freshley: | nay |
| Director Havens: | nay |
| Director Gaskins: | nay |
| Vice President Monin: | abstain |
| President Vergara: | nay |

Director/Committee Reporting

Director Gaskins stated that he attended the ISDOC meeting, the WACO meeting, the OCWA luncheon, the Lake Forest Legislative luncheon, a MWDOC Water Update meeting, and will be attending an HR Committee meeting next week, and an ACWA Region 10 meeting.

Vice President Monin stated that he attended the Audit Committee meeting, and plans to attend the HR Committee meeting next week. He also attended the WACO Planning Committee meeting, the MWDOC/MET Directors workshop, the WACO meeting, the ISDOC Executive Committee meeting, the MWDOC Admin/Finance meeting, the OCWA luncheon, the Laguna Woods City Council meeting, and will appear on the TV-6 program tomorrow.

Director Havens stated that she attended the OCWA luncheon, the WACO meeting, and the MWDOC Public Affairs meeting.

Director Freshley stated that she attended the Audit Committee meeting.

President Vergara stated that he attended the MWDOC Planning/Operations meeting, the MWDOC/MET Directors workshop, the MWDOC Admin/Finance meeting, the WACO meeting, the Chair/GM meeting, the WACO Planning meeting, the OCWA luncheon, the Legislative luncheon, a meeting with MNWD Directors, a MET briefing to community leaders, and he plans to attend the ACWA Region 10 meeting.

General Manager Action Items

CSDA Board of Directors – Southern Network – Seat B Election

Mr. Cafferty stated that the District is in the Southern Network of CSDA, and Seat B is vacant. He further stated that there are 7 candidates applying for the seat, which are included in the Board package.

President Vergara asked for a Motion.

Motion: Vice President Monin made a Motion, seconded by Director Gaskins, and unanimously carried across the Board to support Kathleen Tieg as the candidate for the CSDA – Southern Network – Seat B board position, and to authorize the General Manager to complete the electronic ballot and email to CSDA by the August 9, 2019 deadline.

Roll Call Vote:

| | |
|----------------------|-----|
| Director Freshley | aye |
| Director Havens | aye |
| President Vergara | aye |
| Vice President Monin | aye |
| Director Gaskins | aye |

Nomination for Office of Secretary

President Vergara asked for a Motion.

Motion: Director Freshley made a Motion, seconded by Vice President Monin, and unanimously carried across the Board to appoint Dennis P. Cafferty, General Manager to the Office of Board Secretary.

Roll Call Vote:

| | |
|----------------------|-----|
| Director Freshley | aye |
| Director Havens | aye |
| President Vergara | aye |
| Vice President Monin | aye |
| Director Gaskins | aye |

Nomination for Office of Assistant Secretary

Motion: Vice President Monin made a Motion, seconded by Director Gaskins, and unanimously carried across the Board to appoint Judy Cimorell, HR Manager, to the Office of Assistant Board Secretary.

Roll Call Vote:

| | |
|----------------------|-----|
| Director Freshley | aye |
| Director Havens | aye |
| President Vergara | aye |
| Vice President Monin | aye |
| Director Gaskins | aye |

Action:

President Vergara gave the Oath of Office to Mr. Cafferty and Ms. Cimorell, who were sworn in as the Office of Board Secretary, and the Office of Assistant Board Secretary.

General Manager Information Items

General Manager's Monthly Report

Mr. Cafferty stated that staff has incorporated the State Water report table into the GM report.

Director Gaskins asked if Mr. Cafferty attends any neighboring agency General Manager meetings. Mr. Cafferty replied that MWDOC has a Manager meeting on a monthly basis, and he also attends other meetings where neighboring agency Managers are in attendance.

Vice President Monin asked on the Customer Service report what is the Outside Utility Districts item. Mr. Cafferty replied that the customer was calling the wrong District for their water service.

Director Havens asked if service calls tend to go up as the weather gets hotter. Ms. Shahbakhti replied no.

President Vergara asked that the Customer Service department staff be appreciated for the professional work they provide our customers.

At approximately 8:30 o'clock a.m. Mr. Moorhead left the meeting.

Legislative Reports

Mr. Cafferty stated that SB 307 legislation pertains to the Cadiz project relative to local agencies.

Public Education and Outreach/Water Conservation Reports

Mr. Cafferty stated that Ms. Seitz is on vacation. He further stated that the Laguna Woods Dog Park Grand Opening is this Saturday and District staff will participate with the emergency water trailer.

SOCWA Reports

There was no meeting.

MWDOC

Vice President Monin stated that at the MWDOC Planning/Operations meeting they discussed pressure regulating valves.

Vice President Monin stated that at the MWDOC/MET Directors workshop they discussed water supply updates, and MET's Outreach program and Solar Cups, and the Delta Conveyance project.

Vice President Monin stated that at the MWDOC Admin/Finance meeting they discussed numerous issues, including a contract award to OPEB Actuary Services, policy discussions at Board meetings, Personnel Manual changes, contractor for the a/c in the computer room, contract for Member Agency Compliance with AWIA, and Mesa's request for contributions for the technical consulting and advisory assistance for the Buried Utilities Commission (BUC).

Director Havens stated that at the MWDOC Public Affairs meeting they had a presentation by Soto Resources on MWDOC/s grants tracking, reporting, and acquisition program. Mr. Cafferty stated that they are proposing a shutdown of the Deimer plant for 15-16 days March 3-18, 2020. He further stated that MET is considering deferring the shutdown due to PFAS water quality concerns. Mr. Cafferty stated that this topic was also discussed at the MWDOC Managers meeting. He further stated that YLWD is particularly vulnerable as it may require all 11 of their wells to shut down and rely completely on MET water.

Director Havens suggested informing our customers that ETWD does not have groundwater and PFAS issues. Mr. Cafferty replied that staff will communicate with our customers through outreach efforts.

LAFCO

There was no meeting.

SOCWMA

Mr. Cafferty stated that there was a Management Committee meeting, but he was not able to attend.

ISDOC Meetings

Vice President Monin stated that they discussed the OCCOG Alternate position. He further stated that Supervisor Lisa Bartlett will be speaking at the next quarterly meeting.

WACO Meetings

Vice President Monin stated that there was an ACWA report, a MET report, and Solar Cup recap. He further stated that Norberto Santana, Founder of Voice of OC gave a presentation.

Vice President Monin stated that he attended the WACO Planning Committee where they discussed several topics and issues.

City Coordination Efforts

There were no comments.

Committee and General Information

Director Havens, Director Gaskins, and Director Freshley mentioned that they would like to take a tour of the Water Recycling Plant.

Dates to Remember

There were no comments.

Carry-Over Pending Matters

There were no pending matters.

Attorney Report

Mr. Granito reported that there is no need for a Closed Session today.

Adjournment

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

Motion: Director Havens moved, seconded by Director Gaskins and unanimously carried that today's meeting be hereby adjourned at 9:30 o'clock a.m. to Thursday, August 22, 2019 at 7:30 o'clock a.m. at the District's Administrative Offices, 24251 Los Alisos Blvd., Lake Forest, California.

Roll Call Vote:

| | |
|----------------------|-----|
| Director Gaskins | aye |
| Vice President Monin | aye |
| Director Havens | aye |
| President Vergara | aye |
| Director Freshley | aye |

Respectfully submitted,

POLLY WELSCH
Recording Secretary

APPROVED:

JOSE F. VERGARA, 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

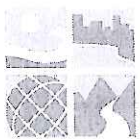
From: Polly Welsch
Sent: Tuesday, June 25, 2019 3:46 PM
To: Mark Monin <mmonin@etwd.com>
Subject: RE: 2 Field Trips = 1 Amazing Time in Salt Lake with AWRA

Much better. Let me know if Jose approves this or not.

From: Mark Monin
Sent: Tuesday, June 25, 2019 3:45 PM
To: Polly Welsch <pwelsch@etwd.com>
Subject: FW: 2 Field Trips = 1 Amazing Time in Salt Lake with AWRA

From: American Water Resources Association <info@awra.org>
Sent: Monday, June 24, 2019 12:15 PM
To: Mark Monin <mmonin@etwd.com>
Subject: 2 Field Trips = 1 Amazing Time in Salt Lake with AWRA

[View this email in your browser](#)



AMERICAN
WATER RESOURCES
ASSOCIATION

AWRA 2019 ANNUAL
WATER RESOURCES CONFERENCE

November 3-7, 2019

Sheraton Salt Lake City Hotel
Salt Lake City, UT

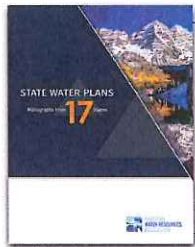
(\$ 595)

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OFFICIAL

REGION 10 Board Ballot

2020-2021
TERM

CLEAR FORM



Please return completed ballot by September 30, 2019

E-mail: regionelections@acwa.com
Mail: ACWA
910 K Street, Suite 100
Sacramento, CA 95814

General Voting Instructions:

- 1 You may either vote for the slate recommended by the Region 10 Nominating Committee or vote for individual region board members (please note rules & regulations for specific qualifications). Mark the appropriate box to indicate your decision.
- 2 Complete your agency information. The authorized representative is determined by your agency in accordance with your agency's policies and procedures.

Region 10 Rules & Regulations:

The chair and vice chair shall be from different counties. The 2020-2021 Term shall consist of a Chair and 2 Board Members from San Diego County and a Vice Chair and 3 Board Members from Orange County. At least one of the chair or vice chair positions must be an elected/appointed director from a member agency.

1

Nominating Committee's Recommended Slate

I concur with the Region 10 Nominating Committee's recommended slate below.

CHAIR: DeAna Verbeke, Board Member, Helix Water District (San Diego County)

VICE CHAIR: Cathy Green, Director, Orange County Water District (Orange County)

BOARD MEMBERS:

- **Jim Atkinson**, Director, Mesa Water District (Orange County)
- **Betty Evans**, Director/Vice President, Vallecitos Water District (San Diego County)
- **Charles T. Gibson**, Board Member, Santa Margarita Water District (Orange County)
- **Shauna Lorange**, Department Director, City of San Diego Public Utilities (San Diego County)
- **George Murdoch**, Director, East Orange County Water District (Orange County)

OR

Individual Board Candidate Nominations

(See Rules & Regulations before selecting)

I do not concur with the Region 10 Nominating Committee's recommended slate. I will vote for individual candidates below as indicated.

CANDIDATES FOR CHAIR: (CHOOSE ONE)

- Shauna Lorange**, Dept. Director, City of San Diego Public Utilities (San Diego County)
- DeAna Verbeke**, Board Member, Helix Water District (San Diego County)

CANDIDATES FOR VICE CHAIR: (CHOOSE ONE)

- Betty Evans**, Director/Vice President, Vallecitos Water District (San Diego County)
- Cathy Green**, Director, Orange County Water District (Orange County)
- Shauna Lorange**, Dept. Director, City of San Diego Public Utilities (San Diego County)

CANDIDATES FOR BOARD MEMBERS: (MAX OF 5 CHOICES)

- Jim Atkinson**, Director, Mesa Water District (Orange County)
- Betty Evans**, Director/Vice President, Vallecitos Water District (San Diego County)
- Charles T. Gibson**, Board Member, Santa Margarita Water District (Orange County)
- Cathy Green**, Director, Orange County Water District (Orange County)
- Hayden Hamilton**, Director, Rainbow Municipal Water District (San Diego County)
- Shauna Lorange**, Dept. Director, City of San Diego Public Utilities (San Diego County)
- Mark Monin**, Vice President, El Toro Water District (Orange County)
- George Murdoch**, Director, East Orange County Water District (Orange County)
- Peer Swan**, Board Director, Irvine Ranch Water District (Orange County)
- Richard L. Vasquez**, Vice President, Board of Directors, Division 2, Vista Irrigation District (San Diego County)
- DeAna Verbeke**, Board Member, Helix Water District (San Diego County)

2

AGENCY NAME

AUTHORIZED REPRESENTATIVE

DATE



El Toro Water District

"A District of Distinction"

Serving the Public - Respecting the Environment

August 14, 2019

Orange County Water District
Attention: Cathy Green
18700 Ward Street
Fountain Valley, CA 92708



Board of Directors

Jose F. Vergara
President

Mark L. Monin
Vice President

Kathryn Freshley
Director

Mike Gaskins
Director

Kay Havens
Director

General Manager

Dennis P. Cafferty

Treasurer

Neely Shahbakhfi

Re: Mark Monin for ACWA Region 10 Board Member (2020-2021 Term)

Dear ACWA Region 10 Board Members,

I would be honored to serve as a Region 10 Board member for the Association of California Water Agencies and would love to speak with your District.

I am a Director and Vice President on the El Toro Water District Board, First Vice President of the Independent Special Districts of Orange County, and Vice Chairman of the Orange County Airport Land Use Commission. I was also a PCF Fire Fighter with the Orange County Fire Authority.

Most importantly, I have been very active at ACWA: Member of the Finance, Energy and Business Development Committees and recently made Chairman of the ACWA Education / Member of the Budget Sub-committees. I have moderated many breakout sessions at the ACWA conferences.

I look forward to working with the other ACWA Region 10 Board Members to achieve greatness. I feel I can collaborate with the ACWA Region 10 Board to provide valuable information and presentations on issues that affect statewide Wholesale and Retail Water Agencies which can help stimulate important discussions and solutions in the future.

I am committed to provide grassroots support to ACWA's legislative/regulatory agenda to balance the benefit of ACWA's member agencies. I support collaboration / education between all of the ACWA regions (especially Region 10) and share similar goals/objectives to preserve/provide reliable and quality water supply to meet near and far term urban and agricultural requirements in an environmentally sensitive way. I am extremely motivated to bridge water supply gaps throughout the state and ensure practical/affordable solutions. Of importance:

- Continue to identify where multiple regions can work together to develop new water supplies and partnerships that advance projects such as desalination, indirect/direct potable reuse, local/regional surface/groundwater storage and storm water capture and treatment where economically and environmentally feasible.
- Advance local, state and federal collaboration to identify economical solutions to prevent and/or mitigate any negative water quality impacts related to PFAS (PFOAs//PFOSs) in groundwater and the cost and environmental implications with increased use of imported water.
- Regulators are targeting long-term water use standards statewide. It is essential that implementation of the regulations be both equitable and reasonably reflect local conditions.

Please see the accompanying resume outlining my experience and education. I would love to hear your thoughts on how we can make ACWA even better and please contact me with your input, ideas or questions on my experience or platform. I can be reached at (949) 939-6612 or mmonin@etwd.com.

Respectfully,

Mark Monin, Vice President

Mark L. Monin
3371 Punta Alta Unit 3E
Laguna Woods, CA 92637
(949) 939-6612
markmonin@msn.com



Mark Monin serves as Vice President, Board of Directors at the EL Toro Water District. Senior Vice President at Raymond James, with over 38 years in the securities industry. Mark is also a former firefighter and has experience in the aviation industry, with pilot-FAA Licenses private, commercial, instrument and multi engine FAA licenses and has over 2000 total hours PIC.

Professional Experience

Water District

- El Toro Water District, Vice President Board of Directors, Lake Forest, CA 2018 -Present
- ISDOC Vice Present 2016- Present
- ACWA Chair of Education Sub Committee 2019-Present
- ACWA Finance Committee 2016 – Present
- ACWA Energy Committee 2017 – Present
- ACWA Business Development Committee
- ACWA monitored many Breakout sessions at the ACWA conferences 2016 – Present

Financial Investment/Securities Industry (35 Years)

- Raymond James Financial Services, Newport Beach 2009-current
- Oppenheimer & Co. Newport Beach, California 2005-2009
- Morgan Stanley, Sales Manager / Financial Advisor, Los Angeles / Orange County 1998 - 2005
- Merrill Lynch, Manager / Financial Advisor , Los Angeles / Orange County 1994 - 1998
- Prudential Securities, Assistant Manager, Anaheim 1991 – 1994

Aviation Experience / Aviation Organizations / Community Involvement

- Pilot Data & FAA Licenses
 - Private
 - Commercial
 - Instrument
 - Multi engine
 - Over 2000 total hours PIC since 1977
- Vice Chairman of the Orange County Airport Commission (Land Use) 2015-present
- Adjunct Professor at California Baptist University, Riverside, CA 2015- Present
 - Teaches Aviation Law and Aviation Finance
- Civil Air Patrol (Auxiliary United States Air Force) from 1992-1996
 - *Aerial and ground search & rescue,*
- *Civil Air Patrol Aerial Disaster inspection, Orange County, CA*
 - *DEA and Customs assistance in aerial surveillance, air transport from 1992-1996*
- Flying Samaritans/ Liga
 - Free medical clinics; fly physicians/medical professionals to Mexico 1995-present
- Angel Flight Pilot
 - Provides transportation to medical treatment for those who cannot afford/tolerate public transportation, 1998-present
- Southern California Pilots Association
 - To provide a collective voice for General Aviation at our So CA Airports.
 - Develop a positive working relationship with the airport administration.
 - Foster camaraderie amongst So CA Pilots with aviation related
 - Enhance safety and education in the So CA Pilot community.
- Orange County Pilots Association (OCPA)
 - OCPA is an association of aviation enthusiasts with the purpose of promoting aviation at the Orange County Airport
- Experimental Aviation Association (EAA)

- Experimental Aircraft Association based in Oshkosh, Wisconsin, encourages and supports recreational aviation.

Security Experience

- Saddleback Church
 - *Supervisor Irvine South Campus 2014-2018*

Firefighter Experience

- Orange County Fire Authority
 - *PCF/ Firefighter/Engineer/ search & rescue/ medical training (first responder) 1988-1995*
- Twin District Fire Department, Lancaster, NY
 - *Firefighter/ Engineer/ search & rescue/ medical training (first responder) 2005-2006*
- Lancaster Fire Department, Lancaster, NY
 - *Firefighter/ Engineer/ search & rescue/ medical training (first responder) 1982-1984*
- Egypt Fire Department, Rochester/Perrington, NY
 - *Firefighter/ Engineer/ search & rescue/ medical training (first responder) 1985-1987*

Boards/Committees/Community Involvement

- El Toro Water District, Board of Directors 2015 – Present
- Vice Chairman of the Orange County Airport Land Use Commission 2015 – Present
- Finance Committee of The Association of California Water Agencies and its Education Subcommittee, Investment Subcommittee 2015 – Present
- South Orange County Watershed Management Area Executive Committee
- Independent Special Districts of Orange County (ISDOC)
- Water Advisory Committee of Orange County (WACO)
- Orange County Water Association (OCWA)
- City of Laguna Woods Public Safety Committee Chairman 2012-2015 Past Chairman
- City of Laguna Woods Landscape Committee, Past Member
- Newport Beach Chamber of Commerce, Past Member
- Irvine Chamber of Commerce, Past Member

Education/Licensure

- Pepperdine University, Malibu California, Masters in Business Administration, 2002
- The Wharton School, University Of Pennsylvania, Senior Financial Advisor
- The Wharton School, University Of Pennsylvania, Management Training Program
- Institute of Investment Management Consulting, Investment Management Consultant
- The Institute of Business & Finance: Certified Annuity & Fund Specialist
- Board Certified in Asset Allocation
- Canisius College, Buffalo New York, BS/Finance, 1981
- University of Buffalo, Aeronautical Engineering, 1978
- Federal Aviation Administration, Multi Engine, 2000
- New York Stock Exchange, Series 8, Branch Manager, 1990
- National Association of Securities Dealers, Series 65, Financial Planning, since 1989
- California Department of Real Estate, since 1988
- National Association of Securities Dealers, Series 3, Futures, since 1988
- National Association of Securities Dealers, Series, Options Principal, since 1983
- National Association of Securities Dealers, Series 24, Principal Supervisor, since 1983
- National Association of Securities Dealers, Series 63, State Licensing, since 1981
- Securities Licensed in California, Colorado, Connecticut, Delaware, Georgia, Iowa, Illinois, Indiana, Louisiana, Maryland, New Jersey, New York, Ohio, Pennsylvania
- National Association of Securities Dealers, Series 7, 1981, Financial Advisor
- Federal Aviation Administration, Commercial, 1979
- Federal Aviation Administration, Instrument, 1978
- Federal Aviation Administration, Private, 1977

BOARD OF DIRECTORS

SAUNDRA F. JACOBS
BETTY H. OLSON, Ph.D.
CHARLES GIBSON
JUSTIN McCUSKER

DANIEL R. FERONS
GENERAL MANAGER



Santa Margarita Water District

August 2, 2019

The Honorable Jose Vergara
President
El Toro Water District
PO Box 4000
Laguna Hills, CA 92654

RECEIVED

AUG 12 2019

EL TORO
WATER DISTRICT

RE: ACWA Region 10 Board

Dear President Vergara:

I am delighted to announce my candidacy for re-election to the ACWA Region 10 Board of Directors. I would be honored to have your support again for this important seat.

Since my election to the Santa Margarita Water District Board of Directors in 2012, I have actively participated in ACWA at both the Region 10 level and on the statewide Federal Affairs Committee. Over my last two terms on the Region 10, I have heard the unique water policy needs of our region and have contributed in helping address them. I have worked to develop the Region's work programs, policy initiatives and educational events. I also serve as an alternate to the ACWA Board representing Region 10 and participating in State-level meetings in that capacity. Currently, I am the designated Region 10 Director to report on federal matters in my capacity on ACWA's statewide Federal Affairs Committee.

I look forward to continuing my contributions to ACWA through my technical skills as a policymaker and manager--applying my 30 years of experience in both the public and private sectors. I have worked toward the mutual goals of water reliability and efficient water use. I also coordinate with leaders throughout ACWA's other regions, including those in allied industries, and nationally.

I have enclosed some background information on my experience as well as my platform for re-election to the Region 10 Board. I would be delighted to appear at one of your upcoming meetings to discuss my candidacy and answer any questions you may have. It would be my honor to serve you and our organizations again and I humbly ask for your vote and support.

I hope you will contact me at 949/485-0658 or at charlesg@smwd.com if you have any questions.

Sincerely,

Charles T. "Chuck" Gibson
Santa Margarita Water District
Board of Directors

c: Robert R. Hill, General Manager

Charles T. "Chuck" Gibson

Candidate for re-election, ACWA Region 10 Board of Directors

Special District Organizations

- Santa Margarita Water District, Board Member (Current; Elected Board Member since 2012)
- Association of California Water Agencies (ACWA) Region 10, Alternate Board Member (Current; since 2016)
- ACWA Region 10 Federal Affairs Committee, Member (Current, since 2012)
- California Special Districts Association, Member
- Orange County Water Association, Member
- Santiago Aqueduct Commission, Alternate Board Member
- San Juan Basin Authority, Alternate Board Member
- Santa Margarita Dana Point Authority, Board Member
- California Sanitation Risk Management Authority, Alternate Board Member

Professional Organizations

- Co-founded community civic council
- Experience homeowner's association director

Platform

Since my election as Director of Santa Margarita Water District in 2012, I have actively participated in ACWA at both the Region 10 level and on the statewide Federal Affairs Committee. Over the last two terms, I have been on the Region 10 Board of Directors. I participated in meetings, helped develop the Region's work program and events, occasionally attended state board meetings as an alternate representing Region 10. Currently, I am also the designated Region 10 Director to report on federal matters, as well as serving on ACWA's statewide Federal Affairs Committee. I coordinate with other committee members including representatives of Metropolitan Water District of Southern California and Municipal Water District of Orange County and member agencies toward the mutual goals of water reliability and to strengthen water use efficiency measures, particularly through conservation programs and recycled water projects. I continue to coordinate with other leaders throughout ACWA's regions, including those in allied industries, and with others in the west and nationally to provide cost effective, reliable water. I seek to continue to contribute to ACWA using my technical skills as a policymaker and manager, applying over 30 years of experience in the private sector and public sector combined.



*Dedicated to
Satisfying our Community's
Water Needs*

BOARD OF DIRECTORS

Shawn Dewane
*President
Division V*

Marice H. DePasquale
*Vice President
Division III*

Jim Atkinson
*Director
Division IV*

Fred R. Bockmiller, P.E.
*Director
Division I*

James R. Fisler
*Director
Division II*

Paul E. Shoenberger, P.E.
General Manager

Denise Garcia
District Secretary

Marwan Khalifa, CPA, MBA
District Treasurer

**Atkinson, Andelson,
Loya, Ruud & Romo**
Legal Counsel

1965 Placentia Avenue
Costa Mesa, CA 92627
tel 949.631.1200
fax 949.574.1036
info@MesaWater.org
MesaWater.org

August 5, 2019

Subject: **Re-Elect Jim Atkinson to the ACWA Region 10 Board**

Dear Colleagues,

On behalf of Mesa Water District (Mesa Water®), it is a great honor to recommend Director Jim Atkinson for re-election to one of the Orange County seats on the Association of California Water Agencies (ACWA) Region 10 Board. We are fortunate to have such a qualified candidate in Jim Atkinson, who has the Mesa Water Board's unanimous support for him to continue serving in this role.

Jim Atkinson has served on Mesa Water's Board of Directors for over 21 years and, during that time, he has made fair and informed decisions that have greatly benefited constituents shared by Mesa Water® and fellow water providers throughout Orange County. Also, since 1998, Jim Atkinson has participated in the Water Advisory Committee of Orange County (WACO), which he now chairs.

Additionally, he has served on: ACWA's Region 10 Board (2015-present); ACWA's Groundwater Committee (2016-present); and, ACWA's Water Quality Committee (2012-present) for Region 10 as one of two Orange County representatives. Furthermore, since 2017, Jim Atkinson has served on the Urban Water Institute Board; and, he has worked with the Mountain Counties Water Resources Association to establish the California-United Water Conference (2018-present) to engender collaborative solutions to challenges of mutual concern among water agencies in Southern and Northern California.

Due to his public service experience -- and his 30-year career at The Aerospace Corporation in El Segundo, working as the Laboratory Operations Business Manager -- Jim Atkinson possesses the qualifications, knowledge, and understanding of the many business, government, and water-related issues facing ACWA Region 10. Attached is Jim Atkinson's Statement of Qualifications for re-election to the ACWA Region 10 Board. Most importantly, Director Atkinson has proven leadership abilities that can guide ACWA Region 10 to continued success in providing excellent added value to the member agencies it serves.

If you have any questions or requests for additional information, please feel free to contact our External Affairs Manager, Stacy Taylor, by calling 949.631.1201 or emailing StacyT@MesaWater.org. Thank you for your consideration in re-electing Jim Atkinson.

Sincerely,

Shawn Dewane
Mesa Water Board President

Paul E. Shoenberger, P.E.
Mesa Water General Manager

c: Mesa Water Board of Directors

Re-Elect Jim Atkinson to ACWA Region 10 Board

Jim Atkinson, Director, Mesa Water District



OBJECTIVE: To further the goals of ACWA Region 10 in best serving its members -- and the industry as a whole -- by applying my analytical skills, and my water industry leadership experience, as a member of the ACWA Region 10 Board.

STATEMENT OF QUALIFICATIONS:

- Mesa Water District Director since 1998
- Four-term Mesa Water® Board President ('02, '03, '08, 2017-18)
- ACWA Region 10 Board Member, 2015-present
- ACWA Groundwater Committee, 2016-present
- ACWA Water Quality Committee, 2012-present
- California-United Water Conference co-founder, 2018-present (includes serving on the Planning Committee)
- Southern California Water Coalition, 2010-present
- Water Advisory Committee Orange County Chair (2019), Vice Chair (2018), participant (1998-present)
- Urban Water Institute Board Member, 2017-present
- Laboratory Operations Business Manager, The Aerospace Corp.

BIOGRAPHY: Initially elected in 1998 to Mesa Water's Board of Directors, and re-elected each term since, Jim Atkinson represents Division 4 which includes the Costa Mesa communities of College Park, Mesa del Mar, and Monticello, as well as John Wayne Airport and the OC Fairgrounds. Having been Mesa Water's Board President for four prior terms -- in 2002, 2003, 2008, and 2017-18 -- Director Atkinson currently serves as Vice Chairman of the District's Engineering & Operations Committee.

Additionally, Director Atkinson has served (since 2015) as one of seven board members on the Association of California Water Agencies (ACWA) Region 10 Board, as well as on ACWA's Groundwater Committee and Water Quality Committee. He currently Chairs the Water Advisory Committee Orange County and is a Board Member of the Urban Water Institute, and he serves on the Planning Committee for the California-United Water Conference as one of its co-founders. He also represents Mesa Water at the Municipal Water District of Orange County and Orange County Water District.

Director Atkinson has previously chaired Mesa Water's Audit Ad Hoc, Engineering & Operations, Executive, Human Resources, Legislative & Public Affairs, and Public Information Committees. Additionally, as a Costa Mesa resident for over 30 years, he has served as a Vice President and Director of the Mesa del Mar Homeowners Association and as a Leadership Tomorrow Board member from 2002 to 2006 (after completing the program in 2001), where his role included hosting an educational Water Workshop day.

With Master of Business Administration and Bachelor of Science degrees from the University of La Verne, Director Atkinson worked as the Laboratory Operations Business Manager at The Aerospace Corporation for over 30 years. His experiences there included Business Administration of the Research Laboratory Operations, as well as Construction Management and Facilities Management. Through this employment, he attended earthquake response and recovery training at the California Specialized Training Institute's Emergency Operations Center. He was also an International Code Conference (ICC) Certified Member and an ICC Certified Plumbing Inspector.

His hobby of racing model sailboats with International One Meter boats led to Director Atkinson's 2011 appointment to Region 6 Director of the American Model Yachting Association (AMYA) Board.

RECEIVED

AUG 12 2019

EL TORO
WATER DISTRICT

August 2019

Dear ACWA member and Board President,

I have included an introduction/information letter and resumé, a sample Resolution of Support which I hope your Board can pass, and a personal endorsement form for you or any other of your Board members who may want to endorse me. (I would love that!)

If I am successful in becoming ACWA Vice President, I look forward to visiting your agency some time in the next couple of years, and providing leadership and a sounding board for your region's issues and concerns. Each region is unique and requires serious consideration of the perspectives of the people who know it best.

Please feel free to contact me with any questions or concerns.

Thank you, and I look forward to working together!

Sarah Palmer
Director, Zone 7 Water Agency
Vice Chair ACWA Region 5

spalmer@zone7water.com

palmer.sarahL@gmail.com

925-784-1727 cell

July 30, 2019

Fellow ACWA Member;

Let me introduce myself! I am Sarah Palmer and I would like your support in becoming the next Association of California Water Agencies (ACWA) Vice President. As a Director for Zone 7 Water Agency since 2006, a teacher of Environmental Science in the college and high school levels, as well as a guest contractor at Lawrence Livermore National Labs with the UC Davis Groundwater Ambient Monitoring and Assessment (GAMA) project, I have been involved in many of the complexities of water in our state. My membership in ACWA has given me the opportunity to hear and understand the diverse viewpoints and challenges faced by the different regions of California, as well as be enriched by the people involved.



With ACWA, I have served as Vice Chair of Region 5 and attended several regional activities and events. These have been instrumental in giving me an appreciation of the issues and people of each region. I am an active member of the Agriculture, Water Management, and Water Quality Committees and have helped wrestle with emerging concerns in notification and response levels in the PFOA/PFAS Subcommittee. PFOA/PFAS is only one set of the troubling issues in which we are so fortunate to have the advocacy of ACWA involved. My participation in the ACWA Steering Committee has given me a deeper understanding of the inner workings of our agency and a heightened appreciation of the ACWA staff. The cooperative efforts of ACWA officers, staff and committee members and their work with legislators has averted a water tax, and helped formulate statewide programs. I have had the opportunity to attend three Washington, DC Legislative Conferences and am grateful for the work our DC ACWA staff does to prepare us for these important meetings. The ACWA Bi-annual Conferences present extraordinary opportunities for education and connection. I have attended nine of them. The keynote speakers have been consistently good and often inspiring. With all the various regional differences and diversity of political opinions, it is always heartening to see that ACWA members really do work toward seeing ourselves as "one water", striving to set aside individual and regional biases for the common good.

My 13 years as a Director for Zone 7 Water Agency has seen both drought and flood, litigation and contentious rate changes, three General Managers and some organizational restructuring. I have served as President for three terms, and have been active on Finance, Administrative, Tri-Valley Liaison, and Water Quality standing committees and served on three *ad hoc* committees. Again, work by our wonderful staff has brought us several Finance awards and approval of our SGMA Groundwater Sustainability Plan. Both staff and Board actively interact with our community locally and county-wide.

Resumé

Sarah Palmer, Ph.D.

546 Lagrange Lane
Livermore, CA 94550
palmer.sarahL@gmail.com
spalmer@zone7water.com
(925) 784-1727 (c)

My goal is to become the next Vice President of the Association of California Water Agencies. Why? Water impacts all life, public health, politics, and environment. Water brings in almost all areas of science and culture. My background in community engagement, public speaking, and science, especially in science communication, make me eminently qualified to fill this role.

Leadership in Water

Director of Alameda County Zone 7 Flood Control and Water Agency (Zone 7 Water Agency) Board of Directors since 2006

Board President for 3 terms

Committees:

Finance, Administrative, Water Resources, Tri-Valley Liaison (this addresses topics of interest between Zone 7, cities and retail water agencies, including rate change issues and land use). I have also served on 3 ad hoc committees.

ACWA Region 5 Vice-Chair

ACWA Board of Directors

ACWA Committees:

Steering Committee

Water Quality Committee

PFOA/PFAS subcommittee

Water Management Committee

Agriculture Committee

Director of Delta Conveyance Design and Construction Joint Powers Authority

Leadership in Education

- Women Chemist Committee of the American Chemical Society Northern California Division - Chair
- Coordinator for US National Chemistry Olympiad – American Chemical Society, Northern California Section
- K-12 Alliance Staff Developer
- Las Positas College Academic Senate, Part Time Faculty Representative
- Chabot/ Las Positas Faculty Association Board, Adjunct Faculty Representative
- CTE online curriculum developer (www.cteonline.org)
- Alameda County District Teacher of the Year (2006)
- Lead Teacher for Environmental Research Academy, STEP/ETEC at Lawrence Livermore National Laboratory
- Team Leader in SUPER! (Science Understanding Promotes Environmental Responsibility) at Sandia National Labs, Livermore
- Science Fair Coordinator for Livermore Valley Joint Unified School District, Livermore High School
- Environmental Career Pathway Coordinator, Foothill High School, Pleasanton

- Student Success Committee, Las Positas College: explores methods and programs for assuring the success of students of various cultural, ethnic, educational, and generational backgrounds, addressing the needs presented by different learning styles and multicultural perspectives.
- Mentor for Biomedical Pathway at Dublin High School
- Girl Scout leader
- Reader for California State funded educational grants

Outreach:

- Groundwater Monitoring and Assessment Program (GAMA), Contractor with UC Davis
- Science on Saturday: Teacher Coordinator / Co-Presenter for 4 years
- Edward Teller Science and Technology Symposia Workshop Presenter for three years
- U.S. Forest Service public education outreach for Kokanee Salmon Festival for over 10 years
- "Expanding Your Horizons" and Career Days presentations for high school groups.
- Public Information Presentations for community groups, homeowners associations, American Association of University Women
- Presenter for Science Technology Engineering and Math (STEM) projects for middle school girls

Research and Industry

Lawrence Livermore National Labs: Guest Participant
 International Immunoassay Labs: Technical Support Scientist
 UC Berkeley Cancer Research Lab: Post-Doctoral Research Scientist
 NASA Goddard Space Flight Center: Data Technician contract

Teaching in Biological Sciences and Biochemistry

Subjects from Environmental Science, Marine Biology, and Botany to Genetics, Evolution, and Cell and Molecular Biology to name just a few, at the following:

Tri-Valley Regional Occupational Programs
 Las Positas College
 Holy Names College
 Mills College
 California State University, Hayward
 University of California Berkeley
 Saint Mary's College
 University of Toronto

Volunteer

Docent for Elkhorn Slough National Estuarine Research Reserve
 Animal Rescue Foundation Therapy Dog Partner
 Pacific Chamber Orchestra Fundraising

Education:

Ph.D.
 Cell Biology / Biochemistry

 B.A.
 Biology / Political Science

University of Toronto, Dept. of Zoology
 Toronto, Ontario, M5S-1A1, Canada

 New York University, New York, N Y

I have a Ph.D. in Cell Physiology and Biochemistry from the University of Toronto and a B.A. in Biology and Political Science (double major) from New York University. This background in science, with my subsequent research and teaching careers, have led me to wonderful opportunities for communicating complex concepts to both professional and lay groups. My experience has been beneficial in my role as communicator for environmental and other water education issues for both children and adults. I was named Alameda County District Teacher of the Year in 2006. I have been a speaker for Lawrence Livermore National Labs presentations and for Zone 7 Water Agency. My experience as a docent for the Elkhorn Slough National Estuarine Research Reserve has provided valuable insight into the functions of an estuary.



Although I am not a native Californian, (I am from Buffalo, NY... yes the winters are horrendous!) I have lived in Livermore for most of my adult life and have the great good fortune of having raised a true California girl who has become a fabulous and productive young woman. My sports are water related. I have been a SCUBA divemaster, and am an active kayaker and paddle boarder. I also paint abstract and impressionist works and train my wonderful dog.

California is my home, and California water is my passion. Water is THE big issue for all of us; our livelihoods, health and welfare, politics and environment. It touches almost every aspect of our lives in some way. It is inextricably involved in issues of climate change. We in the water industry and every related field are on the front lines and our resolve to ensure safe and sustainable water for

us and our environment is paramount. Please support me in becoming Vice President of ACWA to provide leadership and vision to help us continue to work together to provide a healthy future for all Californians.

Thank you for your consideration!
Sincerely,

Sarah Palmer
925-784-1727
palmer.sarahL@gmail.com
spalmer@zone7water.com

Resumé attached

Resolution of the Board of Directors of
In Support of the Nomination of Sarah Palmer
As a Candidate for the position of ACWA Vice President

WHEREAS, ACWA has announced that a nominating committee has been formed to develop a slate for the Association's statewide position of President and Vice President; and

WHEREAS, the individual who fills an officer position will need to have a working knowledge of water industry issues and concerns, possess strength of character and leadership capabilities, and be experienced in matters related to the performance of the duties of the office; and

WHEREAS, this person must be able to provide the dedication of time and energy to effectively serve in the capacity; and

WHEREAS, Sarah Palmer has served in a leadership role as a member of the Zone 7 Water Agency Board of Directors since 2006, 3 terms as President; and

WHEREAS, Sarah Palmer has served on the Administrative, Finance, Tri-Valley Liaison, and Water Resources Committees of Zone 7 Water Agency; and

WHEREAS, Sarah Palmer serves as the Vice-Chair of ACWA Region 5 Board of Directors and as a Board member of ACWA

WHEREAS, Sarah Palmer serves as a member of the ACWA Agriculture, Water Management, and Water Quality Committees and as a member of the Water Quality Committee PFOS/PFAS subcommittee; and

WHEREAS, Sarah Palmer serves on the ACWA Board Steering Committee; and

WHEREAS, Sarah Palmer has demonstrated outstanding effort and support of local and regional water issues, including public information workshops and presentations; and

WHEREAS, it is the opinion of the Zone 7 Water Agency Board of Directors that Sarah Palmer possesses all the qualities needed to fulfill the duties of the office of ACWA Vice President.

NOW, THEREFORE, BE IT RESOLVED THAT THE BOARD OF DIRECTORS OF _____ does hereby nominate and support Sarah Palmer as candidate for the office of ACWA Vice President.

PASSED AND ADOPTED by the _____ Board of Directors at a regular meeting held on _____.

AYES:

NOES:

ABSENT:

I _____ endorse Sarah Palmer from Zone 7 Water Agency as Vice President of the Association of California Water Agencies for the term starting in 2020. I give my permission to use my name as an endorsement. My personal endorsement does not necessarily reflect the position of my board, agency, or business.

Signature /Date

Consulting Contract between ETWD and Mr. Robert Hill

For the benefit of the El Toro Water District, the General Manager, and the Board of Directors, staff wishes to enter into a consultant agreement with Mr. Robert Hill, retired General Manager of the El Toro Water District.

Securing the services of Mr. Hill will facilitate a smooth transition following his retirement. At the direction of the General Manager, Mr. Hill will provide services on an as-needed basis for purposes concerning matters relating to the management and organization of the District.

Staff met with the Human Resources Committee who are in agreement with the contents of the consulting letter of agreement to Mr. Hill.

The District's attorney, Mr. Gilbert J. Granito, Esq. has reviewed the consulting letter of agreement.

Recommended Action at the August 22, 2019 Board Meeting:

Staff recommends that the Board of Directors authorize the District's General Manager to enter into a consulting contract with Bob Hill for periodic support services.

By: Judy Cimorell
Date: August 15, 2019

Date

Mr. Robert Hill

Dear Bob,

The following is a summary of the agreement regarding as-needed consulting services following your retirement from El Toro Water District.

Beginning _____, you have agreed to be available remotely and if needed in the office for consulting purposes concerning matters relating to the management and organization of the District to ensure a smooth transition resulting from your retirement. This agreement may be terminated by either party, with or without cause, by giving the other party thirty (30) days written notice.

During the provision of any necessary consulting services you will be acting as an independent contractor. The District will not deduct or withhold any taxes, FICA or other deductions that are typically withheld from the pay of regular employees. You will be responsible for payment of all taxes including, by way of illustration but not limitation, Federal and State income tax, Social Security tax, and Unemployment Insurance taxes and any other taxes or fees as required. You will not be entitled to any fringe benefits, such as unemployment insurance, pension plan or other such benefits that would be offered to regular employees.

You will be paid an hourly rate of \$175.00 per hour and invoice the District for your services rendered at the end of each month. Your time will be billed in six (6) minute increments, rounded up to the next tenth, with a minimum billing increment of twelve (12) minutes.

If you agree to the above terms, please sign and return one copy of this letter to the District. You may retain the other copy for your files.

Bob, I wish you all the best in your future endeavors. I appreciate all of your contributions to the District over the years and also your continued support during this transition period.

Sincerely,

I agree to the above terms

Dennis P. Cafferty
General Manager

Robert H. Hill

RESOLUTION NO. 19-8-3

**RESOLUTION OF THE BOARD OF DIRECTORS
OF THE EL TORO WATER DISTRICT**

**COMMENDING DIRECTOR CHARLEY WILSON FOR HIS
DEDICATED SERVICE TO THE SANTA MARGARITA WATER DISTRICT**

WHEREAS, Charley Wilson has provided dedicated service on the Santa Margarita Water District Board of Directors since his appointment in early 2000; and,

WHEREAS, Director Wilson has provided service and leadership to a variety of water and water-related organizations and helped to influence water policy to the benefit of the entire State of California; and,

WHEREAS, during his 19-year tenure Director Wilson has served at various times as the Santa Margarita Water District Board President, Chair of the Finance and Administration Committee, Water Quality and Innovations Committee and External Affairs Ad Hoc Committee; and,

WHEREAS, Director Wilson served the County of Orange on the Board of the Orange County Local Agency Formation Commission for more than 17 years; and,

WHEREAS, Director Wilson now serves as the President and Chief Executive Officer of the Southern California Water Coalition providing leadership in developing partnerships between cities, counties, business, industry, agriculture and water agencies for the purpose of ensuring adequate, reliable, affordable water in and for Southern California and is now leaving public service; and,

WHEREAS, Director Wilson has resigned his seat on the Board of Directors of the Santa Margarita Water District effective August 1, 2019;

NOW, THEREFORE, BE IT RESOLVED that the Board of Directors of the El Toro Water District hereby recognizes the significant contributions of Director Wilson and expresses its sincere appreciation for his leadership and dedicated service to the citizens of the Santa Margarita Water District, to Orange County, and to southern California.

PASSED AND ADOPTED by the Board of Directors of the El Toro Water District this 22nd day of August, 2019.

JOSE F. VERGARA, 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

RESOLUTION NO. 19-8-4

RESOLUTION OF THE BOARD OF DIRECTORS OF THE
EL TORO WATER DISTRICT
MODIFYING STANDING AND EXTERNAL
ORGANIZATION BOARD AND STAFF ASSIGNMENTS
FOR THE BALANCE OF 2019
EFFECTIVE AUGUST 22, 2019

WHEREAS, the Board of Directors of the EL TORO WATER DISTRICT deems it to be in the best interest of the District to modify the President's appointment of Board and Staff to Standing and External Organization assignments; and

WHEREAS, said list of appointments is attached hereto marked Exhibit "A," and made part of this Resolution.

NOW, THEREFORE, IT IS HEREBY RESOLVED that the Board of Directors of the EL TORO WATER DISTRICT hereby confirms the adding of Board/Staff to Standing Committee and External Organization assignments as listed in Exhibit "A".

ADOPTED, SIGNED AND APPROVED this 22nd day of August 2019.

JOSE F. VERGARA, 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

STATE OF CALIFORNIA)
COUNTY OF ORANGE)

I, DENNIS P. CAFFERTY, Secretary of the Board of Directors of the El Toro Water District, do hereby certify that the above and foregoing is a full, true and correct copy of Resolution No. 19-8-4 of said Board, and that the same has not been amended or repealed.

DATED: August 22, 2019

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

(SEAL)

BOARD/STAFF MEMBER ORGANIZATIONAL AND STANDING COMMITTEE ASSIGNMENTS – 2019
(~~May-August~~ 2019)

| <u>ORGANIZATION</u> | <u>REPRESENTATIVE</u> | <u>ALTERNATE</u> | <u>FREQUENCY</u> |
|-----------------------------|-----------------------|------------------|------------------|
| WACO Planning | Monin | Vergara | Monthly |
| WaterReuse | Vergara | Havens | Bi-Monthly |
| SOCWA Board | Freshley | Gaskins | Monthly |
| SOCWA Finance | Cafferty | Freshley | Monthly |
| ISDOC | Monin | Gaskins | Monthly |
| LAFCO | Freshley | Gaskins | As Required |
| JPIA | Freshley | Gaskins | Semi-Annual |
| MWDOC Board | Vergara | Monin | Monthly |
| MWDOC Finance | Monin | Vergara | Monthly |
| MWDOC Public Affairs | Gaskins | Havens | Monthly |
| MWDOC Plan & Ops | Freshley | Vergara | Monthly |
| SAC | Freshley | Gaskins | Semi-Annual |
| South Co. Watershed Exec | Havens | Freshley | As Required |
| South OC Economic Coalition | Vergara | Gaskins | Monthly |
| South OC Water Agencies Grp | Vergara | Monin | Bi-Monthly |

| <u>ETWD COMMITTEE</u> | <u>CHAIRMAN</u> | <u>ALTERNATE</u> | <u>FREQUENCY</u> |
|--------------------------------------|-----------------|-----------------------------------|----------------------|
| Agenda Review | Vergara | Monin | Monthly |
| Engineering | Freshley | Vergara | Monthly (Full Board) |
| Finance/Insurance Committee (FIC) | Monin | Freshley | Monthly (Full Board) |
| Community Advisory Group (CAG) | Gaskins | Havens | Quarterly |
| Regional Reclamation Committee (RRC) | Freshley | Vergara <u>Gaskins</u> | Monthly |
| Computer Technology | Freshley | Gaskins | Annual/As Required |
| Audit Committee | Monin | Freshley | Annual/As Required |
| Budget Committee | Freshley | Monin | Annual/As Required |
| HR Committee | Gaskins | Monin | Annual/As Required |
| WQ Committee | Vergara | Havens | Annual/As Required |

DIRECTORS WILL NOT BE COMPENSATED FOR ATTENDING MEETINGS NOT LISTED UNLESS AUTHORIZED BY THE BOARD PRESIDENT, WITH THE EXCEPTION OF OCWA, WACO, CAG, ISDOC quarterly luncheon, MWDOC Quarterly Policy Forum events, MWDOC/Met Directors, MWDOC Elected Officials forum, So Cal Water Committee, City Council meetings in the 5 cities we serve, Supervisor/Congressmen meetings in the areas we serve.

GENERAL MANAGER'S REPORT

August 2019

I. OFFICE OF THE GENERAL MANAGER

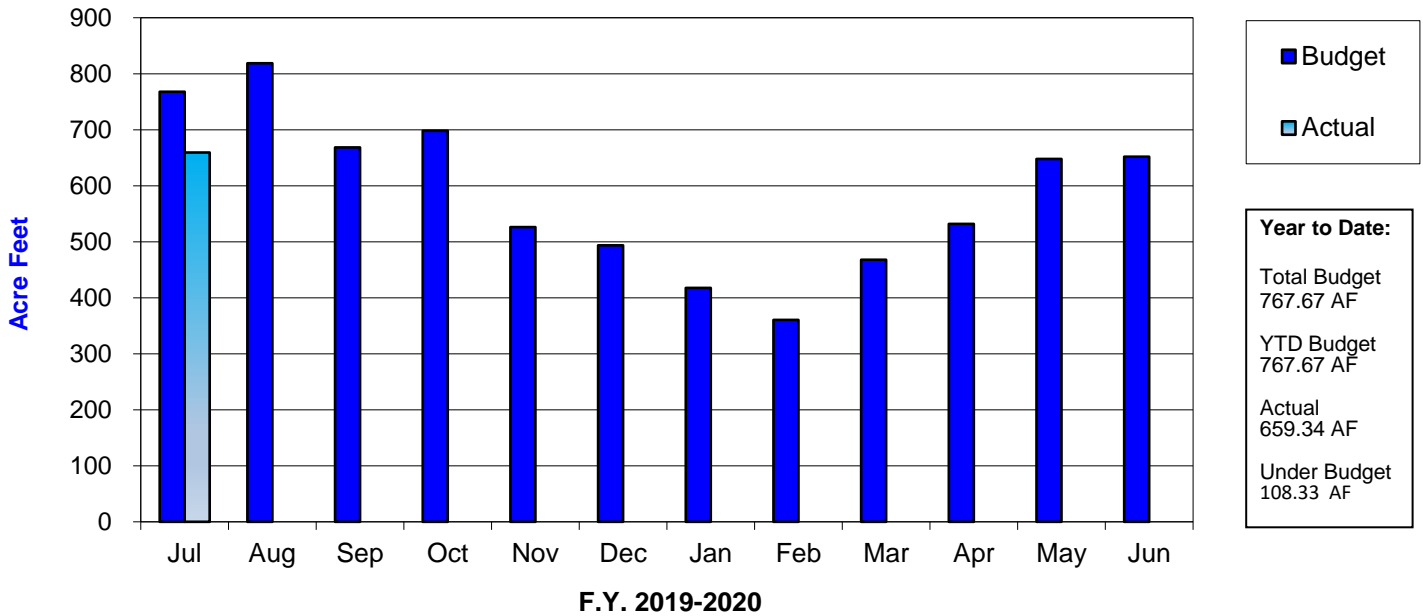
- Attended Human Resources Committee Meeting
- Attended Meeting with Strategic Planning Consultant
- Attended Proposed Irvine Lake Emergency Storage Meetings
- Attended Pre-Construction Meeting with Staff and Recycled Water Retrofits Contractor
- Attended RRC Meeting
- Attended SOCWA Board Meeting
- Attended CAG Meeting
- Attended Chair/GM Meetings
- Attended Agenda Review Meeting
- Attended OCWA Luncheon
- Attended SOCWA Engineering Committee Meeting
- Attended SOCWA Finance Committee Meeting
- Attended South County Agencies Meeting
- Participated on SOCWA Director of Engineering Interview Panel
- Attending Meeting with Mesa Water District General Manager

II. DOMESTIC AND RECYCLED WATER SALES

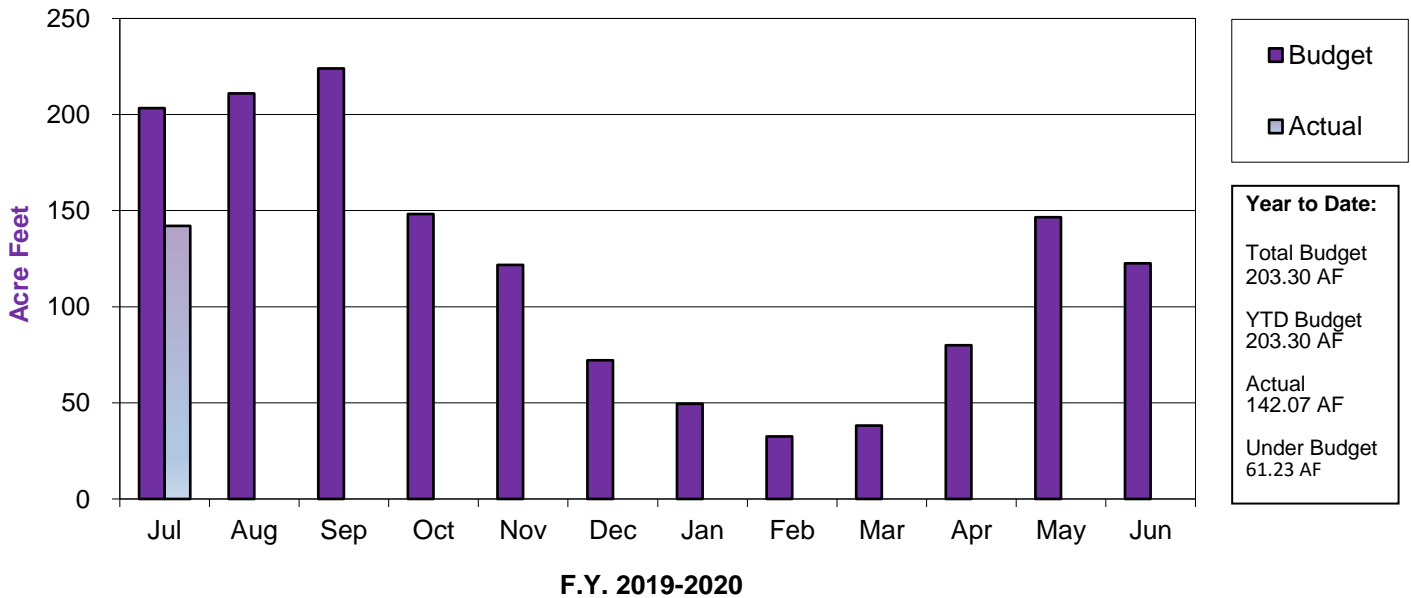
Actual domestic sales for the year-to-date as of July 31, 2019 are 659.34 acre-feet. This compares to year-to-date budgeted domestic sales of 767.67 acre-feet. The year-to-date variation in actual to budgeted sales reflects a decrease of 108.33 acre-feet. Actual sales are 100.76 acre-feet lower than last year-to-date actual sales for the same period.

Actual recycled sales for the year-to-date as of July 31, 2019 are 142.07 acre-feet. This compares to year-to-date budgeted recycled sales of 203.30 acre-feet. The year-to-date variation in actual to budgeted sales reflects a decrease of 61.23 acre-feet. Actual sales are 41.25 acre-feet lower than last year-to-date actual sales for the same period.

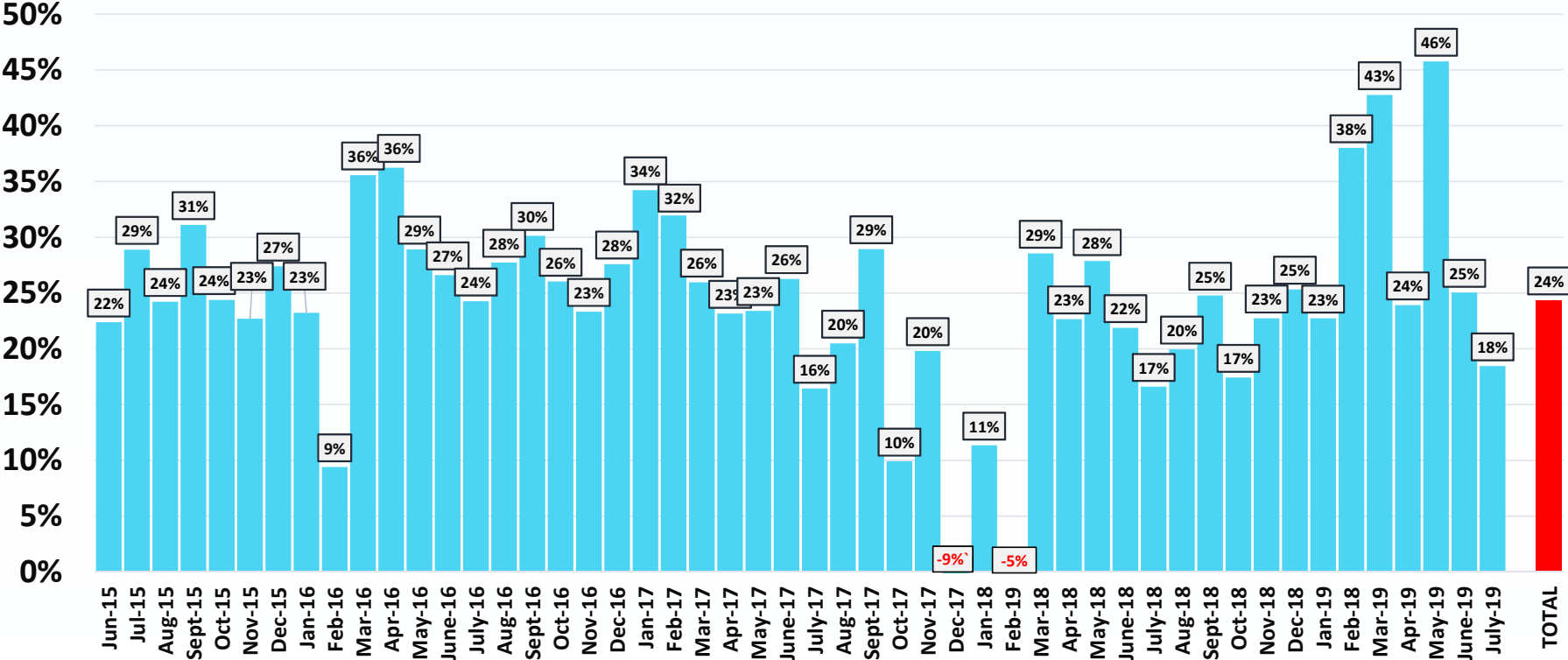
POTABLE WATER SALES



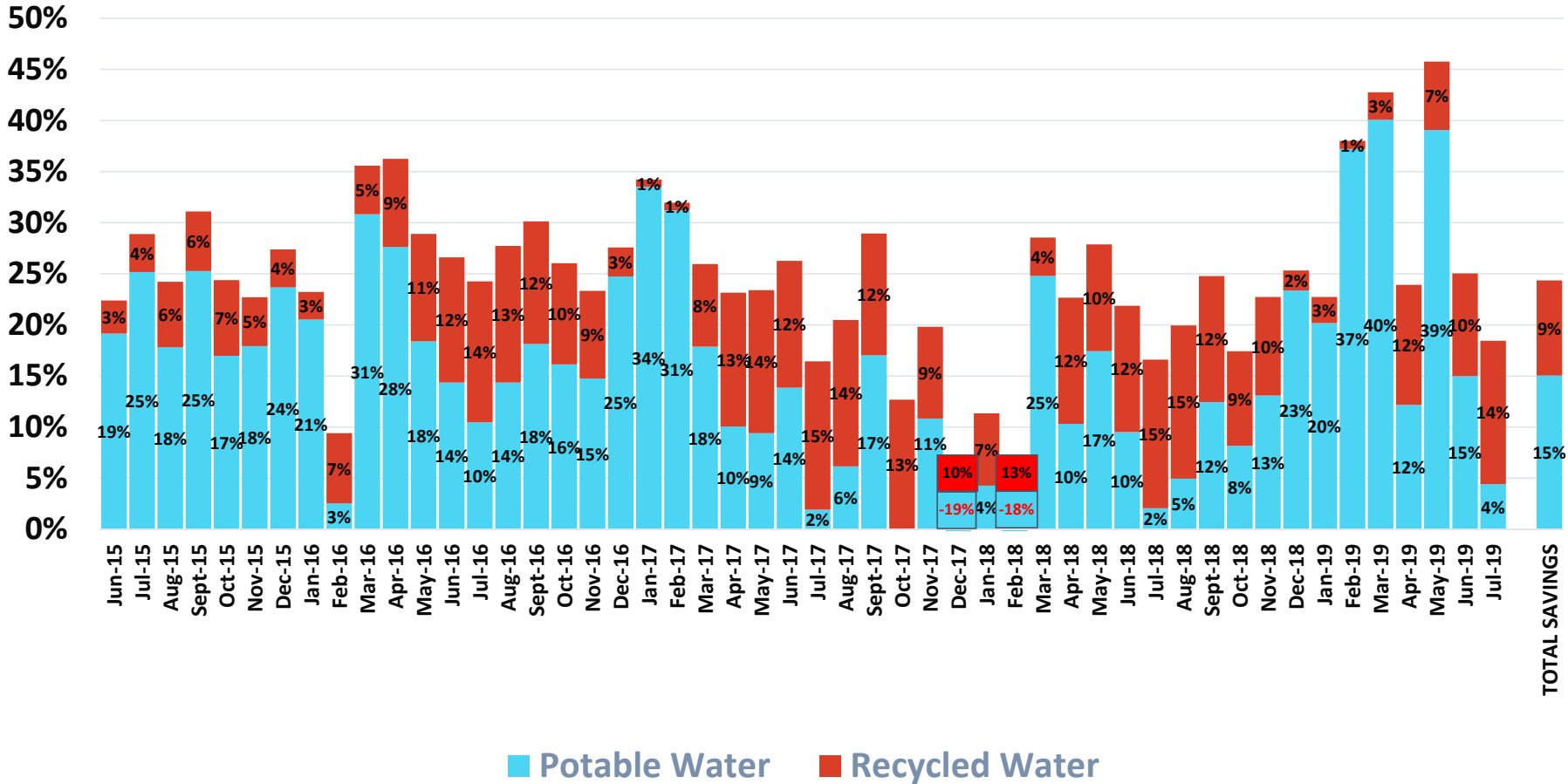
RECYCLED WATER SALES



ETWD WATER SAVINGS COMPARED TO 2013



ETWD WATER SAVINGS COMPARED TO 2013



Customer Service Activity Report

JULY 2019

| Regular Service Calls | JULY 2019 | JULY 2018 | Telephone Calls | JULY 2019 | JULY 2018 |
|---|--------------------|--------------------|--|------------------|--------------------|
| Serviceman Dispatched to Read, Connect/Disconnect Service | 127 | 59 | Change of Service: Connections and Disconnections | 157 | 82 |
| Field Investigations: | | | Billing / Payments & Graph Inquires | 283 | 299 |
| Check for leaks - calls to CS Office:(irrigation,meter,street leaks) | | | Assistance with online payments and ETWD's portal (cc, e-checks, other.) | 59 | 93 |
| Customer Responsible | 36 | 22 | Variance / Waiver Inquiries | 47 | 48 |
| District Responsible | 9 | 4 | Variance / Waiver Requests Processed | 19 | 20 |
| None found/other | 32 | 9 | Ordinance Infraction / Water Waste Complaints | 2 | 1 |
| High Reads Checked - High Consumption (Billing Dept.) | | | | | |
| Cust Leaks: _12_ No Leaks: _29_ | 41 | 27 | | | |
| Check Stopped Slowed Meters-Low Consumption (Billing) | 15 | 7 | Outside Utility Districts | 80 | 97 |
| Re-Check Read | 7 | 9 | Phone calls Transfer to other Departments within ETWD | 110 | 133 |
| Ordinance Infraction | 2 | 4 | Phone calls for the Board of Directors | 1 | 7 |
| Recycled Water | 0 | 0 | Recycled Water | 0 | 0 |
| Water Quality: Taste / Odor / Color | 2 | 4 | Water Quality Taste - Odor - Color | 2 | 7 |
| Phone response: __2__ Field response: __0__ | 2 | 4 | Leaks / Breaks | 18 | 32 |
| Flooding (Hydrant) Meters issued | 0 | 1 | Flooding Meter calls (Hydrant) | 6 | 3 |
| Sewer - Odor/Stoppage/ Manhole Covers | 3 | 1 | Sewer Problems (odor / spills) | 2 | 7 |
| Meter Box: Lids / Covers Replaced | 71 | 17 | | | |
| Meter Box Clean, Digout | 19 | 2 | Backflow / Cross Connection (questions or yearly testing forms) | 3 | 7 |
| Raised Meter Box | 0 | 0 | ETWD facilities inquiries: Boxes/Covers/Lids/Hydrants/Pump Stations/Graffiti/ "Gen. Maint" | 4 | 7 |
| Trim Bushes / Meter Obstruction | 33 | 40 | | | |
| General Maintenance Response | 3 | 4 | Tyco (ADT) Calls (Alarms to ETWD facilities) | 0 | 3 |
| Fire Hydrants: Hit / Leaks / Caps | 0 | 1 | ATT Calls (access to tower sites) | 0 | 2 |
| Pressure(psi) Checks / Reads | 2 | 1 | SCE Calls (access to tower sites) | 0 | 4 |
| CSSOV (Angle Meter/Ball Valve/Gate Valve/Globe Valve) chk,repair,replaced | 7 | 6 | Pager Calls specifically for Pump Stations - SCADA | 0 | 0 |
| AMS angle-meter-stop replace/repair | 1 | 0 | | | |
| Bees Removed | 2 | 0 | Payment Extensions | 47 | 82 |
| Backflow / Cross Connection | 13 | 0 | Delinquent Payment Calls to Customer 's prior to shut off per billing calendar (automatic courtesy dialer) | 54 | 21 |
| Fogged Registers | 5 | 1 | Return Calls from customers left on our voice mail system. Ext 500 | 6 | 78 |
| OMCOP: Old Meter Change - Out Program | 1 | 1 | Email Correspondence: | 64 | 68 |
| Other: (uncommon non-maintenance calls) | 0 | 1 | Maintenance Service Order Requests (bees, psi, fogged-dirty registers) | 1 | 3 |
| On-Call After Hrs. CS Response | 19 | 20 | Misc. (other: employment, deliveries, sales calls) | 39 | 42 |
| # 48/24 Hr. Door Hangers Hung | 146 | 154 | | | |
| # Locked Off For Non-Pay (Disconnect) | 11 | 6 | | | |
| Removed Meter | 1 | 0 | | | |
| New Meter | 15 | 2 | | | |
| Unread Meters | 4 | 10 | | | |
| Total Field Investigations | 629 | 417 | Total Telephone Calls | 1004 | 1146 |
| Uncollectible Accounts: | | | Credit Card Payments | JULY 2019 | JULY 2018 |
| Budget YTD | \$ 1,667.00 | \$ 1,667.00 | REGULAR | 786 | \$82,838.74 |
| Actual YTD | \$ 1,440.00 | \$ (114.00) | DISCONNECTS | 626 | \$67,050.42 |

(WRP) Tertiary Treatment Plant

Jul-19

Total Recycled Water Production

| Flow, Units | G.C. Irrigation | Main Distribution | WRP Irrigation/Utility | Total, Production |
|---|-----------------|-------------------|------------------------|-------------------|
| Avg. Daily Q MGD | 0.479 | 1.500 | 0.100 | 2.079 |
| Total Q MG | 14.841 | 46.495 | 3.092 | 64.428 |
| Total Acre Feet | 45.545 | 142.688 | 9.489 | 197.722 |
| *784,320 Gallons of Potable Water Was Used to Supplement the Recycled Water Total Production. | | | | |

MICROBIOLOGICAL MONITORING

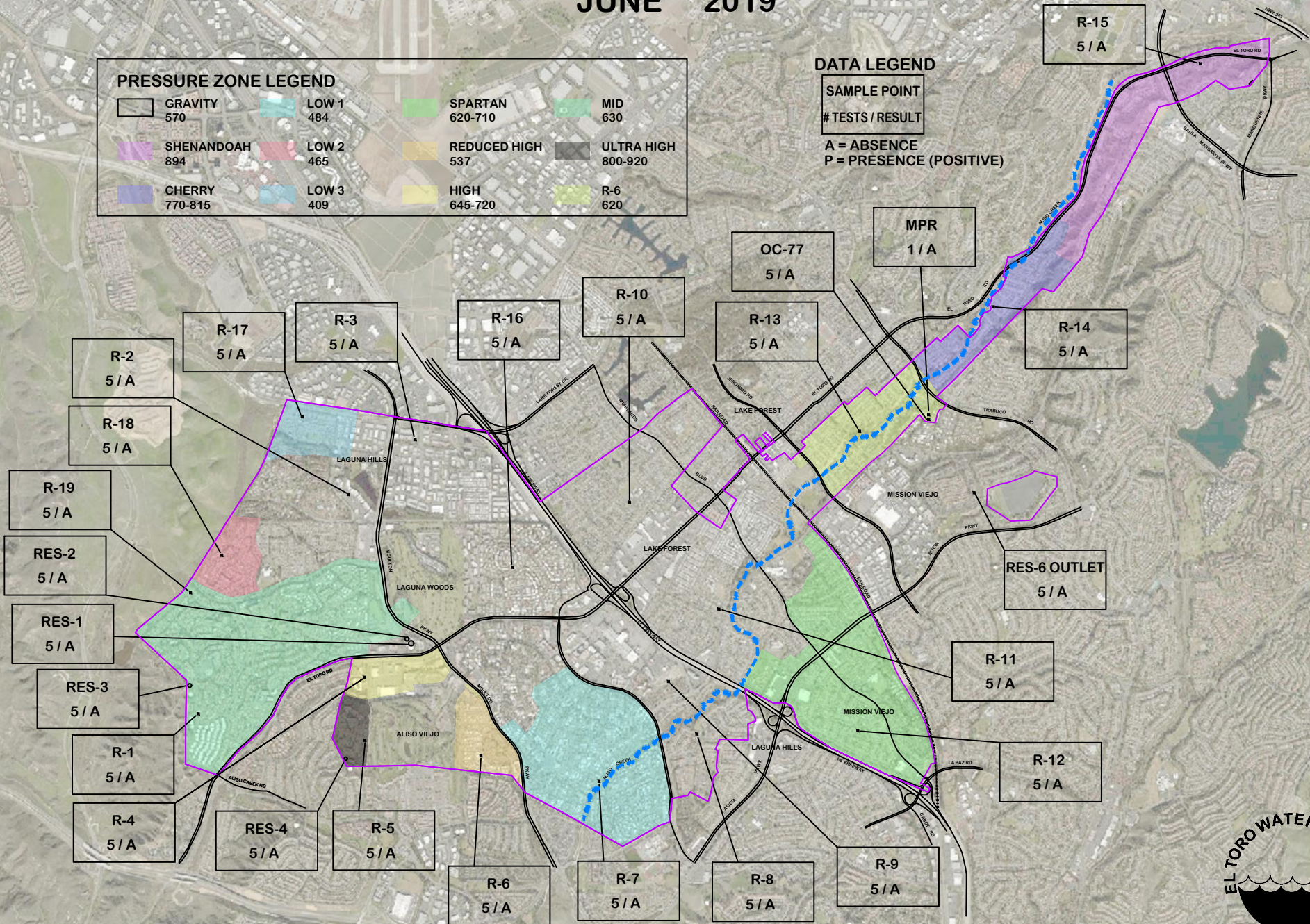
JUNE 2019

| 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

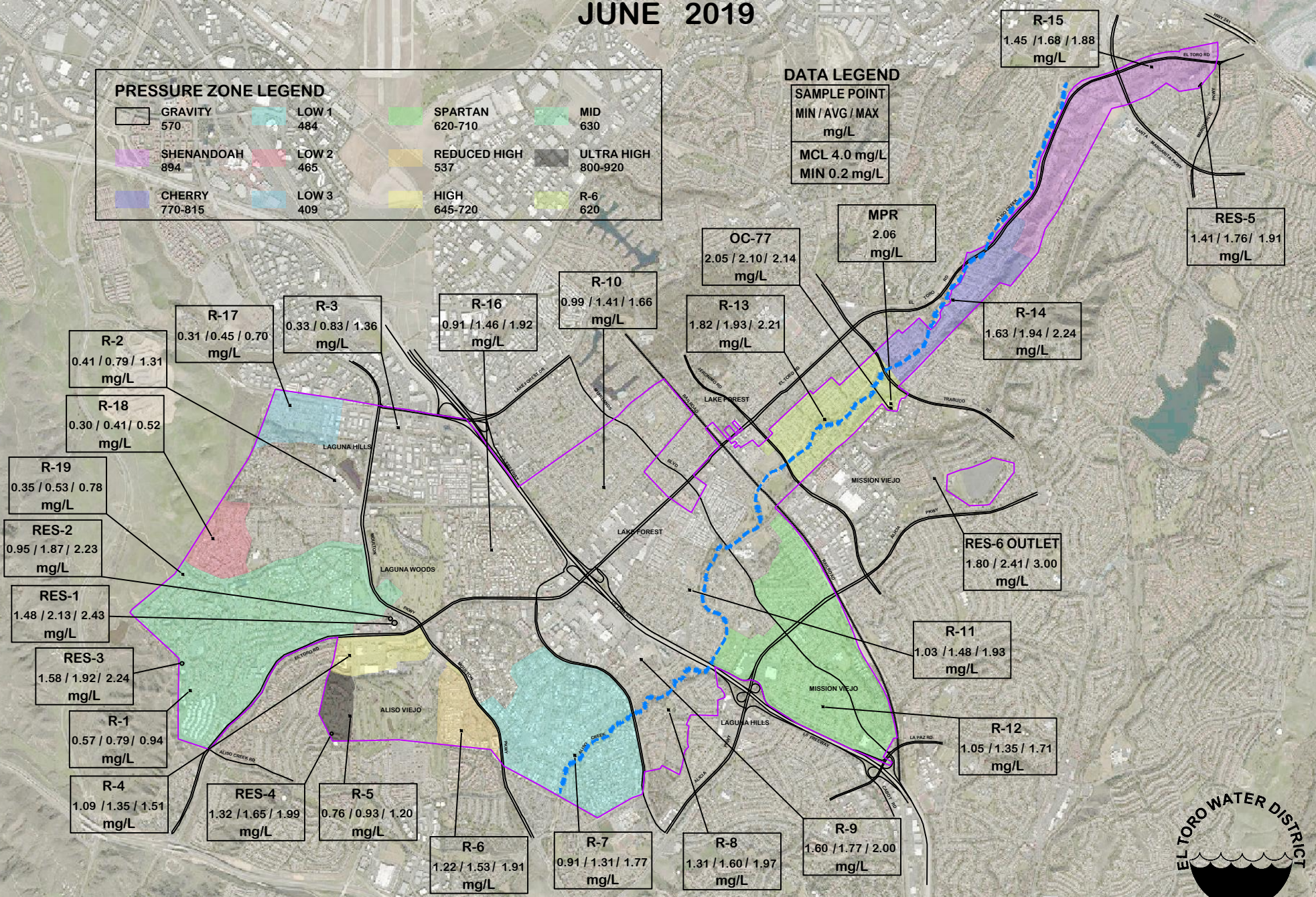
JUNE 2019

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 |



STAGE 2 TOTAL TRIHALOMETHANES (TTHM) MONITORING

2ND QUARTER 2019

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

| DATA LEGEND | |
|-------------|------------------|
| | SAMPLE POINT |
| | TOTAL ppb |
| | MCL 80 ppb |

SITE 2
27.1
ppb

SITE 5
29.2
ppb

SITE 8
28.3
ppb

SITE 7
26.7
ppb

SITE 6
26.5
ppb

SITE 1
36.4
ppb

SITE 3
34.1
ppb

SITE 4
39.3
ppb



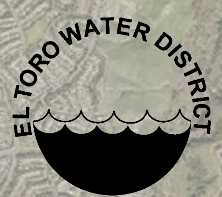
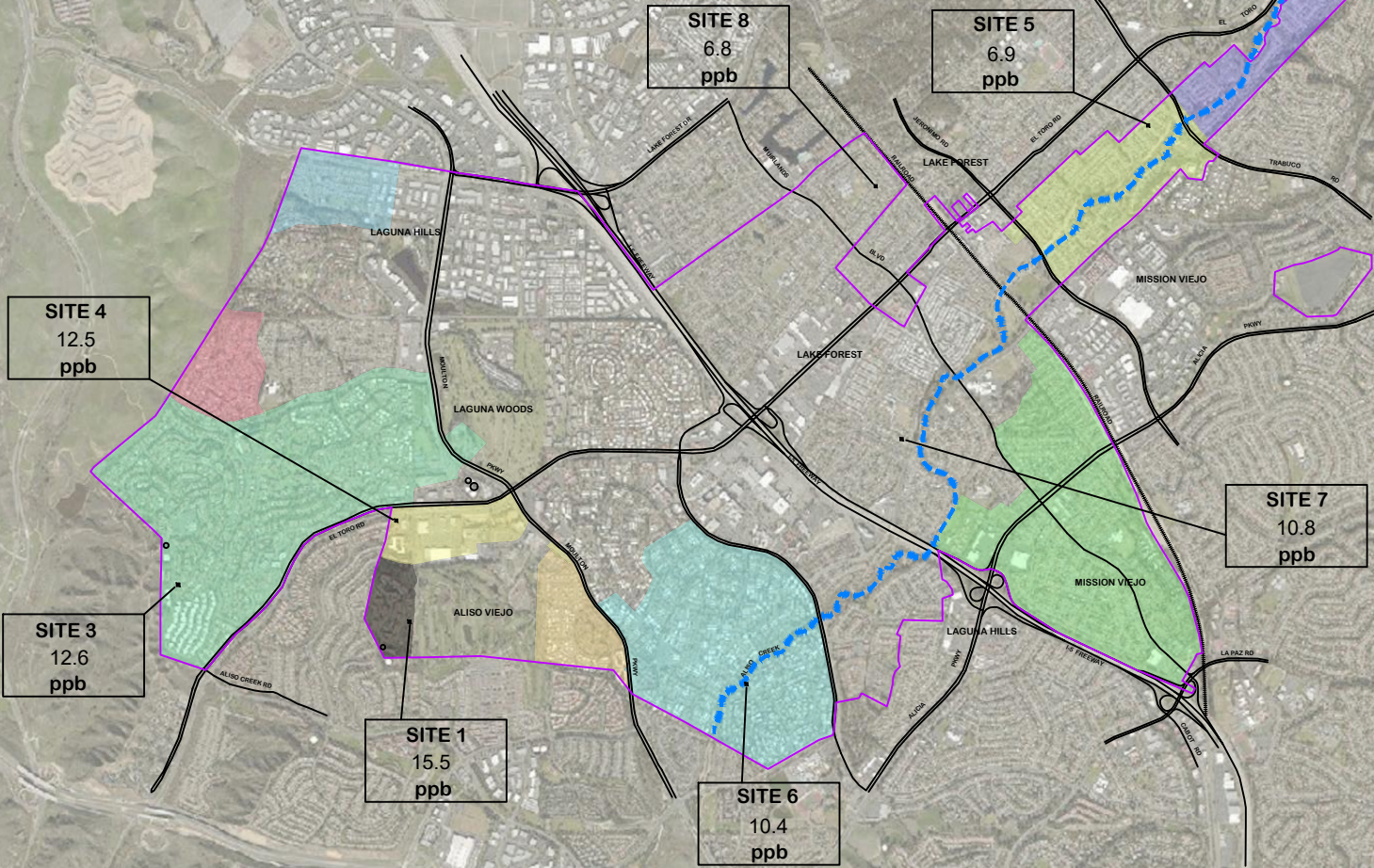
STAGE 2 HALOACETIC ACIDS (HAA5) MONITORING

2ND QUARTER 2019

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

| DATA LEGEND | |
|-------------|-------------------|
| | SAMPLE POINT |
| | TOTAL |
| | MCL |
| | 60 ppb |
| | ND: NONE DETECTED |

SITE 2
7.9
ppb



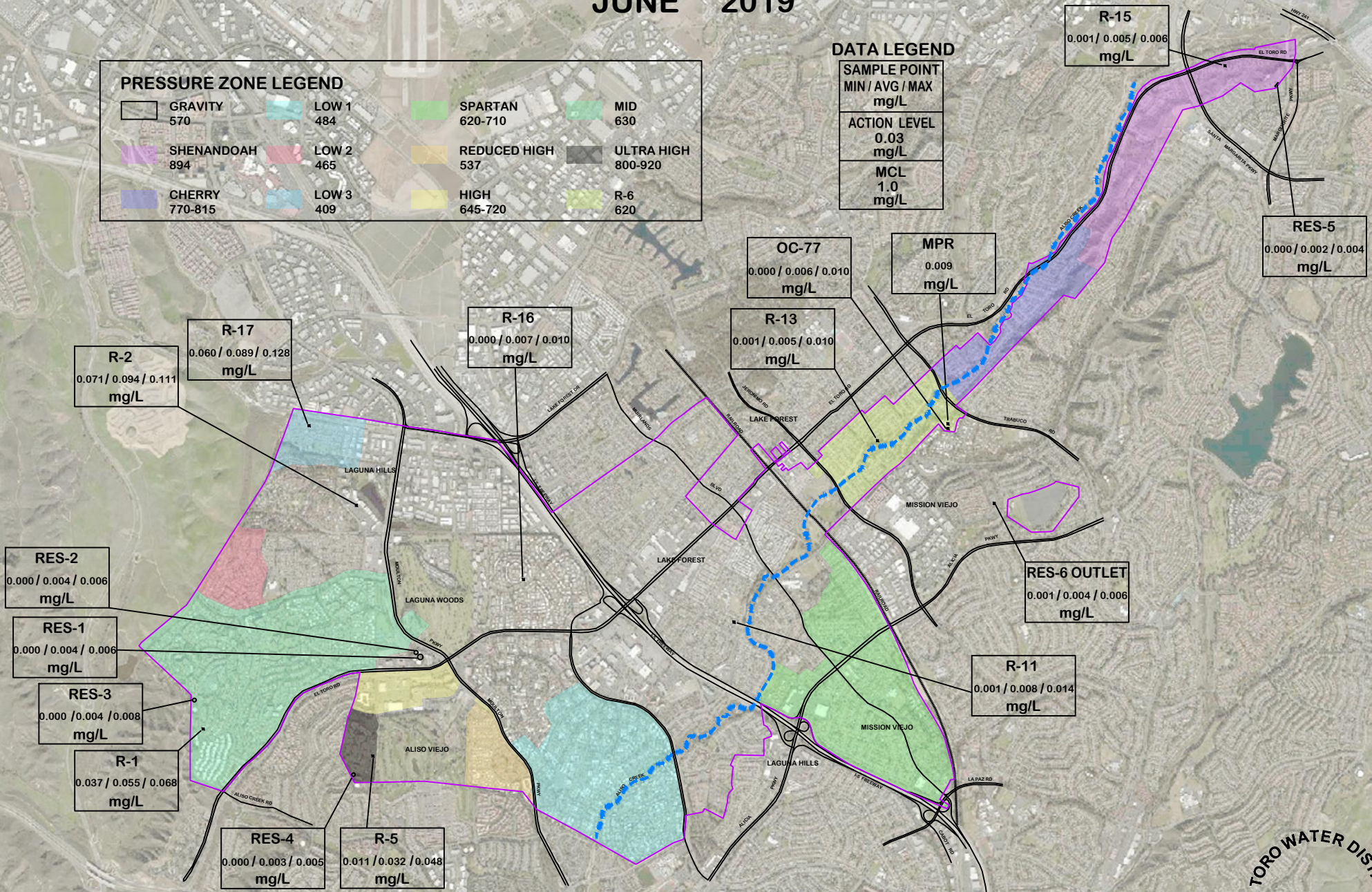
NITRITE MONITORING

JUNE 2019

| 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 |

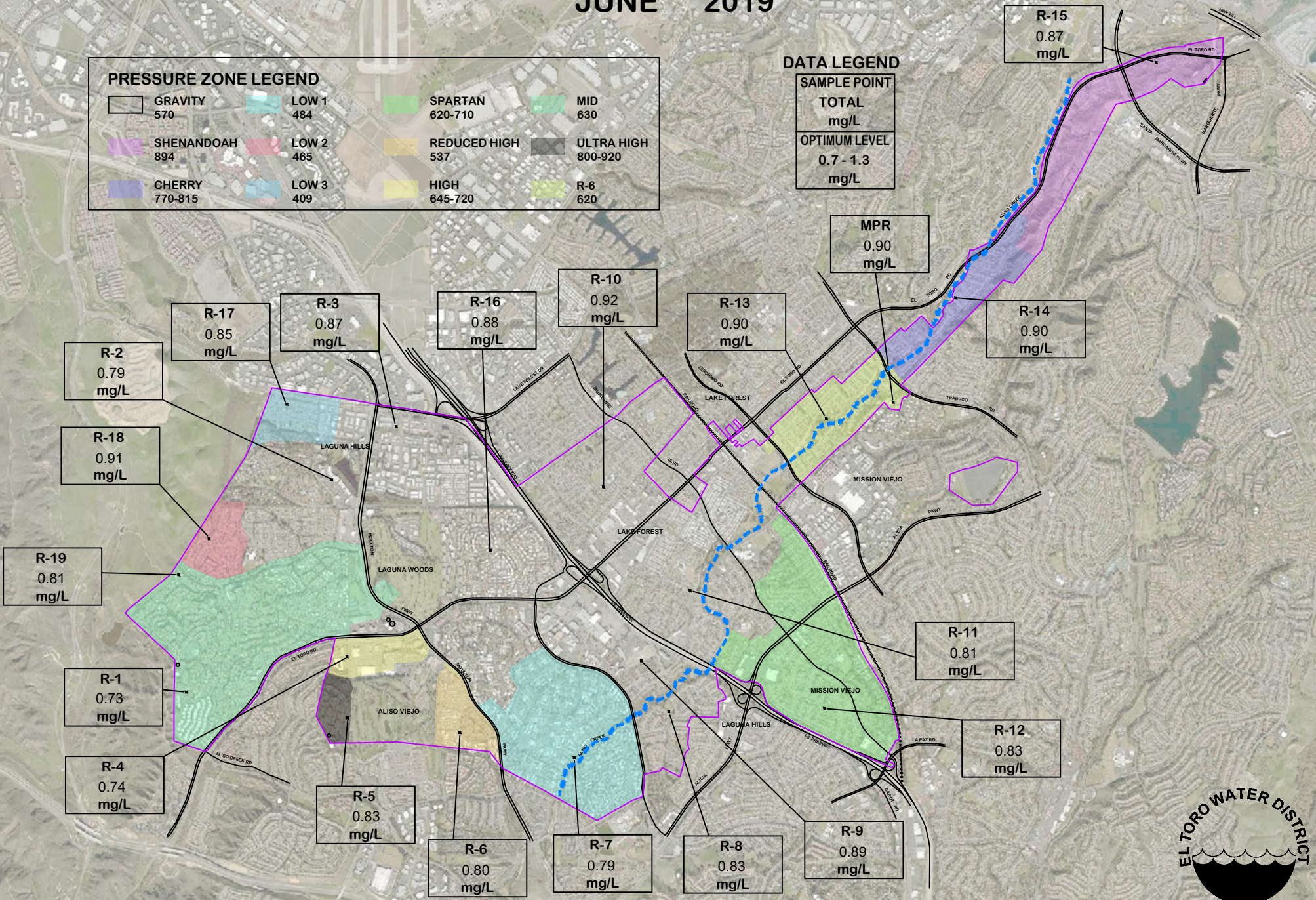


FLUORIDE MONITORING

JUNE 2019

| 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 |



**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: | | July | YEAR : 2019 | | |
| CONSTITUENT ANALYSIS | | INSIDE LAB | | OUTSIDE LAB | |
| | MCL | NO. | RESULTS | NO. | RESULTS |
| 1 Microbiological | Pres/Absence | 175(A) | Pres/Absence | | Average |
| 2 Chlorine (ppm) | Detectable Resid | 242 | Average = 1.24 ppm | | |
| 3 TTHM (ppb) (Stage 2) | 0.080 ppb | | N/A | | |
| 3 HAA5 (ppb) (Stage 2) | 0.060 ppb | | N/A | | |
| 4 Physical Quality: | | | RANGE | | |
| Turbidity (ppm) | 5 NTU | 20 | 0.01 to 0.06 | | |
| Odor | 3 Units | 20 | ND<1 | | |
| Color | 15 Units | 20 | ND<5 | | |
| Temperature | No standard | 20 | 69.0°F To 76.0°F | | |
| 5 Nitrite (Alert/Action level)ppm | 0.015 to 0.030 ppm | 98 | 0.000 to 0.680 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 |

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

MONTH ENDING: JULY 2019

| 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 | 1,553 | 36 JARS | \$612.00 | |
| Other | | | | |
| TOTAL | 1,553 | | | |
| ROOT CUTTING | FOOTAGE | COMMENTS: | | |
| Outside Laguna Woods Village | | | | |
| Laguna Woods Village | | | | |
| New World | | | | |
| TOTAL | 0 | | | |
| HYDRO-CLEANING | FOOTAGE | COMMENTS: | | |
| Outside Laguna Woods Village | 19,216 | | | |
| Laguna Woods Village | | | | |
| New World | | | | |
| Private System | | | | |
| Hot Spots | 24,505 | | | |
| ETWD TOTALS: | 43,721 | | | |
| SANTA MARGARITA TOTALS: | | | | |
| COMBINED TOTALS: | 43,721 | | | |
| TV INSPECTIONS | FOOTAGE | COMMENTS: | | |
| Outside Laguna Woods Village | | | | |
| Laguna Woods Village | 4,671 | | | |
| New World | | | | |
| Private System | | | | |
| Other | | | | |
| TOTAL | 4,671 | | | |
| Wet Wells | Number | 3 | MATHIS-WESTLINE-FREEWAY | |
| Flow Meter/Sampling | Number | | | |
| WATER TANK FILLS | 46 | 46,000 | | |

Weekly Water Quality System Status

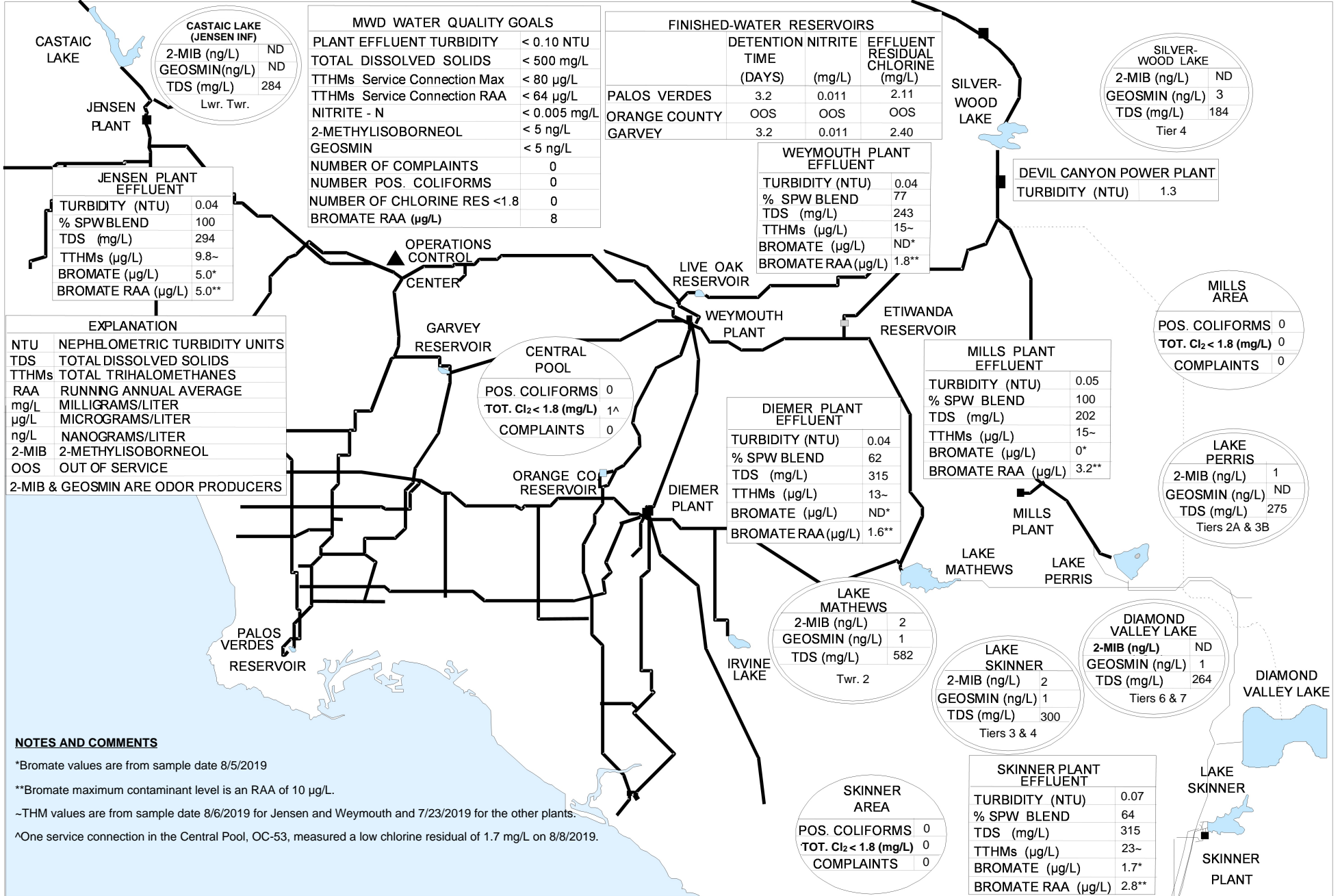
Wednesday, August 14, 2019

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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 8/5/2019
- **Bromate maximum contaminant level is an RAA of 10 µg/L.
- ~THM values are from sample date 8/6/2019 for Jensen and Weymouth and 7/23/2019 for the other plants.
- ^One service connection in the Central Pool, OC-53, measured a low chlorine residual of 1.7 mg/L on 8/8/2019.

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>

WILL SERVE REQUEST STATUS REPORT

(June 2019)

**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 |
|----------------|----------------------|--------------------------------------|------|-----------------------------|--------|-------------|
| 7/17/18 | City of Laguna Woods | A Place for Paws Dog Park | ND | 23301 Ridge Route Dr. | Issued | 7/25/18 |
| 7/17/18 | MPVCA Laguna LLC | 24022 Calle de la Plata Fire Service | ND | 24022 Calle de la Plata Dr. | Issued | 8/1/18 |
| 11/30/18 | Camino Oaks LLC | 24191 Paseo de Valencia Fire Service | ND | 24191 Paseo de Valencia | Issued | 11/30/18 |
| 3/8/19 | Target Corporation | Target Mission Viejo Redevelopment | ND | 24500 Alicia Pkwy. | Issued | 7/3/19 |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

ND = New Development

TI = Tenant Improvement

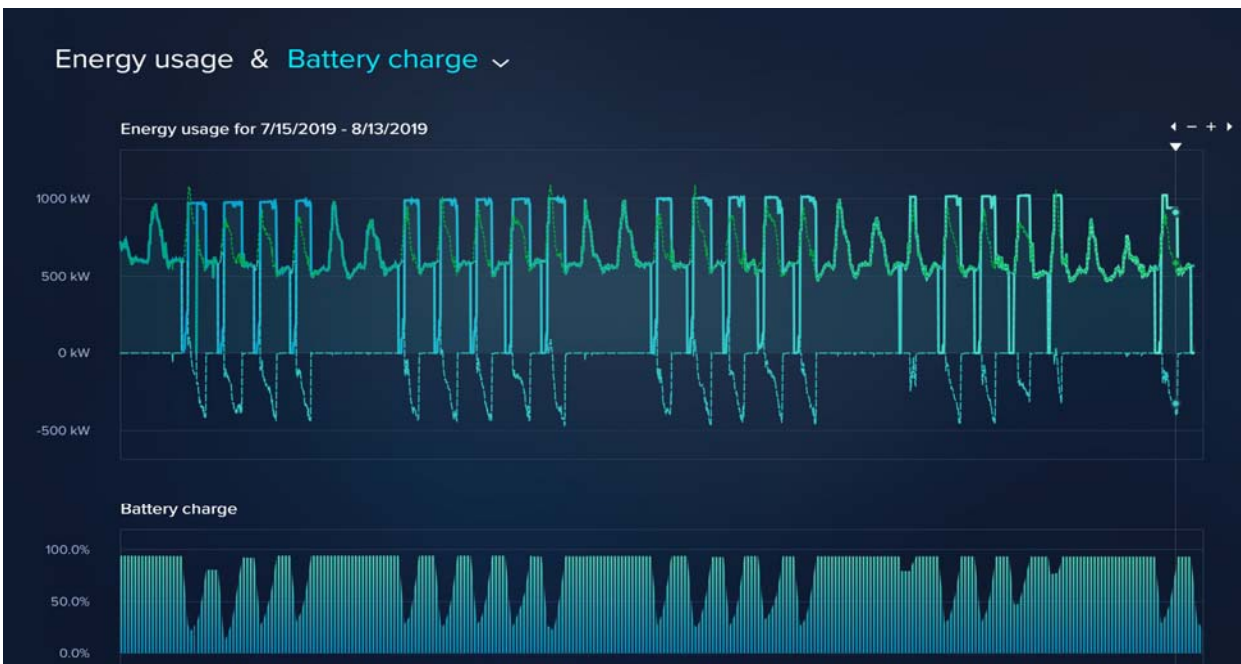


WRP BATTERY STORAGE SYSTEM

MONTHLY REPORT

JULY, 2019

| BILLING PERIOD | PEAK REDUCTION | PEAK INCURRED | BILL SAVINGS | NET SAVINGS |
|-----------------------|----------------|---------------|--------------|-------------|
| 7/15/2019 - 8/13/2019 | 69 kw | 1026 kw | \$2,750.17 | \$770.17 |



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ATTORNEY AND COUNSELOR AT LAW
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WASHINGTON, DC 20007
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jimbarker@jcbdc.com

Nicholas Crockett
Allison Leavitt

Municipal Water District of Orange County, California
Washington Update
August 7, 2019

Appropriations:

As Congress went into their annual August Recess, Congressional leaders in the House and the Senate and Trump administration officials found agreement on a two-year budget compromise that will prevent a debt default and billions of dollars in forced budget cuts.

In addition the budget agreement will substantially reduce the chance of another government shutdown before voters go to the polls next year to decide on a second term for President Donald Trump.

Under the agreement which was passed and signed into law last week, overall funding for defense programs would increase 3 percent for fiscal 2020, which begins Oct. 1. Non-defense funding would increase 4 percent over current levels for the upcoming fiscal year.

House appropriators are still wrestling with what this means to the spending bills which have already passed through the House of Representatives. They have already passed 10 of the 12 spending bills this summer. House Leaders in the lower chamber can't relax too much-- since the levels they used to write those bills now differ from what the budget deal will dictate. As they prepare for negotiations, House appropriators need to account for about \$5 billion more in military spending and about \$15 billion less for non-defense programs.

The House increased spending for water programs by approximately 4% in the Energy and Water and Interior and EPA spending bills.

On the Senate side, Senator Shelby (R-Al) has indicated that the Energy and Water bill may be one of the first spending bills that the Senate will pass in September.

Wildfire Update:

Senators Dianne Feinstein (D-Calif.) and Steve Daines (R-Mont.) issued a joint statement last week on bipartisan legislation they are developing to protect public safety by expediting and expanding the removal of dead, dying and hazardous trees in national forests:

According to their media statement, “The 2017 and 2018 fire seasons brought unspeakable loss and grief to California and Montana communities. Unfortunately, millions of acres of forests in our states and across the West remain at high risk of catastrophic wildfires, and there is strong consensus that fire seasons will only get worse. We believe additional resources are urgently needed to protect our communities and tackle these emergency conditions.

“We’re working together to develop bipartisan legislation to improve management and speed up restoration of forest landscapes in California and Montana, create viable solutions for the removal of woody biomass and dead and dying trees, accelerate post-fire restoration and reforestation, and expedite targeted treatments of dangerously dense forested areas where wildfires are most likely to start.

“Our bipartisan bill will take concrete, meaningful steps to improve forest health and address the worsening threat that catastrophic wildfires pose to our communities. We intend to introduce the bipartisan legislation after the Senate returns from the August work period and will work with members of both parties to pass it.”

In the last thirty years, there has been a significant uptick in wildfires in the United States. Last year, nearly nine million acres burned across the United States. The average acres burned are now almost double what the average was in the 1990s and more than half of the Forest Service’s budget is dedicated to fighting wildfire compared to only 16 percent in 1995.

Reauthorization of portions of the 2016 WIIN Act:

As noted in last month’s report, Senator Feinstein along with Senator McSally (R-AZ) and Senator Gardner (R-Co) introduced S.1932, the Drought Resiliency and Water Supply Infrastructure Act. It would reauthorize the Title 16 Water Reclamation and Reuse Program and also include \$60 million for desalination projects and it will also provide a \$670 Million Authorization for the construction of surface and groundwater recycling projects. The bill is similar to the legislation which is being advanced by Congressman Huffman (D-Ca) and Congresswoman Napolitano (D-Ca). Of note, in the Senate Hearing on July 18th on the bill, Brenda Burman, the Commissioner of the Bureau of Reclamation, stressed the importance of water storage and using all of the tools available to water managers to improve future water

supplies. Many here believe that S. 1932 to be the likely major water bill that will pass during this session of Congress.

Congressman Levin Desalination Authorization Bill:

On Thursday, July 28th, the House Water, Oceans and Wildlife Subcommittee held a hearing on nine different water bills, including Congressman Levin's legislation, HR 3723. This legislation would dramatically increase funding for desalination projects that have been listed in the 2016 WIIN Act—and would authorize \$260 Million in new funding for desal projects nationally. The General Manager of South Coast Water District, Rick Shintaku, testified at the Hearing about the SCWD project, the Doheny Beach Desal Project, which was described by Chairman Huffman as a "model project". Congressman Levin's legislative strategy is to pass his bill through the House and then have Senator Feinstein amend her bill, S.1932, with his additional authorizations language for desal projects.

PFAS:

The Congress was very active during the month of July considering amendments to the Department of Defense Reauthorization Act that dealt with Per and Polyfluoroalkyl substances, known as PFAS. These substances have found their way into the drinking water supplies in various communities. Per and polyfluoroalkyl substances are a group of man-made chemicals that includes PFOA, PFOS, GenX, and many other chemicals and there are many areas contaminated. There is mounting evidence that exposure to PFAS can lead to adverse human health effects.

The Senate made significant progress in late June in reaching consensus on PFAS legislation—with consensus among both Senate Republicans and Democrats being the key word. Following two hearings in the Senate Environment and Public Works (EPW) Committee this spring, a package was unveiled and quickly considered in Committee on June 19 and then amended into the National Defense Authorization Act (NDAA) also known frequently as the annual Department of Defense Reauthorization Bill.

Of note, the Senate language did not address other legislative proposals including the listing of PFAS as CERCLA hazardous substances, something deemed very controversial due to liability concerns.

The House on the other hand was a completely different story.

There were a number of amendments considered on this issue. The final bill as passed by the House contains PFAS provisions similar to those in the Senate bill, but with some key differences. To summarize, the House bill mandates Clean Water Act (CWA) discharge limits for PFAS, but does not include the Senate's requirement to promulgate drinking water standards.

Most importantly, the House approved an amendment, offered by Reps. Debbie Dingell (D-MI) and Dan Kildee (D-MI), requiring EPA to list all PFAS as hazardous substances under CERCLA. The Senate bill does not include this provision.

The hazardous substance issue is important and controversial because of its liability implications. If PFAS are listed as hazardous substances, they become subject to CERCLA's broad liability scheme, *which makes past and present owners and operators, transporters, and arrangers jointly and severally liable for the cost of cleanup*. EPA already has CERCLA authority to clean up PFAS releases (as pollutants or contaminants), but presently cannot hold parties liable under CERCLA for such cleanup. The House provision – by making PFAS hazardous substances – would expand EPA's ability to recover CERCLA response costs, and also would empower private parties to recover CERCLA response costs for PFAS cleanups.

The two different House and Senate bills now headed to a House/Senate conference committee, which will take place in September-- where these (and many other differences) must be resolved. At the time of the preparation of this report, the Conferees have not been named to the Conference Committee which will need to reconcile the differences between the House and the Senate Bills.

Outlook: The Trump Administration is more supportive of the Senate version of the bill and that may provide the Senate additional negotiation leverage in their discussions with the House on PFAS issues. Even with the passage of the Defense Bill, other committees in Congress are actively addressing PFAS related issues in the Congress.

Water Conservation IRS Tax Rebate Issue:

Following up on the Water Conservation Rebate IRS issue which was discussed during last month's PAL meeting, we have been visiting with House and Senate offices on the matter. Senator Feinstein's office is working with Senator Burr's (R-NC) Office on the issue. Senator Burr sits on the Senate Finance Committee and could very well determine if an IRS remedy is included in an upcoming Senate Tax Bill.

On the House side, Congressman Jared Huffman (D-Ca) is engaging with the House Ways and Means Committee on the issue. There hasn't been a hearing on Congressman Huffman's legislation yet but the Congressman's office is working with Congressman Thompson who Chairs the Subcommittee of jurisdiction for this issue on the Ways and Means Committee—the House panel that passes tax measures.

JCB 8/7/19



BEST BEST & KRIEGER
ATTORNEYS AT LAW

Memorandum

To: Municipal Water District of Orange County
 From: Syrus Devers, Best Best & Krieger
 Date: August, 2019
 Re: Monthly State Political Report

Legislative Report

The Summer Recess ends on the 12th, which starts the most frantic time of the year. All remaining bills have 30 days to get to the Governor's desk. The Governor gets extra time to consider bills passed near the end of session, but knowing the exact date when that happens is something of an art. In general, the Governor has 12 days to act on a bill, unless the 12th day falls on a weekend or a holiday. Any bill that is "in possession" of the Governor on the last day of session, which means the 12-day clock has not run out, must be acted on within 30 days. Ordinarily, you'd count back 13 days from the end of session to determine the date after which the Governor gets more time to act. Session ends on September 13th this year, but September 1st is a Sunday and September 2nd is a holiday, which makes September 3rd the trigger for giving the Governor until 30 days after session ends to act on a bill, or October 13th with no allowance for Sundays or holidays. For any bill passed before the 3rd, the 12-day rule applies.

But there's a catch: the clock doesn't start until a bill is "enrolled" to the Governor, which simply means the paperwork is done. During busy times, like end of session, there can be delays "engrossing and enrolling" a bill, which pushes back the date an unknown number of days. Assume the Governor as until October 13th to consider any bill passed in the last week of August.

Don't bother trying to remember any of that because the rules change for the second year of the biennial session.

Since the last PAL Committee hearing was on the first day of the Summer Recess, and the August meeting falls on the day the Legislature returns, the only newsworthy items to report on are the Governor's actions during the recess. (Don't hold your breath waiting to hear about any vetoes.)

SB 200 (Monning): the "Safe and Affordable Drinking Water Fund". The Governor went to great lengths to tout his signature on SB 200 by traveling to Sanger (along with Senator Monning) to meet with residents and sign the bill. Where's Sanger? Why, it's right across the river from Wahtoke, next to Tombstone Territory. (On a more serious note, located near the middle of the San



BEST BEST & KRIEGER
ATTORNEYS AT LAW

Joaquin Valley on the Kings River, Sanger was hit with both contaminated ground water and severe water shortages during the drought.)

SB 307 (Roth): the “Cadiz bill”. No expense was spared fighting this bill but the Governor quickly signed it. In fact he not only signed it, he also went out of his way to write a little message about why he signed it, which can be found here: <https://www.gov.ca.gov/wp-content/uploads/2019/07/SB-307-Signing-Message-7.31.19.pdf>

AB 756 (C. Garcia): Per- and Polyfluoroalkyl (PFAS) standards. The Governor waited until the last possible day to sign the bill and did so without comment. A Governor usually does this to make opponents feel like they had every opportunity to be heard. It’s possible that there was debate within the staff, but speculation is that the SWRCB said, “Don’t worry. We’ll make it work. Everything will be fine”.

And just for fun, Newsom also signed...

SB 27 (McGuire): the Presidential Tax Transparency and Accountability Act. (A.k.a., the Donald Trump bill.) If you want to run for President of these United States and appear on the ballot in California, you gotta show your taxes. For good measure it applies to the Governor as well, which gave Newsom another opportunity to brag about releasing 6 years of tax returns when he ran for Governor.

When the Legislature does return it will hit the ground running. AB 402 (Quirk) is set for hearing on the 12th in Senate Appropriations. This is the bill to fund Local Primacy Agencies through the Safe Drinking Water Fund, which makes it operate like a tax on water agencies. BB&K staff is part of a group that has been meeting with key Senators during the recess. It’s also possible that SB 1 (Atkins) will be set for a hearing the same day as well. If so, it will be a long day for water industry lobbyists.

The County of Orange Report

August 7, 2019
by Lewis Consulting Group



ORANGE COUNTY
LAFCO
EST. 1962

Fisler Edges Jacobs for LAFCO Seat

The first order of business for the August 14th LAFCO meeting will be the swearing-in of new Special District Commissioner Jim Fisler, who narrowly won with a 14-12 victory among the 26 of 27 Special Districts which cast votes. For many years, the two Special District seats were filled by two South County representatives, now both seats are filled by North County representatives. The vote tally showed strong North/South Regional voting.

Our written report is submitted prior to the August 14th meeting. Also on the August 14th agenda is:

- Item 8B - FY 2018-2019 Fund Comprehensive Quarterly Report
- Item 10A - OCLAFCO Reserves and Projections
- Item 10B - Proposed revisions to OCLAFCO Policies and Procedures
- Item 10C - CAL-LAFCO update



Update

The July 30th Board of Supervisors meeting was highlighted by two separate items. The first was the formal report on the newly authorized Ad Hoc Committees. Ad Hocs allow two Board members to research and make policy recommendations to the full Board without falling out of compliance with the Ralph Brown Act. Usually great deference is given to Ad hoc's recommendations making the two selected of great interest to those following that particular issue.

The newly announced Ad Hoc Committees

| Ad Hoc Committee Name/Purpose | BOS Members | Creation Date |
|---|--------------------|----------------------|
| Census Planning Ad Hoc Committee - Establish a committee to update County jurisdictional boundaries, address and population data and develop an education and outreach strategy | Do & Chaffee | 10/30/18 |
| County Procurement Manual Ad Hoc Committee - Established an ad hoc committee to work with County Executive Office and County Procurement Office to bring changes to the CPM for Board Approval in early 2019 | Do & Bartlett | 11/6/18 |
| El Toro Ad Hoc | Chaffee & Wagner | 6/4/19 |
| OIR Ad Hoc Committee | | 6/25/19 |
| Airport Governance Committee | Bartlett & Steel | 11/20/18 |

Key Findings - County Homeless Report

Also at the July 30th Board meeting, the County released additional information and demographics associated with its homeless point-in-time count. On January 22 & 23, 2019, nearly 1,200 volunteers fanned out all over the County to make an accurate as possible count of the County's homeless population. The count for the 24 hour period encompassing January 22nd was 6,860 individuals. Of these, 311 are veterans and 1,550 are members of 466 families of which 356 were sheltered and 110 were not. The Board is giving special emphasis to solving these two categories in an expedited manner. Below are additional demographics from the count:

Total Persons Counted

A total of 6,860 individuals were counted as experiencing unsheltered and sheltered homelessness during the Orange County 2019 Point In Time Count.

- Unsheltered: 3,961 or 57.74 percent of individuals were experiencing unsheltered homelessness.
- Sheltered: 2,899 or 42.26 percent of individuals were sheltered in an emergency shelter or transitional housing program.

Service Planning Areas

- North: 2,765 or 40.31 percent of unsheltered and sheltered adults and children were counted in the North Service Planning Area.
- Central: 3,332 or 48.57 percent of unsheltered and sheltered adults and children were counted in the Central Service Planning Area.
- South: 763 or 11.12 percent of unsheltered and sheltered adults and children were counted in the South Service Planning Area.

Families

- 466 unsheltered and sheltered families that consisted of 1,550 persons – 584 adults and 966 children – were counted countywide.
 - Unsheltered: 110 unsheltered families comprised of 396 persons – 152 adults and 244 children
 - Sheltered: 356 sheltered families comprised of 1,550 persons – 582 adults and 966 children
- One-parent families made up 80.1 percent of sheltered families and 61.82 percent of unsheltered families.
- 51 or nearly half (46.36 percent) of the 110 unsheltered families became homeless for the first time during the past 12 months.

- 70 or over half (63.63 percent) of the 110 unsheltered families were living in a vehicle (car, van, truck or recreational vehicle in disrepair).
- Disabling conditions in adults who were members of a family household were much lower than the disabling conditions experienced by all adults encountered during the 2019 Point In Time.
 - 15.41 percent of adults who were members of a family household had a substance use issue compared to 30.63 percent of all adults encountered during the 2019 Point In Time.
 - 13.36 percent of adults who were members of a family household had a mental health issue compared to 28.13 percent of all adults encountered during the 2019 Point In Time.

Transitional Age Youth, Individuals ages 18 to 24

- 275 transitional age youth were counted as experiencing homelessness countywide.
- 12 percent of transitional age youth are chronically homeless compared to 42.4 percent of all adults experiencing homelessness.
- Nearly half (44.7 percent) of the transitional age youth identified as Hispanic or Latino.

Seniors, Individuals Age 62 and Older

- 612 sheltered and unsheltered seniors were counted countywide.
- Nearly half (48.86 percent) of the seniors are chronically homeless.
- Approximately one in eight (14.05 percent) of the seniors are veterans.
- Nearly half (43.2 percent) of unsheltered seniors were retired and/or disabled.

Veterans

- 311 unsheltered and sheltered veterans were counted countywide.
 - Nearly one-third (31.83 percent) were sheltered.
 - More than two-thirds (68.17 percent) were unsheltered.
- Nearly half (46.30 percent) of the veterans identified as experiencing homelessness were chronically homeless.
- Over half (54.66 percent) of sheltered and unsheltered veterans were age 55 and older.

Chronic Homelessness

- 2,491 sheltered and unsheltered adults are experiencing chronic homelessness.
 - Unsheltered: 1,932 (52.02 percent) of unsheltered adults are experiencing chronic homelessness.
 - Sheltered: 559 (25.81 percent) of sheltered adults are experiencing chronic homelessness. In transitional housing programs only.

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Recently Became Homeless

- 38.2 percent of all unsheltered households became homeless for the first time during the 12 months (January 2018 to January 2019) prior to the 2019 Point In Time.
- 34 of the 85 (40 percent) unsheltered transitional age youth who were surveyed stated that they became homeless for the first time during the past 12 months.

Living in Vehicles

- Nearly one in five adults surveyed (19.90 percent) were living in a vehicle (car, van, truck or recreational vehicle in disrepair).

Shelter Inventory

- From the 2018 Housing Inventory Chart sheltered count conducted on January 26, 2018, there has been a net increase of 633 beds in Emergency Shelter and Transitional Housing beds. There has been an increase of 675 emergency shelter beds and a decrease of 42 transitional housing beds during this time.

Unused Beds

- On the night of the 2019 Housing Inventory Chart sheltered Point in Time Count was conducted, 738 emergency shelter and transitional housing beds remained vacant.

Racial and Ethnic Disparities

- Blacks or African Americans and Multiple Races are overly represented in Orange County's homeless population. Of the individuals and families experiencing unsheltered homelessness, 8.41 percent are Black or African American and 12.24 percent are Multiple Races. Of the individuals and families experiencing sheltered homelessness, 15.01 percent are Black or African American and 4.10 percent are Multiple Races. According to the U.S. Census Bureau, Blacks or African Americans represent 2.1 percent and Multiple Races only represent 3.5 percent of the Orange County population.
- Hispanic and Latino families experiencing homelessness are over represented in the Orange County's homeless population. Of the families experiencing unsheltered homelessness, 57.07 percent are Hispanic or Latino. Of the families experiencing sheltered homelessness, 49.83 percent are Hispanic or Latino. According to the U.S. Census Bureau, Hispanics and Latinos represent 34.2 percent of the population in Orange County.

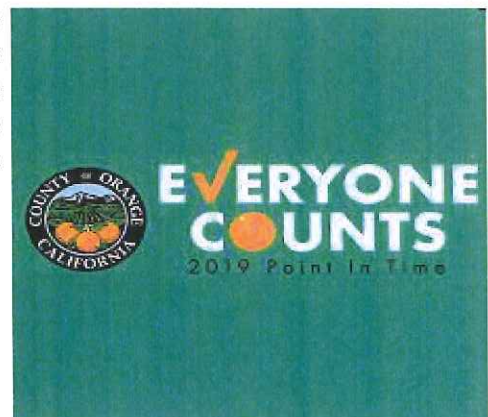
Community Engagement and Support

- The County of Orange, all 34 cities in the county and their local law enforcement agencies participated in the 2019 Point In Time.
- 1,167 volunteers including community members, nonprofit organizations, city and county staff supported the implementation of the 2019 Point in Time unsheltered count.

Methodology

- Veterans encountered during the unsheltered count were asked to provide additional personal identifying information, which was used to reconcile with the current Veteran Registry and provide street outreach teams with needed contact and frequent location information for subsequent connection to supportive services and housing resources.
 - Of the 212 unsheltered veterans, 95 provided the additional information to reconcile the Veteran Registry.
- Because Families are often undercounted during a street count canvassing, a family focused effort was implemented with the Family Solutions Collaborative who outreached to unsheltered families on their caseload during the Point in Time Count to be counted at one of several identified service locations.

Once again, the Board meeting was marred by the presence of some homeless advocates who disrupted the meeting, hurled insults from the audience and made vile comments going so far as to accuse the Board of murder for their "slow" response to the homeless issue.



Latest Poll Shows



Green California

Polling throughout the Golden State demonstrably shows that Californians two favorite colors are blue & green.

The latest Poll-California and the Environment was conducted by the Public Policy Institute of California [PPIC]. The poll was conducted between July 14-23 among 1,706 California adults. A survey of this size yields a margin of error of +/- 3.4%.

Would you say that the supply of water is a big problem, somewhat of a problem, or not much of a problem in your part of California?

- 30% big problem
- 27% somewhat of a problem
- 41% not much of a problem
- 1% don't know

Do you think that pollution of drinking water is a more serious health threat in lower-income areas than other areas in your part of California, or not?

- 58% yes
- 30% no
- 11% don't know

Which of the following statements reflects your view of when the effects of global warming will begin to happen— (1) they have already begun to happen; (2) they will start happening within a few years; (3) they will start happening within your lifetime; (4) they will not happen within your lifetime, but they will affect future generations; or (5) they will never happen?

- 63% already begun
- 4% within a few years
- 7% within your lifetime
- 11% not within lifetime, but will affect future generations
- 11% will never happen
- 4% don't know

How serious of a threat is global warming to the economy and quality of life for California's future—do you think that it is a very serious, somewhat serious, not too serious, or not at all serious of a threat?

- 57% very serious
- 22% somewhat serious
- 9% not too serious

10% not at all serious
2% don't know

Naming a few of the possible impacts of global warming in the future in California, tell me whether you are very concerned, somewhat concerned, not too concerned, or not at all concerned about each one.

How about increased rising sea levels?

42% very concerned
29% somewhat concerned
12% not too concerned
15% not at all concerned
2% don't know

How about heat waves that are more severe?

49% very concerned
28% somewhat concerned
10% not too concerned
12% not at all concerned
1% don't know

How about wildfires that are more severe?

71% very concerned
15% somewhat concerned
5% not too concerned
7% not at all concerned
1% don't know

Do you think that global warming has contributed to California's recent wildfires or not?

63% yes, has contributed
32% no, has not contributed
5% don't know

To address global warming, do you favor or oppose the state law that requires California to reduce its greenhouse gas emissions to 40 percent below 1990 levels by the year 2030?

67% favor
24% oppose
9% don't know

Do you favor or oppose the state law that requires 100 percent of the state's electricity to come from renewable energy sources by the year 2045?

71% favor
24% oppose
6% don't know

Do you favor or oppose the California state government making its own policies, separate from the federal government, to address the issue of global warming?

- 64% favor
- 31% oppose
- 5% don't know

When it comes to efforts to fight climate change, how important is it to you that California acts as a leader around the world—very important, somewhat important, not too important, or not important at all?

- 53% very important
- 25% somewhat important
- 7% not too important
- 14% not important at all
- 1% don't know

Do you think that California doing things to reduce global warming in the future would cause gasoline prices at the pump around the state to increase, or to decrease, or wouldn't affect gasoline prices at the pump around the state?

- 58% increase gasoline prices
- 15% decrease gasoline prices
- 17% wouldn't affect gasoline prices
- 9% don't know

In order to help reduce global warming, would you be willing or not willing to pay more for electricity if it were generated by renewable sources like solar or wind energy?

- 51% willing
- 45% not willing
- 4% don't know

Officials in the state and federal governments are discussing ways to address global warming. Please tell me if you favor or oppose the following plans to help reduce greenhouse gas emissions.

How about encouraging local governments to change land use and transportation planning so that people could drive less?

- 74% favor
- 23% oppose
- 3% don't know

How about requiring all automakers to further reduce the emissions of greenhouse gases from new cars?

- 75% favor
- 21% oppose
- 4% don't know

How much, if anything, have you heard about the state government policy called "cap and trade" that sets limits on greenhouse gas emissions? Have you heard a lot, a little, or nothing at all?

10% a lot
31% a little
59% nothing at all
– don't know

How about allowing more oil drilling off the California coast?

28% favor
67% oppose
5% don't know

How about allowing wind power and wave energy projects off the California coast?

72% favor
19% oppose
9% don't know

More Good News for Democrats

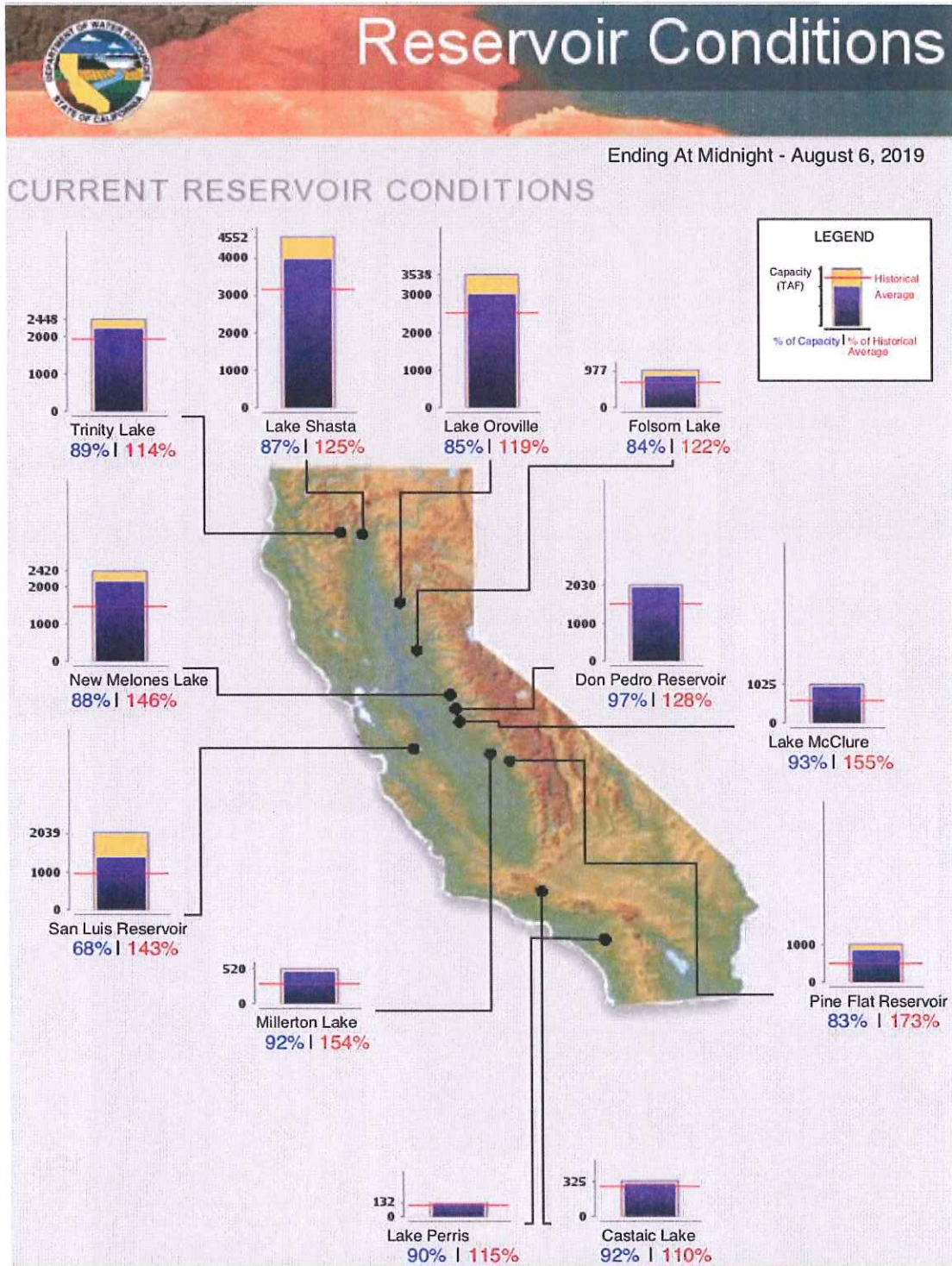
Orange County, the once fabled bastion of conservative Republicanism is no more. On August 7, 2019, registered Democrat voters in Orange County outnumbered Republicans by 89 registrants. Twice before Democrats held a narrow edge in Orange County, once in the wake of Watergate in the mid-1970's and again briefly in 1979 following a massive voter registration drive. The high-water mark for Republicans came in 1985 when 52.7% of Orange Countians were registered Republican compared to the Democrats share of 36.6%.

This time there may be no turning back. A combination of demographic shifts, Republican out-migration and younger antithesis toward the Republican party may lock-in Democratic majorities for decades to come.



California Reservoirs Bountiful Summer

The twelve reservoirs tracked daily by the California Data Exchanged Center [CDEC] showed that all twelve are well above their historical average for this time of year. Leading the way is the Pine Flat reservoir 173% above average. The state's two largest reservoirs, Lake Shasta and Lake Oroville are 125% and 119% respectively of their historical average as well.



PAL Committee

Prepared by Best Best & Krieger LLP, July 9, 2019

A. Priority Support/Oppose

| Measure | Author | Topic | Status | Brief Summary | Position | Priority | Notes I |
|------------------------|-------------------------|---|---|---|-----------------------|----------------------------|--------------------------------|
| AB 292 | Quirk D | Recycled water: raw water and groundwater augmentation. | 7/10/2019-From committee: Do pass and re-refer to Appropriations. | Current law requires the State Water Resources Control Board, on or before December 31, 2023, to adopt uniform water recycling criteria for direct potable reuse through raw water augmentation, as specified. Current law defines "direct potable reuse" and "indirect potable reuse for groundwater recharge" for these purposes. This bill would eliminate the definition of "direct potable reuse" and instead would substitute the term "groundwater augmentation" for "indirect potable reuse for groundwater recharge" in these definitions. The bill would revise the definition of "treated drinking water augmentation." | Support | A. Priority Support/Oppose | Set for hearing on Aug. 12th. |
| AB 402 | Quirk D | State Water Resources Control Board: local primacy delegation: funding stabilization program. | 7/3/2019-From committee: Do pass and re-refer to Com. on APPR. (Ayes 5. Noes 0.) (July 3). Re-referred to Com. on APPR. | The California Safe Drinking Water Act requires the State Water Resources Control Board to administer provisions relating to the regulation of drinking water to protect public health, including, but not limited to, conducting research, studies, and demonstration programs relating to the provision of a dependable, safe supply of drinking water, enforcing the federal Safe Drinking Water Act, adopting implementing regulations, and conducting studies and investigations to assess the quality of water in private domestic water supplies. This bill would authorize the state board to delegate partial responsibility for the act's administration and enforcement by means of a local primacy delegation agreement. The bill would authorize the state board, for counties that have not been delegated primary responsibility as of January 1, 2020, to offer an opportunity for the county to apply for partial or primary responsibility if the state board | Oppose unless amended | A. Priority Support/Oppose | Set for hearing the Aug. 12th. |

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| | | | | determines that it needs assistance in performing administrative and enforcement activities, as specified. | | | |
| AB 756 | Garcia, Cristina D | Public water systems: perfluoroalkyl substances and polyfluoroalkyl substances. | Chaptered | Would authorize the State Water Resources Control Board to order a public water system to monitor for perfluoroalkyl substances and polyfluoroalkyl substances. The bill would require a community water system or a nontransient noncommunity water system, upon a detection of these substances, to report that detection, as specified. The bill would require a community water system or a nontransient noncommunity water system where a detected level of these substances exceeds the response level to take a water source where the detected levels exceed the response level out of use or provide a prescribed public notification. | Watch | A. Priority Support/ Oppose | |
| ACA 3 | Mathis R | Clean Water for All Act. | 4/30/2019-In committee: Set, first hearing. Failed passage. Reconsideration granted. | This measure, the Clean Water for All Act, would additionally require, commencing with the 2021–22 fiscal year, not less than 2% of specified state revenues to be set apart for the payment of principal and interest on bonds authorized pursuant to the Water Quality, Supply, and Infrastructure Improvement Act of 2014; water supply, delivery, and quality projects administered by the department, and water quality projects administered by the state board, as provided. | Out for Analysis | A. Priority Support/ Oppose | |
| SB 134 | Hertzberg D | Water conservation: water losses: enforcement. | 6/18/2019-From committee: Do pass and re-refer to Com. on APPR. (Ayes 12. Noes 0.) (June 18). Re-referred to Com. on APPR. | Current law requires the State Water Resources Control Board, no earlier than January 1, 2019, and no later than July 1, 2020, to adopt rules requiring urban retail water suppliers to meet performance standards for the volume of water losses. This bill would prohibit the board from issuing an information order, written notice, or conservation order to an urban retail water supplier that does not meet its urban water use objective if the board determines the urban retail water supplier is not meeting its urban water use objective solely because the volume of water loss exceeds the urban retail water supplier's standard for water loss and the board is taking enforcement action against the urban retail water supplier for not | Support | A. Priority Support/ Oppose | |

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| | | | | meeting the performance standards for the volume of water losses. | | | |
| SB 200 | Monning D | Drinking water. | Chaptered | Would establish the Safe and Affordable Drinking Water Fund in the State Treasury to help water systems provide an adequate and affordable supply of safe drinking water in both the near and the long terms. The bill would authorize the State Water Resources Control Board to provide for the deposit into the fund of certain moneys and would continuously appropriate the moneys in the fund to the state board for grants, loans, contracts, or services to assist eligible recipients. | Watch | A. Priority Support/ Oppose | |
| SB 204 | Dodd D | State Water Project: contracts. | 6/24/2019-July 2 hearing postponed by committee. | Would require the Department of Water Resources to provide at least 10 days' notice to the Joint Legislative Budget Committee and relevant policy and fiscal committees of the Legislature before holding public sessions to negotiate any potential amendment of a long-term water supply contract that is of projectwide significance with substantially similar terms intended to be offered to all contractors. The bill would require the department, before the execution of a specified proposed amendment to a long-term water supply contract and at least 60 days before final approval of such an amendment, to submit to the Joint Legislative Budget Committee and relevant policy and fiscal committees of the Legislature certain information regarding the terms and conditions of a proposed amendment of a long-term water supply contract and to submit a copy of the long-term contract as it is proposed to be amended. | Watch | A. Priority Support/ Oppose | Amended to remove mandatory hearings |
| SB 205 | Hertzberg D | Business licenses: stormwater discharge compliance. | 7/1/2019-From committee with author's amendments. Read second time and amended. Re-referred to Com. on L. GOV. | Would require, when applying to a city or a county for an initial business license or business license renewal, a person who conducts a business operation that is a regulated industry to demonstrate enrollment with the NPDES permit program by providing specified information, under penalty of perjury, on the application, including, among other things, the Standard Industrial Classification Code for the business. The bill would apply to all applications for initial | Watch | A. Priority Support/ Oppose | |

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| | | | | business licenses and business license renewals submitted on and after January 1, 2020. | | | |
| SB 307 | Roth D | Water conveyance: use of facility with unused capacity. | Chaptered | Current law prohibits the state or a regional or local public agency from denying a bona fide transferor of water from using a water conveyance facility that has unused capacity for the period of time for which that capacity is available, if fair compensation is paid for that use and other requirements are met. This bill would, notwithstanding that provision, prohibit a transferor of water from using a water conveyance facility that has unused capacity to transfer water from a groundwater basin underlying desert lands, as defined, that is in the vicinity of specified federal lands or state lands to outside of the groundwater basin unless the State Lands Commission, in consultation with the Department of Fish and Wildlife and the Department of Water Resources, finds that the transfer of the water will not adversely affect the natural or cultural resources of those federal or state lands, as provided. | Opposition | A. Priority Support/ Oppose | |
| SB 414 | Caballero D | Small System Water Authority Act of 2019. | 7/11/2019-From committee: Do pass and re-refer to Appropriations. | Would create the Small System Water Authority Act of 2019 and state legislative findings and declarations relating to authorizing the creation of small system water authorities that will have powers to absorb, improve, and competently operate noncompliant public water systems. The bill, no later than March 1, 2020, would require the state board to provide written notice to cure to all public agencies, private water companies, or mutual water companies that operate a public water system that has either less than 3,000 service connections or that serves less than 10,000 people, and are not in compliance, for the period from July 1, 2018, through December 31, 2019, with one or more state or federal primary drinking water standard maximum contaminant levels, as specified. | Support | A. Priority Support/ Oppose | |

B. Watch

| Measure | Author | Topic | Status | Brief Summary | Position | Priority | Notes 1 |
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| AB 405 | Rubio, Blanca D | Sales and use taxes: exemption: water treatment. | 5/16/2019-Joint Rule 62(a), file notice suspended. In committee: Held under submission. | Would, on and after January 1, 2020, and before January 1, 2025, exempt from that Sales and Use Tax the gross receipts from the sale in this state of, and the storage, use, or other consumption in this state of, chemicals used by a city, county, public utility, and sanitation district to treat water, recycled water, or wastewater regardless of whether those chemicals or other agents become a component part thereof and regardless of whether the treatment takes place before or after the delivery to consumers. | Watch | B. Watch | |
| AB 441 | Eggman D | Water: underground storage. | 5/17/2019-Failed Deadline pursuant to Rule 61(a)(5). (Last location was APPR. SUSPENSE FILE on 4/24/2019)(May be acted upon Jan 2020) | Under current law, the right to water or to the use of water is limited to that amount of water that may be reasonably required for the beneficial use to be served. Current law provides for the reversion of water rights to which a person is entitled when the person fails to beneficially use the water for a period of 5 years. Current law declares that the storing of water underground, and related diversions for that purpose, constitute a beneficial use of water if the stored water is thereafter applied to the beneficial purposes for which the appropriation for storage was made. This bill would instead provide that any diversion of water to underground storage constitutes a diversion of water for beneficial use for which an appropriation may be made if the diverted water is put to beneficial use, as specified. | Watch | B. Watch | |
| AB 591 | Garcia, Cristina D | Central Basin Municipal Water District: board of directors. | 7/8/2019-Senate amendments concurred in. To Engrossing and Enrolling. | The Municipal Water District Law of 1911 provides for the formation of municipal water districts and grants to those districts specified powers. Current law permits a district to acquire, control, distribute, store, spread, sink, treat, purify, recycle, recapture, and salvage any water for the beneficial use of the district, its inhabitants, or the owners of rights to water in the district. Current law requires the board of directors of the Central Basin Municipal Water District to be composed of 8 directors until the directors elected at the November 8, 2022, election take office, when the board would be composed of 7 directors, as prescribed. Current law requires the 3 directors appointed by the water purveyors, as specified, to live or work within | Watch | B. Watch | |

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| | | | | the district and requires the term of an appointed director to be terminated if the appointed director no longer is employed by or a representative of the appointing entity. This bill would define representative for these purposes to be a consultant to or contractor of an entity, or a governing board member of a mutual water company. | | | |
| AB 636 | Gray D | State Water Resources Control Board: water quality objectives. | 4/26/2019-Failed Deadline pursuant to Rule 61(a)(2). (Last location was E.S. & T.M. on 3/14/2019)(May be acted upon Jan 2020) | Would prohibit the State Water Resources Control Board from implementing water quality objectives for which the state board makes a certain finding relating to environmental quality until it has submitted the water quality objectives and a statement of that finding to the appropriate policy committees of the Legislature and each committee has held a hearing on these matters. | Watch | B. Watch | |
| AB 637 | Gray D | State Water Resources Control Board: disadvantaged communities: drinking water. | 5/17/2019-Failed Deadline pursuant to Rule 61(a)(5). (Last location was APPR. SUSPENSE FILE on 5/1/2019)(May be acted upon Jan 2020) | Would require the State Water Resources Control Board, before taking an action that significantly impacts drinking water, to use existing information to identify impacted disadvantaged communities and to seek to reduce impacts to those communities to the greatest extent practicable. The bill would also require the board to ensure that disadvantaged communities are provided an opportunity to participate in the public process for a decision that significantly impacts drinking water by holding a public hearing in or near an impacted community. | Watch | B. Watch | |
| AB 638 | Gray D | Department of Water Resources: water storage: climate change impacts. | 6/19/2019-Re-referred to Com. on N.R. & W. | Would require the Department of Water Resources, on or before December 31, 2023, with updates every 5 years thereafter, to identify water storage facilities vulnerable to climate change impacts and the mitigation strategies for anticipated adverse impacts, as provided. The bill would require the department to publish this information on the department's publicly available internet website and to provide a copy of the information to the appropriate policy committees of the Legislature. The bill would require the department, subject to an appropriation, to mitigate, or make grants available for the mitigation of, adverse impacts to water storage facilities caused by | Watch | B. Watch | |

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| | | | | climate change, as specified. | | | |
| AB 658 | Arambula D | Water rights: water management. | 6/28/2019-From committee chair, with author's amendments: Amend, and re-refer to committee. Read second time, amended, and re-referred to Com. on N.R. & W. | Would authorize a groundwater sustainability agency or local agency to apply for, and the State Water Resources Control Board to issue, a conditional temporary permit for diversion of surface water to underground storage for beneficial use that advances the sustainability goal of a groundwater basin, as specified. | Watch | B. Watch | |
| AB 841 | Ting D | Drinking water: contaminants: perfluoroalkyl and polyfluoroalkyl substances. | 6/19/2019-In committee: Hearing postponed by committee. | Would require the Office of Environmental Health Hazard Assessment to adopt and complete a work plan within prescribed timeframes to assess which substances in the class of perfluoroalkyl and polyfluoroalkyl substances should be identified as a potential risk to human health, as provided. The bill would require the office, as part of those assessments, to determine which of the substances are appropriate candidates for notification levels to be adopted by the state board. The bill would require the Office of Environmental Health Hazard Assessment, by January 1, 2022, to provide to the Legislature an update on the assessment. | Watch | B. Watch | Not moving. |
| AB 955 | Gipson D | Water replenishment districts: water system needs assessment program. | 6/20/2019-From committee: Do pass and re-refer to Com. on N.R. & W. (Ayes 6. Noes 0.) (June 19). Re-referred to Com. on N.R. & W. | Would require a water replenishment district to offer to conduct a needs assessment program for water systems serving disadvantaged communities within the district, as specified. The bill would make a water system's participation in the program voluntary. The bill would require the district, upon completion of the needs assessment, to develop and evaluate options to address the findings and recommendations in the needs assessment and prepare an implementation plan for recommendation to the water system. | Watch | B. Watch | |
| AB 1204 | Rubio, Blanca D | Public water systems: primary drinking water standards: implementation date. | 4/26/2019-Failed Deadline pursuant to Rule 61(a)(2). (Last location was E.S. & T.M. on 3/11/2019)(May be acted upon Jan 2020) | Would require the adoption or amendment of a primary drinking water standard for a contaminant in drinking water not regulated by a federal primary drinking water standard or that is more stringent than a federal primary drinking water standard to take effect 3 years after the date on which the state board adopts or amends the primary drinking water standard. The bill would authorize the state board to delay the effective date of the primary drinking water standard adoption or amendment | Watch | B. Watch | |

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| | | | | by no more than 2 additional years as necessary for capital improvements to comply with a maximum contaminant level or treatment technique. | | | |
| AB 1220 | Garcia, Cristina D | Metropolitan water districts. | 7/5/2019-Enrolled and presented to the Governor at 3 p.m. | Under the Metropolitan Water District Act, the board of a metropolitan water district is required to consist of at least one representative from each member public agency, as prescribed. The act authorizes each member public agency to appoint additional representatives not exceeding one additional representative for each 5% of the assessed valuation of property taxable for district purposes within the entire district that is within the boundaries of that member public agency. This bill would prohibit a member public agency from having fewer than the number of representatives it had as of January 1, 2019. | Out for Analysis | B. Watch | |
| AB 1414 | Friedman D | Urban retail water suppliers: reporting. | 6/25/2019-Read second time. Ordered to third reading. | Would require each urban retail water supplier to submit a completed and validated water loss audit report as prescribed by the Department of Water Resources on or before October 1 of each year until October 1, 2023, if reporting on a calendar year basis and on or before January 1 of each year until January 1, 2024, if reporting on a fiscal year basis. The bill would require on or before January 1, 2024, and on or before January 1 of each year thereafter, each urban retail water supplier to submit a completed and validated water loss audit report for the previous calendar year or previous fiscal year as part of an existing report relating to its urban water use. | Watch | B. Watch | |
| AB 1588 | Gloria D | Drinking water and wastewater operator certification programs. | 6/25/2019-Read second time and amended. Re-referred to Com. on V.A. | Current law requires the State Water Resources Control Board to issue a water treatment operator certificate and water distribution operator certificate by reciprocity to any person holding a valid, unexpired, comparable certification issued by another state, the United States, prescribed territories or tribal governments, or a unit of any of these. Current law requires the board to classify types of wastewater treatment plants for the purpose of determining the levels of competence necessary to operate them. This bill would require the board to evaluate opportunities to | Watch | B. Watch | |

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| | | | | issue a water treatment operator certificate or water distribution operator certificate by reciprocity, or a wastewater certificate by examination waiver, to persons who performed duties comparable to those duties while serving in the United States military, as specified. | | | |
| SB 1 | Atkins D | California Environmental, Public Health, and Workers Defense Act of 2019. | 7/8/2019-From committee: Do pass and re-refer to Appropriations. | Current state law regulates the discharge of air pollutants into the atmosphere. The Porter-Cologne Water Quality Control Act regulates the discharge of pollutants into the waters of the state. The California Safe Drinking Water Act establishes standards for drinking water and regulates drinking water systems. The California Endangered Species Act requires the Fish and Game Commission to establish a list of endangered species and a list of threatened species, and generally prohibits the taking of those species. This bill would require specified agencies to take prescribed actions regarding certain federal requirements and standards pertaining to air, water, and protected species, as specified. | Watch | B. Watch | |
| SB 19 | Dodd D | Water resources: stream gages. | 7/3/2019-July 3 set for first hearing. Placed on APPR. suspense file. | Would require the Department of Water Resources and the State Water Resources Control Board, upon an appropriation of funds by the Legislature, to develop a plan to deploy a network of stream gages that includes a determination of funding needs and opportunities for modernizing and reactivating existing gages and deploying new gages, as specified. The bill would require the department and the board, in consultation with the Department of Fish and Wildlife, the Department of Conservation, the Central Valley Flood Protection Board, interested stakeholders, and, to the extent they wish to consult, local agencies, to develop the plan to address significant gaps in information necessary for water management and the conservation of freshwater species. | Out for Analysis | B. Watch | |
| SB 45 | Allen D | Wildfire, Drought, and Flood Protection Bond Act of 2020. | 5/1/2019-May 6 set for first hearing canceled at the request of author. | Would enact the Wildfire, Drought, and Flood Protection Bond Act of 2020, which, if approved by the voters, would authorize the issuance of bonds in the amount of \$4,300,000,000 | Out for Analysis | B. Watch | Not moving. |

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| | | | | <p>pursuant to the State General Obligation Bond Law to finance projects to restore fire damaged areas, reduce wildfire risk, create healthy forest and watersheds, reduce climate impacts on urban areas and vulnerable populations, protect water supply and water quality, protect rivers, lakes, and streams, reduce flood risk, protect fish and wildlife from climate impacts, improve climate resilience of agricultural lands, and protect coastal lands and resources.</p> | | | |
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Total Measures: 26

Total Tracking Forms: 26

ETWD Public Education and Outreach Report August 22, 2019

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 two water waste complaints for the month of July for excessive runoff.

Messaging/Materials

The August/September bill message: "September is National Preparedness Month! Please visit www.ready.gov for more information on how you can plan ahead for disasters. In an emergency, ETWD will utilize Alert OC, a mass notification system to notify customers. Please sign up for Alert OC today at www.alertoc.org."

Laguna Woods Village Television Channel 6

Director Mike Gaskins will present on LWV TV-6 August 30, 2019.

Calscape Nursery Pilot Program Update

Staff has been working with the Calscape Nursery Pilot Committee including Metropolitan Water District, California Native Plant Society, WaterNow Alliance, Tree of Life Nursery, MNWD, City of Huntington Beach, IRWD, LBCWD, City of Long Beach, Mesa Water, MWDOC, City of Newport Beach, City of San Clement, City of San Juan Capistrano, City of Santa Ana and SMWD to develop the pilot program over the last few months. The program's goal is to increase awareness and sales of California Native Plants through education at both the nursery and customer levels. The program is estimated to begin in October 2019. The program flyer follows this report.

Maven's Notebook

Maven's Notebook is a valuable online resource dedicated to California water topics. The daily publication by Chris Austin (The Maven) offers unbiased reporting on California water supply and demand, legislation and policy, infrastructure, storage and more. Since 2012, Maven's Notebook has covered important and timely matters that include the WaterFix, the Oroville Dam Spillway, and State Water Resources Control Board issues and other water topics.

Maven's Notebook also provides original coverage of meetings and conferences, and supplies other informational items gathered from reliable sources on the web. These sources include newspaper articles, editorials, commentaries, blogs, press releases, legal analyses, reports and scientific research.

Currently, there is no charge to use the Maven's webpage at www.mavensnotebook.com or to sign up for her free daily emails or weekly emails. To sign up, scroll half way down the website home page and enter your email address on the right. Access to the California Water Library – A Project of Maven's Notebook can be found at www.cawaterlibrary.net/.

Maven's Notebook free benefits include:

- Breaking news alerts
- Information and complete reports on major planning and regulatory efforts
- Updates on state and federal agency activities
- Verbatim quotes from authorities involved in water debate
- Monthly calendars providing comprehensive information on water related conferences, legislative hearings, workshops, and seminars held throughout California

Maven's Notebook relies on public support to fund its reporting. Currently, Metropolitan Water District of Southern California is a Platinum Sponsor, Laguna Beach County Water District is a Silver Sponsor, and Association of California Water Agencies, Mesa Water District, Santa Margarita Water District and the Santa Ana Watershed Project Authority are Bronze Sponsors. At the recent MWDOC PAL meeting, the committee voted to sponsor the Maven's Notebook at the \$2,500 gold level. Sponsorships levels are divided by Bronze \$1,000 - \$2,499, Silver \$2500 - \$4,999, Gold \$5,000 - \$7,499 and Platinum \$7,499 – \$10,000. With a sponsorship, agencies will have they name or logo listed on the website and linked back to the homepage.

Community Outreach Events

Saturday, July 27, 2019

ETWD staff Steve Wingen, Dominic Bergin and Garth Botha hosted a booth and the drinking water trailer at the City of Laguna Woods Dog Park Grand Opening on July 27, 2019. Director Monin also attended the event. April with the City of Laguna Woods thanked the District for participating and helping make the event a success.



Community Event Schedule:

September 28, 2019 – UC ANR Urban Living Education Expo at the UC ANR South Coast Research and Extension Center in Irvine from 9:00 a.m. to 2:00 p.m. Event promotes better gardening practices to reduce landscape water use and improve the water quality within our local watersheds.

Submitted by: Sherri Seitz 8/15/19

Calscape Nursery Program

A new program promoting California native plants

Increase your plant sales and address the growing demand for California native plants by participating in the Calscape Nursery Program. This program is a collaboration between the California Native Plant Society, the WaterNow Alliance, local cities, water agencies, growers, and retail nurseries to increase the availability of regionally appropriate species and overall success with natives.

Free Benefits of the Calscape Nursery Program

- ✓ Free online nursery staff training on California native plants and CCNPro CEU credit
- ✓ Free point of sale materials for California natives
- ✓ Free marketing for participating nurseries to more than 2.4 million people in 27 cities
- ✓ Free customer resources for those interested in turf replacement and landscape rebates
- ✓ Increased sales of California native plants

To learn how your nursery can participate, contact your local water agency or Kristen Wernick at kwernick@cnpss.org, 916-738-7617



CALIFORNIA NATIVE PLANT SOCIETY
Calscape
Restore Nature One Garden at a Time

Visit Calscape.org to find plants native to your location and nearby nurseries!



**EL TORO WATER DISTRICT
CONSERVATION PROGRAM
Monthly
Status Report
August 22, 2019**

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 | | \$75 | \$155 |
| Turf Removal Program (up to 5,000 sq ft)* Effective 2-13-19 | | \$3 | | \$3 sq. ft. |
| Soil Moisture Sensor System <1 Acre >1 Acre | \$80 \$35/station | | \$75 | \$155 \$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.

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)* | | \$3 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 | | | \$35/station |

*Designated recycled water sites are not eligible for turf removal 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 July 2019 year-to-date sales, residential accounted for 63% of the overall Tier 3 usage and dedicated irrigation accounted for 56% 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 2018/19 consumption and ET factor to the fiscal 2017/18 consumption and ET factor. [The ET factor decreased 4% from July 2018 when compared to July 2019. There was a 13% decrease in consumption reflected in July 2019.](#)

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

The current MWDOC and ETWD's Program Savings Reports follow this report. MWDOC's report show all their client agencies current participation levels in water use efficiency programs and savings calculations. ETWD's report show current District customer participation in water use efficiency programs along with savings provided in acre/feet per year, million gallons per year and avoided water costs based on those calculations.

**By: Sherri Seitz
Date: August 14, 2019**

**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 | 43.7 | 14.2 | \$41,126 |
| High Efficiency Clothes Washers--Residential | 2001 | 18 | 22.2 | 7.2 | \$20,892 |
| *SoCal Water Smart Commercial Plumbing Fixtures Rebate Program (ULFT's, HET's, Urinals, HECW, Cooling Tower Conductivity Controllers) | 2002 | 17 | 44.1 | 14.4 | \$41,503 |
| 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 | | | 914.0 | 297.9 | \$860,139 |

* 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 297.9 million gallons of water per year.

Orange County

Water Use Efficiency Programs Savings and Implementation Report

Retrofits and Acre-Foot 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 | June-19 | 227 | 0.65 | 2,753 | 52.56 | 119,298 | 4,116 | 30,462 |
| Smart Timer Program - Irrigation Timers | 2004 | June-19 | 290 | 4.37 | 2,456 | 320.46 | 25,180 | 8,488 | 55,228 |
| Rotating Nozzles Rebate Program | 2007 | June-19 | 62 | 0.25 | 3,163 | 12.65 | 567,470 | 2,776 | 21,101 |
| Commercial Plumbing Fixture Rebate Program | 2002 | June-19 | 99 | 0.34 | 11,179 | 197.09 | 104,952 | 5,295 | 49,655 |
| Industrial Process/Water Savings Incentive Program (WSIP) | 2006 | June-19 | 0 | 0.00 | 3 | 145.72 | 34 | 914 | 3,831 |
| Turf Removal Program ^[3] | 2010 | July-19 | 11,286 | 0.13 | 11,286 | 8.86 | 22,404,339 | 3,137 | 16,455 |
| High Efficiency Toilet (HET) Program | 2005 | June-19 | 26 | 0.09 | 274 | 11.65 | 60,377 | 2,232 | 19,284 |
| 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 | | | 6 | 31,114 | 749 | 24,626,474 | 52,960 | 452,522 | |

(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 | 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 | 56 | 54 | 1,977 | 1.08 | 504.50 | 1,023 |
| Buena Park | 105 | 106 | 91 | 76 | 54 | 50 | 46 | 1,614 | 0.77 | 398.37 | 835 |
| East Orange CWD RZ | 10 | 8 | 8 | 8 | 3 | 1 | 6 | 199 | 0.10 | 53.92 | 103 |
| El Toro WD | 134 | 121 | 111 | 65 | 47 | 50 | 40 | 1,611 | 0.74 | 399.83 | 834 |
| Fountain Valley | 115 | 102 | 110 | 76 | 65 | 49 | 39 | 2,488 | 0.71 | 665.68 | 1,287 |
| Garden Grove | 190 | 162 | 165 | 251 | 127 | 87 | 71 | 3,721 | 1.36 | 949.60 | 1,925 |
| Golden State WC | 265 | 283 | 359 | 260 | 138 | 156 | 93 | 5,264 | 1.92 | 1,345.81 | 2,724 |
| Huntington Beach | 334 | 295 | 319 | 225 | 180 | 141 | 93 | 8,480 | 1.78 | 2,313.64 | 4,388 |
| Irvine Ranch WD | 1,763 | 1,664 | 1,882 | 1,521 | 1,373 | 1,203 | 889 | 26,758 | 17.15 | 6,434.07 | 13,845 |
| La Habra | 82 | 114 | 87 | 66 | 53 | 48 | 49 | 1,424 | 0.89 | 349.01 | 737 |
| La Palma | 34 | 25 | 34 | 29 | 10 | 14 | 7 | 479 | 0.15 | 120.52 | 248 |
| Laguna Beach CWD | 38 | 37 | 39 | 32 | 19 | 20 | 18 | 970 | 0.37 | 254.06 | 502 |
| Mesa Water | 114 | 86 | 89 | 113 | 80 | 54 | 42 | 2,614 | 0.82 | 709.08 | 1,353 |
| Moulton Niguel WD | 442 | 421 | 790 | 688 | 575 | 527 | 357 | 10,805 | 6.90 | 2,562.67 | 5,591 |
| Newport Beach | 116 | 92 | 95 | 66 | 61 | 51 | 41 | 2,716 | 0.90 | 750.88 | 1,405 |
| Orange | 218 | 163 | 160 | 124 | 80 | 74 | 56 | 4,028 | 1.16 | 1,102.59 | 2,084 |
| San Juan Capistrano | 76 | 73 | 92 | 63 | 33 | 33 | 23 | 1,515 | 0.39 | 392.78 | 784 |
| San Clemente | 140 | 94 | 141 | 75 | 70 | 85 | 64 | 2,769 | 1.29 | 711.85 | 1,433 |
| Santa Margarita WD | 553 | 662 | 792 | 466 | 367 | 274 | 214 | 10,004 | 4.24 | 2,480.90 | 5,176 |
| Seal Beach | 31 | 29 | 38 | 23 | 9 | 17 | 8 | 627 | 0.15 | 163.20 | 324 |
| Serrano WD | 13 | 10 | 26 | 8 | 11 | 8 | 2 | 367 | 0.02 | 100.12 | 190 |
| South Coast WD | 89 | 79 | 68 | 43 | 44 | 36 | 29 | 1,649 | 0.55 | 424.46 | 853 |
| Trabuco Canyon WD | 30 | 45 | 47 | 34 | 28 | 22 | 13 | 833 | 0.15 | 212.34 | 431 |
| Tustin | 78 | 59 | 80 | 66 | 44 | 49 | 34 | 1,695 | 0.63 | 448.83 | 877 |
| Westminster | 121 | 82 | 109 | 149 | 84 | 65 | 46 | 2,697 | 0.81 | 697.36 | 1,396 |
| Yorba Linda | 181 | 167 | 156 | 123 | 56 | 67 | 43 | 3,862 | 0.84 | 1,057.02 | 1,998 |
| MWDOC Totals | 5,365 | 5,094 | 6,002 | 4,726 | 3,668 | 3,237 | 2,377 | 101,178 | 45.86 | 25,607.17 | 19,547 |
| Anaheim | 331 | 285 | 295 | 266 | 213 | 173 | 135 | 10,990 | 2.39 | 3,042.09 | 5,687 |
| Fullerton | 200 | 186 | 211 | 165 | 107 | 99 | 113 | 3,907 | 2.32 | 1,002.33 | 2,022 |
| Santa Ana | 163 | 131 | 132 | 259 | 141 | 124 | 128 | 3,223 | 1.99 | 810.60 | 1,668 |
| Non-MWDOC Totals | 694 | 602 | 638 | 690 | 461 | 396 | 376 | 18,120 | 6.70 | 4,855.01 | 3,501 |
| Orange County Totals | 6,059 | 5,696 | 6,640 | 5,416 | 4,129 | 3,633 | 2,753 | 119,298 | 52.56 | 30,462.18 | 23,048 |

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 | | 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 | 9 | 8 | 4 | 0 | 43 | 6 | 20 | 4 | 31 | 4 | 32 | 0 | 33 | 0 | 196 | 80 | 585.35 |
| Buena Park | 3 | 0 | 0 | 0 | 4 | 10 | 7 | 4 | 10 | 7 | 15 | 3 | 17 | 7 | 63 | 51 | 186.72 |
| East Orange CWD RZ | 2 | 0 | 0 | 0 | 2 | 0 | 1 | 0 | 11 | 1 | 6 | 0 | 1 | 0 | 32 | 1 | 26.86 |
| El Toro WD | 7 | 2 | 11 | 0 | 8 | 9 | 9 | 17 | 33 | 8 | 29 | 4 | 34 | 0 | 178 | 359 | 2,729.70 |
| Fountain Valley | 3 | 2 | 4 | 0 | 7 | 10 | 13 | 1 | 33 | 12 | 28 | 12 | 36 | 4 | 155 | 56 | 232.40 |
| Garden Grove | 5 | 2 | 9 | 0 | 10 | 14 | 13 | 11 | 28 | 0 | 27 | 2 | 36 | 3 | 164 | 43 | 211.61 |
| Golden State WC | 9 | 49 | 9 | 25 | 39 | 12 | 35 | 16 | 56 | 37 | 88 | 6 | 85 | 15 | 398 | 213 | 980.18 |
| Huntington Beach | 18 | 33 | 20 | 35 | 19 | 2 | 42 | 12 | 88 | 94 | 70 | 30 | 105 | 65 | 447 | 363 | 1,348.19 |
| Irvine Ranch WD | 414 | 135 | 71 | 59 | 67 | 310 | 239 | 207 | 344 | 420 | 416 | 78 | 379 | 105 | 2,564 | 2,469 | 13,162.63 |
| La Habra | 4 | 7 | 2 | 0 | 4 | 7 | 3 | 1 | 12 | 7 | 8 | 0 | 19 | 3 | 63 | 47 | 237.72 |
| La Palma | 1 | 0 | 2 | 0 | 2 | 0 | 3 | 2 | 1 | 0 | 5 | 0 | 7 | 0 | 22 | 2 | 8.38 |
| Laguna Beach CWD | 76 | 2 | 71 | 0 | 86 | 0 | 86 | 1 | 27 | 0 | 11 | 0 | 8 | 0 | 516 | 20 | 272.59 |
| Mesa Water | 10 | 2 | 15 | 2 | 17 | 28 | 36 | 12 | 149 | 41 | 49 | 0 | 34 | 55 | 401 | 209 | 894.01 |
| Moulton Niguel WD | 51 | 74 | 40 | 45 | 46 | 95 | 163 | 100 | 236 | 129 | 284 | 33 | 316 | 64 | 1,514 | 898 | 4,280.63 |
| Newport Beach | 242 | 26 | 168 | 75 | 11 | 9 | 28 | 43 | 30 | 12 | 24 | 0 | 21 | 0 | 1,083 | 409 | 2,941.42 |
| Orange | 20 | 24 | 13 | 9 | 18 | 31 | 51 | 13 | 69 | 10 | 61 | 13 | 93 | 26 | 439 | 204 | 1,095.57 |
| San Juan Capistrano | 14 | 18 | 6 | 11 | 6 | 19 | 20 | 8 | 22 | 8 | 23 | 5 | 20 | 1 | 265 | 131 | 746.29 |
| San Clemente | 26 | 7 | 28 | 2 | 28 | 24 | 26 | 3 | 37 | 13 | 38 | 41 | 36 | 0 | 1,125 | 415 | 3,015.67 |
| Santa Margarita WD | 53 | 171 | 64 | 93 | 53 | 321 | 189 | 136 | 326 | 221 | 273 | 220 | 222 | 37 | 1,649 | 1,629 | 6,936.47 |
| Seal Beach | 1 | 0 | 1 | 36 | 1 | 12 | 2 | 2,446 | 2 | 4 | 5 | 0 | 6 | 31 | 18 | 2,533 | 6,825.34 |
| Serrano WD | 1 | 0 | 0 | 0 | 4 | 0 | 11 | 2 | 4 | 0 | 8 | 0 | 10 | 0 | 56 | 2 | 18.26 |
| South Coast WD | 13 | 16 | 8 | 4 | 104 | 73 | 9 | 11 | 7 | 0 | 15 | 2 | 7 | 7 | 300 | 221 | 1,312.17 |
| Trabuco Canyon WD | 6 | 0 | 2 | 0 | 6 | 1 | 16 | 50 | 13 | 3 | 20 | 0 | 33 | 0 | 156 | 157 | 1,063.63 |
| Tustin | 8 | 4 | 9 | 1 | 18 | 14 | 33 | 8 | 33 | 23 | 27 | 1 | 37 | 0 | 207 | 81 | 404.72 |
| Westminster | 1 | 1 | 2 | 0 | 13 | 17 | 7 | 1 | 17 | 12 | 22 | 0 | 24 | 0 | 111 | 44 | 232.49 |
| Yorba Linda | 20 | 0 | 12 | 5 | 32 | 2 | 61 | 27 | 72 | 71 | 68 | 10 | 74 | 4 | 480 | 197 | 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 | 12,602 | 10,834 | 50,739.42 |

| | | | | | | | | | | | | | | | | | |
|-------------------------|-----------|-----------|-----------|-----------|-----------|------------|-----------|-----------|------------|-----------|------------|----------|------------|-----------|------------|------------|-----------------|
| Anaheim | 19 | 10 | 9 | 26 | 7 | 52 | 30 | 34 | 87 | 10 | 66 | 0 | 142 | 73 | 452 | 530 | 2,981.41 |
| Fullerton | 9 | 29 | 8 | 0 | 40 | 26 | 32 | 12 | 53 | 7 | 45 | 0 | 77 | 0 | 321 | 199 | 1,083.63 |
| Santa Ana | 8 | 19 | 7 | 8 | 9 | 27 | 22 | 26 | 15 | 3 | 16 | 0 | 24 | 20 | 122 | 120 | 423.47 |
| Non-MWDOC Totals | 36 | 58 | 24 | 34 | 56 | 105 | 84 | 72 | 155 | 20 | 127 | 0 | 243 | 93 | 895 | 849 | 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 | 13,497 | 11,683 | 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 | | | Total Program | | | Cumulative Water Savings across all Fiscal Years |
|-----------------------------|---------------|---------------|----------|---------------|---------------|----------|---------------|---------------|----------|--------------|---------------|----------|--------------|-------------|----------|--------------|--------------|----------|----------------|----------------|---------------|--|
| | 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. | |
| Brea | 84 | 0 | 0 | 157 | 45 | 0 | 74 | 2,484 | 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 | 509 | 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 | 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 | 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 | 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 | 985 | 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 | 3,644 | 11,080 | 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 | 3,760 | 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 | 47,565 | 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 | 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 | 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 | 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 | 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 | 0 | 13,480 | 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 | 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 | 3,200 | 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 | 5,594 | 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 | 10,135 | 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 | 16,419 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 196,237 | 280,103 | 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 | 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 | 3,050 | 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 | 859 | 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 | 7,929 | 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 | 204,166 | 346,963 | 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 | Totals | Cumulative Water Savings across all Fiscal Years |
|-----------------------------|--------------|--------------|--------------|---------------|---------------|--------------|---------------|----------------|--|
| Brea | 234 | 0 | 10 | 91 | 734 | 242 | 0 | 1,607 | 586 |
| Buena Park | 5 | 23 | 56 | 591 | 133 | 49 | 0 | 2,538 | 1,363 |
| East Orange CWD RZ | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| El Toro WD | 0 | 212 | 6 | 268 | 35 | 737 | 717 | 2,516 | 750 |
| Fountain Valley | 0 | 0 | 1 | 249 | 0 | 895 | 0 | 1,767 | 755 |
| Garden Grove | 4 | 1 | 167 | 676 | 410 | 0 | 354 | 2,805 | 1,812 |
| Golden State WC | 0 | 1 | 0 | 1,008 | 53 | 93 | 86 | 3,044 | 2,281 |
| Huntington Beach | 104 | 144 | 7 | 783 | 641 | 10 | 208 | 3,172 | 1,946 |
| Irvine Ranch WD | 1,090 | 451 | 725 | 11,100 | 5,958 | 1,599 | 1,000 | 30,465 | 9,816 |
| La Habra | 0 | 0 | 0 | 340 | 42 | 0 | 0 | 925 | 664 |
| La Palma | 0 | 0 | 0 | 0 | 509 | 0 | 0 | 675 | 159 |
| Laguna Beach CWD | 0 | 27 | 0 | 0 | 0 | 0 | 0 | 446 | 373 |
| Mesa Water | 6 | 0 | 79 | 661 | 782 | 0 | 110 | 4,364 | 2,549 |
| Moulton Niguel WD | 0 | 0 | 3 | 413 | 281 | 506 | 4,392 | 6,175 | 1,194 |
| Newport Beach | 0 | 0 | 566 | 0 | 0 | 0 | 1,596 | 3,430 | 1,609 |
| Orange | 1 | 271 | 81 | 275 | 2,851 | 458 | 532 | 6,020 | 2,284 |
| San Juan Capistrano | 0 | 14 | 0 | 0 | 0 | 0 | 0 | 260 | 457 |
| San Clemente | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 432 | 444 |
| Santa Margarita WD | 0 | 0 | 2 | 90 | 743 | 598 | 699 | 2,247 | 376 |
| Seal Beach | 0 | 0 | 0 | 0 | 184 | 278 | 0 | 816 | 519 |
| Serrano WD | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| South Coast WD | 148 | 0 | 382 | 0 | 0 | 0 | 0 | 1,320 | 646 |
| Trabuco Canyon WD | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 | 18 |
| Tustin | 0 | 0 | 75 | 358 | 212 | 2 | 408 | 1,812 | 1,020 |
| Westminster | 1 | 28 | 0 | 146 | 177 | 25 | 0 | 1,163 | 1,191 |
| Yorba Linda | 1 | 0 | 0 | 226 | 84 | 338 | 0 | 933 | 684 |
| MWDOC Totals | 1,594 | 1,172 | 2,161 | 17,275 | 13,829 | 5,830 | 10,102 | 78,943 | 33,495 |
| Anaheim | 165 | 342 | 463 | 3,072 | 309 | 1,808 | 686 | 16,247 | 8,494 |
| Fullerton | 94 | 0 | 178 | 476 | 621 | 274 | 384 | 3,436 | 2,029 |
| Santa Ana | 16 | 17 | 5 | 1,293 | 238 | 582 | 7 | 6,326 | 5,638 |
| Non-MWDOC Totals | 275 | 359 | 646 | 4,841 | 1,168 | 2,664 | 1,077 | 26,009 | 16,161 |
| Orange County Totals | 1,869 | 1,531 | 2,807 | 22,116 | 14,997 | 8,494 | 11,179 | 104,952 | 49,656 |

[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] |
|---------------------|----------|----------|----------|----------|-----------|----------|----------|----------|----------|-------------------------------|-------------------------|
| Brea | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Buena Park | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 2 | 54 |
| East Orange | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| El Toro | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 9 |
| Fountain Valley | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 23 |
| Garden Grove | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 |
| Golden State | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 3 |
| Huntington Beach | 0 | 2 | 0 | 1 | 2 | 0 | 1 | 0 | 0 | 6 | 180 |
| Irvine Ranch | 1 | 1 | 1 | 0 | 2 | 1 | 1 | 0 | 0 | 10 | 119 |
| La Habra | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 |
| La Palma | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Laguna Beach | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mesa Water | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Moulton Niguel | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Newport Beach | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 21 |
| Orange | 0 | 0 | 0 | 0 | 1 | 2 | 1 | 0 | 0 | 5 | 97 |
| San Juan Capistrano | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| San Clemente | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Santa Margarita | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Seal Beach | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Serrano | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| South Coast | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 2 | 134 |
| Trabuco Canyon | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Tustin | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Westminster | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 117 |
| Yorba Linda | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 20 |
| MWDOC Totals | 1 | 3 | 1 | 2 | 9 | 5 | 3 | 3 | 0 | 33 | 779 |
| Anaheim | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fullerton | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Santa Ana | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 135 |
| OC Totals | 1 | 3 | 1 | 2 | 10 | 5 | 3 | 3 | 0 | 34 | 914 |

[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 | | Total Program | | Cumulative Water Savings across all Fiscal Years |
|---------------------|----------------|----------------|------------------|------------------|------------------|------------------|----------------|----------------|----------------|----------------|----------------|----------------|------------------|-------------------|--|
| | 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 | 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 | 98,354 | 18,116 | 80.42 |
| East Orange | 1,964 | 0 | 18,312 | 0 | 27,844 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 68,212 | 90,019 | 121.15 |
| La Palma | 0 | 0 | 4,884 | 0 | 10,257 | 59,760 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 9,679,083 | 12,704,756 | 16,445.98 |

| | | | | | | | | | | | | | | | |
|-------------------------|----------|--------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|--------------|-------------|
| Anaheim | 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 | 9,214 | 9.03 |
| Santa Ana | 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 | 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 | 9,679,083 | 12,713,970 | 16,455 |
|-----------------------------|----------------|----------------|------------------|------------------|------------------|------------------|----------------|----------------|----------------|----------------|----------------|----------------|------------------|-------------------|---------------|

[1] Installed device numbers are listed as square feet

HIGH EFFICIENCY TOILETS (HETs) INSTALLED BY AGENCY

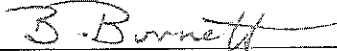
through MWDOC and Local Agency Conservation Programs

| Agency | FY 12-13 | FY 13-14 | FY 14-15 | FY 15-16 | FY 16-17 | FY 17-18 | FY 18-19 | Total | Cumulative Water Savings across all Fiscal Years |
|---------------------|--------------|--------------|---------------|---------------|------------|------------|------------|---------------|--|
| Brea | 0 | 38 | 146 | 154 | 4 | 6 | 1 | 457 | 116.36 |
| Buena Park | 0 | 96 | 153 | 112 | 13 | 3 | 0 | 687 | 215.26 |
| East Orange CWD RZ | 0 | 13 | 26 | 24 | 0 | 0 | 0 | 86 | 24.09 |
| El Toro WD | 133 | 218 | 869 | 264 | 12 | 6 | 10 | 2,053 | 611.87 |
| Fountain Valley | 0 | 41 | 132 | 220 | 7 | 9 | 1 | 833 | 278.76 |
| Garden Grove | 0 | 63 | 350 | 363 | 7 | 4 | 5 | 1,493 | 475.09 |
| Golden State WC | 2 | 142 | 794 | 512 | 9 | 11 | 5 | 2,806 | 877.70 |
| Huntington Beach | 0 | 163 | 1,190 | 628 | 4 | 3 | 4 | 2,908 | 822.16 |
| Irvine Ranch WD | 1,449 | 810 | 1,777 | 2,798 | 638 | 239 | 162 | 17,310 | 6,030.62 |
| Laguna Beach CWD | 0 | 45 | 112 | 81 | 1 | 4 | 0 | 392 | 118.10 |
| La Habra | 0 | 37 | 94 | 83 | 5 | 1 | 0 | 591 | 215.86 |
| La Palma | 0 | 21 | 59 | 52 | 4 | 2 | 4 | 228 | 66.18 |
| Mesa Water | 0 | 147 | 162 | 162 | 7 | 3 | 3 | 1,624 | 650.22 |
| Moulton Niguel WD | 0 | 400 | 2,497 | 1,939 | 49 | 40 | 21 | 5,751 | 1,345.21 |
| Newport Beach | 0 | 49 | 168 | 243 | 11 | 6 | 0 | 731 | 208.28 |
| Orange | 1 | 142 | 978 | 416 | 17 | 10 | 5 | 2,194 | 609.02 |
| San Juan Capistrano | 0 | 35 | 140 | 202 | 3 | 9 | 4 | 536 | 139.93 |
| San Clemente | 0 | 72 | 225 | 246 | 11 | 6 | 10 | 888 | 256.29 |
| Santa Margarita WD | 0 | 528 | 997 | 1,152 | 114 | 34 | 11 | 3,354 | 794.36 |
| Seal Beach | 2 | 17 | 50 | 69 | -1 | 0 | 0 | 857 | 421.72 |
| Serrano WD | 0 | 2 | 40 | 55 | 3 | 0 | 3 | 124 | 28.81 |
| South Coast WD | 64 | 102 | 398 | 235 | 11 | 7 | 0 | 1,028 | 266.55 |
| Trabuco Canyon WD | 0 | 10 | 108 | 169 | 2 | 3 | 2 | 344 | 77.50 |
| Tustin | 0 | 64 | 132 | 201 | 12 | 10 | 4 | 1,520 | 589.95 |
| Westminster | 0 | 35 | 161 | 359 | 3 | 4 | 0 | 1,335 | 460.36 |
| Yorba Linda WD | 0 | 40 | 280 | 379 | 12 | 8 | 2 | 1,261 | 388.78 |
| MWDOC Totals | 1,651 | 3,330 | 12,038 | 11,118 | 958 | 428 | 257 | 51,391 | 16,089.03 |

| | | | | | | | | | |
|-------------------------|----------|------------|--------------|--------------|------------|-----------|-----------|--------------|-----------------|
| Anaheim | 0 | 156 | 1,188 | 614 | 70 | 19 | 5 | 5,889 | 2,193.20 |
| Fullerton | 0 | 61 | 293 | 286 | 14 | 9 | 8 | 1,072 | 314.26 |
| Santa Ana | 0 | 33 | 602 | 293 | 20 | 0 | 4 | 2,025 | 687.71 |
| Non-MWDOC Totals | 0 | 250 | 2,083 | 1,193 | 104 | 28 | 17 | 8,986 | 3,195.16 |

| | | | | | | | | | |
|-----------------------------|--------------|--------------|---------------|---------------|--------------|------------|------------|---------------|------------------|
| Orange County Totals | 1,651 | 3,580 | 14,121 | 12,311 | 1,062 | 456 | 274 | 60,377 | 19,284.19 |
|-----------------------------|--------------|--------------|---------------|---------------|--------------|------------|------------|---------------|------------------|

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

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

August 8, 2019
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 SECRETARY'S OFFICE AT 949-234-5421 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 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

A. 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(s)

- 1) Board of Directors Meeting June 6, 2019..... 1
- 2) Board of Directors Meeting June 20, 2019..... 10

ACTION The Board will be requested to approve subject Minutes.

AGENDA
South Orange County Wastewater Authority
Board of Directors Meeting
August 8, 2019

B. Financial Matters

- 1) Monthly Financials Report for June 2019 19
 - a) Summary of Disbursements for June 2019 (Exhibit A)..... 20
 - b) Schedule of Funds Available for Reinvestment (Exhibit B) 21
 - Local Agency Investment Fund (LAIF) 22
 - c) Schedule of Cash and Investments (Exhibit C) 23

ACTION Finance Committee recommends to the Board of Directors to ratify the June 2019 disbursements for the period from June 1, 2019, through June 30, 2019, totaling \$6,065,041 and to receive and file the June 2019 Financial Reports as submitted.

C. Operational Reports – May 2019

- 1) Monthly Operations Report – May 2019 24
- 2) Ocean Outfall Discharges 34
- 3) Beach/Ocean Monitoring Report..... 36
- 4) Recycled Water Report..... 57

ACTION The Board will be requested to receive and file the *May 2019 Operations Report*.

D. Operational Reports – June 2019

- 1) Monthly Operations Report – June 2019 61
- 2) Ocean Outfall Discharges 72
- 3) Reports on Key Operational Expenses 74
- 4) Beach/Ocean Monitoring Report..... 82
- 5) Recycled Water Report..... 103
- 6) Pretreatment Report – May, June, July 2019 107

ACTION The Board will be requested to receive and file the *June 2019 Operations Report*.

E. Capital Improvement Program

- 1) Status Report(s) 111

ACTION The Board will be requested to receive and file subject reports.

F. Project Committee No. 2

- 1) Change Order – SS Mechanical Construction Contract [PC2] 124

ACTION The Engineering Committee recommends that the Project Committee No. 2 Board of Directors approve Change

AGENDA

South Orange County Wastewater Authority
Board of Directors Meeting
August 8, 2019

Orders 1, 2 and 3. to the construction contract with SS Mechanical Construction for the J. B. Latham Treatment Plant, Plant 1 Grit Basin Rehabilitation Project.

G. Project Committee No. 15

- 1) Change Order – Hazen and Sawyer Engineers [PC15] 127

ACTION The Engineering Committee recommends that the Project Committee No. 15 Board of Directors approve Change Orders 12, 13, 14 and 19, 20, 22, to the design services contract with Hazen and Sawyer for the Coastal Treatment Plant Facility Improvements Project.

H. Minutes of the Engineering Committee

- 1) Engineering Committee Meeting June 13, 2019 130

ACTION The Board will be requested to approve subject Minutes.

5. ENGINEERING MATTERS

A. Project Committee No. 17

- 1) RTP Miscellaneous Improvements 2018 – Engineering Services During Construction [PC 17]..... 134

ACTION The Project Committee No. 17 Board will be requested to approve the award of engineering services during construction contract to Lee and Ro at a fee not to exceed \$123,310.

B. Project Committee No. 15 and 21 (Reach E)

- 1) Award of Engineering Services for the Aliso Creek Buried Utility and Roadway Protection Project [PC 15 & 21]..... 146

ACTION The Project Committee No. 15 and 21 Reach, E Board of Directors, will be requested to approve the award of the engineering services contract to Tetra Tech at a fee not to exceed \$123,525.

- 2) Award of Engineering Services for the Aliso Creek Buried Utility and Roadway Protection Project [PC 15 & 21] 178

ACTION The Project Committee No. 15 and 21 Reach, E Board of Directors, will be requested to approve the award of the environmental services contract to Dudek at a fee not to exceed \$195,750.

AGENDA

South Orange County Wastewater Authority
Board of Directors Meeting
August 8, 2019

C. SOCWA 2020 Ten Year Capital Improvement Plan..... 250

ACTION Receive and file SOCWA 2020 Ten Year Capital Improvement Plan.

6. GENERAL MANAGER'S REPORTS

A. Resolution No. 2019-03, Commendation for Mike Harper 257

ACTION Staff recommends the Board approve Resolution No. 2019-03 and authorize Chairman Ferons to sign the Commendation for Mr. Harper on behalf of the Board of Directors of the South Orange County Wastewater Authority.

B. Annual Financial Statements Audit FY 2018-19 Progress Update 259

ACTION Information item.

C. Request to Extend the PUN Group, Financial Audit Firm, Contract 279

ACTION Staff recommends to the Board of Directors to approve an extension of The PUN Group contract adding two (2) additional years.

D. Resolution No. 2019-04, A Resolution of SOCWA Approving and Adopting of the Orange County Regional Water and Wastewater Multi-Hazard Mitigation Plan for 2018 280

ACTION Staff recommends the Board of Directors adopt by Resolution (attached) the 2018 Orange County Regional Water and Wastewater Multi-Hazard Mitigation Plan.

E. Revised SOCWA Policy Establishing Guidelines for Travel and Expense Reimbursement; Request to Approve Director Reimbursement of Travel to Fairfield Suisun District..... 288

ACTION Staff recommends, 1) Discussion and Comment; 2) Approval of the August 2019 revision to the SOCWA Policy Establishing Guidelines for Travel and Expense Reimbursement; 3) Rescind prior Policy, SOCWA Resolution No. 2011-04, SOCWA Policy Establishing Guidelines for Travel and Expense Reimbursement; 4) Ratify the reimbursement for Director Erdman in the amount of \$790.

F. General Manager's Status Report 296

ACTION Information item.

G. Monthly Progress Report on State Audit Recommendations 300

ACTION Information item.

AGENDA
South Orange County Wastewater Authority
Board of Directors Meeting
August 8, 2019

OTHER MATTERS

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

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.]

ADJOURNMENT

THE NEXT SOCWA BOARD MEETING
SEPTEMBER 5, 2019

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

August 15, 2019

8:30 a.m.

NOTICE IS HEREBY GIVEN that a Special Meeting of the South Orange County Wastewater Authority (SOCWA) Engineering Committee has been scheduled to be held on **August 8, 2019 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 (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 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 DISCLOSABLE 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.

NOTICE OF ENGINEERING COMMITTEE

August 15, 2019

Page 2 of 2

3. **Review/Approval of Meeting Minutes (July '19)**
4. **Operations Report**
5. **Consideration of Kingsman Construction to SOCWA's Select List of General Contractor**
6. **Use Audit Flow and Solids Methodology - Annual Update**
7. **Draft Ten Year Plan Review (Project Committees 2, 5, 15, 17, 21 and 24)**
8. **Coastal Treatment Plant AWT Upgrade Project Status Report (Project Committee 15)**
9. **Coastal Treatment Plant Aeration System Upgrade Review (Project Committee 15)**
10. **J. B. Latham Treatment Plant, Plant 1 Grit Basin Rehabilitation Project Status Report Update (Project Committee 2)**
11. **J. B. Latham Treatment Plant Blower Building (Plant 1) Condition Assessment Proposal Review (Project Committee 2)**
12. **J. B. Latham Treatment Plant Centrate System Final Design Proposal Review (Project Committee 2)**

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 Special 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 at the usual agenda posting location of the South Orange County Wastewater Authority and at www.socwa.com.

Dated this 8th day of August 2019.



Betty C. 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

August 5, 2019, 8:30 a.m.

Conference Room 101

P&O Committee:

Director Yoo Schneider, Chair
Director Tamaribuchi
Director Dick

Staff: R. Hunter, K. Seckel, J. Berg,
H. De La Torre, K. Davanaugh,
K. Hubbard

Ex Officio Member: Director Barbre

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>.

PRESENTATION ITEM

1. PRESENTATION ON PUBLIC SAFETY POWER SHUT OFF (PSPS)
(Approximate Presentation Time: 10 minutes)

ACTION ITEMS

2. AMENDMENT NO. 8 TO THE SANTIAGO AQUEDUCT COMMISSION (SAC)
JOINT POWERS AGREEMENT (JPA)
3. ADOPTION OF THE ORANGE COUNTY REGIONAL WATER AND WASTEWATER
MULTI-HAZARD MITIGATION PLAN FOR 2019
4. APPROVE \$5,000 INCREASE TO ROSENBERG + ASSOCIATES SOLE SOURCE
CONTRACT

DISCUSSION ITEM

- 5. POTENTIAL MWDOC AND MWDOC MEMBER AGENCY ACTIONS WITH RESPECT TO SMALL CHRONICALLY NON-COMPLIANT WATER SYSTEMS IN THE STATE

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.)

- 6. PROPOSED 2020 DIEMER WTP SHUTDOWN
- 7. STATUS REPORTS
 - a. Ongoing MWDOC Reliability and Engineering/Planning Projects
 - b. WEROC
 - c. Water Use Efficiency Projects
- 8. 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

CLOSED SESSION

- 9. CONFERENCE WITH LEGAL COUNSEL - ANTICIPATED LITIGATION. Significant exposure to litigation pursuant to paragraph (2) of subdivision (d) of Section 54956.9: One case

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
August 7, 2019, 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. 2088)

ACTION ITEM

**1. AUTHORIZE ATTENDANCE AT THE URBAN WATER INSTITUTE CONFERENCE
AUGUST 14-16, 2019 IN SAN DIEGO**

Recommendation: Consider authorizing attendance by an additional Director(s) at the Urban Water Institute Conference to be held August 14-16, 2019 in San Diego.

PRESENTATION/DISCUSSION/INFORMATION ITEMS

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

Recommendation: Receive input and discuss the information.

3. PRESENTATION BY METROPOLITAN STAFF REGARDING REGIONAL RECYCLING WATER PROGRAM

Recommendation: Review and discuss the information presented.

4. DELTA CONVEYANCE PROJECT ACTIVITIES UPDATE

Recommendation: Review and discuss the information presented.

5. 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.

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

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

Recommendation: Review and discuss the information presented.

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
PUBLIC AFFAIRS AND LEGISLATION COMMITTEE
August 12, 2019, 8:30 a.m.
Conference Room 101

Committee:

Director Dick, Chair
Director Thomas
Director McVicker

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

Ex Officio Member: Director Barbre

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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)

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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

ACTION ITEMS

2. TRAVEL TO WASHINGTON, DC TO COVER FEDERAL ADVOCACY ISSUES
3. TRAVEL TO SACRAMENTO TO COVER STATE ADVOCACY ISSUES
4. RECOMMENDATION FOR SPONSORSHIP OF MAVEN'S NOTEBOOK

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.)

5. MWDOC'S HOSTING OF DELTA STEWARDSHIP MEETING ON SEPTEMBER 26, 2019
6. UPDATE REGARDING THE LOCAL AGENCY FORMATION COMMISSION (LAFCO) MUNICIPAL SERVICE REVIEWS
7. SEPTEMBER 5, 2019 WATER POLICY FORUM & DINNER
8. 2019 OC WATER SUMMIT FINANCIAL RECAP
9. INSPECTION TRIP SCHEDULE 2019-2020
10. EDUCATION PROGRAMS UPDATE
11. PUBLIC AFFAIRS ACTIVITIES REPORT

OTHER ITEMS

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

ADJOURNMENT

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

Jointly with the

ADMINISTRATION & FINANCE COMMITTEE

August 14, 2019, 8:30 a.m.

Conference Room 101

A&F Committee:

J. Thomas, Chair

J. Finnegan

R. McVicker

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

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

H. Chumpitazi

Ex Officio Member: Director Barbre

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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)

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PRESENTATION

1. OPEB PRE-FUNDING TRUST PROGRAM AND PENSION RATE STABILIZATION PROGRAM CLIENT REVIEW

PROPOSED BOARD CONSENT CALENDAR ITEMS

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

3. FINANCIAL REPORT
 - a. Draft Combined Financial Statements and Budget Comparative for the Period ending June 30, 2019
 - b. Quarterly Budget Review (deferred to FY 2018-19 Audited Annual Financials)

DISCUSSION ITEMS

4. DISCUSSION RE POLICY RE PRESIDENT CASTING VOTES TO AGENCIES ON BEHALF OF DISTRICT
5. DISCUSSION REGARDING DIRECTOR BARBRE'S REQUEST TO ADD SECTIONS TO ADMINISTRATIVE CODE RE MEMBERSHIPS AND SELF CERTIFICATION OF NO CONFLICT OF INTEREST
6. DISCUSSION REGARDING CALIFORNIA COUNCIL FOR ENVIRONMENTAL AND ECONOMIC BALANCE (CCEEB) MEETING ATTENDANCE
7. DISCUSSION RE COMPLETION OF BUSINESS EXPENSE REPORTS
8. PERSONNEL MANUAL CHANGES

ACTION ITEMS

9. AUTHORIZE THE GENERAL MANAGER TO ENTER INTO METROPOLITAN AGREEMENTS FOR CYCLIC IN-LIEU DELIVERIES
10. ASSOCIATION OF CALIFORNIA WATER AGENCIES (ACWA) COMMITTEE CONSIDERATION FOR 2020/2021
11. ACWA REGION 10 ELECTION
12. VEHICLE PURCHASE FOR WATER LOSS CONTROL STAFF
13. AUTHORIZATION FOR STAFF TO ATTEND PUBLIC RELATIONS SOCIETY OF AMERICA INTERNATIONAL CONFERENCE OCTOBER 20-22, 2019

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.)

14. SEMI-ANNUAL OVERTIME REPORT
15. DIRECTORS ACTIVITIES REPORT
16. DEPARTMENT ACTIVITIES REPORTS
 - a. Administration
 - b. Finance and Information Technology

17. MONTHLY WATER USAGE DATA, TIER 2 PROJECTION, AND WATER SUPPLY INFORMATION

OTHER ITEMS

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

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.

**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, August 14, 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**

Any member of the public may request to speak on any agenda item at the time that item is being considered by the Commission.

- 1. CALL THE MEETING TO ORDER**
- 2. PLEDGE OF ALLEGIANCE – COMMISSIONER ALLAN BERNSTEIN**
- 3. OATH OF OFFICE FOR NEW APPOINTMENTS AND TERMS**
- 4. ROLL CALL**
- 5. ANNOUNCEMENT OF SUPPLEMENTAL COMMUNICATIONS
(Received After Agenda Distribution)**
- 6. APPROVAL OF MINUTES**
 - a.) June 12, 2019 – Regular Commission Meeting**
- 7. PUBLIC COMMENT**

This is an opportunity for members of the public to address the Commission on items not on the agenda, provided that the subject matter is within the jurisdiction of the Commission and that no action may be taken on an off-agenda item(s) unless authorized by law.

8. CONSENT CALENDAR

a.) Legislative Report

The Commission will receive a report on current and newly introduced legislation of LAFCO interest and consider adopting positions on proposed legislation.

b.) FY 2018-19 Final Comprehensive Quarterly Report

The Commission will receive the final comprehensive quarterly report for fiscal year 2018-19.

9. PUBLIC HEARING

None

10. COMMISSION DISCUSSION AND ACTION

a.) OC LAFCO Reserves and Projections

The Commission will receive a report and discuss the OC LAFCO reserves' usage, projections and policy.

b.) Proposed Revisions to OC LAFCO Policies and Procedures

The Commission will consider the proposed revisions, amendments and updates to the OC LAFCO Public Records Act Policy and the Retention and Destruction Policy.

c.) 2019 CALAFCO Update

The Commission will receive a report on the upcoming nomination and election process for the CALAFCO Board of Directors and the potential change in the structure of the Association's membership dues.

11. COMMISSIONER COMMENTS

This is an opportunity for Commissioners to comment on issues not listed on the agenda, provided that the subject matter is within the jurisdiction of the Commission. No discussion or action may occur or be taken, except to place the item on a future agenda if approved by Commission majority.

12. EXECUTIVE OFFICER'S REPORT

Executive Officer's report on upcoming events and activities of the Executive Officer since last meeting.

13. INFORMATIONAL ITEMS & ANNOUNCEMENTS

a.) CALAFCO Annual Conference

The CALAFCO Annual Conference will take place at the Hyatt Regency in Downtown Sacramento, CA, October 30 – November 1, 2019.

b.) Los Alisos Areas 1 and 2 Annexation to Orange County Sanitation District (DA 19-01) – Protest Hearing

The Commission will receive an oral report on the protest hearing for the Los Alisos Areas 1 and 2 Annexation to Orange County Sanitation District that was held on August 6, 2019.

14. CLOSED SESSION

None

15. ADJOURNMENT OF REGULAR COMMISSION MEETING

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>.

AGENDA
SOUTH ORANGE COUNTY WATERSHED MANAGEMENT AREA
EXECUTIVE COMMITTEE



August 8, 2019
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
Elaine Gennawey
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
TBD
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 June 6, 2019 meeting.

ITEM # 4 PROPOSITION 1 IRWM IMPLEMENTATION GRANT PROJECT SELECTION

JENNA VOSS, COUNTY OF ORANGE

Recommended Action: Approve recommended project slate for submittal of a \$2.33 million Proposition 1 Integrated Regional Water Management (IRWM) Implementation Grant Pre-Application Package to the California Department of Water Resources for the four projects recommended for funding consideration from the IRWM Plan.

ITEM # 5 NORTH/CENTRAL ORANGE COUNTY PROPOSITION 1 IRWM IMPLEMENTATION GRANT PROJECT SELECTION

CHRISTY SUPPES, COUNTY OF ORANGE

Recommended Action: Receive and file.

ITEM # 6 REGIONAL PROJECT PLANNING UPDATE: ALISO CREEK WATERSHED

JENNA VOSS & ANDREW MCGUIRE, COUNTY OF ORANGE

Recommended Action: Receive and file.

ITEM # 7 UPDATES ON LEGISLATIVE ACTIVITIES & WATER RESILIENCY PORTFOLIO

JENNA VOSS

Recommended Action: Provide input on the Portfolio development process to staff for further participation in Roundtable discussions with State representatives.

ITEM # 8 EXECUTIVE OFFICER'S REPORT

ITEM # 9 EXECUTIVE COMMITTEE MEMBER COMMENTS

ITEM # 10 ADJOURNMENT

Next meeting date: November 7, 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 JUNE 6, 2019 FOR APPROVAL

Date and Location: June 6, 2019 2:30 – 4:30 p.m.
Laguna Niguel Council Chambers
30111 Crown Valley Parkway
Laguna Niguel, CA 92677

****Audio recording for the November 1st meeting is available [here](#). Recording times noted in the minutes correspond to that item on the recording. ****

ITEM # 1 Roll Call/Self-Introductions (Recording: 00:00:15)

Jack Hunt, Chair, City of San Juan Capistrano
Debbie Neev, Vice Chair, Laguna Beach County Water District
Brendan Dugan for Brad McGirr, City of Rancho Santa Margarita
Bob Whalen, City of Laguna Beach
Carol Moore, City of Laguna Woods
Doug Erdman, South Coast Water District
Ed Mandich, Trabuco Canyon Water District
Elaine Gennaway, City of Laguna Niguel
Erica Pezold, City of Laguna Hills
Kay Havens, El Toro Water District
Lisa Zawaski for Paul Wyatt, City of Dana Point
Mary Aileen Matheis, Irvine Ranch Water District
Megan Yoo Schneider, Municipal Water District of OC
Norris Brandt for Derek Reeve, San Juan Basin Authority
Rick Erkeneff, South OC Wastewater Authority
Saundra F. Jacobs, Santa Margarita Water District



Scott Voigts, City of Lake Forest
Tiffany Ackley, City of Aliso Viejo

ITEM # 2 Public Comments (Non-Agenda Items) (Recording: 00:03:31)

There were no public comments on non-agenda items.

ITEM # 3 Approval of Minutes (Recording: 00:04:09)

The minutes of the November 1, 2018 and March 7, 2019 meeting were presented to the Executive Committee for approval.

Recommended Action: Approve the minutes of the November 1, 2018 meeting

Motion: Approve minutes
First/Second: Saundra F. Jacobs/Debbie Neev
Abstained: Bob Whalen, Megan Yoo Schneider, Rick Erkeneff, Kay Havens, Scott Voigts
Outcome: Approved unanimously

Recommended Action: Approve the minutes of the March 7, 2019 meeting

Motion: Approve minutes
First/Second: Saundra F. Jacobs/Elaine Gennaway
Abstained: Lisa Zawaski, Kay Havens
Outcome: Approved unanimously

ITEM # 4 Election of Chair and Vice Chair (Recording: 00:08:22)

Ms. Saundra Jacobs, Santa Margarita Water District, Ms. Megan Yoo Schneider, Municipal Water District of OC, and Ms. Carol Moore, City of Laguna Woods comprised the Ad Hoc Committee to select a slate for the Executive Committee to approve. Ms. Debbie Neev, Laguna Beach County Water District was recommended as Chair and Ms. Tiffany Ackley, City of Aliso Viejo was recommended as the Vice-Chair for 2019-2021.

Recommended Action: Elect Chair and Vice-Chair based upon slate recommendations presented by nomination sub-committee.

Motion: Approve Chair and Vice-Chair slate as presented by the nomination committee
First/Second: Saundra F. Jacobs/ Megan Yoo Schneider
Abstained: None
Outcome: Approved unanimously

**ITEM # 5 Opportunities for Watershed Collaboration: Mitigation Management (Recording 00:10:12)
Jennifer Shook, County of Orange**

Ms. Jennifer Shook, County of Orange, provided an overview of the County Mitigation Program and presented opportunities for collaboration between South OC WMA Stakeholders that are interested in developing multi-benefit projects.

Mr. Scott Voigts, asked if the County of Orange works in conjunction with the Irvine Ranch Conservancy. Ms. Shook informed Mr. Voigts that the Irvine Ranch Conservancy works closely and has a contract with OC Parks. Currently they have formed a Mitigation Task Force to develop a long-term Countywide strategy at a landscape scale.



Recommended Action: Receive and File

ITEM # 6 2019-2021 Proposed Work Plan and Cost Share Budget (Recording: 00:34:13)
Jenna Voss, County of Orange

Jenna Voss, County of Orange, provided an overview of the work plan and budget for FY 2019-2021. Ms. Voss explained that this time she was bringing the item to Committee for formal approval after presenting the budget for input at the March 7, 2019 meeting.

Ms. Sandra Jacobs requested a comparison to the last two-year budget, as there was an increase in the amount requested per Member Agency. Ms. Jenna Voss explained that the primary driver for an increase in the annual budget was the project development framework, which is intended to be facilitated through a series of meetings to develop or coordinate on projects – this represents implementation of a process requested by the Committee through their Strategic Visioning Process. Additionally, more staff time and consultant services are requested to support more intensive IRWM Grant application processes dictated by the State Department of Water Resources (DWR).

Mr. Bob Whalen, City of Laguna Beach asked for the success rate of grant approval. Ms. Jenna Voss explained that there have been six prior rounds of grant funding through Proposition 50 and Proposition 84, collectively from which the SOCWMA successfully garnered close to \$36 million, translating to a total local investment of approximately \$216 million dollars.

Recommended Action: Approve proposed 2019-2021 Work Plan and Cost-Share Budget.

Motion: *Approve proposed FY 2019-2021 work plan and budget*
First/Second: *Megan Yoo Schneider/Scott Voigts*
Abstained: *None*
Outcome: *Approved unanimously*

ITEM # 7 Update on Proposition 1 IRWM Grant Process and Approval of Modifications to Executive Committee Meeting Schedule for 2019 (Recording: 00:047:09)
Jenna Voss, County of Orange

Ms. Jenna Voss, informed the Committee that due to significant delays in releasing final Grant Guidelines, posted by DWR April 22, 2019, the Committee meeting dates approved at the November 1, 2018 Committee meeting for 2019 no longer align with the grant application schedule. Ms. Jenna Voss recommended that a meeting date in August and meeting date in November be added to accommodate the DWR grant schedule. Moreover, Ms. Jenna Voss asked that the September, October and December dates be removed.

Ms. Sandra Jacobs asked why DWR received such a large number of public comments. Ms. Voss informed her that it was due to the CEQA compliance deadline shortening from twelve months to six months.

Chair Jack Hunt, City of San Juan Capistrano thanked Ms. Jenna Voss for her dedication and patience in providing him guidance while he was Chair of the Committee.

Recommended Action: Approve requested modification to the Executive Committee meeting schedule to add a meeting on either August 1 or 8, 2019, add a meeting on November 7, 2019, and to remove meetings from the calendar scheduled for September 5, 2019 and December 5, 2019 to accommodate the proposition 1 IRWM Grant schedule.



Motion: Approve adding the August 8, 2019 and November 7, 2019 meeting dates and remove the September 5, 2019, October 3, 2019 and December 5, 2019 meeting dates.

First/Second: Sandra F. Jacobs/Scott Voigts

Abstained: None

Outcome: Approved unanimously

ITEM # 8 Executive Officer's Report (Recording: 01:00:03)

Ms. Jenna Voss provided a brief overview of the Disadvantaged Community Water Needs Assessment on behalf of Ms. Amanda Carr. The SDFCA assessment concluded and the findings posted on the SOCWMA website. Currently the comments on the Orange County-wide assessment are being addressed, which is expected to wrap up late summer.

Ms. Amanda Carr, County of Orange informed the Committee that Governor Newsom issued an Executive Order on April 29, 2019 for the Preparation of Water Resilience Portfolio. It is expected that there will be an overlap of the work that has been done through the IRWM process and implementing the Governor's Executive Order. In the discussions of the Roundtable of Regions and DWR they have addressed ways they can participate in the development of the Resiliency Portfolio.

Ms. Carr announced that a response from DWR regarding the approval of the IRWM Plan is expected in late June.

Ms. Carr informed the Committee that The South OC Stakeholder Project Framework workshop held May 16, 2019 was a success, with approximately 40 attendees. The next phase of implementation will be watershed-specific; staff proposed piloting this effort on the Aliso Creek Watershed.

Ms. Carr provided an overview of the following legislative items:

- SB 200: Safe and Affordable Drinking Water Fund
- AB 129/AB223: Amends the California Safe Drinking Water Act / Requires the SWRCB to develop standard testing methodologies for microplastics in drinking water
- SB332: Wastewater Treatment – recycled water
- SB45: Wildfire, Drought, and Flood Protection Bond Act of 2020

Mr. Rick Erkeneff, South OC Wastewater Authority asked how interested agencies would be informed of the Aliso Creek Watershed project. Ms. Jenna Voss informed him that at this time a list of interested parties is being compiled. Ms. Voss informed him that these are meant to be working groups so once all the interested parties are identified the meeting invites will be sent. Ms. Amanda Carr asked that Executive Committee Members reach out to Ms. Jenna Voss if they are interested in participating.

ITEM # 9 Executive Committee Member Comments (Recording: 01:12:15)

Ms. Sandra Jacobs thanked Mr. Jack Hunt for his service and guidance during his time as Chair of the Executive Committee.

Ms. Debbie Neev also thanked Mr. Jack Hunt for his service and everyone else for appointing her as the new Chair.

Ms. Megan Yoo Schneider informed the Committee that the Municipal Water District of Orange County has a new Director representing Division 3 as of June 5, 2019, his name is Bob McVicker.



Item #10 Adjournment (Recording: 01:13:51)

Non-Committee Attendees:

| | |
|---------------------|--|
| Brendan Dugan | City of Rancho Santa Margarita |
| Dave Wheeler | City of Laguna Hills |
| Denise Erkeneff | Surfrider Foundation |
| Devin Slaven | City of Lake Forest |
| Hal Ghafari | City of Laguna Niguel |
| Hazel McIntosh | City of Rancho Santa Margarita |
| Jeff Meberg | Pacific Marine Mammal Center |
| Jennifer Nevius | Nevius Consulting LLC & Pacific Marine Mammal Ctr. |
| Ken Rosenfield | City of Laguna Hills |
| Lisa Zawaski | City of Dana Point |
| Mark Montford | Moulton Niguel Water District |
| Mark Tettermer | Irvine Ranch Water District |
| Mary Vondrak | City of Laguna Beach |
| Moy Yahya | City of Aliso Viejo and Laguna Woods |
| Peter Chang | Pacific Marine Mammal Center |
| Richard Schlesinger | City of Mission Viejo |
| Roger Bütow | Clean Water Act |

County Staff:

Amanda Carr, Jenna Voss, Andrew McGuire, and Maria Tamez

Recommended Action: Approve the minutes of the June 6, 2019 meeting.

ITEM # 4. PROPOSITION 1 IRWM IMPLEMENTATION GRANT PROJECT SELECTION

The SOCWMA Executive Committee has the authority to select projects prioritized through a local stakeholder-driven process for inclusion in IRWM Grant applications to the State Department of Water Resources (DWR) in accordance with the 2018 IRWM Plan and the Cooperative Agreement. Ms. Jenna Voss, County of Orange, will summarize this responsibility, provide a brief summary of the process (also described below), and present on the slate of projects recommended for funding by the stakeholders. For a summary of all prior projects selected and approved for funding, please see **Appendix A**.

Grant Process Overview

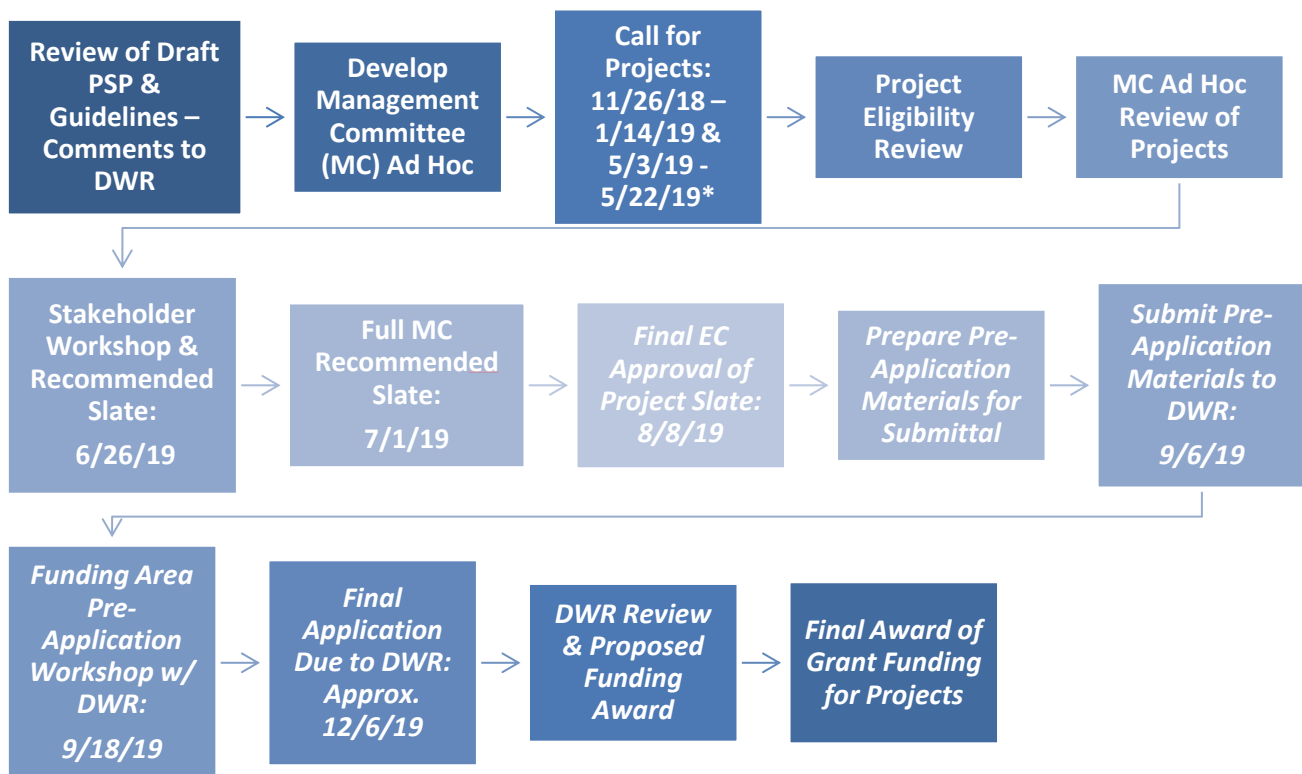
Integrated Regional Water Management (IRWM) is a collaborative framework for management of all aspects of water resources in a region. IRWM crosses jurisdictional, watershed, and political boundaries; involves multiple agencies, stakeholders, and groups; and attempts to address the issues and differing perspectives of all the entities involved through mutually beneficial solutions. IRWM is administered through the DWR. Grant funding made available through voter-approved bonds and allotted for the IRWM Program is allocated to Funding Areas throughout the state. South Orange County is in the San Diego Funding Area, which was allotted \$52.5 million through Proposition 1, approved by the voters in 2014. Of this total, approximately \$4.3 million will fund water resource implementation projects in South Orange County through competitive grant programs (approximately \$600,000 additional funds are available for projects directly benefitting disadvantaged communities).

As a recognized IRWM Region, the South OC WMA IRWM Group prepared and maintains an IRWM Plan to comply with DWR standards for IRWM Grant funding. The IRWM Plan was updated for Proposition 1, the



process for which concluded in mid-2018. The IRWM Plan has been adopted by all of the Member Agencies, and was submitted to the Department of Water Resources (DWR) for their review; this review will ensure eligibility of SOCWMA projects for Proposition 1 IRWM Grant funding. To access the 2018 IRWM Plan and to see all previously funded projects visit the SOCWMA website/Data Management System (<http://arcg.is/1WWTmb>).

Compared with prior grant rounds through Propositions 50 and 84, the application process includes three grant material submittal steps versus one combined submittal, these steps include: 1) preparation and submittal of Pre-Application Materials for each project and the project slate overall; 2) a workshop to present the proposed project information to DWR and other State agency staff to receive feedback on the application before a final application is submitted; and 3) submittal of a final, full application. Ms. Jenna Voss, County of Orange, provided an update to the Committee on the expected schedule and release of IRWM Grant funds, and an overview of the revised grant application process at the June 6th Committee meeting. As a reminder, and for Committee member reference prior to the meeting, the grant process follows the following course:



NOTE: 'MC' represents the Management Committee, and 'EC' the Executive Committee

*Call for Projects re-opened due to changes in project eligibility in the final IRWM Grant Guidelines and PSP

Project Review

During the call for projects, a total of nine projects were submitted for funding consideration that met the grant criteria. An ad hoc of the Management Committee met initially from mid-January to mid-February and again in late May 2019 to review and assess the project applications. The project review process considered how well each project met the goals, objectives and strategies of the IRWM Plan, and quantified the relative benefit to the SOCWMA. After the individual merits of each project were assessed and compared to all other projects submitted, the ad hoc evaluated the balance of the top-ranked projects to ensure the slate demonstrated multiple benefits and a regional perspective. Ms. Voss will further explain this process in her presentation; however, **Appendix B** provides an overview of the project scoring process for reference. For



more information about the process the Ad Hoc took in determining the funding levels shown below, please reference **Appendix C**.

The Management Committee Ad Hoc recommended funding the top four projects shown in the table below; the stakeholder recommendation developed at a workshop held June 26, 2019 mirrored that of the Management Committee Ad Hoc. The Management Committee similarly determined that the vetting process conducted by the Ad Hoc resulted in an appropriate breakdown of projects and recommended funding the top four projects at the same funding levels as the ad hoc and stakeholder group. The Management Committee submits for your recommendation, the following project slate:

| Project Title | Grant Amount Requested | Recommendations | | |
|--|------------------------|------------------|--------------------------|------------------|
| | | (A) Ad Hoc | (B) Management Committee | (C) Stakeholders |
| MWDOC: South Orange County Irrigation Water Use Efficiency Program | \$916,927 | \$833,002 | \$833,002 | \$833,002 |
| Laguna Beach: Bluebird Canyon and Diversion Structure Rehab | \$500,000 | \$500,000 | \$500,000 | \$500,000 |
| Pacific Marine Mammal Center: Water Treatment/Recycling System | \$2,950,000 | \$500,000 | \$500,000 | \$500,000 |
| Santa Margarita Water District: Las Flores Enhanced Water Reliability Project | \$500,000 | \$500,000 | \$500,000 | \$500,000 |

Ms. Jenna Voss will provide an overview of the four projects included in the proposed project slate above, including a summary of quantifiable benefits provided by the projects. Project proponents will be in attendance to answer additional project-related Committee questions.

Final applications are due to the Department of Water Resources eight (8) weeks after receipt of input on the pre-application materials and from the workshop; staff anticipates a due date of early December 2019. The proponents of projects approved by the Executive Committee for inclusion in the packet will begin construction of the pre-application package immediately following the Executive Committee meeting to meet the September 6, 2019 submittal deadline.

Recommended Action: Approve recommended project slate for submittal of a \$2.33 million Proposition 1 Integrated Regional Water Management (IRWM) Implementation Grant Pre-Application Package to the California Department of Water Resources for the four projects recommended for funding consideration from the IRWM Plan.

ITEM # 5. NORTH/CENTRAL ORANGE COUNTY PROPOSITION 1 IRWM IMPLEMENTATION GRANT PROJECT SELECTION

IRWM is a collaborative framework for management of all aspects of water resources in a region that is administered by the Department of Water Resources (DWR). Grant funding made available through voter-approved bonds and allotted for the IRWM Program, allocated to Funding Areas throughout the state. Only



DWR approved Regions within each Funding Area may apply to DWR for IRWM Program funding. The North and Central Orange County Watershed Management Areas (WMAs) are included within the Santa Ana Funding Area, which was allotted \$63 million through Proposition 1, approved by voters in 2014. The current, sole DWR-approved Region in this funding area is administered by the Santa Ana Watershed Project Authority (SAWPA) through the One Water One Watershed (OWOW) Plan.

Following the passage of Proposition 1, North and Central OC stakeholders expressed a desire for a more localized, robust planning process than currently available through the SAWPA OWOW Plan, based upon water resource needs unique to the North and Central OC WMAs. The County of Orange, Orange County Water District (OCWD), and Orange County Sanitation District (OCSD), took the lead in developing the OC Plan for IRWM in North and Central Orange County (the OC Plan), and entered into a MOU establishing the three agencies as the Regional Water Management Group (North and Central OC RWMG) for the OC Plan. The OC Plan was completed in March 2018, after nearly two years of stakeholder engagement, and a Regional Acceptance Process (RAP) application was submitted to the Department of Water Resources (DWR) in November 2018. The RAP, if approved by DWR, would result in a new IRWM Region for North/Central Orange County that could apply for IRWM Grant funds independent from, and in competition with SAWPA.

Concurrent with these efforts, the North and Central OC RWMG entered into discussions with SAWPA regarding incorporation of the OC Plan into the OWOW Plan. These discussions ultimately led to the 2019 Cooperative Agreement for Integrated Regional Water Management Funding in the Santa Funding Area, which stipulates that North and Central OC will remain a part of OWOW, rather than continuing with the RAP application to become an independent DWR approved Region, and allocates 30% of total IRWM grant funding (approximately \$12.5 million total from Proposition 1) in the Region to priority projects identified through the OC Plan process. Ms. Christy Suppes, County of Orange, will provide background on the development of the aforementioned agreement to allocate IRWM grant funds to North/Central Orange County, and an overview of the project selection process recently undertaken in North and Central OC; the resultant project list selected for Proposition 1 IRWM Grant Program funding consideration is as follows:

| Project Name | Project Proponent |
|---|------------------------------|
| Groundwater Replenishment System Final Expansion (GWRS) | Orange County Water District |
| Raitt & Myrtle Park | City of Santa Ana |
| Smartscape | OC Coastkeeper |

Recommended Action: Receive and file.

ITEM # 6. REGIONAL PROJECT PLANNING UPDATE: ALISO CREEK WATERSHED

Ms. Jenna Voss and Mr. Andrew McGuire, County of Orange, will provide an update on the South Orange County Project Development Framework (Framework). As was reiterated at the June 6, 2019 Committee meeting, the Framework is a stakeholder-driven process to support implementation of local/regional water resource projects that meet the goals of the IRWM Plan and the SOCWMA, an effort resultant from the 2015-16 Committee Strategic Visioning Process.

Staff recommended and the Management and Executive Committees approved, focusing the pilot implementation of the Framework approach on the Aliso Creek Watershed. The inaugural July 18, 2019 meeting of the Aliso Creek Watershed Collaboration Group involved almost 50 participants including (but not limited to) cities, water agencies, local NGOs, wastewater agencies, resource agencies (e.g. California Department of Fish and Wildlife), transportation agencies, mitigation-based interests, and the County. The purpose of these meetings is to define a locally supported project coordination process that balances water



resource and habitat priorities in the Aliso Creek Watershed by establishing and maintaining open and transparent communication and collaboration between local NGOs, municipal, state, federal, transportation, natural resource agencies, and the SOCWMA IRWM Group. The first meeting sought approval by the diverse stakeholder group on an approach for establishing goals for project planning in the watershed; a process that will continue through October of this year. The meeting report from the July 18, 2019 meeting is included as **Appendix D** for your reference.

Ms. Jenna Voss and Mr. Andrew McGuire will provide an update on the process to date and next steps for the Aliso Creek Watershed Collaboration Group over the next few months.

Recommended Action: Receive and file.

ITEM # 7. UPDATES ON LEGISLATIVE ACTIVITIES & WATER RESILIENCY PORTFOLIO

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 be providing input on local, regional and state-wide water resource planning priorities at upcoming coordination meetings with representatives from the Department of Water Resources and the Natural Resources Agency regarding development of a Water Resiliency Portfolio.

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, a Steering Committee of the Roundtable is working with representatives from several State agencies to respond to [Governor Newsom’s Executive Order N-10-19](#) released on April 29, 2019.

To carry out the Executive Order, three state agencies have been directed to develop a Water Resiliency Portfolio, the Natural Resources Agency, Environmental Protection Agency, and the Department of Food and Agriculture. The Natural Resources Agency has been assigned as the lead agency for developing the Water Resiliency Portfolio – an effort spearheaded by Nancy Vogel. The Portfolio is to recommend priorities and complimentary actions to “ensure safe and dependable water supplies, flood protection and healthy waterways for the state’s communities, economy and environment.” Please find more information on the website dedicated to this effort – <http://waterresilience.ca.gov/>, including a factsheet [here](#). The intention of the Portfolio is to build upon past investments in water resource planning to continue building resilience against the anticipated impacts of climate change and to achieve multiple objectives across the state through a balanced series of planning actions.

Ms. Jenna Voss will provide an update on the effort being undertaken by the Roundtable, collaboration efforts with other state-wide groups, and a timeline for Portfolio development for Committee consideration. Ms. Jenna Voss will also provide information on other relevant State legislative activity for Committee and stakeholder reference.

Recommended Action: Provide input on the Portfolio development process to staff for further participation in Roundtable discussions with State representatives.

ITEM # 8. EXECUTIVE OFFICER’S REPORT



Mr. Grant Sharp, County of Orange, will provide an update on several ongoing projects and efforts within the South Orange County Watershed Management Area.

ITEM # 9. EXECUTIVE COMMITTEE MEMBER COMMENTS

ITEM # 10. ADJOURNMENT

Next meeting date: November 7, 2019



Appendix A: Previously Funded IRWM Projects

Proposition 50 provided \$25,000,000 IRWM Grants to IRWM Regions with compliant IRWM Plans; the South OC Watershed Management Area (SOCWMA) IRWM Group received one of these grants. For Proposition 84, the State Department of Water Resources (DWR) allocated funds based upon a proportion of land area and population across the state, identifying 12 (which later became 13) Funding Areas. The SOCWMA Region is located within the San Diego Funding Area, and competes with integrated planning groups in San Diego County and southwest Riverside County, amongst which funds are allocated on a competitive basis. Rather than potential winners and losers in such a competition, the three planning groups negotiated a proportionate share of that funding based on a population and land area formula, with the SOCWMA receiving a total of \$11.7 million spread over multiple grant cycles. This agreement was maintained for Proposition 1, for which SOCWMA will receive a total of approximately \$4.6 million over two rounds. Prior funded projects are summarized below.

| Proposition 50 - \$25,000,000 | |
|---|--|
| Project Proponent | Project |
| Municipal Water District of Orange County | Water Use Efficiency Program Expansion |
| Santa Margarita Water District | Canada Gobernadora Multipurpose Basin |
| City of Laguna Beach | Heisler Park Marine Habitat Protection |
| City of San Juan Capistrano | Recycled Water Transmission System Improvements |
| City of San Clemente | Recycled Water Treatment and Distribution |
| County of Orange | Aliso Creek Ecosystem Restoration Project |
| El Toro Water District | Recycled Water System Expansion |
| South Coast Water District | Aliso Creek Urban Runoff Recovery, Reuse, and Conservation |

| Proposition 84 Planning Grant - \$457,416 | |
|---|---------------------------------|
| Project Proponent | Project |
| County of Orange on behalf of the Watershed Management Area | IRWM Update |
| County of Orange on behalf of the Watershed Management Area | Climate Change Plan |
| County of Orange on behalf of the Watershed Management Area | Floodplain Management Plan |
| South Orange County Wastewater Authority | Salt & Nutrient Management Plan |

| | |
|--------------------------|-----------------------------|
| San Juan Basin Authority | Groundwater Management Plan |
|--------------------------|-----------------------------|

| Proposition 84 Implementation Grant (Round 1) - \$2.3 Million | |
|--|------------------------------------|
| Project Proponent | Project |
| Municipal Water District of Orange County | Water Smart Landscape Project |
| Trabuco Canyon Water District | Shadow Rock Detention Basin |
| City of Laguna Beach | Rockledge Ocean Protection Project |

| Proposition 84 Implementation Grant (Round 2) - \$1.7 Million | |
|--|--|
| Project Proponent | Project |
| Municipal Water District of Orange County | Comprehensive Landscape Water Use Efficiency Program |
| Audubon Starr Ranch | Riparian Invasive Control, Restoration, Monitoring and Education |
| Irvine Ranch Water District | Baker Water Treatment Plant |
| South Coast Water District | Targeted Water Conservation Program |

| Proposition 84 2014 Drought - \$4.5 Million | |
|--|---------------------------------|
| Project Proponent | Project |
| Moulton Niguel Water District | Recycled Water System Expansion |
| Santa Margarita Water District | Calafia Recycled Water Project |
| South Coast Water District | Recycled Water System Expansion |

| 2015 Proposition 84 Implementation Grant | |
|---|---|
| Project Proponent | Project |
| City of Aliso Viejo | Dairy Fork Wetlands |
| City of Laguna Niguel | Crown Valley Park Channel Improvements |
| USDA Forest Service | San Juan Aquatic Passage and Improvement |
| Municipal Water District of Orange County | Strategic Turfgrass Removal & Design Assistance Program |
| Recycled Water Distribution Upgrade | South Coast Water District |



Appendix B: Proposition 1 IRWM Grant Scoring Approach



Proposition 1 IRWM Grant Scoring Approach 2019



OVERVIEW

Based on submitted and reviewed quantified benefits, multiple objectives, cost-effectiveness and planning considerations (i.e., Ad Hoc considerations) projects received points in each IRWM Goal category (Flood Management, Natural Resources, Water Quality, and Water Supply Reliability & Efficiency), which were then weighted and summed to create a final project score. The weighting methodology applied to the projects was developed by stakeholders in 2013 and updated with the 2018 IRWM Plan. A description of how the scoring approach was developed and more in-depth scoring details can be found in **Section 6 and Appendix K** of the South Orange County [IRWM Plan](#). An example scoring table populated with the maximum points in each category is included below.

SCORING APPROACH

Quantified Benefit

1. Quantified benefits provided by project proponents were reviewed and verified for accuracy.
2. Quantified benefits from all projects (from this round and the previous 2015 Proposition 84 IRWM grant funding round) were used to create an upper limit of quantified benefits for each IRWM Goal. The upper limit reduced the impact of extremely large projects on the comparison of smaller projects to one another.
3. Quantified benefits at or above the upper limit received the max points for the quantified benefit category.
4. Quantified benefits below the upper limit received points proportional to the upper limit quantified benefit.

Calculating the quantified benefit upper limit:

- Standard outlier equation for calculating the upper limit: the 75th percentile benefit value + (1.5 x the interquartile range [IQR]).
- The IQR is equal to the 25th percentile benefit value subtracted from the 75th percentile benefit value.

Multiple Objectives

1. Project proponents identified the objectives and strategies from the IRWM Plan that their project will address; these were reviewed and verified for appropriateness and applicability.
2. Points were awarded for each objective a project will address, based upon the weighting for that objective category in the IRWM Plan.
3. Objectives only applied in IRWM Goal categories where a quantifiable project benefit was included.

Ad Hoc Considerations

1. Points (maximum of 10 points) for project cost effectiveness were awarded proportionally (inversely) to a cost effectiveness limit established for each IRWM goal during the 2015 Proposition 84 IRWM grant funding round.
2. Points for planning considerations (max of 5 points) were awarded at the discretion of the Ad Hoc based on the project's ability to minimally (1 point), moderately (3), or significantly (5) influence the IRWM Goal in regard to research, planning, and issue awareness.
3. Points for cost-effectiveness and planning considerations only applied in IRWM Goal categories where a quantifiable project benefit was included.

IRWM Goal

1. The points received in the three categories (listed above) are summed together to provide a score for each applicable IRWM Goal (100 points possible)
2. The summed IRWM Goal points are then multiplied by the Goal weighting factor to create the score for the IRWM Goal
 - a. Flood Management (3.4)
 - b. Natural Resources (3.3)
 - c. Water Quality (4.5)
 - d. Water Supply/Reliability (4.3)
3. The scores for the four IRWM Goals are then added together to produce the final project score.

EXAMPLE PROJECT SCORING TABLE

Populated with the maximum points possible in each category. For a project to receive a score in all of the IRWM Goal categories, the project would have to provide quantifiable benefits in each category. A project receiving the top score of 1,550 points would have provided the greatest quantifiable benefit in each IRWM Goal category of all of the submitted projects.

| | Flood Management | Natural Resources | Water Quality | Water Supply, Reliability, and Efficiency |
|-----------------------|---|-------------------|---------------|---|
| Quantified Benefits | 69 | 72.6 | 68.3 | 59 |
| Multiple Objectives | 16 | 12.4 | 16.7 | 26 |
| AD HOC Considerations | 10 – Cost Effectiveness 5 – Planning | | | |
| Category Points | 100 | 100 | 100 | 100 |
| IRWM Goal Weighting | 3.4 | 3.3 | 4.5 | 4.3 |
| IRWM Goal Score | 340 | 330 | 450 | 430 |
| Final Project Score | 1550 | | | |

Appendix C: Proposition 1 IRWM Grant Funding Allocation Approach



Proposition 1 IRWM Grant Funding Allocation Approach 2019



Approach and Key Considerations (also see the example below for each step):

1. Identify the total amount of grant funding available for Orange County area
2. Deduct the Administrative Fee(s) (5-10%) to obtain total grant funds available for projects (administrative fees are applied for management of the grant, after award)
3. Based on the projects' weighted scores, identify the top projects
4. Divide the total grant funds available by the sum of the top projects' weighted scores to obtain the funding allocation per point
5. Multiply the project weighted score by funding allocation per point to calculate the initial allocation for each project
6. Evaluate the results for the following scenarios and adjust as needed:
 - (If applicable) apply an established minimum threshold (e.g., \$500,000) so that the grant award accounts for the administrative costs through the life of the grant (these costs should not exceed 10% of the total grant award)
 - If initial allocation for project is significantly less than funds requested, discuss amount with project proponent to determine impact and/or viability of the project moving forward
 - If initial allocation for project is greater than funds requested, cap allocation at requested amount
7. Based on the results of Step 6, adjust the allocations as needed and/or potentially fund other projects – determine the final recommended grant funding allocations. If there is grant funding available after this adjustment, the money may be able to be rolled into the next round of funding (if applicable) or reallocated amongst the final recommended slate of projects.
8. Ensure that the project portfolio is balanced (addresses a wide range of project benefits) so that it is competitive. For example, if Project B was not funded, the portfolio would still be balanced amongst the range of benefits.

| Project | Flood | Natural Resources | Water Quality | Water Supply/Reliability/ Water Use Efficiency |
|---------|-------|-------------------|---------------|---|
| D | X | | X | X |
| A | | | | X |
| C | | X | X | |
| B | | | | X |

Example (see the corresponding narrative above):

| | | |
|----|---|---|
| 1. | Total amount of grant funding available for OC area | \$2,000,000 |
| 2. | Grant Funding Available for OC - Admin Fee (5%) | \$1,900,000 |
| 3. | Identification of the top projects | |
| | Rank | Project |
| | 1 | D |
| | 2 | A |
| | 3 | C |
| | 4 | B |
| | Total Score | |
| | | 1,375 |
| 4. | Funding Allocation/Point = \$1,900,000/1,375 | \$1,381.82 |
| 5. | Initial allocation per project | |
| | Project | Calculation |
| | D | 450*\$1,381.82 = \$621,818 |
| | A | 375*\$1,381.82 = \$518,182 |
| | C | 300*\$1,381.82 = \$414,545 |
| | B | 250*\$1,381.82 = \$345,455 |
| 6. | Determine if adjustments are to the initial grant allocations area needed | |
| | Project | Funds Requested |
| | D | \$900,000 |
| | A | \$510,000 |
| | C | \$600,000 |
| | B | \$2,000,000 |
| 7. | Determine final recommended grant allocations | |
| | Project | Initial Allocation |
| | D | \$621,818 |
| | | Project accepted lower amount |
| | A | \$518,182 |
| | | Funding capped at requested amount |
| | C | \$414,545 |
| | | Project was funded at minimum threshold |
| | B | Project was not included in final slate – could not accept amount significantly lower than the requested amount |

Appendix D: Aliso Creek Watershed Collaboration Group Meeting Report



MEETING REPORT

Aliso Creek Watershed Collaboration Group Meeting #1

| | |
|----------------------|--|
| Date: | July 18, 2019 |
| Time: | 9:00 AM – 11:00 AM |
| Location: | Laguna Hills Community Center, 25555 Alicia Parkway, Laguna Hills, CA 92653 |
| Facilitators: | Darren Haver (University of California Cooperative Extension), Chad Praul (Environmental Incentives) |

MEETING PURPOSE & OBJECTIVE

Purpose: Define a locally supported project coordination process that balances water resource and habitat priorities in the Aliso Creek Watershed by establishing and maintaining open and transparent communication and collaboration between local NGOs, municipal, state, federal, transportation, natural resource agencies, and the SOCWMA IRWM Group.

Objectives

- Identify and start to build agreement on goals for the Aliso Creek Watershed
- Agree on the planning approach and process for the Aliso Creek Watershed
 - The [Open Standards for the Practice of Conservation](#) were recommended

SUPPORT FOR DECISIONS

The level of the group's support was signaled by thumb polling where thumbs up meant that the person can support the idea, thumb sideways indicated a need to speak, and thumb down meant the person cannot support the idea. *Results are shown in italics for each decision.*

1. **Meeting roles & norms:** The roles focused on three types of organization roles and common behavior to focus on objectives and moving forward, listening with an open mind and attacking problems rather than people. The norms focused on consistent organizational representation, agenda/meeting report timing, need for meeting prep and follow up effort, and signaling level of support. *These roles and norms were supported with a large majority of the 42 participants, 2 abstentions and no opposition.*
2. **Use of Open Standards:** The use of results chains and valuable components of the Open Standards for the Practice of Conservation to provide a vision and tell the story of the Aliso watershed program was supported by a large majority of the 42 participants with a couple of abstentions and no opposition.
3. **Organization commitment to process:** Participants were asked to quickly signal their level of commitment at the end of the meeting, where 5= contribute no matter what it takes, 3= I'm fairly sure my organization is in for the duration and 1= I don't think my organization needs to be involved. *The large majority of 42 participants signaled a 5 while some signaled at a 4 or 3 level of commitment.*

ACTION ITEMS

| RESPONSIBLE PARTY | DUE DATE | DESCRIPTION |
|-------------------|-------------|--|
| All participants | August 1 | Identify organization representative, contact information, and availability for the August 29th meeting of the Aliso Creek Watershed Collaboration Group by responding to this email. |
| Andy & Jenna | July/August | Plan logistics and manage invitations for meeting #2 |
| Darren & Chad | August | Prepare Desired Outcome proposals and meeting materials for meeting #2 |

**Action items for all participants will be noted in bold text for reference*

KEY DISCUSSION POINTS

This section reflects the major points contributed by participants rather than the content from presenters. See meeting materials for presenter content. Additional details of these comments and smaller points from participants have been captured in the facilitators' individual notes for use in the Aliso Creek Watershed Collaboration Group (Aliso Group) process.

Aliso Group Process & Participation

- Amanda Carr, Deputy Director of OC Public Works noted (1) the USACE project is no longer proceeding as there was not local interest in that approach, (2) the County is serving the SOCWMA Executive committee and (3) the County is an equal stakeholder in the room rather than the lead agency.
- There are valuable special studies that have already been done and there is a need to inventory what is already known about the Aliso Creek Watershed.
- Not all agencies that have a say are present. It was stressed that all stakeholders should be invited into the process to ensure buy-in and that we are at the beginning of a what could be a long and ongoing process. Particularly the County's 5th Supervisorial District should be represented.
- A participant noted that a lead agency for projects and environmental assessments (EIS/EIR) will be needed.
- It was also noted that when considering project planning and budget, the group should consider revenues from stormwater harvesting and property values post ecosystem restoration.
- Members of the Aliso Watershed Collaboration Group can both participate in this group and work on other Aliso Creek Watershed projects for which this group is not involved, or is included on an update basis only.

Findings: Desired Outcome Activity

- The desired outcome concepts created by attendees roughly fell into five categories:
 - Comprehensive Ecosystem Restoration: reestablishing ecosystem function, native biodiversity, removing anthropogenic stress and barriers to fish passage, reduce fuels, restoring and creating habitat (including addressing gaps between mitigation sites)
 - Base of the Watershed – Coastal Uses: monitoring the coastal receiving water, climate resiliency, estuary conditions achieving fishable/swimmable, and berm monitoring
 - Stream Channel Morphology: restore natural hydraulic function (reduce incising, erosion, peak wet weather flows), restore habitat and eliminate unnatural dry weather flows.
 - Natural Dry Weather Flows: wetland enhancement and reduce dry weather flows (especially to estuary)
 - Governance and Administration: development of a process that involves the entire community, uses science appropriately, has a clear vision for the watershed, finds a lead agency and has a plan to obtain funding.
- Other desired outcomes included: protection of existing infrastructure and climate change resiliency.
- The activity sparked discussion on restoration scope and scale for the Aliso Creek Watershed; whether there should be one large vision for the entire watershed or address individual issues through a program of individual projects. Facilitators expressed that one aspect of a results chain is to define the scope and scale of the program. The next meeting will allow the group to decide the scope and scale of the Aliso Creek Watershed program.
- During development of desired outcomes the group should keep in mind that the Coastal Treatment Plant can pull dry weather flows from Aliso Creek and that projects should not affect the plant's ability to pull water.

MEETING ATTENDEES

Mary Vondrak (City of Laguna Beach), Emerich Hlava (Concerned Citizen), Michael Beanan (Laguna Blue Belt Foundation), Jennifer Shook (OCPW), Leslie Hill (OCTA), Charles Baker (Cal Trans), Tracy Ingebrigtsen (OCPW), Amanda Carr (OCPW), Grant Sharp (OCPW), Ed Almanza (Laguna Ocean Foundation), Sandra Jacobson (Cal Trout), Mary Larson (CDFW), Jennifer Turner (CDFW), Simona Altman (CDFW), Gail Sevrens (CDFW), Joe Ames (Mission Viejo), Bill Griffin (City of Laguna Woods), Steve Dishon (SCWD), Rick Erkeneff (SCWD/SOCWA/Surfrider), Samantha Pilon (OCPW), Jim Burror (SOCWA), Roger Butow (Clean Water Now), Michael Whipple (Orange Coast Watershed Protection Center), Josie Bennett (Laguna Canyon Foundation), Hallie Jones (Laguna Canyon Foundation), Cindy Rivers (OCPW), Kris Taniguchi-Quan (SCCWRP), Penny Lew (OCPW/OC Flood), Hal Ghafari (City of Laguna Niguel), Drew Atwater (MNWD), Mark Mount (MNWD), Natalia Gaerlan (OC Parks), Robin Lamont (OC Parks), Susan Brodeur (OC Parks), Christy Suppes (OCPW), Eric Smalstig (Geosyntec), Moy Yahya (Aliso Viejo), Hasan Nouri (Fluvial Tech), Jenna Voss and Andy McGuire (OCPW); Avery Blackwell (Geosyntec), Lisa Austin (Geosyntec); Chad Praul (Environmental Incentives); Darren Haver (UCCE)

MEETING MATERIALS

- Meeting presentation: PDF attached to email
- Open Standards Booklet: PDF attached to email
- Desired Outcome Concepts: PDFs attached to email

AGENDA (REPEATED FOR CONTEXT)

| Time | Description | Lead & Support |
|-------|--|---|
| | Meeting Introduction & Norms | |
| 9:00 | <ul style="list-style-type: none"> • Introduction round robin • Discuss & agree on group norms and ground rules | Lead: Darren |
| | Approach & Process for Planning Aliso Creek Watershed Projects | |
| 9:20 | <ul style="list-style-type: none"> • Understand Results Chains • Determine level of support for using the Open Standards for Conservation | Lead: Chad |
| | Activity: Develop Supported Goals for Aliso Creek Watershed | |
| 9:50 | <ul style="list-style-type: none"> • Respond to an initial set of goals for the watershed • Suggest missing goals that are essential • Work toward a manageable number of SMART goals | Lead: Darren Support: Chad |
| | Next Steps | |
| 10:50 | <ul style="list-style-type: none"> • Understand timeframes for next meeting and meeting report | Lead: Chad |
| 11:00 | Adjourn | |



Executive Committee Meeting

Tuesday, August 6, 2019

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 Matheis
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 July 2, 2019 meeting.

III. Public Comments on items not on the agenda- 7:40 am

IV. New Business – 7:45 am

- OA Report by Kelly Hubbard, MWDOC

V. Treasurer's Report – Joan Finnegan – 7:55 am

- No July report.

VI. CSDA Report –Arlene Schafer/Bill Nelson – 8:00 am

- Receive, discuss and file the CSDA Report

VII. LAFCO Report –Jim Fisler– 8:05 am

- Receive, discuss and file the LAFCO report

VIII. ACWA Report – Sandra Jacobs – 8:10 am

- Receive, discuss and file the ACWA report

IX. OCCOG Report – Mike Schaefer – 8:15 am

- Receive, discuss and file OCCOG report
- Alternate

X. Subcommittee Reports – 8:20 am

- Programs (Mark Monin)
 - Discuss speaker for October 24, 2019 quarterly membership meeting.
- Membership (Arlene Schafer)
- Legislative (Mary Aileen Matheis)
 - Discuss and consider taking action on proposed legislation of interest to Special Districts.

XI. Adjourn – 8:30 am

Next Executive Committee Meeting: Tuesday, September 3, 2019

Next ISDOC Quarterly Meeting: October 24, 2019



ISDOC Executive Committee

July 2, 2019

Minutes

I. Welcome

President Sandra Jacobs called the meeting to order at 7:30 a.m.

Sandra Jacobs, President (SMWD)

Mark Monin, 1st Vice President (ETWD)

Arlene Schafer, 2nd Vice President (CMSD)

Bill Green, Secretary (SCWD)

Jim Fisler, Past President (Mesa WD/LAFCO)

Others Present:

Mike Gaskins (ETWD)

Stacy Taylor (Mesa WD)

Bill Nelson (OCCD/CSDA)

Mike Schaefer (CMSD)

Carolyn Emery (LAFCO)

Greg Mills (Serrano WD)

Heather Baez (MWDOC)

Christina Hernandez (MWDOC)

Jody Brennan (SCWD)

II. Minutes

1. The minutes of the May 14, 2019 and June 4, 2019 meeting were reviewed. Upon a motion by Mark Monin and second by Arlene Schafer, the minutes were unanimously approved.

III. Public Comments

None

IV. Treasurer's Report

1. There was no report as Treasurer Joan Finnegan was absent. Sandra Jacobs provided an update on the new account to the membership at the recent Quarterly meeting and will bring a report of the new account to the August Executive Committee meeting.

V. CSDA Report

1. Bill Nelson reported on the following CSDA activities:
 - a. 2019 CSDA Annual Conference will be held in Anaheim from September 25 – 28, 2019.
 - b. Electronic ballot voting is currently open for CSDA Board of Directors Seat B. The deadline to vote is August 9 and ballots will be counted and verified on August 13.
 - c. CSDA Award Nominations are being accepted through July 17 and will be presented at the September Conference.

VI. LAFCO Report

1. Jim Fisler reported there was no OC LAFCO meeting in July. The next meeting is scheduled for August 14, 2109. Ballots for the Regular Special District and Alternate Special District seats are due by July 19 at 3:00 p.m. and the oath of office for the newly elected seats will be conducted at the August 14 meeting.

VII. ACWA Report

1. Sandra Jacobs and Stacy Taylor reported on the following ACWA activities:
 - a. Communications Committee recently held a successful tour and business meeting.
 - b. ACWA Region 10 Board election is coming up.
 - c. July 30 will be the ACWA Region 10 event at the Arroyo Trabuco Golf Course.
 - d. The presentations from the ACWA Spring conference are now available on their website.

VIII. OCCOG Report

1. Mike Schaefer reported the June meeting did not have a quorum, so the items were moved to the July meeting. He asked for consideration of a OCCOG 2nd Alternate (Joan Finnegan is the Alternate). President Sandra Jacobs formally appointed Mark Monin to be the 2nd Alternate to OCCOG. OCCOG meetings on the 4th Thursday of the month.

IX. Subcommittee Reports

1. Programs: Mark Monin reported on the 2019 ISDOC Quarterly Luncheons as follows:
 - a. June 27, 2019 – speaker Sanjay Guar, Raftelis and candidate forum were well received.
 - b. October 24, 2019 – waiting to confirm the speaker will be Supervisor Bartlett. Discussion of topics for presentation were discussed.

- c. Future speaker may include Assemblywoman Cottie Petrie-Norris who has expressed an interest. Due to legislative activities, her presentation would need to be in the month of October.
 2. Membership: None
 3. Legislative Update:
 - a. AB 1752 (Petri-Norris) specific to South Coast Water District's Doheny Ocean Desalination Project allowing an extension of a sunset date for combined use of an SFR loan and Prop. 1 grant funds was discussed. Motion was made by Arlene Schafer, seconded by Mark Monin to support AB 1752. Motion passed unanimously.
 - b. Heather Baez provided an update on ACA 1 and SB 13.

X. Committee Comments

1. Status update on the LAFCO dues and scholarship items. The Scholarship Committee had a conference call earlier this year, but the item was put on hold while the available scholarship funds were still restricted in the old bank accounts. Criteria for scholarship is off hold. Goal would be to have criteria developed so funds could be available for the September meeting. The LAFCO Dues Committee will reconvene in August/Sept.

XI. Adjourn

2. The meeting adjourned at 8:27 and the next meeting will be held on August 6, 2019 at 7:30 am.



AGENDA

Friday, August 2, 2019
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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Pledge of Allegiance

Announcements & Introductions

- Jim Atkinson, Mesa Water District

Program: The Challenges of Retailers

- Moderator: Paul Shoenberger, General Manager, Mesa Water District
- Paul Cook, General Manager, Irvine Ranch Water District
- Dan Ferons, General Manager, Santa Margarita Water District
- Marc Marcantonio, General Manager, Yorba Linda Water District
- Meg McWade, Director of Public Works, City of Fullerton
- Ken Vecchiarelli, General Manager, Golden State Water Company

Adjourn

.....
Next WACO Meeting

Friday, September 6, 7:30 a.m. @ OCWD/MWDOC Joint Boardroom

Next WACO Planning Committee Meeting

Tuesday, August 20, 7:30 a.m. @ MWDOC 101

DATES TO REMEMBER
AUGUST/SEPTEMBER 2019

1. Aug 23 – 7:30 a.m. – South Orange County Economic Coalition
2. Aug 23 - 11:30 a.m. – Chair/GM Meeting
3. Aug 26 – 10:00 a.m. – WateReuse Meeting (Anaheim)
4. Aug 28 – 10:00 a.m. – LF Utility Coordination Meeting
5. Aug 30 – 8:00 a.m. – TV-6 (Gaskins)
6. Aug 30 – DISTRICT OFFICE CLOSED
7. Sept 2 – LABOR DAY – DISTRICT OFFICE CLOSED
8. Sept 3 – 7:30 a.m. – RRC Meeting
9. Sept 3 – 7:30 a.m. – ISDOC Executive Committee Meeting
10. Sept 4 – 8:30 a.m. – MWDOC/MET Directors Meeting
11. Sept 5 – 8:30 a.m. – SOCWA Board Meeting
12. Sept 6 – 7:30 a.m. – WACO Meeting
13. Sept 6 – 11:30 a.m. – Chair/GM Meeting
14. Sept 8-11 – WateReuse Conference (San Diego)
15. Sept 11 – 8:30 a.m. – MWDOC Admin/Finance Committee Meeting
16. Sept 12 – 8:30 a.m. – SOCWA Engineering Committee Meeting
17. Sept 13 – DISTRICT OFFICE CLOSED
18. Sept 16 – 7:30 a.m. – Agenda Review Meeting
19. Sept 16 – 8:30 a.m. – MWDOC Public Affairs Meeting
20. Sept 17 – 7:30 a.m. – WACO Planning Meeting
21. Sept 18 – 8:30 a.m. – MWDOC Board Meeting
22. Sept 19 – 7:30 a.m. – OCWA 2019 Operator Expo (Rattlesnake Reservoir)
23. Sept 19 – 8:00 a.m. – SAC Meeting
24. Sept 20 – 11:30 a.m. – Chair/GM Meeting
25. Sept 24 – 7:30 a.m. – Regular Engineering/Finance Committee Meeting

26. Sept 24 – 12:00 p.m. – South County Agencies Meeting
27. Sept 25-27 – CSDA Conference (Anaheim)
28. Sept 26 – 7:30 a.m. – Regular Board Meeting
29. Sept 27 – 8:00 am. – TV-6 (Freshley)
30. Sept 27 – DISTRICT OFFICE CLOSED

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.