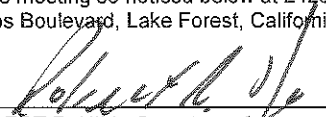


PI hereby certify that the following agenda was posted at least 72 hours prior to the time of the meeting so noticed below at 24251 Los Alisos Boulevard, Lake Forest, California.


ROBERT R. HILL, 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

December 20, 2018
7:30 a.m.

CALL MEETING TO ORDER – President Goldman

PLEDGE OF ALLEGIANCE – Vice President Vergara

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

1. Mr. Hill will recognize and congratulate on behalf of the Board Judy Wilson, Accounting Supervisor, for 10 years of service with the District.

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

1. Mr. Hill will introduce and congratulate on behalf of the Board, Raymund Llada, Maintenance Worker 1, for achieving his Water Distribution Operator Grade D2 & Grade T2 Certifications from the State of California State Water Resources Control Board.

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

No acknowledgement this month.

d. New Employee Introduction

- a. Mr. Hill will recognize and introduce the following new employees to the Board:

- a. Dave Hayden, Wastewater Operator II
- b. Robert McKern, Customer Service Field Rep 1

CONSENT CALENDAR

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

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

Consider approving the minutes of the November 20, 2018 Board meeting

Consider approving the Directors to attend the Urban Water Institute Spring Conference on February 27 - March 1, 2019 in Palm Springs, CA

Consider approving the Directors to attend the WaterReuse Annual Conference on March 17-19, 2019 in Garden Grove, CA

APPROVAL OF ITEMS REMOVED FROM TODAY'S CONSENT CALENDAR

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

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

DIRECTOR/COMMITTEE REPORTING

2. Director Reports for Meetings Attended (Oral Report)

GENERAL MANAGER ACTION ITEMS

3. ELECTION OF OFFICERS (Oral)

a. Nomination for Office of President

At this time the Board members will accept nominations for the office of President of the El Toro Water District and the Board of Directors thereof.

Recommended Action: The Board will elect a President for the Board of Directors of the El Toro Water District to serve for two ensuing years or until the election of their successor.

b. Nomination for Office of Vice President

At this time the Board members will accept nominations for the office of Vice President of the El Toro Water District and the Board of Directors thereof.

Recommended Action: The Board will elect a Vice President for the Board of Directors of the El Toro Water District to serve for the two ensuing years or until the election of their successor.

c. Nomination for Office of Treasurer

At this time the Board members will accept nominations for the office of Treasurer of the El Toro Water District and the Board of Directors thereof.

Recommended Action: The Board will elect a Treasurer for the Board of Directors of the El Toro Water District to serve for the two ensuing years or until the election of their successor.

d. Nomination for Office of Secretary

At this time the Board members will accept nominations for the office of Secretary of the El Toro Water District and the Board of Directors thereof.

Recommended Action: The Board will elect a Secretary for the Board of Directors of the El Toro Water District to serve for the two ensuing years or until the election of their successor.

e. **Nomination for Office of Assistant Secretary**

At this time the Board members will accept nominations for the office of Assistant Secretary of the El Toro Water District and the Board of Directors thereof.

Recommended Action: The Board will elect an Assistant Secretary for the Board of Directors of the El Toro Water District to serve for the two ensuing years or until the election of their successor.

Action: The Secretary or Assistant Secretary will administer the Oath of Office to the newly elected Officers of the El Toro Water District Board of Directors.

4. **Resolution No. 18-12-1 Establishing Date, Time, and Place of Regular Meetings of the Board of Directors for the Calendar Year 2019** (Reference Material Included)

Staff will review and comment on Resolution No. 18-12-1 which establishes dates, times, and places of the regular meetings of the Board of Directors for the calendar year 2019.

Recommended Action: Staff recommends approval of Resolution No. 18-12-1 which establishes dates, times, and places of the regular meetings of the Board of Directors for calendar year 2019.

RESOLUTION NO. 18-12-1

RESOLUTION OF THE BOARD OF DIRECTORS
OF THE EL TORO WATER DISTRICT
ESTABLISHING DATE, TIME, AND PLACE
OF REGULAR MEETINGS OF THE
BOARD OF DIRECTORS FOR
CALENDAR YEAR 2019

5. **ETWD Employee Handbook Revision – Section V – Benefits - Holidays** (Reference Material Included)

Staff will review and comment on the results of a survey of neighboring agency's observed employee holidays.

Recommended Action: Staff recommends that the Board of Directors consider revising Section V – Benefits – Holidays of the Employee Handbook adding and observing Veteran's day as an additional employee holiday.

GENERAL MANAGER INFORMATION ITEMS

6. **Director Compensation** (Reference Material Included)

Directors will discuss and consider whether an increase to their Director compensation is appropriate, and if so, discuss the statutory process to adopt an Ordinance to implement same. ETWD Director compensation was last increased in 2017.

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

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

8. **State Drought Regulations – Monthly Report** (Reference Material Included)

Staff will review and comment on reporting of monthly and cumulative water production compared to actual water production in 2013.

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 Finance Committee Meeting – November 30, 2018
- b. SOCWA Board Meeting – December 6, 2018
- c. SOCWA PC-17 Committee Meeting – December 10, 2018
- d. SOCWA Engineering Committee Meeting – December 13, 2018

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

- a. MWDOC Planning/Operations Committee – December 3, 2018
- b. MWDOC/MET Directors Workshop – December 5, 2018
- c. MWDOC Administration & Finance Committee – December 12, 2018
- d. MWDOC Public Affairs & Legislation Committee –December 17, 2018

e. MWDOC Board Meeting – December 19, 2018

13. Local Agency Formation Commission (LAFCO) Report

a. Report on the December 12, 2018 LAFCO meeting - canceled

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

a. Report on the December 3, 2018 SOCWMA Management Committee meeting

15. ISDOC Meetings (Reference Material Included)

a. Report on the December 4, 2018 ISDOC Executive Committee Meeting

16. WACO Meetings (Reference Material Included)

a. Report on the December 7, 2018 WACO Meeting

b. Report on the December 18, 2018 WACO Planning Committee meeting

17. City Coordination Efforts

a. Report on the November 28, 2018 Utility Coordination Meeting.

COMMITTEE AND GENERAL INFORMATION

18. Schedule of Appearances Laguna Woods Village TV-6 for Calendar Year 2019 (Reference Material Included)

19. Dates to Remember for December 2018/January 2019(Reference Material Included)

20. Carry-Over Pending Matters (Reference Material Included)

DIRECTOR COMMENTS/NON-AGENDA ITEMS

ATTORNEY REPORT

CLOSED SESSION

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

1. In accordance with Government Code Section 54956.96 in order to receive, discuss, and/or take action concerning information obtained by the District's representative pertaining to a closed session of the South Orange County Wastewater Authority ("SOCWA"), a joint powers agency.
2. To conduct the General Manager's annual performance evaluation pursuant to Government Code Section 54957 (b) (1).

REGULAR SESSION

REPORT ON CLOSED SESSION (Legal Counsel)

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

21. GENERAL MANAGER COMPENSATION

Board Action: The District's Board of Directors will discuss and consider granting the District's General Manager a compensation increase in the amount and form as determined by the Board.

ADJOURNMENT

Recommended Action: The Board will be requested to take action adjourning today's Board meeting to **Thursday, January 24, 2018 at 7:30 a.m.** at the El Toro Water District, 24251 Los Alisos Boulevard, Lake Forest, California.

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

Request for Disability-Related Modifications or Accommodations

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

MINUTES OF THE REGULAR MEETING
OF THE
BOARD OF DIRECTORS
OF THE
EL TORO WATER DISTRICT
November 20, 2018

President Goldman called the meeting of the Board of Directors of the ELTORO WATER DISTRICT to order at 7:30 o'clock a.m. on November 20, 2018 at the El Toro Water District Administrative Offices, 24251 Los Alisos Boulevard, Lake Forest, California.

Director Monin led in the Pledge of Allegiance to the flag.

Present at today's meeting were Committee Members M. SCOTT GOLDMAN, JOSE F. VERGARA, MARK MONIN, FRED ADJARIAN and KATHRYN FRESHLEY.

Also present were ROBERT R. HILL, General Manager/Secretary, DENNIS P. CAFFERTY, Assistant General Manager/District Engineer, JUDY CIMORELL, Human Resources Manager, NEELY SHAHBAKHTI, Finance Manager/Controller, CESAR CASSANI, Employee, JOSH PEREZ, Employee, GILBERT J. GRANITO, General Counsel, EVELYN HOOGHKIRK, Prudential, KIRK LEBECK, Prudential, MIKE GASKINS, customer, and POLLY WELSCH, Recording Secretary.

Oral Communications - Public Comments

President Goldman 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.

There were no comments.

Items Received Too Late To Be Agendized

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

Presentation of Awards, Recognitions and Introductions

- a. Mr. Hill recognized and congratulated on behalf of the Board, Josh Perez, Electrical Systems/SCADA Supervisor, for 5 years of service with the District.
- b. Mr. Hill recognized and congratulated on behalf of the Board, Cesar Cassani, Wastewater Operator 1, for 5 years of service with the District.

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

- a. Mr. Hill recognized and congratulated on behalf of the Board, Cesar Cassani, Wastewater Operator 1, for obtaining his Water Treatment Operator Grade T2 Certification from the State of California State Water Resources Control Board.

At approximately 7:36 o'clock a.m. Mr. Cassani and Mr. Perez 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.

1. Consider approving the October 19, 2018 Special Board meeting minutes.
2. Consider approving the October 25, 2018 Board meeting minutes.

President Goldman asked for a Motion.

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

Roll Call Vote:

Director Adjarian	aye
Director Monin	aye
President Goldman	aye
Vice President Vergara	aye
Director Freshley	aye

Approval of Items Removed from the Consent Calendar

There were no items removed from today's Consent Calendar.

Prudential Presentation

Mr. Hill introduced Evelyn Hooghkirk and Kirk LeBeck of Prudential who provided an overview of their role and responsibilities for Record Keeping, Participant Education, Investment Management and Fund Performance Monitoring/Administration for the 457 Deferred Compensation Plan, and the Record Keeping for the 401(k) Retirement Savings Plan.

Ms. Hooghkirk stated that she is the Relationship Manager for the two Plans at Prudential and has been with them for 8 years. She further stated

that she meets with District management once a year to discuss the Plan and Assets in the Plan.

Ms. Hooghkirk stated that they are the Record Keeper for the Plans and invest them according to the participants' direction. She further stated that US Bank provides a daily feed which is divided amongst the 457 Plan. In addition they provide a Retirement Guide, Welcome Letter, a Call Center available daily, and Employee Education.

Ms. Hooghkirk stated that they provide quarterly statements to the participants, as well as yearly demographics of the Plan. She further stated that Prudential's added value provide solutions and asset management help.

Mr. LeBeck stated that he is a financial strategist and has been with Prudential for 15 years. He further stated that page 12 reflects investment options and the manager's platform.

Mr. LeBeck stated that Prudential provides Fiduciary Oversight and outlook for strategies.

Director Monin asked what does Prudential charge. Mr. LeBeck replied that the fee as it relates to the funds will vary based on each fund option. He further stated that a Large Cap Fund as shown on page 26 provides the performance of the fund options and expense ratios for each fund.

Ms. Hooghkirk stated that the Revenue Report is not included in today's presentation.

Mr. LeBeck stated that the fee for individual fund options could be as

high as 50 basis points, although some have no fees. He further stated that the management and record keeping fees are sometimes separated and not included in the fund report.

Director Monin stated that the Vanguard 500 Index Investor fees seem high. Mr. LeBeck replied that the fee is 0.14%.

Mr. Hill stated that 28 basis points was the agreed upon number that the Board agreed to with Prudential, and asked why is it now 50 basis points. Ms. Hoogkirk replied that the over and above expense ratios are what the participants pay on both Plans of 28 basis points on their investments, which includes the Record Keeping fees.

Mr. Hill stated that the 28 basis points are just for the Record Keeping, and the 50 basis points are the fee of handling the investment funds.

Mr. Cafferty asked if the 50 basis points are in addition to the 28 basis points. Mr. LeBeck replied yes.

Ms. Hoogkirk stated that the 28 basis points is the Record Keeping fee.

Mr. LeBeck stated that on page 25, Executive Summary, the assets are broken out among the funds with core asset classes being monitored.

Director Monin asked how many employees are on their monitoring committee. Mr. LeBeck replied that there are 20 research analysts on their team who manage asset allocation strategies.

Director Monin asked how many plans Prudential manages. Mr. LeBeck replied that they oversee 66 products in the program.

Director Monin asked if Prudential has specific policy guidelines they follow. Ms. Hooghkirk replied that the participant directed funds have an option to rebalance and change investments daily but they could also choose Goal Maker which rebalances accordingly.

Ms. Hooghkirk stated that the program is set up by choosing investments for the future which the participants have control of.

Director Monin asked how many participants use Goal Maker. Ms. Hooghkirk replied that about half of the participants, and it includes a Glidepath.

Director Monin asked if there are certain guidelines by the firm that they must work within. Mr. LeBeck replied yes.

Director Monin asked when they decide to replace a fund. Mr. LeBeck replied that they are placed on a watchlist and have their own proprietary ranking, using a quarterly report to provide assessment, and 4 consecutive quarters are viewed. He further stated that they also use a qualitative assessment.

At approximately 8:18 o'clock a.m. Ms. Hooghkirk and Mr. LeBeck left the meeting.

Director Freshley stated that she would like to know why we use HighMark for one Plan and Prudential for the other. Mr. Hill replied that the 401(k) is the only retirement plan that the District has, and the Board hired HighMark as Investment Manager to share in the fiduciary responsibility. He further stated that HighMark does not do Record Keeping.

Director/Committee Reporting

Director Adjarian stated that he attended the SOCWA Board meeting, WACO, CAG, the MWDOC Water Reliability Forum, LAFCO, SOCWA Finance meeting, and will be attending another SOCWA Finance meeting on the 30th.

Director Monin stated that he attended CAG, the South OC Watershed meeting, WACO, ISDOC Executive Committee, OCWA, the MWDOC/MET Directors workshop, the MWDOC Admin/Finance meeting, and will be attending the ACWA Fall Conference.

Vice President Vergara stated that he attended WACO, the MWDOC/MET Directors Workshop, the MWDOC Planning/Operations meeting, the MWDOC Admin/Finance meeting, OCWA, CAG, and will attend the MWDOC Board meeting.

Director Freshley stated that she attended the MWDOC/MET Directors workshop, WACO, CAG, and the MWDOC Water Policy Forum.

President Goldman stated that he the SOCWA Board meeting, a CASA Board meeting, and will be attending the ACWA Fall conference, and appearing on TV-6 this month.

General Manager Action Items

Annual Review of the District's Investment Policy Statement 1985-3 (IV)

Resolution No. 18-11-1 Establishing Date, Time, and Place of Regular Meetings
of the Board of Directors for the Calendar Year 2019

Mr. Hill stated that there are some of our policies that require an annual review of the Board. He further stated that staff has worked on investment strategies with Richard Babbe of PFM, and feels that the policy is good as written.

Recommended Action: Staff recommends no amendments to the Districts Investment Policy Statement 1985-3 (IV).

President Goldman stated that since there is no amendments being made to the District's Investment Policy Statement 1985-3 (IV), there is no need for a Motion.

Resolution No. 18-11-1 Establishing Date, Time, and Place of Regular Meetings
of the Board of Directors for the Calendar Year 2019

Mr. Hill stated that the only meeting date conflicts in 2019 are Thanksgiving week.

President Goldman asked for a Motion.

Motion: Vice President Vergara made a Motion, seconded by Director Adjarian, and unanimously carried across the Board to adopt Resolution No. 18-11-1 which establishes the date, time, and place of regular meetings of the Board of Directors for the Calendar Year 2019.

Roll Call Vote:

Director Adjarian	aye
Director Monin	aye
President Goldman	aye
Vice President Vergara	aye

Director Freshley aye

General Manager Information Items

General Manager's Monthly Report

Mr. Hill stated that he has no comments.

Director Monin stated that the Customer service report is looking good.

Director Freshley asked if we have a special program on meter boxes.

Mr. Cafferty replied that the District routinely replaces worn out meter boxes as ongoing maintenance.

State Drought Regulations – Monthly Report

Mr. Hill stated that SB 606 and AB1668 turned into a regulation and after further review, staff will report back to the Board.

Legislative Reports

There were no comments.

Public Education and Outreach/Water Conservation Reports

Ms. Seitz stated that there were no water waste complaints in October. She further stated that the bill message will be to watch for the online bill payment portal on the District's website which will be easier to navigate.

Ms. Seitz stated that the next CAG meeting is February 14, 2019. She further stated that President Goldman will be presenting at the next TV-6 program on the Recycled Water Expansion Project Phase II Retrofits.

Ms. Seitz stated that staff is working on the newsletter which included emergency preparedness, DSC School program, water quality, H2O for HOA

event partnership, CA Water Professionals week, irrigation during the winter months, and rebates.

Ms. Seitz stated that staff will have potable water trailer and a booth at the 5K at the Lake Forest Sports Park on December 15th from 9:00 am to 11:00 am. She further stated that the District is a Gold Sponsor and will provide water for the runners/walkers, and the ETWD logo will be on their event t-shirts, website, and banner.

Ms. Seitz stated that staff had a booth at the South County Disaster Preparedness Expo in October, and will host as a joint effort that includes south county agencies each year in the fall.

Ms. Seitz stated that in November we hosted a Girl Scout Water Resources and Conservation Patch at the WRP. She further stated that Director Adjarian provided the welcome and introduction. There were tours and activities after the tour.

SOCWA Reports

President Goldman stated that he attended the SOCWA Board meeting. Director Adjarian stated that biosolids options were discussed.

Mr. Cafferty stated that he attended the PC-21 meeting where they discussed a repair to the Effluent Transmission Main at a crossing of Aliso Creek. He further stated that they also discussed a 10-year Plan.

Director Adjarian stated that the monthly financial reports were discussed at the SOCWA Finance meeting, and a presentation by SOCWA's financial advisor.

MWDOC

Vice President Vergara stated that at the MWDOC/MET Directors workshop there was a presentation by Bill Hanencamp on the Colorado River issues.

Vice President Vergara stated that at the MWDOC Planning/Operations meeting they discussed a presentation on WEROC emergency preparedness.

Director Monin stated that at the MWDOC Finance meeting the Auditors spoke about the Audit report, and budget schedule.

Mr. Hill stated that at the Managers meeting they discussed water supply conditions, and the Colorado River issues. He further stated that water supply reliability is still an ongoing topic.

LAFCO

Director Adjarian stated that they discussed a proposed 2018/19 work plan, the post revision to their Policies and Procedures, and a presentation on the Southern California Water Coalition.

SOCWMA

Director Monin stated that the Executive Committee discussed adding San Juan Basin to the voting parties. He further stated that recycled water reliability in southern Orange County was discussed.

ISDOC Meetings

Director Monin stated that they discussed his election to First Vice President and is now in charge of the head of programs and speakers. He further stated that they also discussed a change in lunch menu.

Director Monin stated that there is a letter from YLWD in favor of smaller districts getting a fairer share of paying costs. Mr. Hill added that they are looking for south county agencies to adopt a Resolution to pay their fair share of ISDOC dues.

Director Monin stated that Sandra Jacobs was elected to President and she asked to have less meetings, and he was in favor of leaving the meetings as they are, and others want to shorten the amount of meetings.

WACO Meetings

Vice President Vergara stated that there were two speakers to discuss Non-Compliant Systems in California, how agencies can help, and why.

City Coordination Efforts

There was no meeting.

Committee and General Information

There were no comments.

Dates to Remember

There were no comments.

Carry-Over Pending Matters

There were no comments.

Director Comments/Non-Agenda Items

Director Monin stated that after the Region 10 meeting he discussed with Mr. Hill some topics other agencies are working on and other areas we may be going.

Mr. Hill stated that we may schedule a Special Board meeting in January or February to discuss any necessary restructuring of the Board and possible Strategic Planning issues.

Director Adjarian stated that he has enjoyed working with the Board members and staff and thanked everyone for their assistance during the past 4 years as a Board Director.

Attorney Report

Mr. Granito reported that there is no need for a Closed Session today and therefore the Regular Session continued.

Mr. Granito reported that the SOCWA/MNWD PC-15 matter is currently in Phase 1 of the litigation which is a court trial (bench trial). Phase II of the litigation will be a jury trial.

Adjournment

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

Motion: Director Vergara moved, seconded by Director Monin and unanimously carried that today's meeting be hereby adjourned at 9:25 o'clock a.m. to Thursday, December 20, 2018 at 7:30 o'clock a.m. at the District's Administrative Offices, 24251 Los Alisos Blvd., Lake Forest, California.

Roll Call Vote:

Director Adjarian	aye
Director Monin	aye
Director Freshley	aye
Vice President Vergara	aye
President Goldman	aye

Respectfully submitted,

POLLY WELSCH
Recording Secretary

APPROVED:

M. SCOTT GOLDMAN, President of
the El Toro Water District and the
Board of Directors thereof

ROBERT R. HILL, Secretary
of the El Toro Water District and
the Board of Directors thereof

Polly Welsch

From: Urban Water Institute <admin@urbanwater.ccsend.com> on behalf of Urban Water Institute <stacy@stacy-davis.com>
Sent: Thursday, November 29, 2018 2:33 PM
To: Polly Welsch
Subject: Don't Forget To Register For Urban Water Institute's Spring Water Conference!



SAVE THE DATE!

Please Join Us For The Urban Water Institute
Spring Water Conference On February 27-March 1, 2019!

Palm Springs Hilton Hotel
400 East Tahquitz Canyon Way || Palm Springs, CA 92262
(760) 320-6868

www.urbanwater.com

Conference Registration:

\$425

UWI Member Registration Fee

(Current members of UWI)

\$525

Non-Member Registration Fee

[Click here to register for
UWI's Spring Water
Conference!](#)

Hotel Information:

The Palm Springs Hilton Hotel is offering a special conference rate of \$160. To make your room reservation call The Hilton Palm Springs Hotel directly at (760) 320-6868 and reference Urban Water Institute.

Please note the cut-off date for the group rate is January 29, 2019.

Exhibitor Opportunities:

Please join the UWI Spring Conference as an Exhibitor! This is a great opportunity to promote your resources and services to UWI agencies, decision makers and all conference attendees.

[Click here to become an exhibitor!](#)

Sponsorship Opportunities:

The UWI conference sponsors are essential to our success! Your name and logo will be featured in the program, on displays and projected on presentation screens.

[Click here to become a sponsor!](#)

****The Draft Agenda will be released soon****

For more information please contact the Urban Water Institute at (949) 679-9676 or stacy@urbanwater.com

Please visit our website at www.urbanwater.com

Urban Water Institute | 24651 Evereve Circle, Suite 1, Lake Forest, CA 92630

[Unsubscribe pwelsch@etwd.com](mailto:Unsubscribe_pwelsch@etwd.com)

[About our service provider](#)

Sent by stacy@stacy-davis.com in collaboration with

Constant Contact 

Try it free today

EXHIBITORS & SPONSORSHIP PROSPECTUS

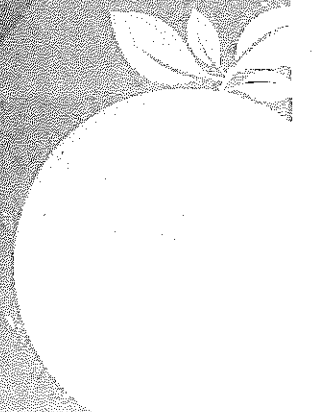
California Annual Conference



WATERREUSE



HYATT REGENCY ORANGE COUNTY
GARDEN GROVE, CALIFORNIA



Schedule: At a Glance

Sunday, March 17, 2019	
12:00 p.m. – 5:30 p.m.	Registration
9:00 a.m. – 2:00 p.m.	Exhibitor Set-Up
1:00 p.m. – 3:00 p.m.	Technical Sessions
3:00 p.m. – 3:30 p.m.	Networking Break in the Exhibit Hall
3:00 p.m. – 6:30 p.m.	Exhibit Hall Open
3:30 p.m. – 5:00 p.m.	Technical Sessions
5:00 p.m. – 6:30 p.m.	Welcome Reception in the Exhibit Hall
Monday, March 18, 2019	
7:30 a.m. – 3:30 p.m.	Registration
7:30 a.m. – 3:30 p.m.	Exhibit Hall Open
7:30 a.m. – 8:30 a.m.	Continental Breakfast in the Exhibit Hall
8:30 a.m. – 9:30 a.m.	Opening Session
9:30 a.m. – 10:00 a.m.	Networking Break in the Exhibit Hall
9:30 a.m. – 10:00 a.m.	Poster Sessions
10:00 a.m. – 12:00 p.m.	Technical Sessions
12:00 p.m. – 1:30 p.m.	Awards Luncheon and Annual Membership Meeting
1:30 p.m. – 3:30 p.m.	Technical Sessions
3:00 p.m. – 3:30 p.m.	Networking Break in the Exhibit Hall
3:00 p.m. – 3:30 p.m.	Poster Sessions
3:30 p.m. – 5:00 p.m.	Technical Sessions
5:30 p.m. – 7:30 p.m.	President's Reception
Tuesday, March 19, 2019	
8:00 a.m. – 12:00 p.m.	Registration
8:00 a.m. – 9:30 a.m.	Gordon Cologne Breakfast
9:30 a.m. – 12:00 p.m.	Exhibit Hall Open
9:30 a.m. – 10:00 a.m.	Networking Break in the Exhibit Hall
10:00 a.m. – 12:00 p.m.	Technical Sessions
12:00 p.m. – 2:00 p.m.	Town Hall Session and Luncheon
2:00 p.m. – 4:00 p.m.	Exhibitor Break-Down

RESOLUTION NO. 18-12-1

**RESOLUTION OF THE BOARD OF DIRECTORS
OF THE ELTORO WATER DISTRICT
RE-ESTABLISHING DATE, TIME, AND PLACE OF
REGULAR BOARD MEETINGS AND
BOARD/ENGINEERING & FINANCE/INSURANCE COMMITTEE
MEETINGS OF THE BOARD OF DIRECTORS
FOR CALENDAR YEAR 2019**

RESOLVED, that Resolution No. 18-11-1 re-establishing the District's regular meeting place, date and time is hereby rescinded effective January 1, 2019; and

RESOLVED FURTHER, that the regular 2019 Board meetings and Board/Engineering & Finance/Insurance Committee meetings of the Board of Directors of the El Toro Water District shall be held at the Administrative Offices of the El Toro Water District located at 24251 Los Alisos Boulevard, El Toro, California as set forth in Attachment "A" to this Resolution unless otherwise changed by this Board by appropriate Resolution:

RESOLVED FURTHER, that in 2019, and every year thereafter the Agenda Review meetings, the RRC meetings, and the CAG meetings shall be held on the dates/times set forth in Attachment "A" to this Resolution, unless otherwise changed by this Board by appropriate resolution.

ADOPTED, SIGNED AND APPROVED, this 20th day of December 2018.

M. SCOTT GOLDMAN, President
El Toro Water District and of the
Board of Directors thereof

(SEAL)

ATTEST:

ROBERT R. HILL, Secretary
El Toro Water District and of
the Board of Directors thereof

STATE OF CALIFORNIA)
)
COUNTY OF ORANGE)

I, ROBERT R. HILL, 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. 18-12-1 of said Board, and that the same has not been amended or repealed.

DATED: December 20, 2018

ROBERT R. HILL, Secretary
El Toro Water District and of
the Board of Directors thereof

(SEAL)

ETWD SCHEDULED MEETINGS 2019
EFFECTIVE JANUARY 1, 2019

REGULAR BOARD MEETINGS

Board & E & F/I Committee Meetings (1)

Board Meetings

1.	January 21, Monday	7:30 a.m.	January 22, Tuesday	7:30 a.m.
2.	February 26, Tuesday	7:30 a.m.	February 28, Thursday	7:30 a.m.
3.	March 26, Tuesday	7:30 a.m.	March 28, Thursday	7:30 a.m.
4.	April 23, Tuesday	7:30 a.m.	April 25, Thursday	7:30 a.m.
5.	May 21, Tuesday	7:30 a.m.	May 23, Thursday	7:30 a.m.
6.	June 25, Tuesday	7:30 a.m.	June 27, Thursday	7:30 a.m.
7.	July 23, Tuesday	7:30 a.m.	July 25, Thursday	7:30 a.m.
8.	August 20, Tuesday	7:30 a.m.	August 22, Thursday	7:30 a.m.
9.	September 24, Tuesday	7:30 a.m.	September 26, Thursday	7:30 a.m.
10.	October 22, Tuesday	7:30 a.m.	October 24, Thursday	7:30 a.m.
11.	November 25, Monday	7:30 a.m.	November 26, Tuesday	7:30 a.m.
12.	December 17, Tuesday	7:30 a.m.	December 19, Thursday	7:30 a.m.

(1) Engineering & Finance/Insurance Committee (E & F/I Committee)

NOTE: January meetings date changes.

AGENDA REVIEW MEETINGS (at 7:30 a.m.)

1. January 15, Tuesday
2. February 19, Tuesday
3. March 19, Tuesday
4. April 16, Tuesday
5. May 14, Tuesday
6. June 18, Tuesday
7. July 16, Tuesday
8. August 13, Tuesday
9. September 17, Tuesday
10. October 15, Tuesday
11. November 19, Tuesday
12. December 10, Tuesday

REGIONAL RECLAMATION COMMITTEE
MEETINGS @ 7:30 a.m.**

1. January 2, Tuesday
2. February 5, Tuesday
3. March 5, Tuesday
4. April 2, Tuesday
5. April 30, Tuesday
6. June 4, Tuesday
7. July 9, Tuesday
8. July 30, Tuesday
9. September 3, Tuesday
10. October 1, Tuesday
11. November 5, Tuesday
12. December 3, Tuesday

COMMUNITY ADVISORY GROUP
MEETINGS @ 11:30 a.m.

1. February 14, Thursday
2. May 9, Thursday
3. August 8, Thursday
4. November 14, Thursday

** Meeting dates subject to change depending on SOCWA's Board meeting dates

SCHEDULED COMMITTEE, CONFERENCE AND ORGANIZATIONAL MEETINGS 2019

Association of California Water Agency/Joint Powers Insurance Authority (ACWA/JPIA)

ACWA/JPIA holds conference twice a year.

ETWD Community Advisory Group (CAG) Meeting

CAG Meets quarterly on Thursdays @ 11:30 a.m.
(Starting with February – on the second Thursday of the month)

ETWD Regional Reclamation Committee (RRC)

The RRC Committee meets on the Tuesday prior to SOCWA Board meetings at 7:30 a.m.

Independent Special Districts of Orange County (ISDOC)

ISDOC has quarterly meetings. (Dates may vary).

Local Agency Formation Commission of Orange County (LAFCO)

LAFCO meets monthly on the second Wednesday @ 8:00 a.m.

South Orange County Water Authority (SOCWA)

SOCWA Board meets on the first Thursday of the month at 8:30 a.m.

Water Advisory Committee of Orange County (WACO)

WACO meets the first Friday of the month at 7:30 a.m.

El Toro Water District Holiday Policy

The District is committed to maintaining benefits and compensation rates that are competitive within the local water and wastewater industry. Each year staff performs compensation and benefit surveys to evaluate current benefits and compensation relative to other water agencies in South Orange County.

A comparative analysis was completed on the number of compensated holidays per year each neighboring agency grants their employees. Staff's survey of holiday benefits included eight (8) similar agencies in South Orange County (shown in the table below) and an additional seven (7) agencies that are in North Orange County and the Inland Empire. (Exhibit 1 Attached)

District	Holidays
ETWD	10
IRWD	12
LBCWD	12
MESA	13
MNWD	11
OCWD	11
SCWD	10
SMWD	10.5
MWDOC	11
AVERAGE	11.3125

The current El Toro Water District Employee Handbook, Section V, Benefits, Holidays, provides for all regular full-time and regular part time employees ten (10) holidays per year. (Exhibit 2 Attached)

The District observes the following standing holidays each year:

New Year's Day	Labor Day
President's Day	Thanksgiving Day
Memorial Day	Day after Thanksgiving
Independence Day	Christmas Day

In addition, one (1) floating holiday and the Employee's Birthday.

Conclusion:

Providing an additional holiday to staff will allow the District to remain competitive with similar agencies with whom the District competes for talented labor. Maintaining a competitive compensation and benefits package is crucial to the success of the District's employee retention and employee succession plan.

There is no impact to the labor budget.

Recommended Action:

Staff recommends that the Board of Directors consider revising Section V – Benefits – Holidays of the Employee Handbook adding and observing Veteran's day as an additional employee holiday.

By: Judy Cimorell, Human Resources Manager

EXHIBIT 1 2018 Standing Holidays

District	Holidays
ETWD	10
IRWD	12
LBCWD	12
MESA	13
MNWD	11
OCWD	11
SCWD	10
SMWD	10.5
MWDOC	11
AVERAGE	11.3125
OCSD	12
Walnut Valley WD	13
YLWD	11
Eastern Municipal	12
Chino Basin	12
Riverside County	14
WMWD	13
TOTAL AVERAGE	12.5

	ETWD	IRWD	LBCWD	Mesa	MNWD	OCWD	SCWD	SMWD	MWDOC
New Year's Day	X	X	X	X	X	X	X	X	X
Martin Luther King's Bday			X	X					
President's Day	X	X	X	X	X	X	X	X	X
Good Friday		X							
Memorial Day	X	X	X	X	X	X	X	X	X
Independence Day	X	X	X		X	X	X	X	X
Day Before or Day After Indep Day								X	
Labor Day	X	X	X	X	X	X	X	X	X
Veteran's Day			X	X	X	X			X
Thanksgiving Day	X	X	X	X	X	X	X	X	X
Day After Thanksgiving		X	X	X		X			
Christmas Eve		X		X		X		X (1/2 Day)	
Christmas Day	X	X	X	X	X	X	X	X	X
Day after Christmas									
New Year's Eve		X		X				X	
Birthday	X				X				
Floater (Day After Thanksgiving)	X				X				
Floater	X	X	X	X	X	X	X	X	X
	10	12	12	13	11	11	10	10 1/2	11

Exhibit 2

Current & Revised El Toro Water District Holiday Policy

Holidays

All regular full-time employees and regular part-time employees who work a minimum of 30 hours are eligible for holiday pay subject to the conditions below. Regular part-time employees who are scheduled to work less than 30 hours per week will be eligible for holiday hours on a pro-rated basis and their regular work schedule.

The District observes the following paid holidays:

New Year's Day	Thanksgiving Day
President's Day	The Day after Thanksgiving
Memorial Day	Christmas Day
Independence Day	The Employee's Birthday
Labor Day	Floating Holiday*
Veteran's Day	

*The Floating Holiday will be selected by the employee and approved by their Supervisor at least two weeks in advance of taking the day off. Floating Holidays must be used prior to the last day of the calendar year.

When a holiday falls on a Saturday or Sunday, it is usually observed on the preceding Friday or the following Monday. However, the District may grant another day off in lieu of closing. Holiday observance will be announced in advance.

If a holiday occurs during vacation, an employee's vacation time will not be charged for that day.

To be eligible for holiday pay, you must be regularly scheduled to work on the day on which the holiday is observed and must work your regularly scheduled working days immediately preceding and immediately following the holiday, unless an absence on either day is approved in advance by your supervisor or the absence is otherwise protected by law. If you are a non-exempt employee, and are required to work on a paid scheduled holiday, the employee will be paid overtime wages at one and one-half times the employee's hourly rate. In addition, the employee will be entitled to compensation for the recognized holiday

When one of the District's holidays as outlined above, falls on a closed Friday, that holiday will then be used as an additional floating holiday for that calendar year.

A holiday schedule will be released at the beginning of each year observing all holidays and any additional floating holidays to be taken that calendar year.

RECEIVED

DEC 03 2018

EL TORO
WATER DISTRICT

BOARD OF DIRECTORS PER DIEM SURVEY
(as of November 12, 2018)

AGENCY	PER DIEM MEETING	EFFECTIVE DATE	MAXIMUM MEETINGS PER MONTH
El Toro Water District	\$219.00	March 2018	10
Irvine Ranch Water District	\$286.00	January 2019	10
Mesa Water District	\$264.00	July 2017	10
Moulton Niguel Water District	\$220.00	September 2016	10
Municipal Water of Orange County	\$296.99	January 2018	10
Orange County Water District	\$288.00	April 2018	10
Santa Margarita Water District	\$210.00	February 2009	10
South Coast Water District	\$190.00	January 2006	10
Yorba Linda Water District	\$150.00	January 2003	10

GENERAL MANAGER'S REPORT

December 2018

I. OFFICE OF THE GENERAL MANAGER

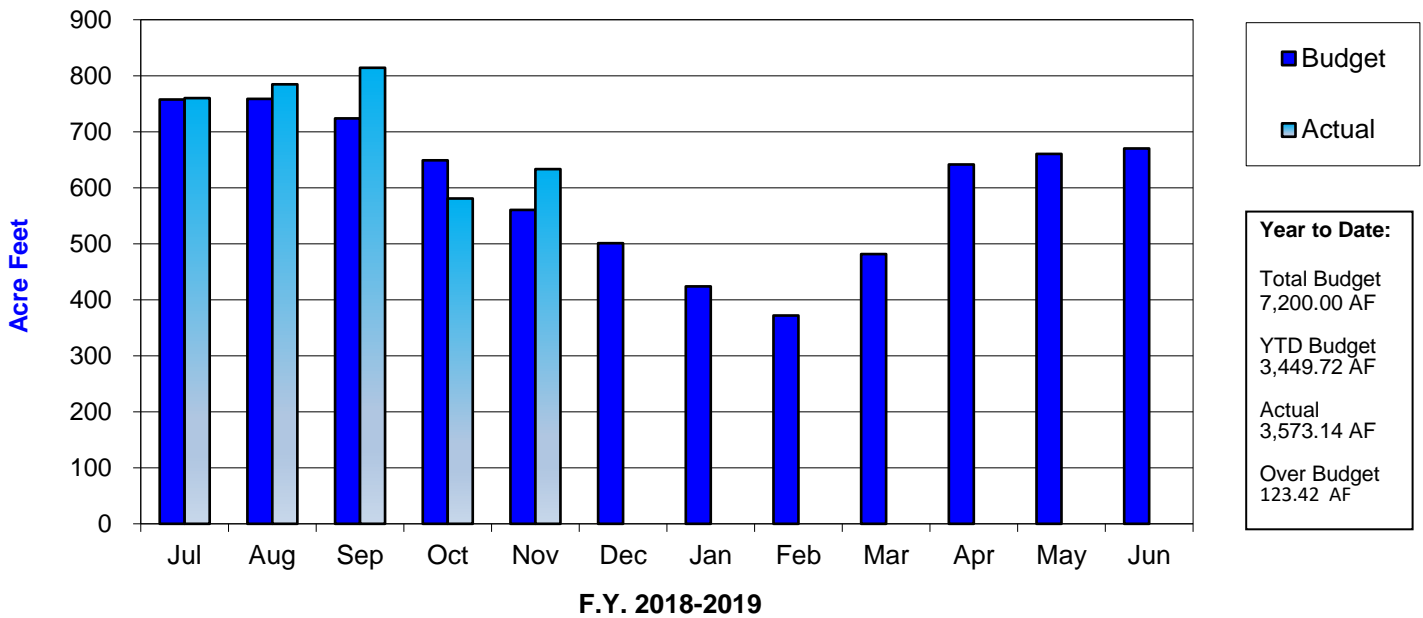
- Attended ACWA Fall Conference
- Attended Chair/GM Meetings
- Attended Board Luncheon
- Attended MWDOC Elected Officials Forum
- Attended Meeting with Dan Ferons & Don Bunt of SMWD Regarding Projects
- Attended Agenda Review
- Attended Meeting with Jerry Villander of Serrano Water District Regarding Projects
- Attended South Orange County Agencies Meeting
- Attended Meeting with Paul Schoenberger of Mesa Water District Regarding Projects
- Attended Engineering & Finance Committee Meetings
- Attended Regular Board Meeting

II. DOMESTIC AND RECYCLED WATER SALES

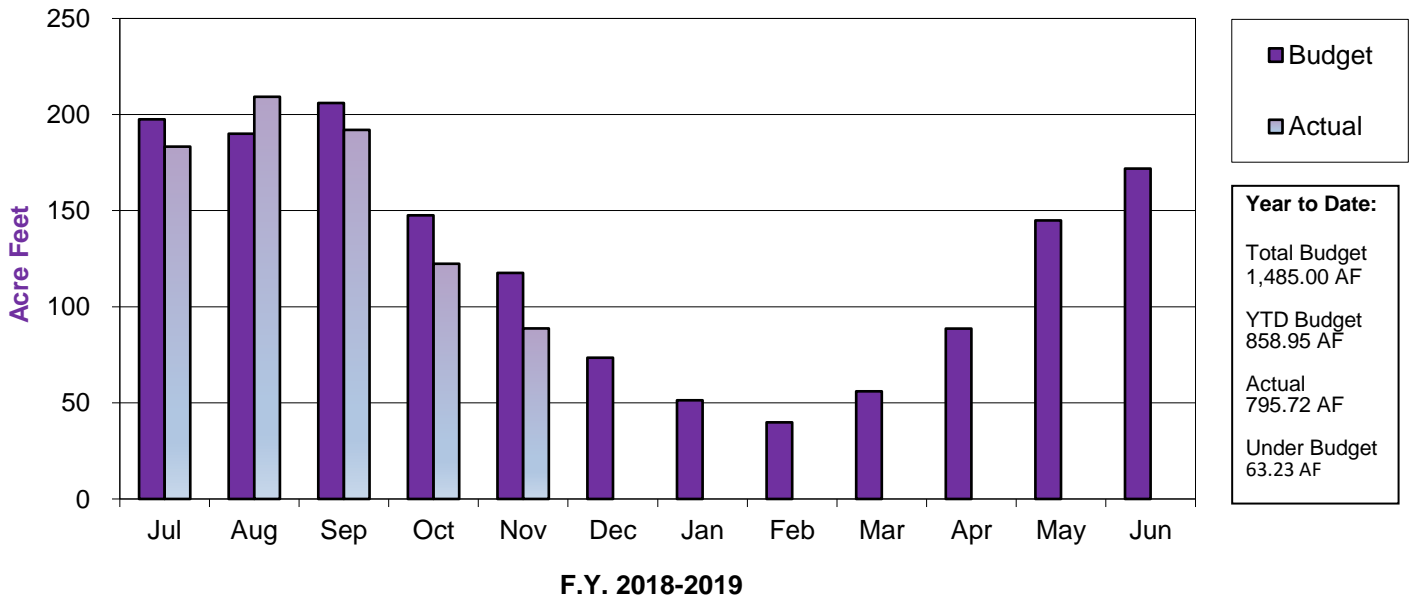
Actual domestic sales for the year-to-date as of November 30, 2018 are 3,573.14 acre-feet. This compares to year-to-date budgeted domestic sales of 3,449.72 acre-feet. The year-to-date variation in actual to budgeted sales reflects an increase of 123.42 acre-feet. Actual sales are 4.69 acre-feet higher than last year-to-date actual sales for the same period.

Actual recycled sales for the year-to-date as of November 30, 2018 are 795.72 acre-feet. This compares to year-to-date budgeted recycled sales of 858.95 acre-feet. The year-to-date variation in actual to budgeted sales reflects a decrease of 63.23 acre-feet. Actual sales are 9.7 acre-feet higher than last year-to-date actual sales for the same period.

POTABLE WATER SALES



RECYCLED WATER SALES

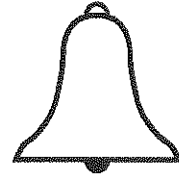


Customer Service Activity Report

NOV 2018

Regular Service Calls	NOV 2018	NOV 2017	Telephone Calls	NOV 2018	NOV 2017
Serviceman Dispatched to Read, Connect/Disconnect Service	57	57	Change of Service: Connections and Disconnections	56	78
Field Investigations:			Billing / Payments & Graph Inquires	188	495
Check for leaks - calls to CS Office:(irrigation,meter,street leaks)			Assistance with online payments and ETWD's portal (cc, e-checks)	87	202
Customer Responsible	26	18	Variance / Waiver Inquiries	37	98
District Responsible	1	16	Variance / Waiver Requests Processed	7	11
None found/other	10	5	Ordinance Infraction / Water Waste Complaints	1	1
High Reads Checked - High Consumption (Billing Dept.)	23	12			
Cust Leaks: _11_ No Leaks: _12_			Outside Utility Districts	77	160
Check Stopped Slowed Meters-Low Consumption (Billing)	8	12	Phone calls Transfer to other Departments within ETWD	97	211
Re-Check Read	5	7	phone calls for the Board of Directors	14	3
Ordinance Infraction	1	1	Recycled Water	1	0
Recycled Water	0	0	Water Quality Taste - Odor - Color	3	2
Water Quality: Taste / Odor / Color	0	1	Leaks / Breaks	19	89
Phone response: ___ Field response: ___			Flooding Meter calls (Hydrant)	3	9
Flooding (Hydrant) Meters issued	2	1	Sewer Problems (odor / spills)	4	3
Sewer - Odor/Stoppage/ Manhole Covers	6	2			
Meter Box: Lids / Covers Replaced	12	19	Backflow / Cross Connection (questions or yearly testing forms)	3	5
Meter Box Clean, Digout	4	14	ETWD facilities inquiries: Boxes/Covers/Lids/Hydrants/Pump Stations/Graffiti/ "Gen. Maint"	1	9
Raised Meter Box					
Trim Bushes / Meter Obstruction	6	7	Tyco (ADT) Calls (Alarms to ETWD facilities)	6	2
General Maintenance Response	9	7	ATT Calls (access to tower sites)	1	4
Fire Hydrants: Hit / Leaks / Caps	1	0	SCE Calls (access to tower sites)	0	4
Pressure(psi) Checks / Reads	0	3	Pager Calls specifically for Pump Stations - SCADA	3	1
CSSOV (Angle Meter/Ball Valve/Gate Valve/Globe Valve) chk,repair,replaced	8	10			
AMS angle-meter-stop replace/repair	0	0	Payment Extensions	64	172
Bees Removed	0	5	Delinquent Payment Calls to Customer 's prior to shut off per billing calendar (automatic courtesy dialer)	79	39
Backflow / Cross Connection	6	2	Return Calls from customers left on our voice mail system. Ext 500	13	42
	54	0	Email Correspondence:	68	365
Fogged Registers			Maintenance Service Order Requests (bees, psi, fogged-dirty registers)	1	7
OMCOP: Old Meter Change - Out Program	0	17	Misc. (other: employment, deliveries, sales calls)	44	0
calls)	6	11			
On-Call After Hrs. CS Response	17	21			
# 48/24 Hr. Door Hangers Hung	184	165			
# Locked Off For Non-Pay (Disconnect)	14	14			
Removed Meter	1	9			
New Meter	11	0			
Unread Meters	20	3			
Total Field Investigations	492	442	Total Telephone Calls	877	2012
Uncollectible Accounts:			Credit Card Payments	NOV 2018	NOV 2017
Budget YTD	\$ 8,333.00	\$8,333	REGULAR	663 \$74,835.25	604 \$66,246.67
Actual YTD	\$ 399.00	\$8,688	DISCONNECTS		

Santa Margarita Water District



MEMORANDUM

TO: South County Group

DATE: December 11, 2018

FROM: Dan Ferons

SUBJECT: Initial Response on Storage Goals

Discussion:

Santa Margarita Water District proposed the formation of a South County Storage Coalition and requested agencies to provide a goal or target number that they would be interested in for domestic water reliability. The following table is the initial responses:

South Orange County	
Agency	Estimated Storage Goal (AF)
Santa Margarita Water District	12,000
El Toro Water District	500
Trabuco Canyon Water District	240
San Juan Capistrano	1,000
San Clemente	25
Emerald Bay Service District	200
Total	13,965

The District will be contacting agencies to set up a follow up meeting on how to proceed.

**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:		November		YEAR : 2018	
CONSTITUENT ANALYSIS	MCL	INSIDE LAB		OUTSIDE LAB	
		NO.	RESULTS	NO.	RESULTS
1 Microbiological	Pres/Absence	150(A)	Pres/Absence		Average
2 Chlorine (ppm)	Detectable Resid	208	Average = 1.18 ppm		
3 TTHM (ppb) (Stage 2)	0.080 ppb		N/A		ppb
3 HAA5 (ppb) (Stage 2)	0.060 ppb		N/A		ppb
4 Physical Quality:			RANGE		
Turbidity (ppm)	5 NTU	20	0.00 to 0.04		
Odor	3 Units	20	ND<1		
Color	15 Units	20	ND<5		
Temperature	No standard	20	64.9°F To 77.0°F		
5 Nitrite (Alert/Action level)ppm	0.015 to 0.030 ppm	99	0.000 to 0.005 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

MICROBIOLOGICAL MONITORING

NOVEMBER 2018

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

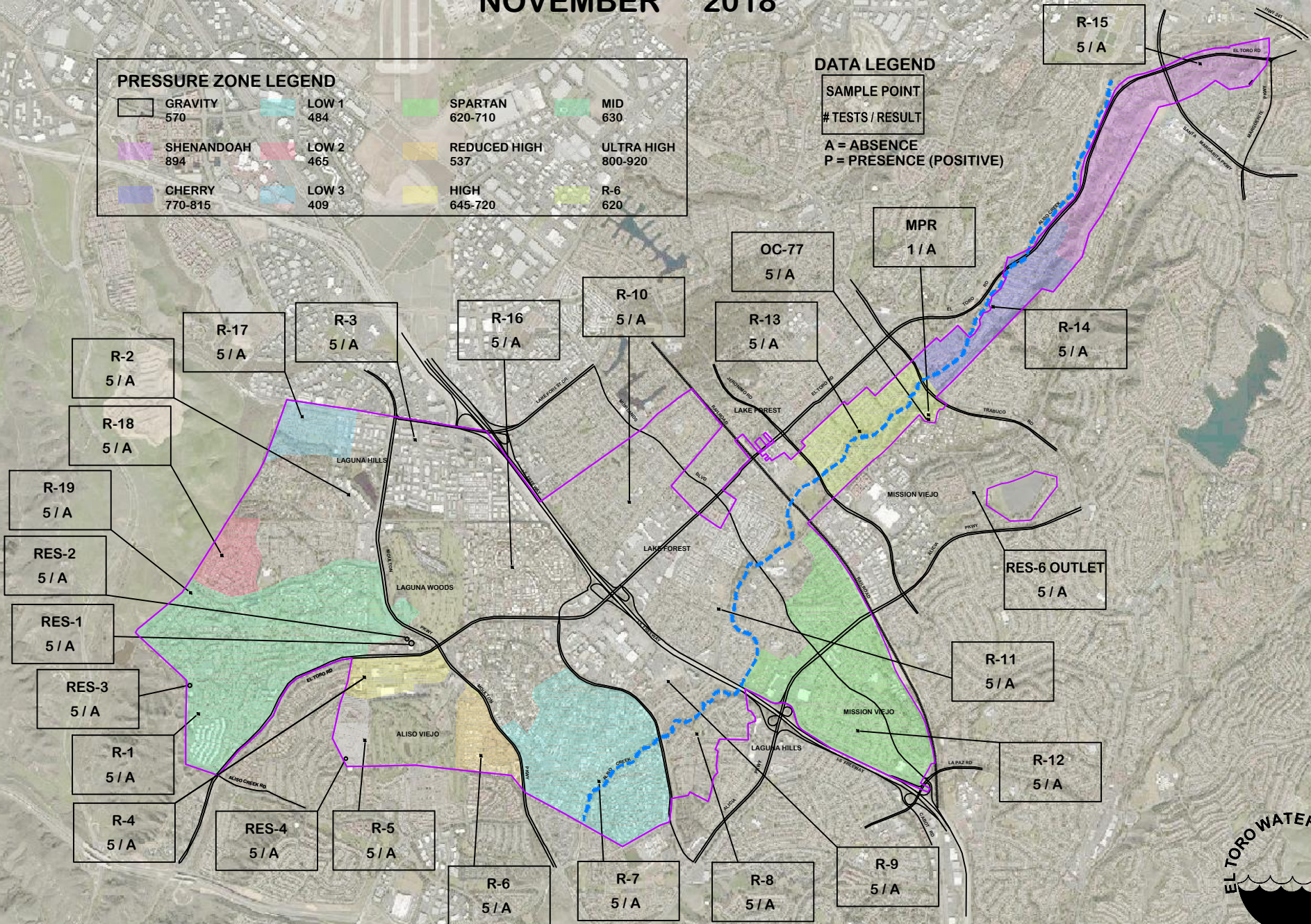
DATA LEGEND

SAMPLE POINT

TESTS / RESULT

A = ABSENCE

P = PRESENCE (POSITIVE)

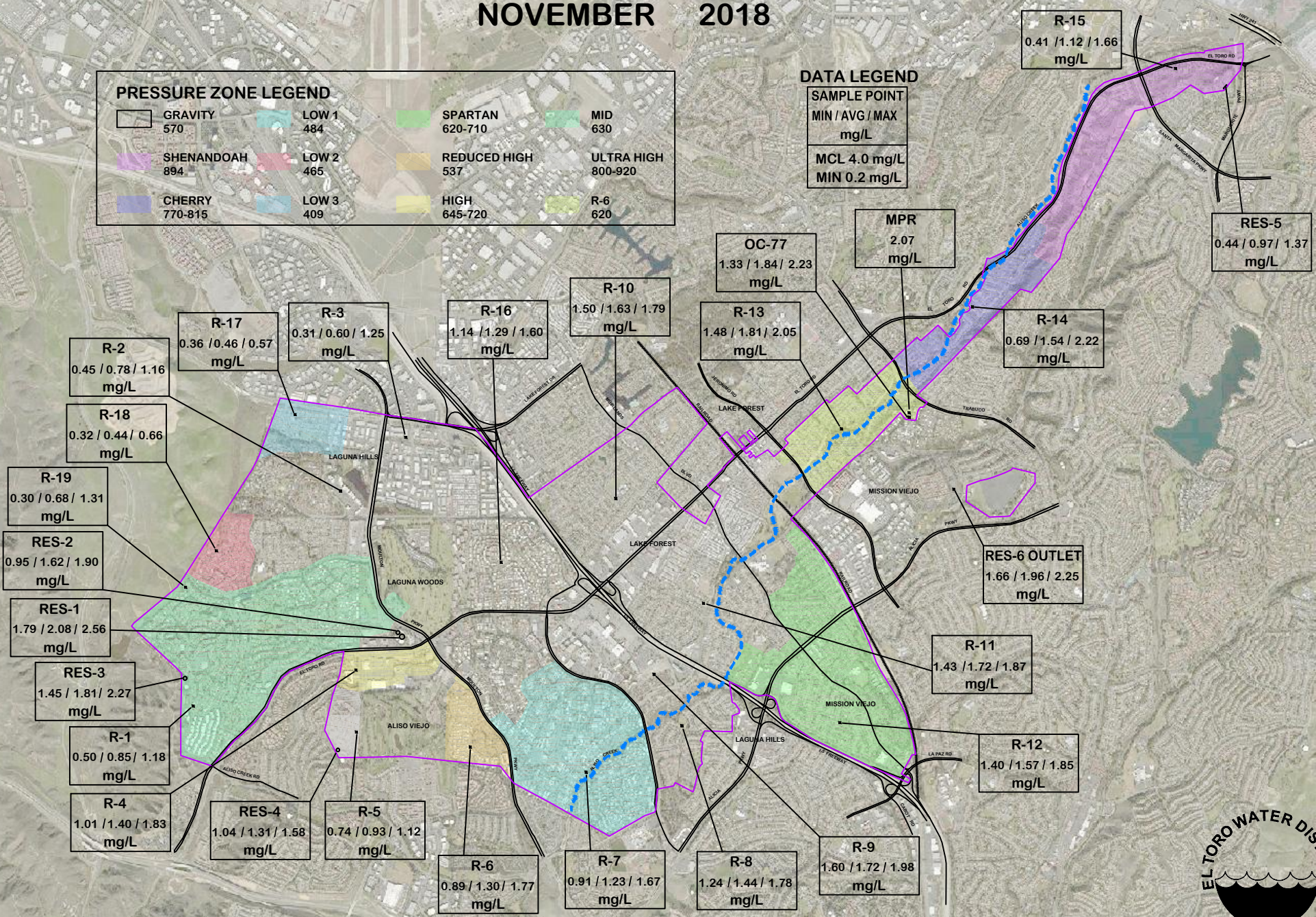


CHLORINE RESIDUAL MONITORING

NOVEMBER 2018

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



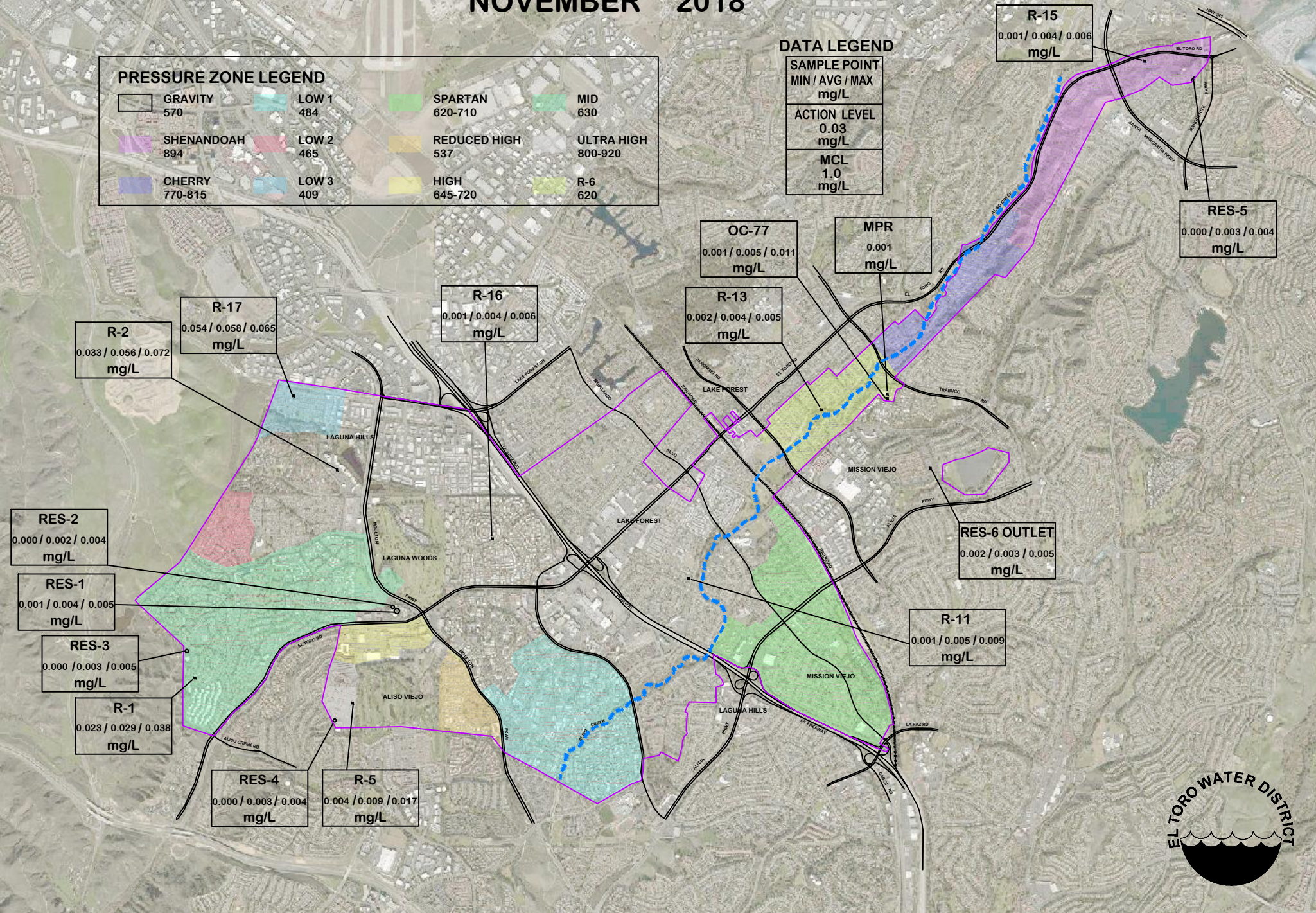
NITRITE MONITORING

NOVEMBER 2018

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



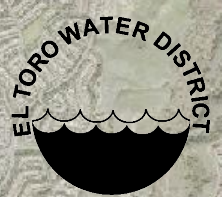
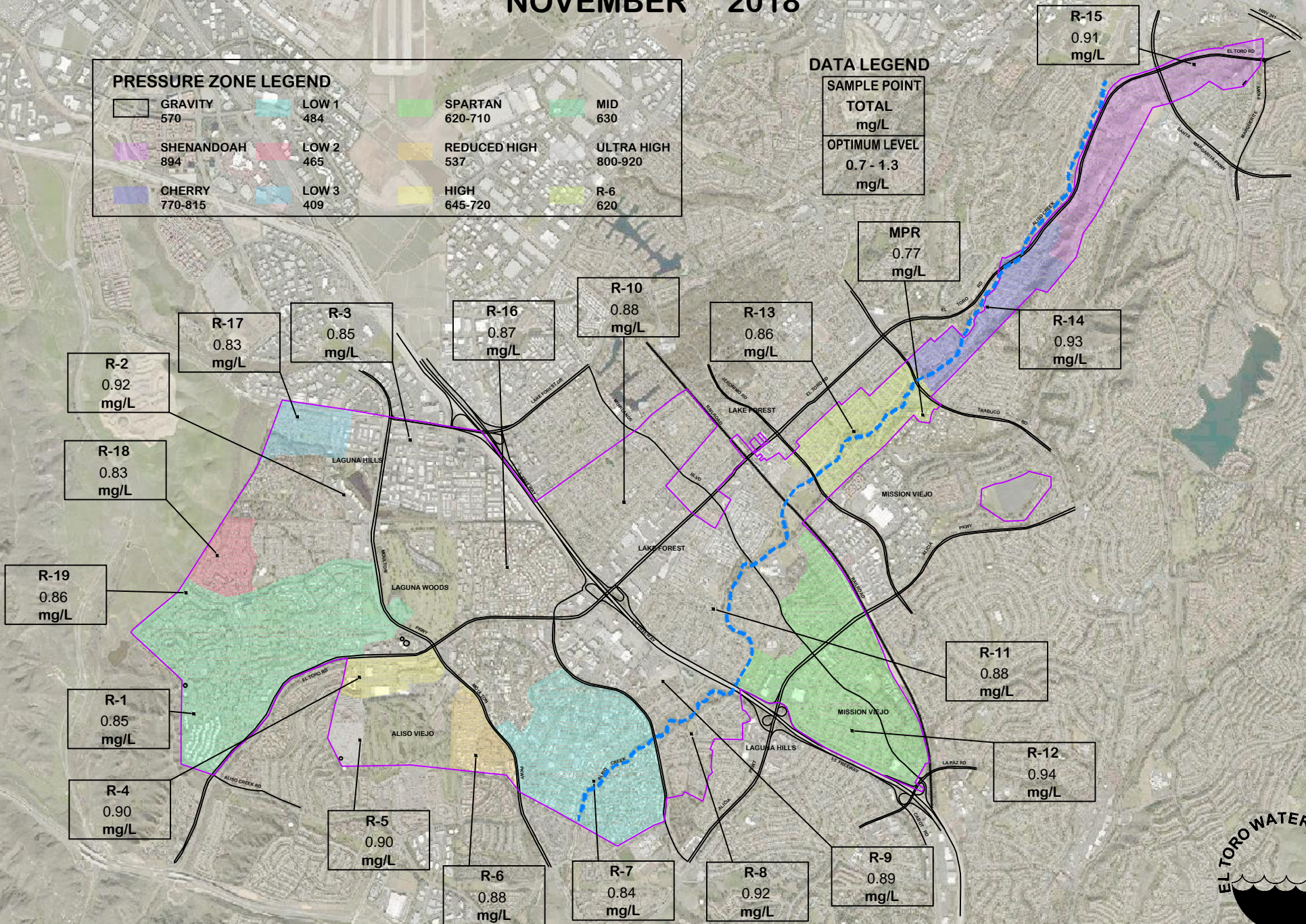
FLUORIDE MONITORING

NOVEMBER 2018

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



Weekly Water Quality System Status

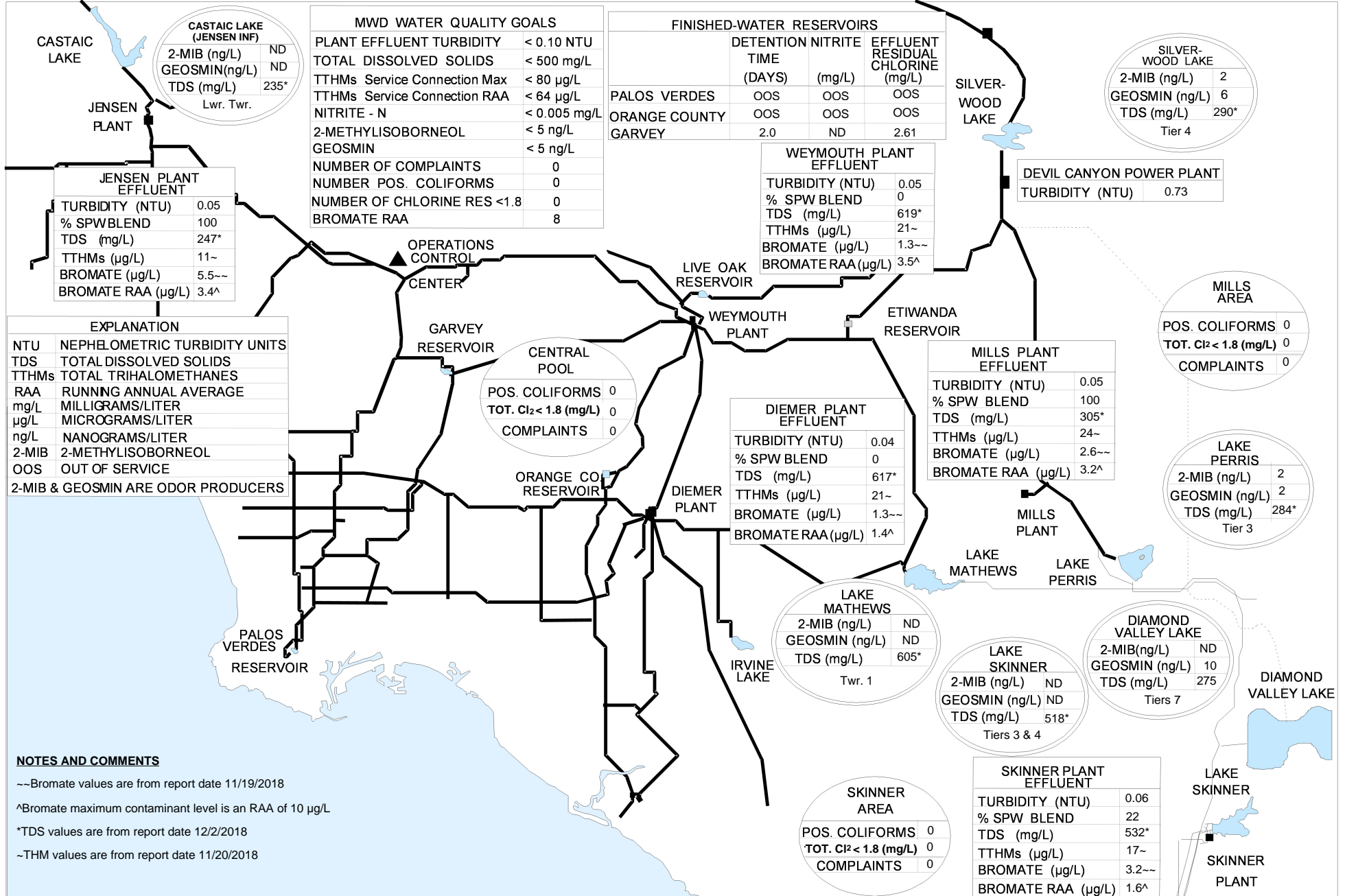
Wednesday, December 05, 2018

Generated On:12/5/2018 3:38:15 PM



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

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



EXPLANATION

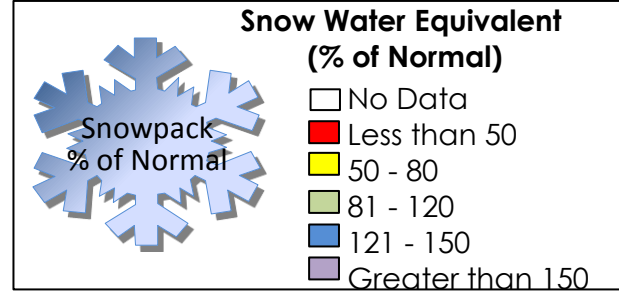
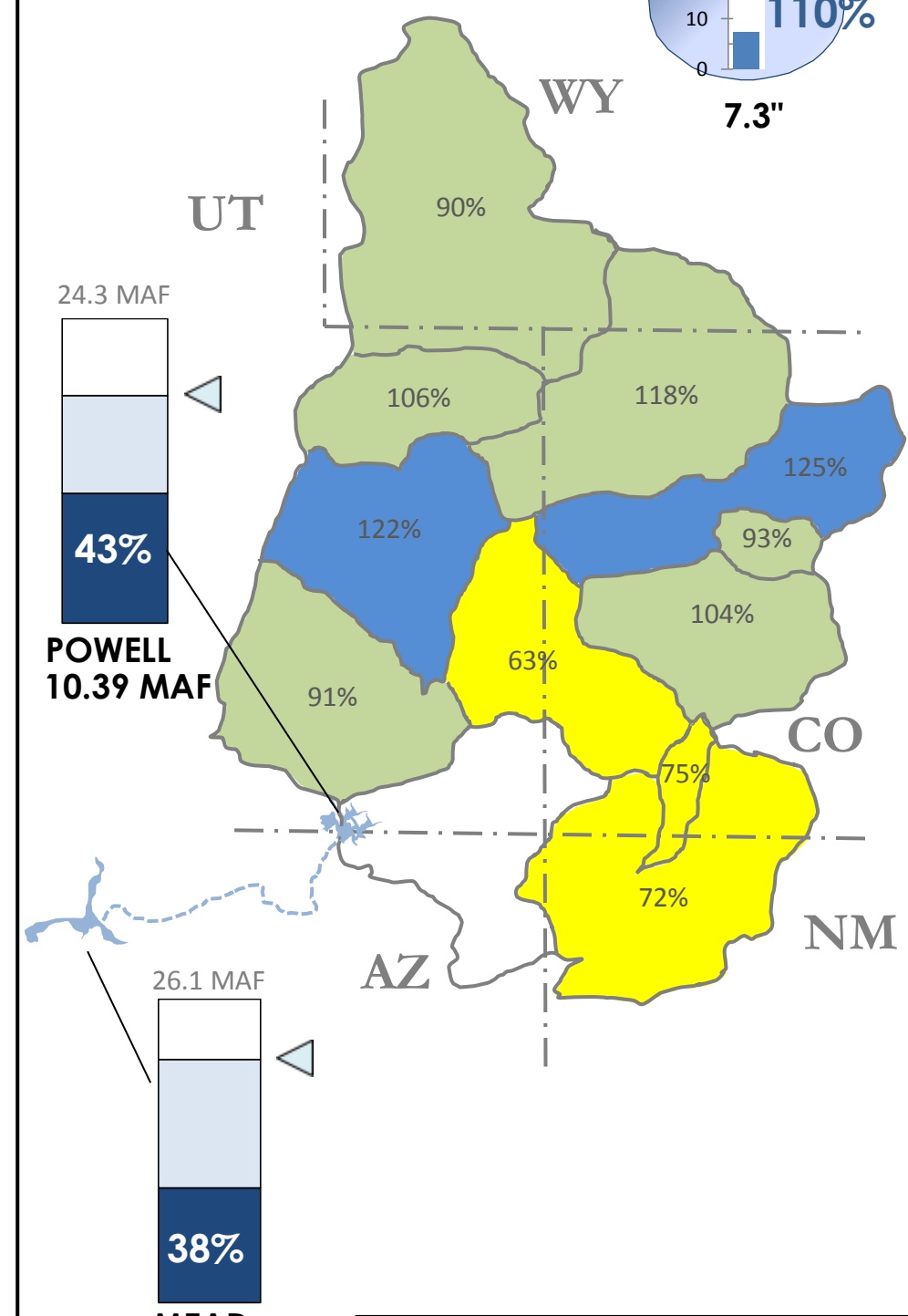
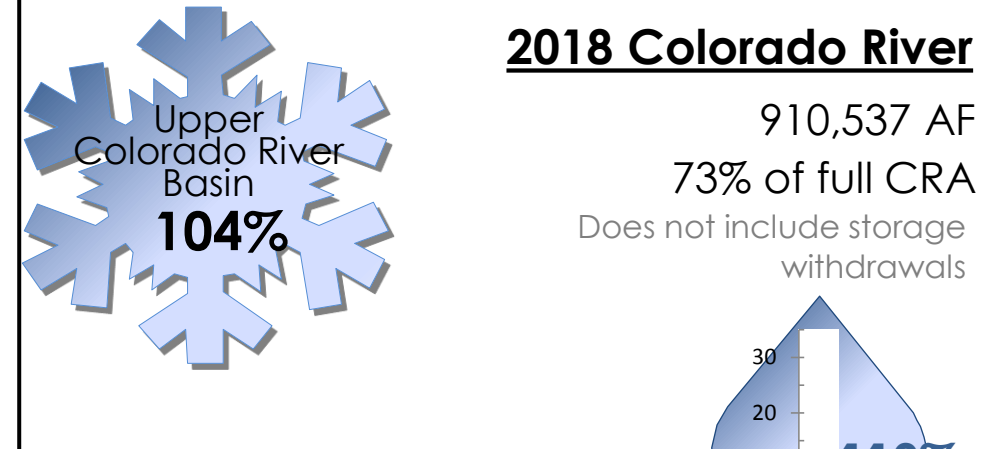
NTU	NEPHELOMETRIC TURBIDITY UNITS
TDS	TOTAL DISSOLVED SOLIDS
TTHMs	TOTAL TRIHALOMETHANES
RAA	RUNNING ANNUAL AVERAGE
mg/L	MILLIGRAMS/LITER
µg/L	MICROGRAMS/LITER
ng/L	NANOGRAMS/LITER
2-MIB	2-METHYLISOBORNEOL
OOS	OUT OF SERVICE
2-MIB & GEOSMIN ARE ODOR PRODUCERS	

NOTES AND COMMENTS

- ~~Bromate values are from report date 11/19/2018
- ^Bromate maximum contaminant level is an RAA of 10 µg/L
- *TDS values are from report date 12/2/2018
- ~THM values are from report date 11/20/2018

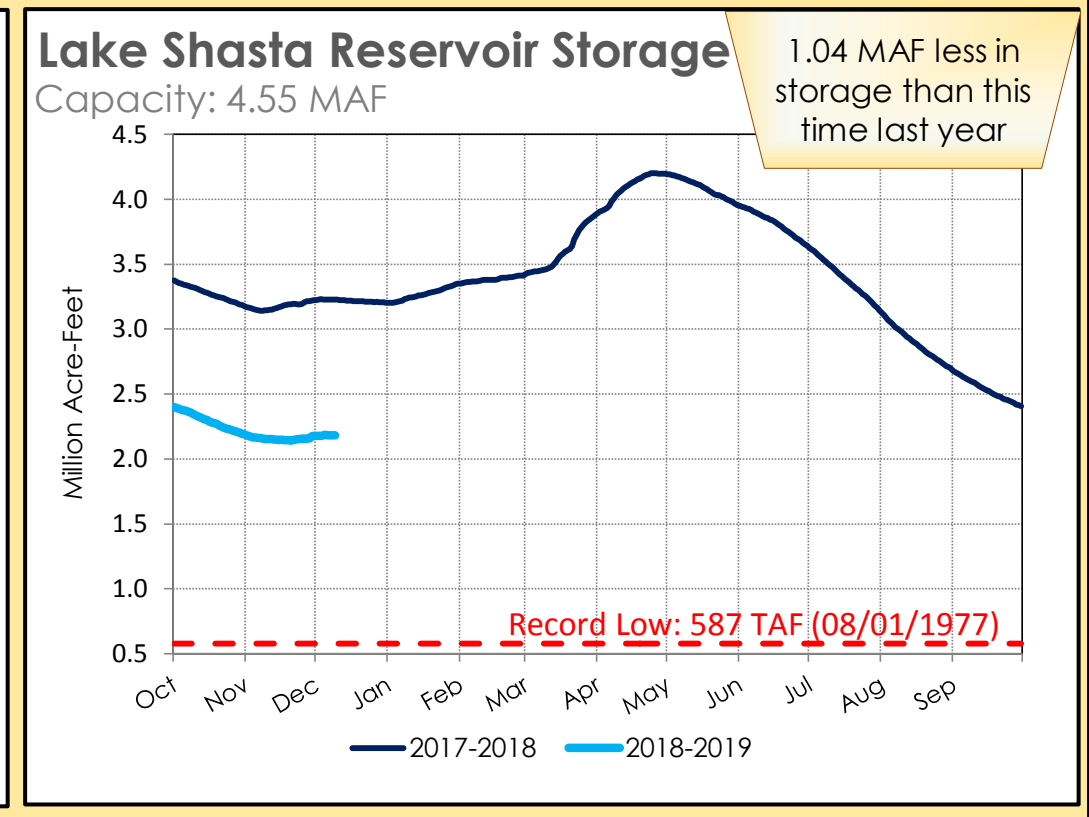
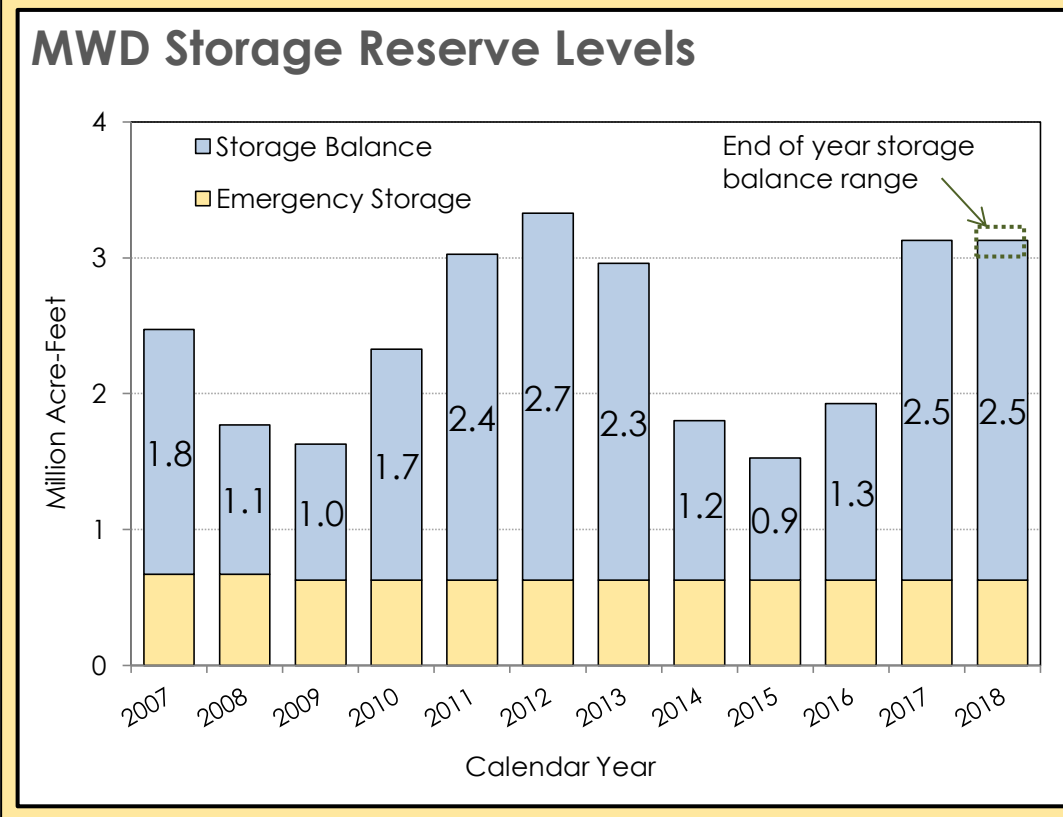
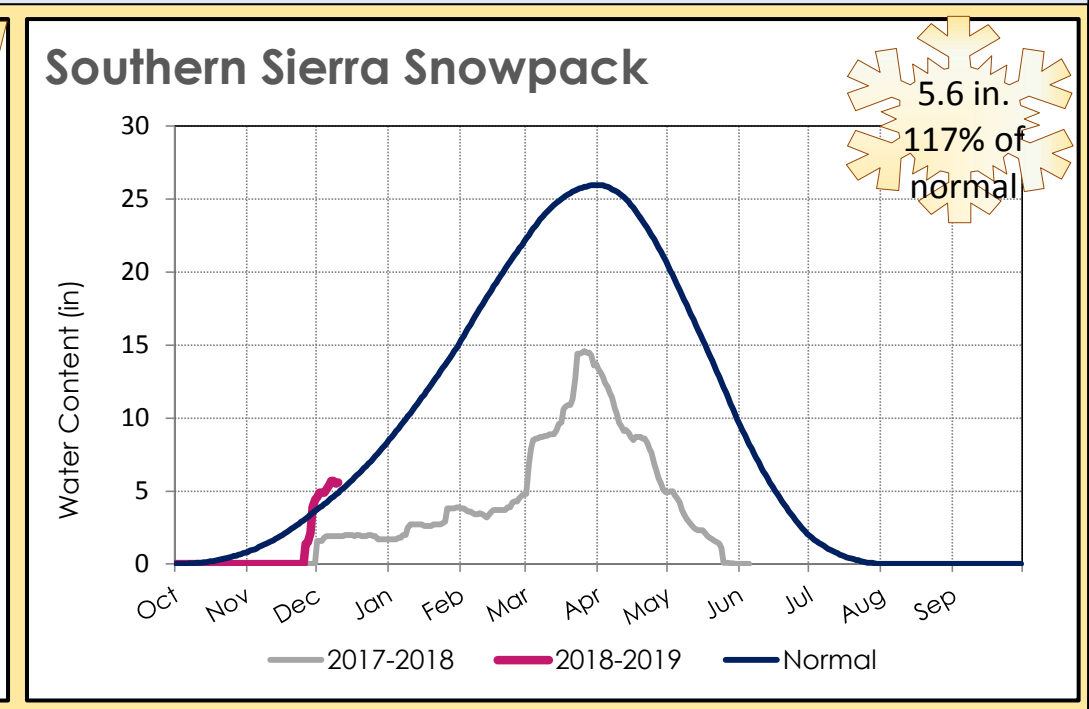
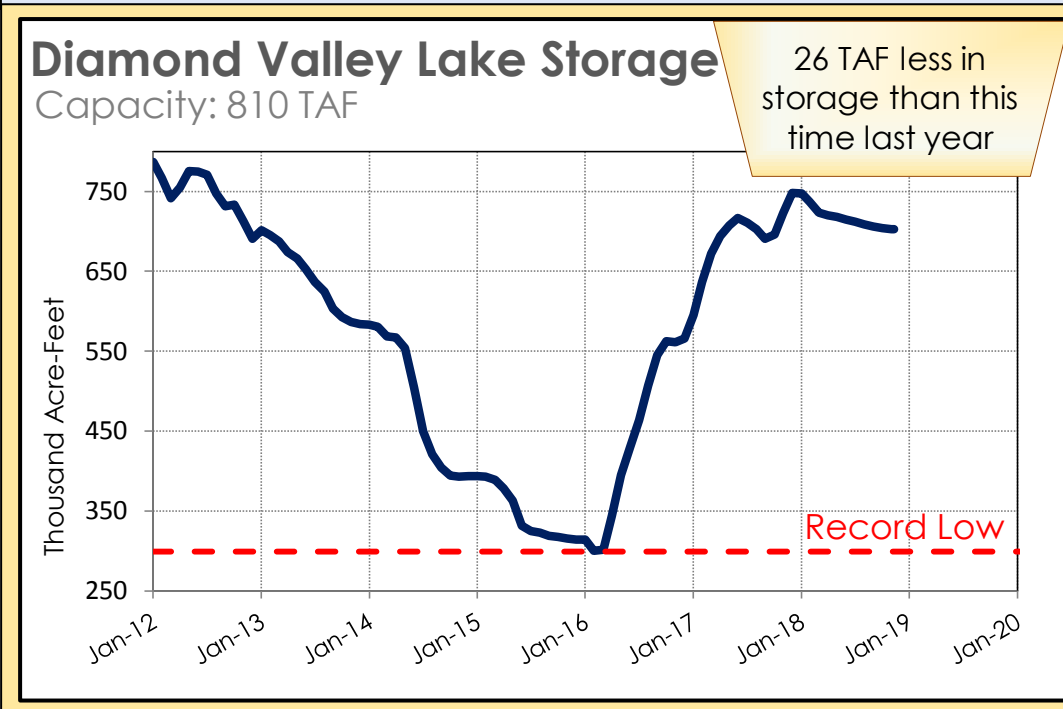
MWD water quality goals meets or exceed all State and Federal regulations

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



Highlights

- Northern Sierra snowpack is at 69% of normal
- Northern Sierra precipitation is at 70% of normal
- Upper Colorado River Basin snowpack is at 104% of normal



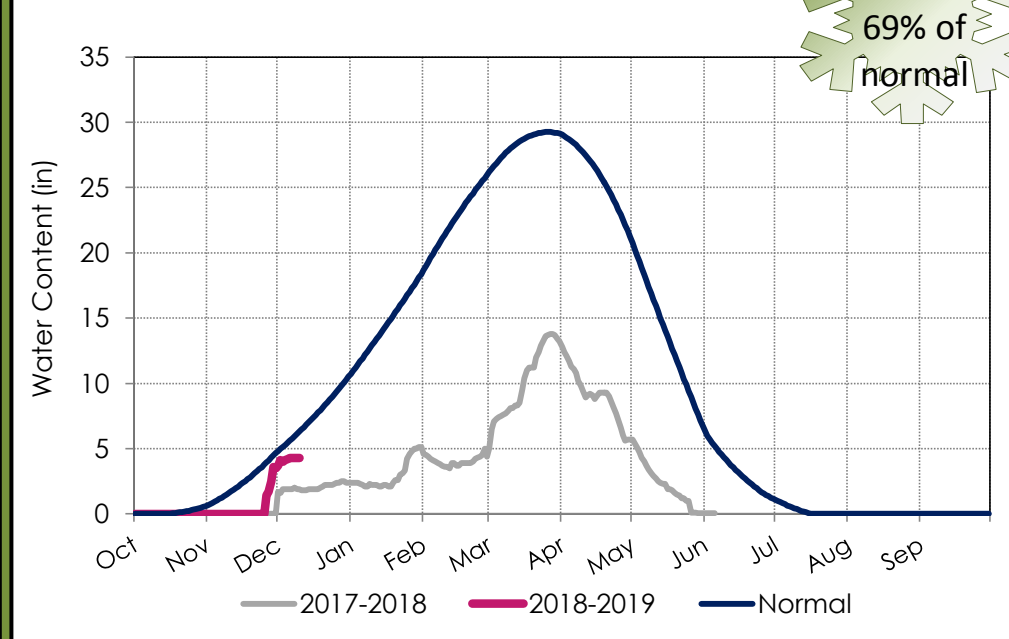
2018 SWP Allocation
669,025 AF
35% of Table A
Statewide **94%**

Legend:
WY Avg
% Normal WY to Date
Rainfall to Date (in)
Capacity
Average EOM
Current Storage (% Capacity)

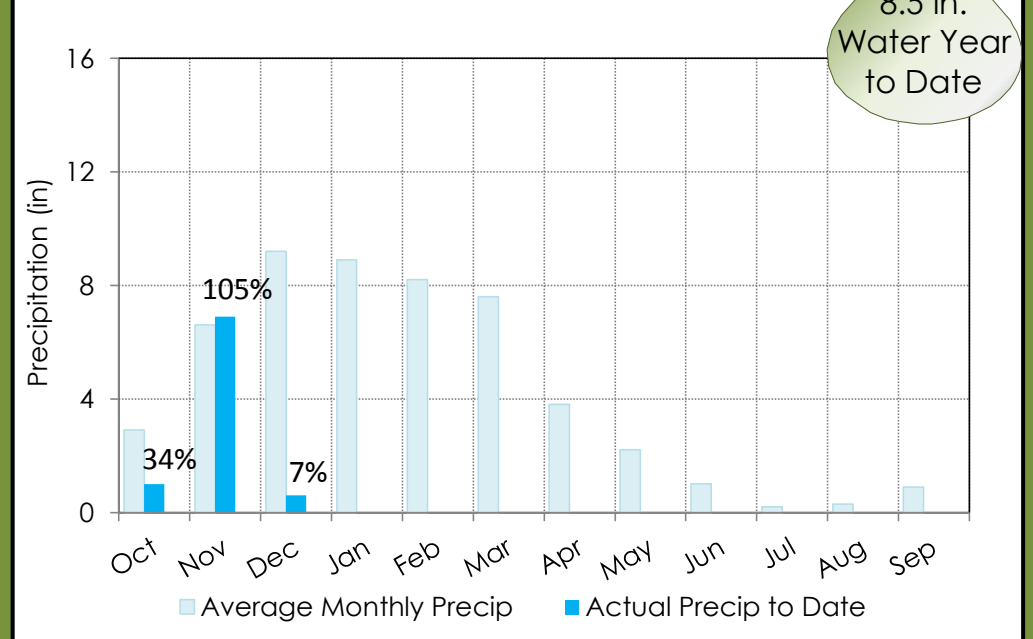
As of: 12/09/2018

State Water Project Resources

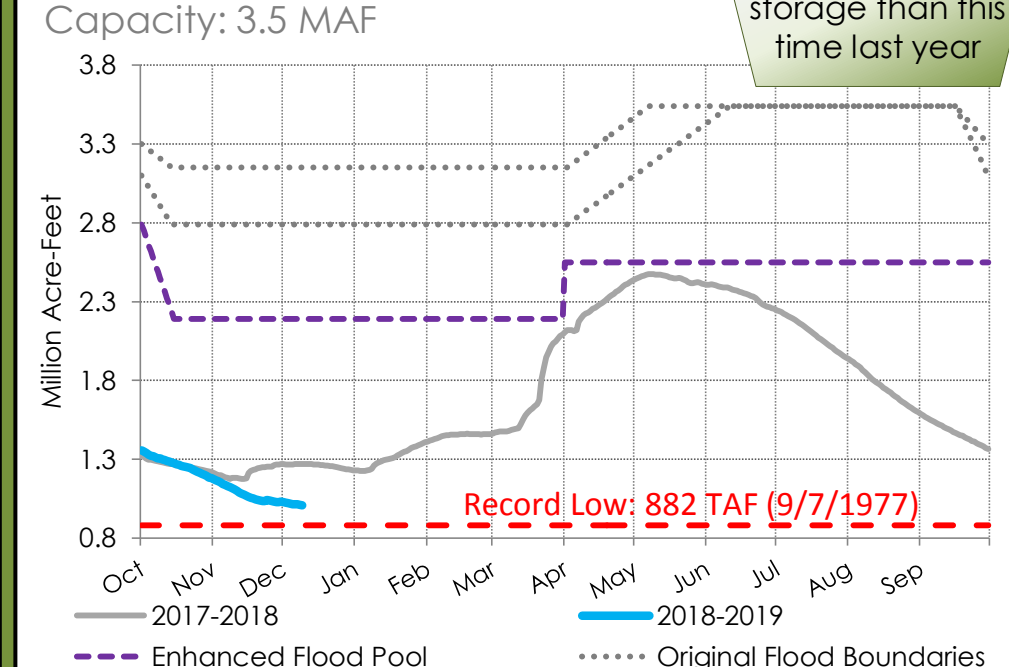
Northern Sierra Snowpack



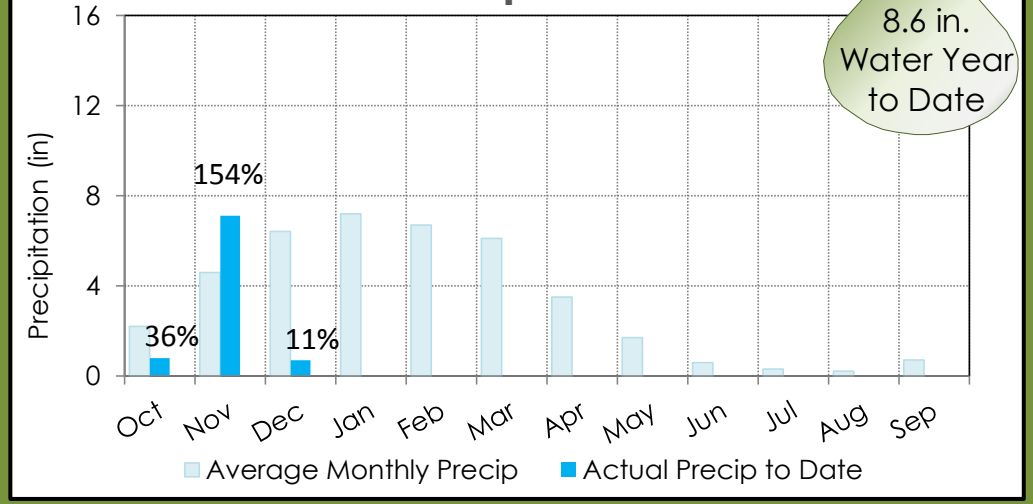
8 Station Index Precip



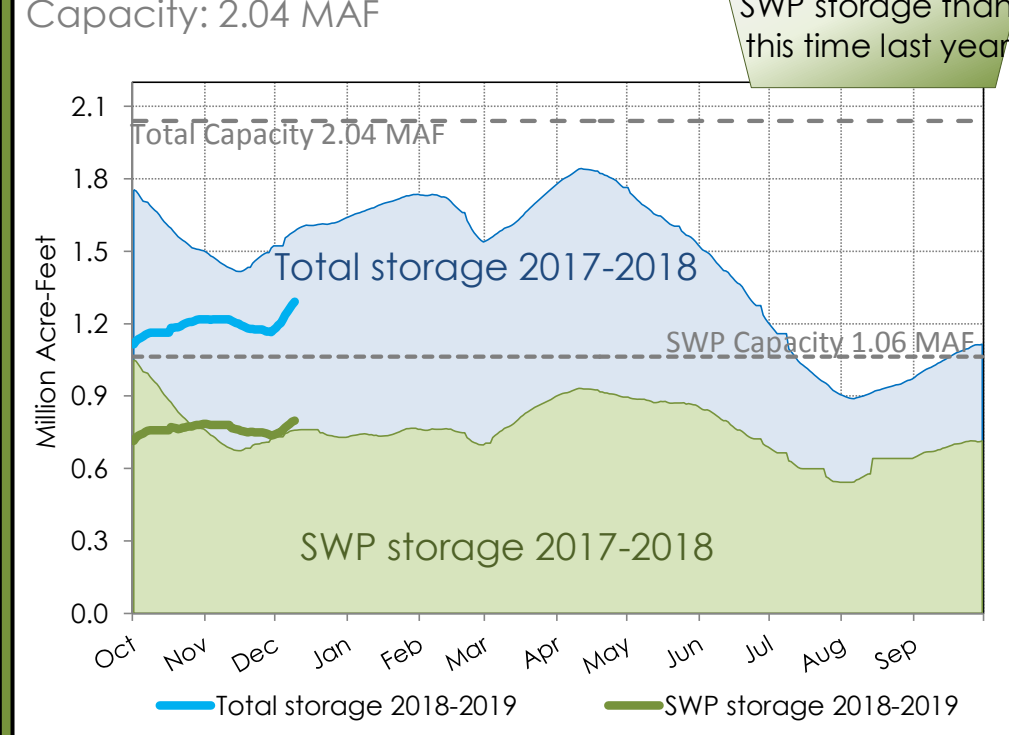
Oroville Reservoir Storage



5 Station Index Precip



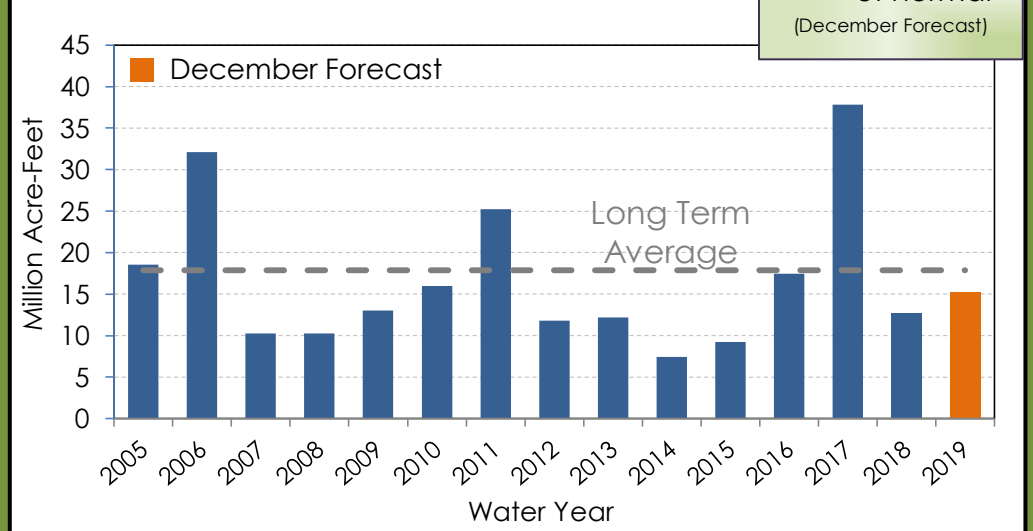
San Luis Reservoir Storage



Other SWP Contract Supplies for 2018 (AF)

Transfer/Exchanges	14,000
Article 14b	27,500
Pool A/B (Purchased)	0
Carryover Supplies	297,000

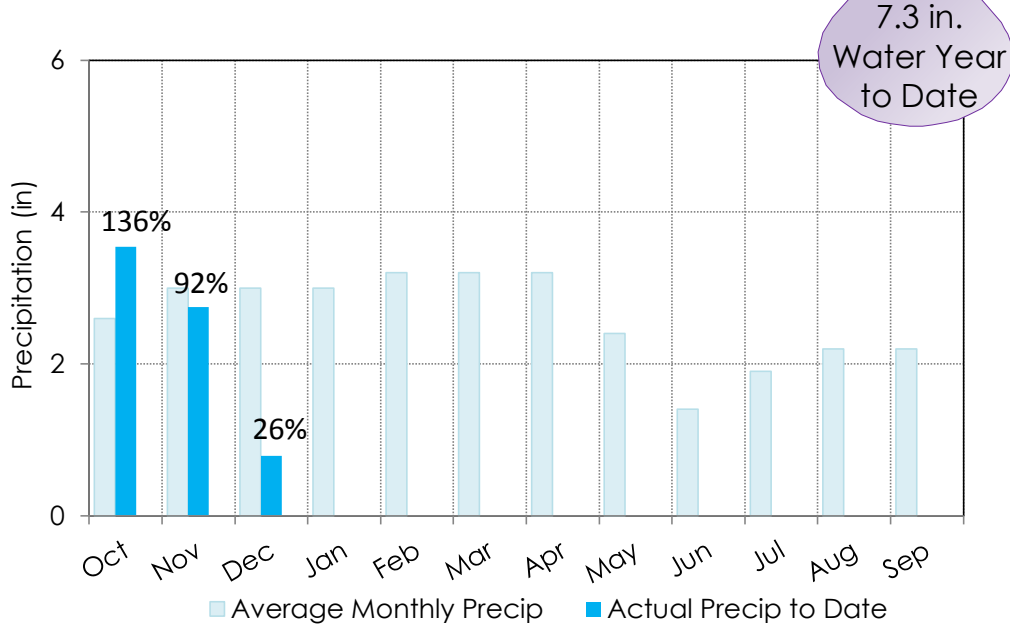
Sacramento River Runoff



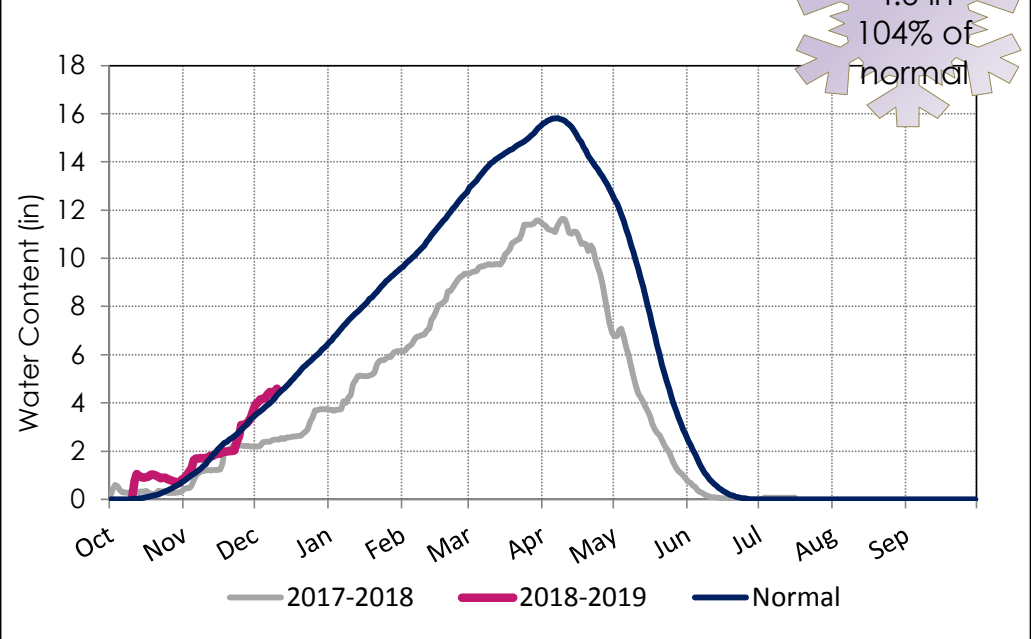
Colorado River Resources

As of: 12/09/2018

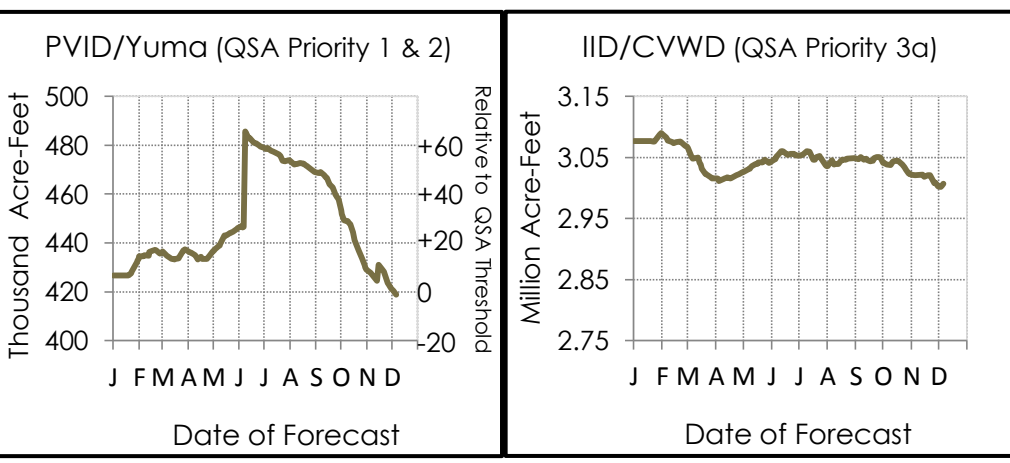
Upper Colorado Basin Precip



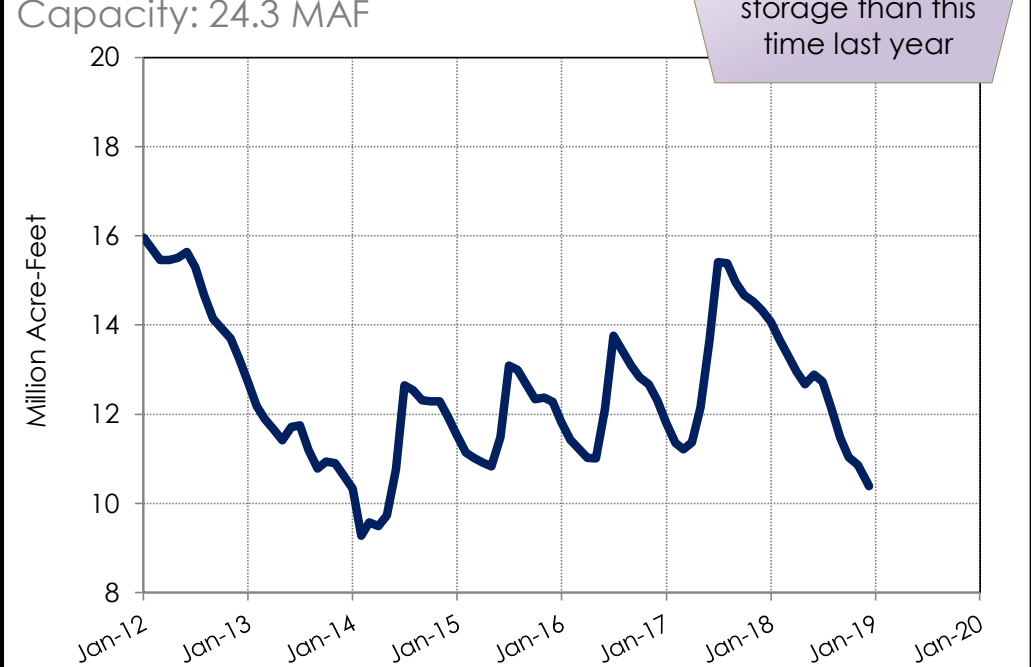
Upper Colorado Basin Snowpack



2018 Colorado River Ag Use



Lake Powell Storage

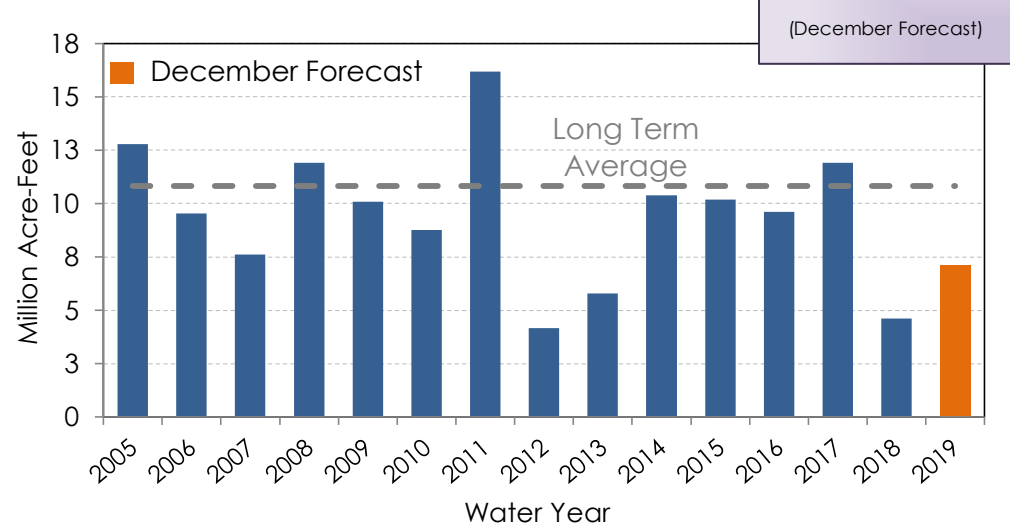


Lake Mead Shortage/Surplus Outlook

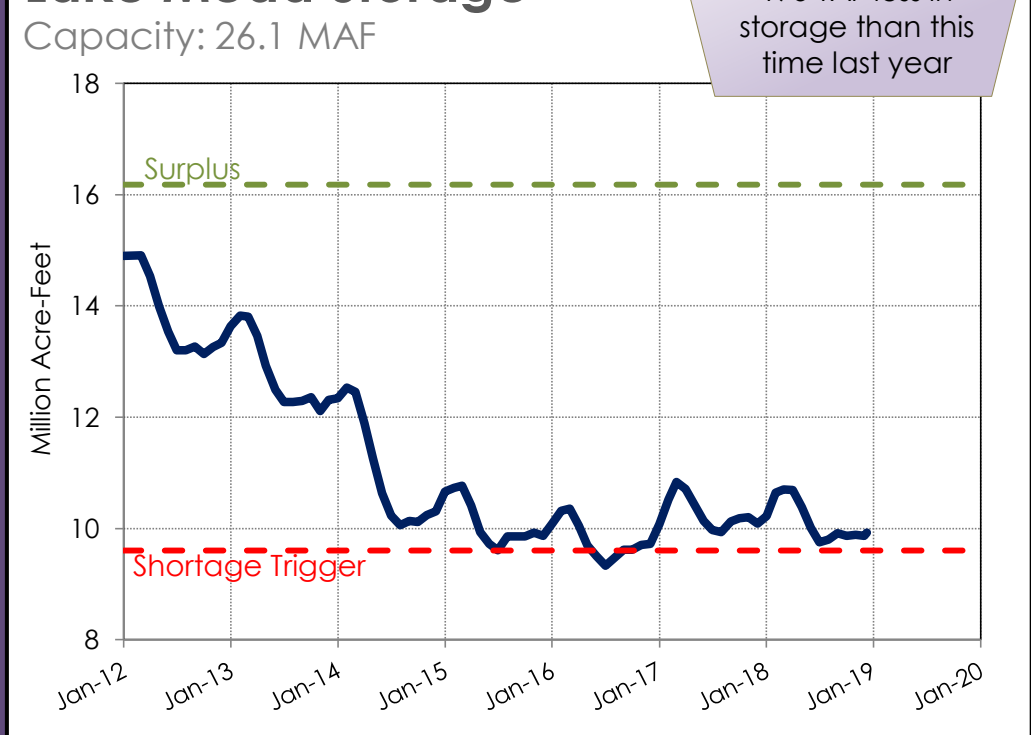
	2019	2020	2021	2022	2023
Shortage	0%	57%	68%	70%	65%
Surplus	0%	0%	3%	5%	7%

Likelihood based on results from the August 2018 CRSS model run.

Powell Unregulated Inflow



Lake Mead Storage



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

MONTH ENDING:

NOVEMBER 2018

ODOR COMPLAINTS		NUMBER	LOCATION, ORIGIN, ACTION:		
Outside Laguna Woods Village					
Outside Laguna Woods Village					
Laguna Woods Village					
New World					
Private System					
Other: WRP					
TOTAL		0			
ROOT FOAMING		FOOTAGE	CHEMICAL USED	CHEMICAL COST	COMMENTS:
Outside Laguna Woods Village					
Laguna Woods Village					
New World					
Other					
TOTAL		0			
ROOT CUTTING		FOOTAGE	COMMENTS:		
Outside Laguna Woods Village		1,822			
Laguna Woods Village		10,454			
New World					
TOTAL		12,276			
HYDRO-CLEANING		FOOTAGE	COMMENTS:		
Outside Laguna Woods Village		308			
Laguna Woods Village					
New World					
Private System					
Hot Spots		22,832			
ETWD TOTALS:		23,140			
SANTA MARGARITA TOTALS:					
COMBINED TOTALS:		23,140			
TV INSPECTIONS		FOOTAGE	COMMENTS:		
Outside Laguna Woods Village					
Laguna Woods Village		10,257			
New World					
Private System					
Other					
TOTAL		10,257			
Wet Wells		Number	Mathis-Westline-Delta-Northline		
Flow Meter/Sampling		Number			
WATER TANK FILLS		36	36,000		



Memorandum

DATE: November 28, 2018
TO: Member Agencies – MWD OC Division Five
FROM: Sat Tamaribuchi, Director – Division Five
SUBJECT: Monthly Water Usage Data, Tier 2 Projection & Water Supply Information

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

- OC Water Usage, Monthly by Supply OCWD Groundwater was the main supply in September.
- OC Water Usage, Monthly, Comparison to Previous Years Water usage in September 2018 was above average compared to the last 5 years. We are continuing to see slight increases in overall water usage compared to the previous three Fiscal Years. It has been 19 months since all mandatory water restrictions were lifted by the California State Water Resources Control Board.
- Historical OC Water Consumption Orange County M & I water consumption is estimated to be 555,000 AF in FY 2018-19 (*this includes ~15 TAF of agricultural usage and non-retail water agency usage*). This is about 15,000 AF more than FY 2017-18 and is about 36,000 AF more than FY 2016-17. Water usage per person is projected to be slightly higher in FY 2018-19 for Orange County at 153 gallons per day (This includes recycled water). Although OC population has increased 20% over the past two decades, water usage has not increased, on average. A long-term decrease in per-capita water usage is attributed mostly to Water Use Efficiency (water conservation) efforts. O.C. Water Usage for the last three Fiscal Years is the lowest since the 1982-83 Fiscal Year (FY1982-83 was the third wettest year on record).

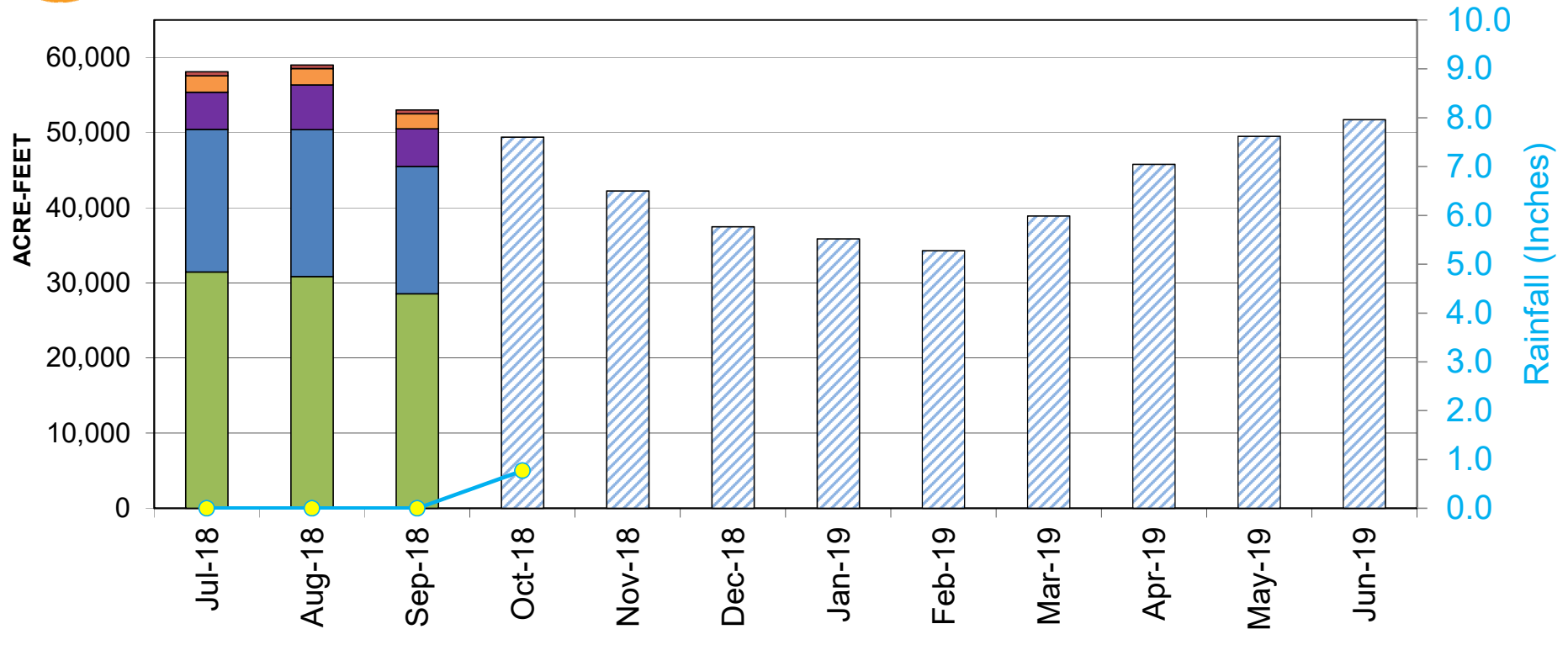
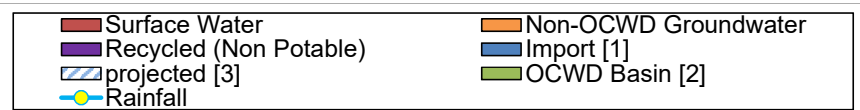
Water Supply Information Includes data on Rainfall in OC; the OCWD Basin overdraft; Northern California and Colorado River Basin hydrologic data; the State Water Project (SWP) Allocation, and regional storage volumes. The data have implications for the magnitude of supplies from the three watersheds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

- Orange County's accumulated rainfall through October was well below average for this period. Water year to date rainfall in Orange County is 0.77 inches, which is 118% of normal.

- Northern California accumulated precipitation through October was around 24% of normal for this period. Water Year 2018 was 82% of normal while water year 2017 was 187% of normal. The Northern California snowpack was 43% of normal as of April 1st. As of late October, 47.94% of California is experiencing moderate to extreme drought conditions while 84.84% of the state is experiencing abnormally dry conditions. The State Water Project Contractors Table A Allocation was set at 35% for 2018.
- Colorado River Basin accumulated precipitation through early November was 156% average for this period. The Upper Colorado Basin snowpack was 71% of normal as of April 3. Lake Mead and Lake Powell combined have about 57% of their average storage volume for this time of year and are at 41.4% of their total capacity. If Lake Mead's level falls below a "trigger" limit 1,075 ft. at the end of a calendar year, then a shortage will be declared by the US Bureau of Reclamation (USBR), impacting Colorado River water deliveries to the Lower Basin states. As of late October, Lake Mead levels were 3.23' above the "trigger" limit. The USBR predicts that the start of 2019 will not hit the "trigger" level but there is a 57% chance that the trigger level will be hit in 2020 and a 68% chance in 2021.



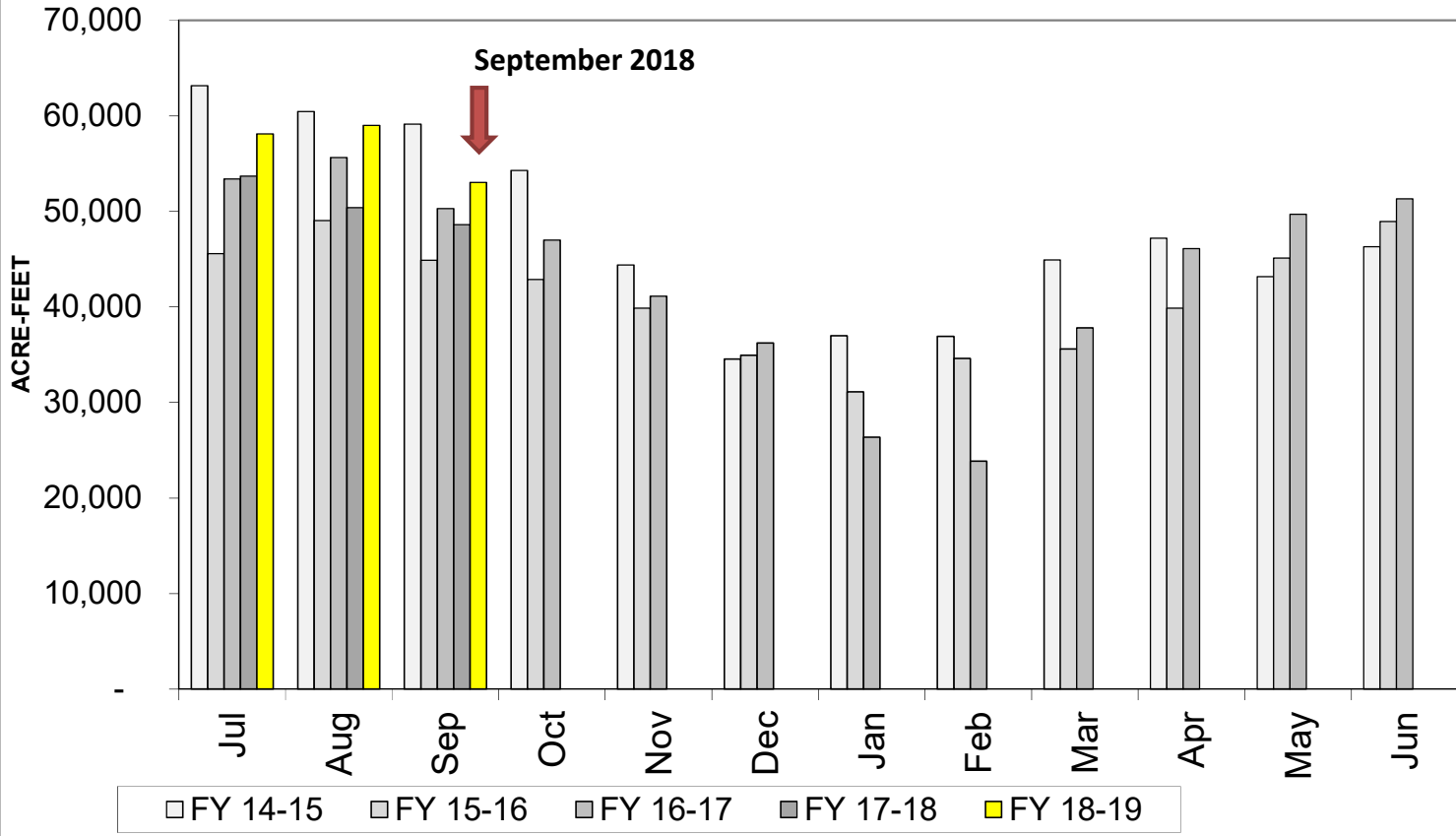
Fig. 1 OC Water Usage, Monthly by Supply with projection to end of fiscal year



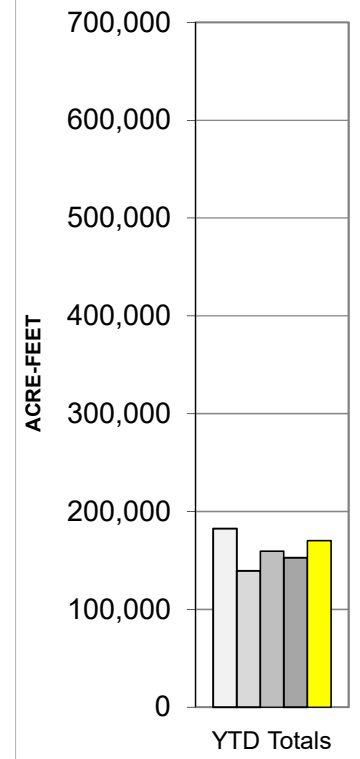
- [1] Imported water for consumptive use. Includes "In-Lieu" deliveries and CUP water extraction. Excludes "Direct Replenishment" deliveries of spreading water, "Barrier Replenishment" deliveries, and deliveries into Irvine Lake.
- [2] GW for consumptive use only. Excludes In-Lieu water deliveries and CUP water extraction that are counted with Import. BPP in FY '17-18 is 75%.
- [3] MWD OC's estimate of monthly demand is based on the projected FY 15-16 "Retail" water demand and historical monthly demand patterns.
- [4] Total water usage includes IRWD groundwater agricultural use and usage by non-retail water agencies.



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



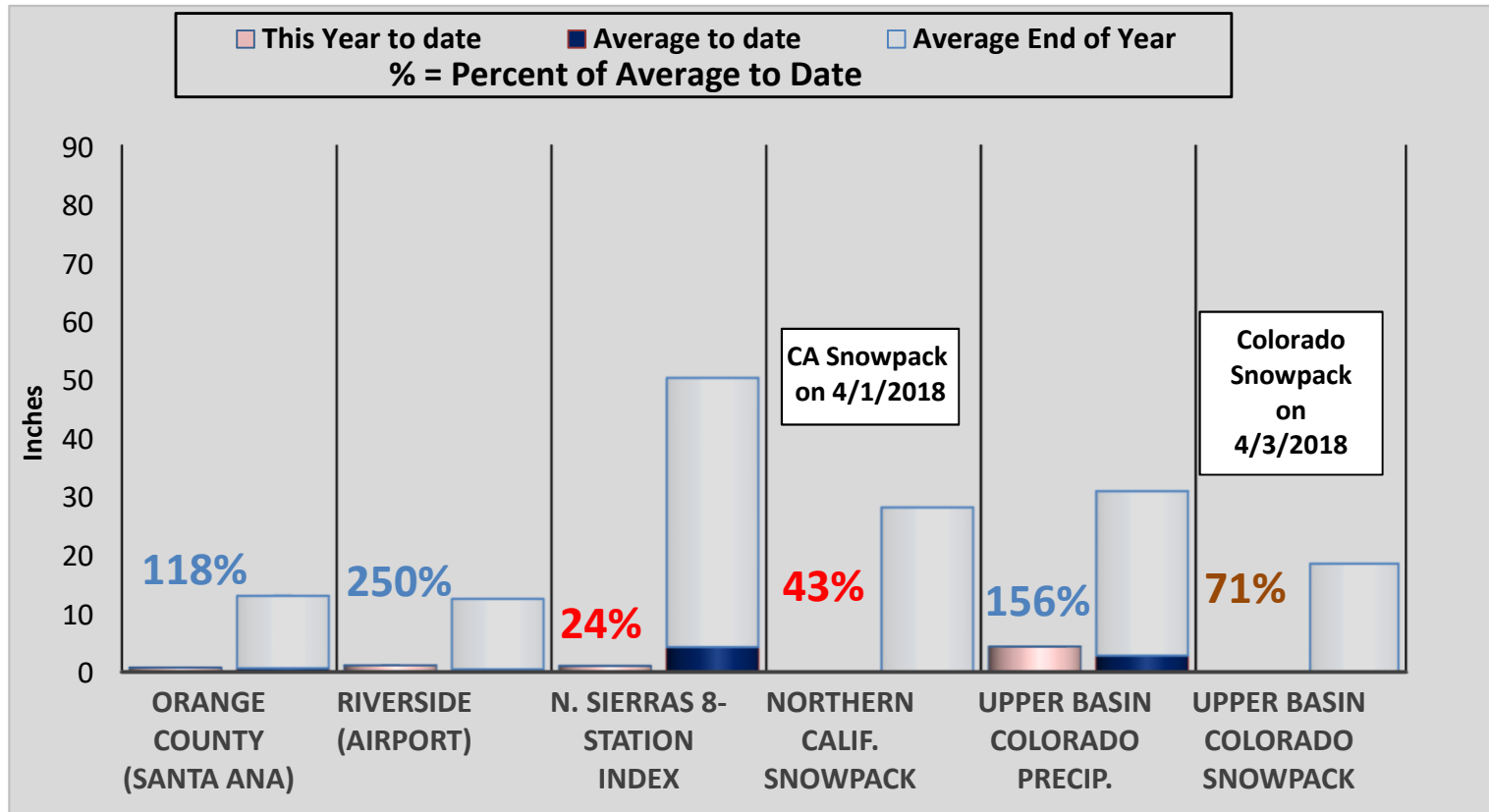
Partial Year Subtotals



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

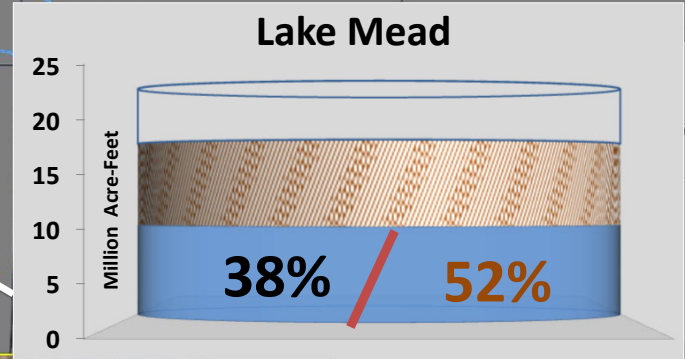
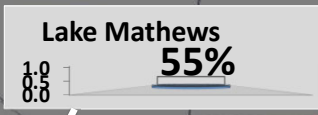
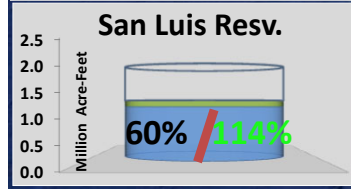
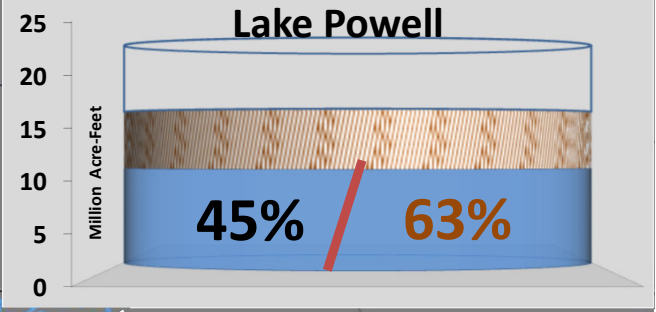
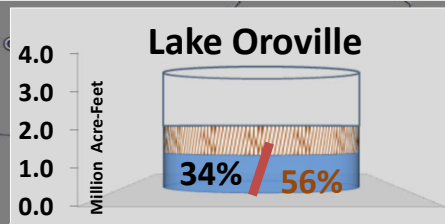
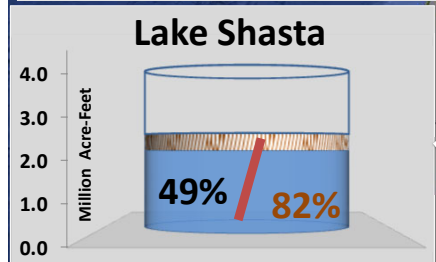
Accumulated Precipitation

for the Oct.-Sep. water year, through early November 2018



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

State Water Project, Colorado River, and MWD Reservoir Storage
as of October 29, 2018



© 2015 INEGI

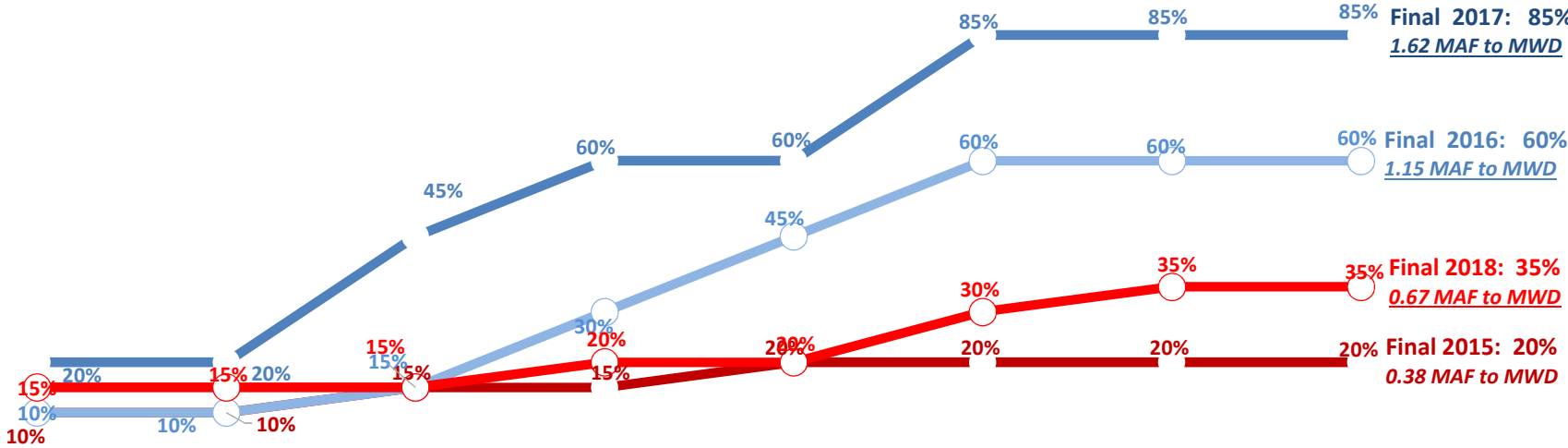


prepared by the Municipal Water District of Orange County
*Number are Subject to Change

SWP TABLE A ALLOCATION

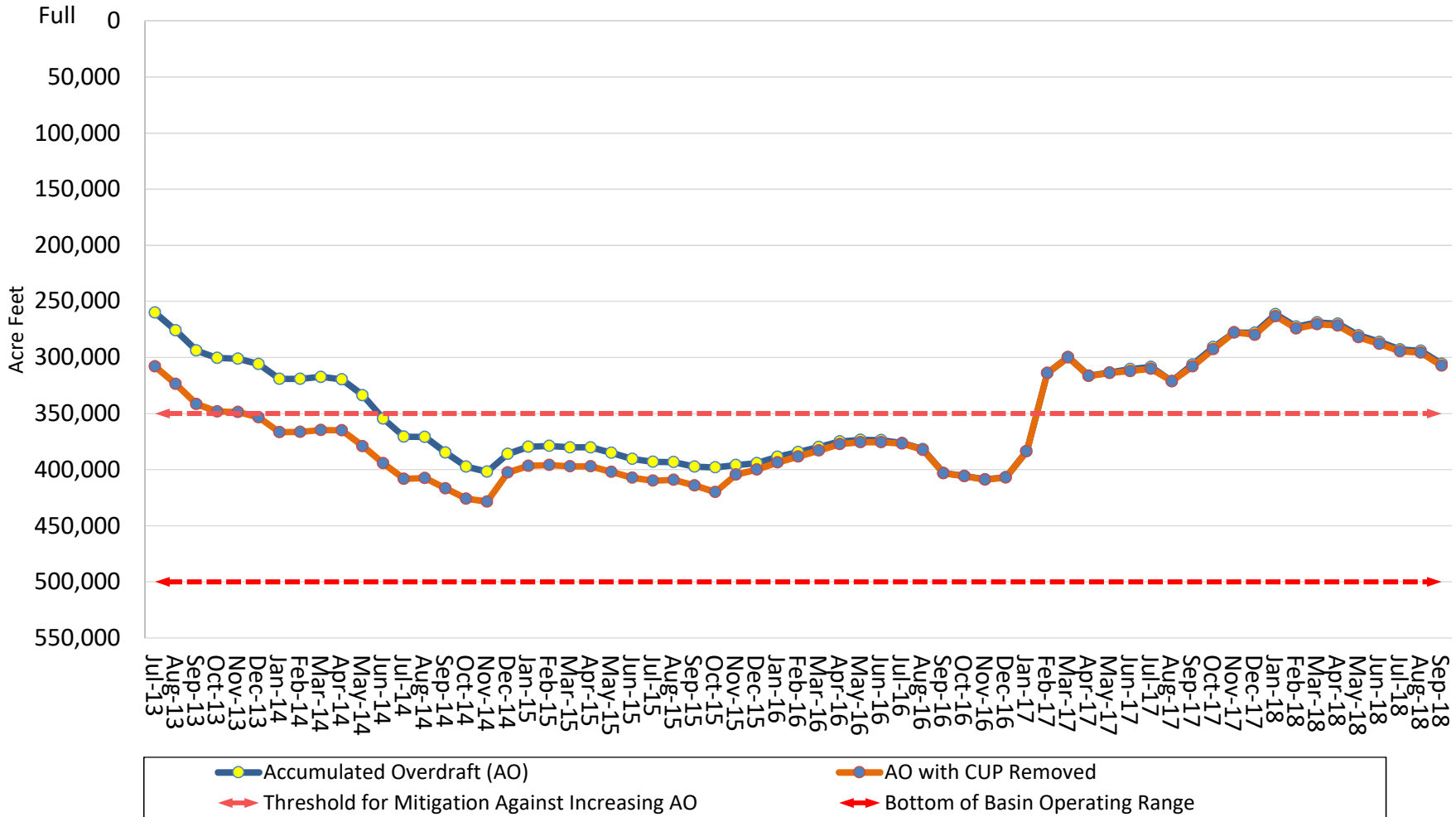
FOR STATE WATER PROJECT CONTRACTORS

Final 2019: ???



■ Water Year 2015
 ■ Water Year 2016
 ■ Water Year 2017
 ■ Water Year 2018
 ■ Water Year 2019

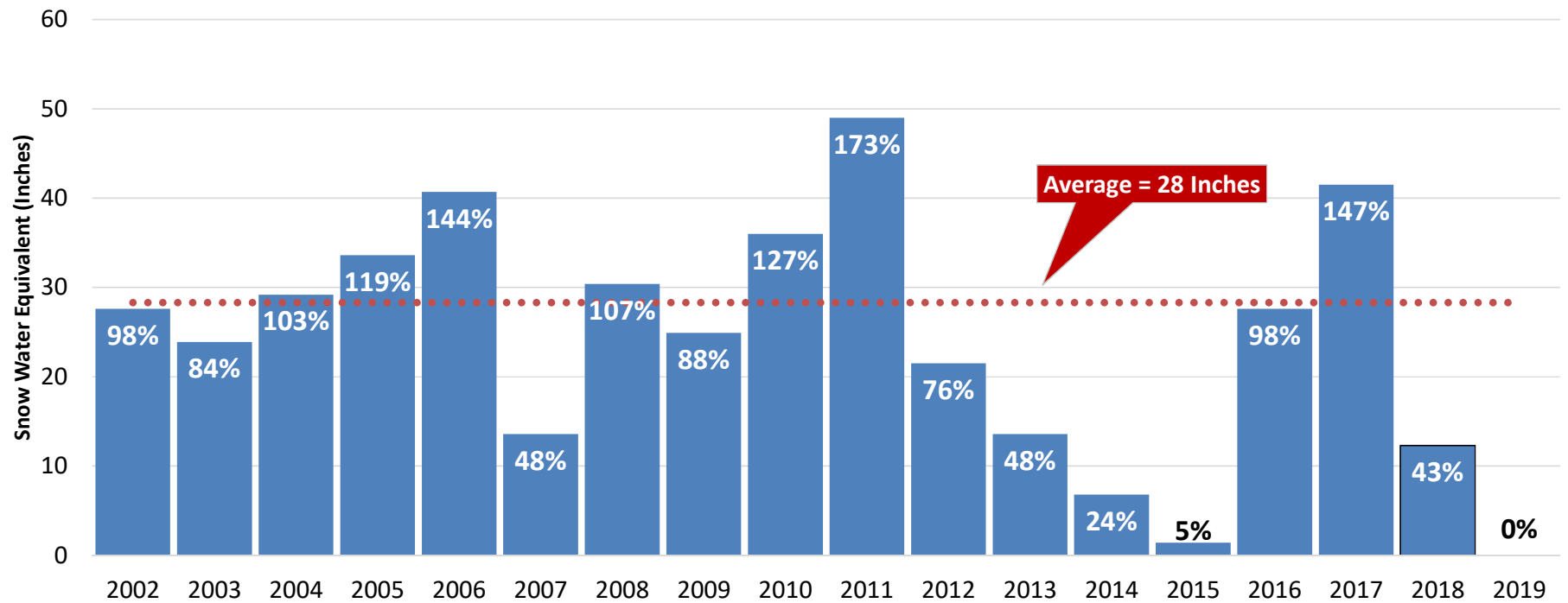
Accumulated Overdraft of the OCWD Groundwater Basin as of September 2018



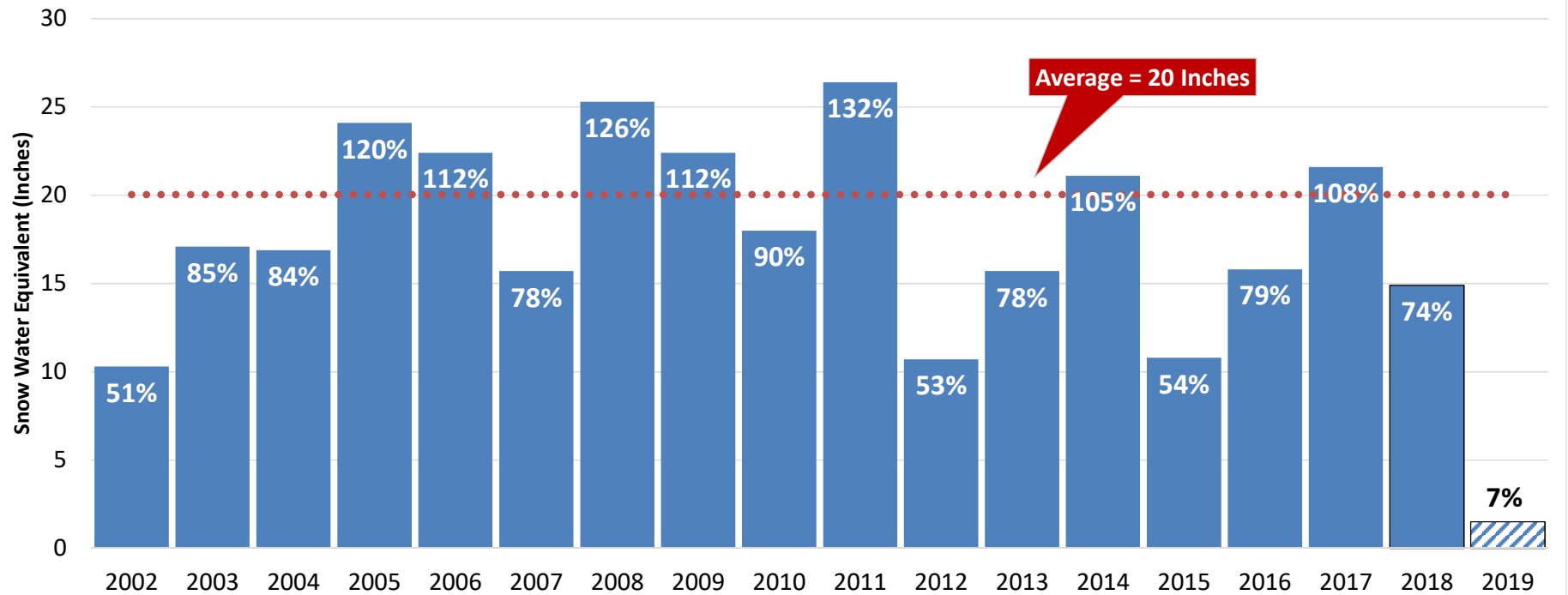
	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18
AO (AF)	308,488	321,131	306,280	290,800	277,691	278,056	261,521	272,475	268,752	269,889	280,329	286,163
AO w/CUP removed (AF)	310,216	321,131	308,007	292,522	277,691	279,776	263,237	274,188	270,463	271,601	282,041	287,869
	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19
AO (AF)	292,869	294,090	305,572									
AO w/CUP removed (AF)	294,572	295,790	307,271									



Historical Northern California April 1st Peak Snow Water Equivalent

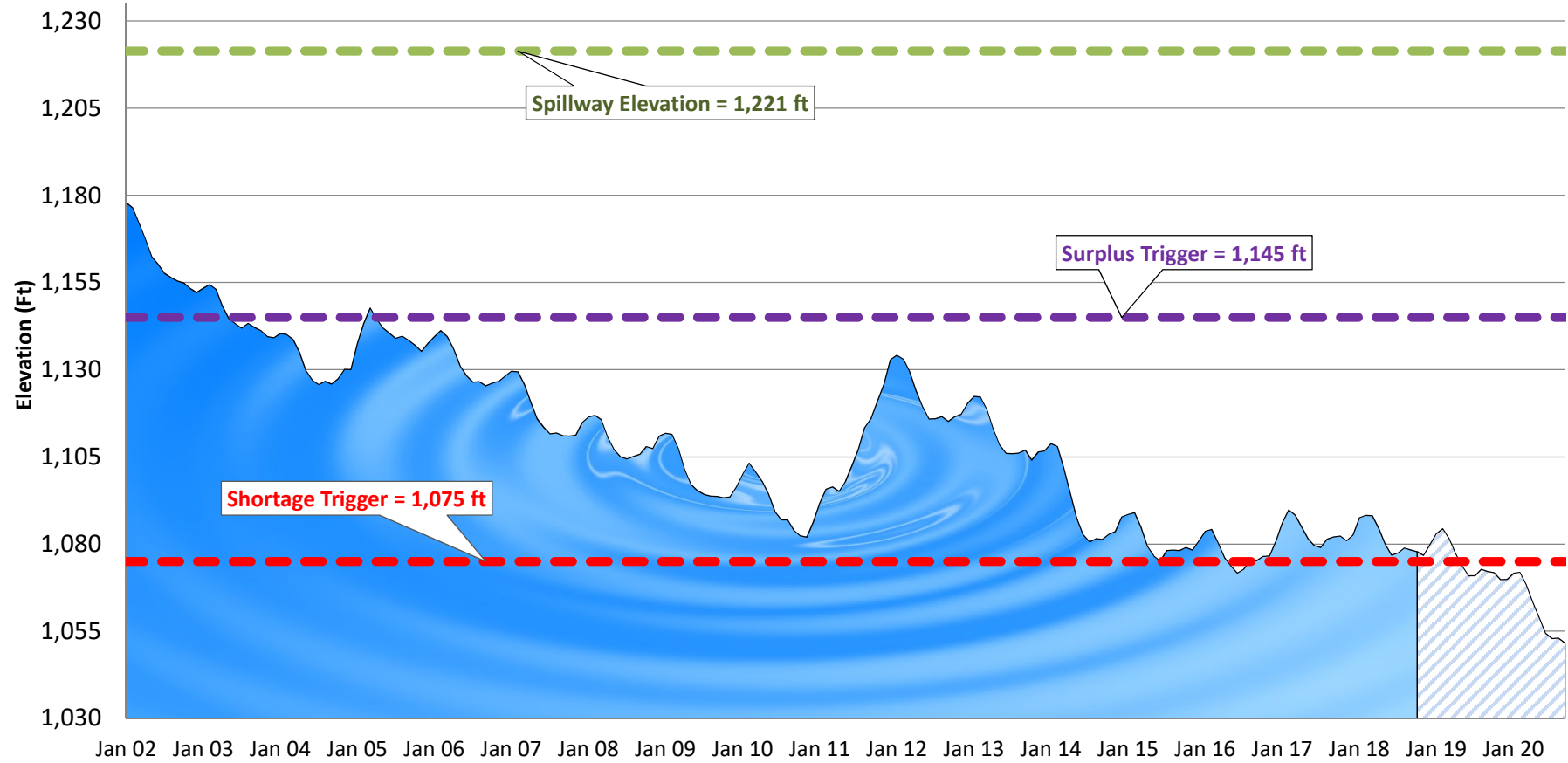


Historical Colorado Basin April 15th Peak Snow Water Equivalent



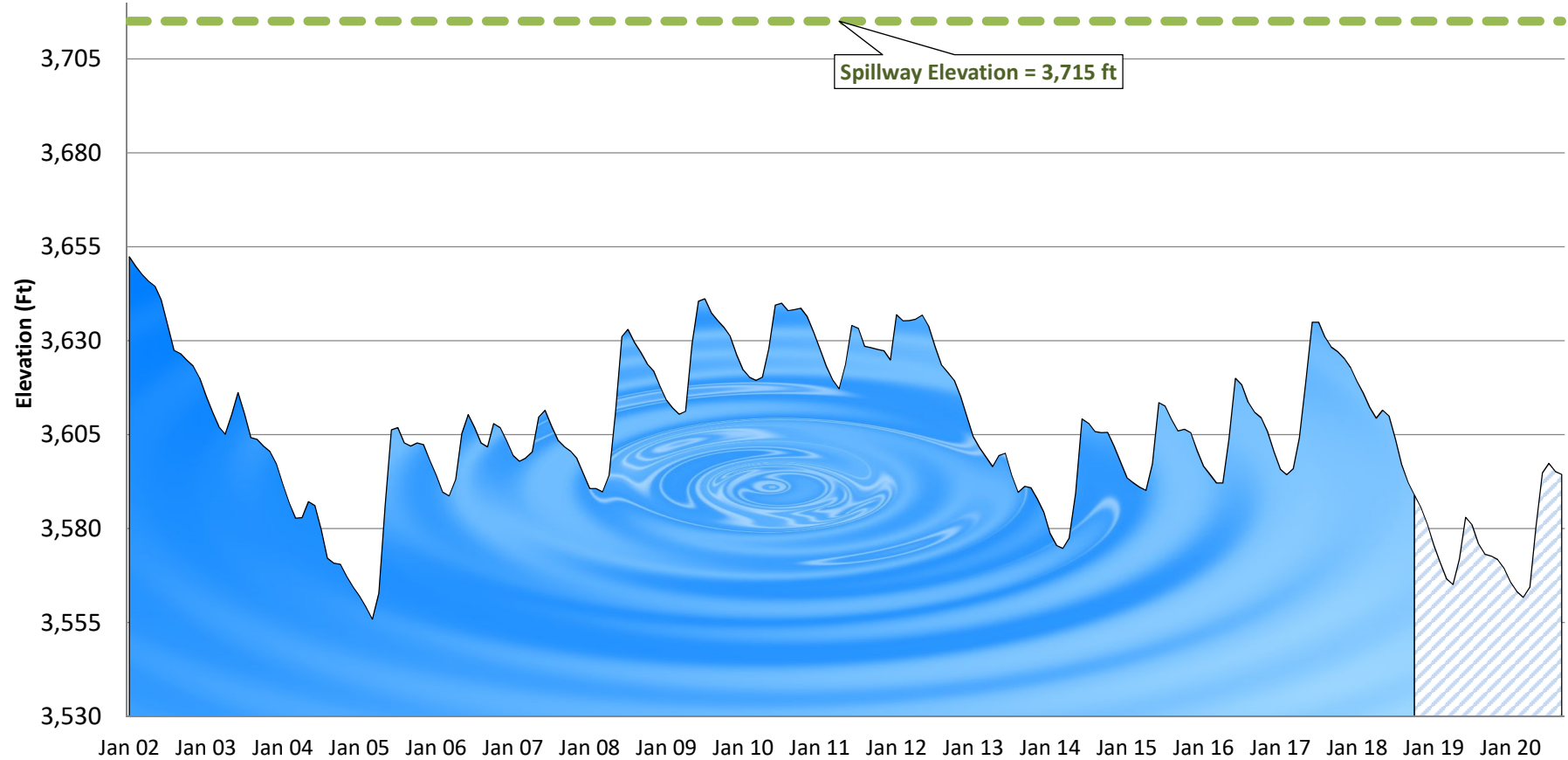
Lake Mead Levels: Historical and Projected projection per USBR 24-Month Study

■ Historical □ Projected

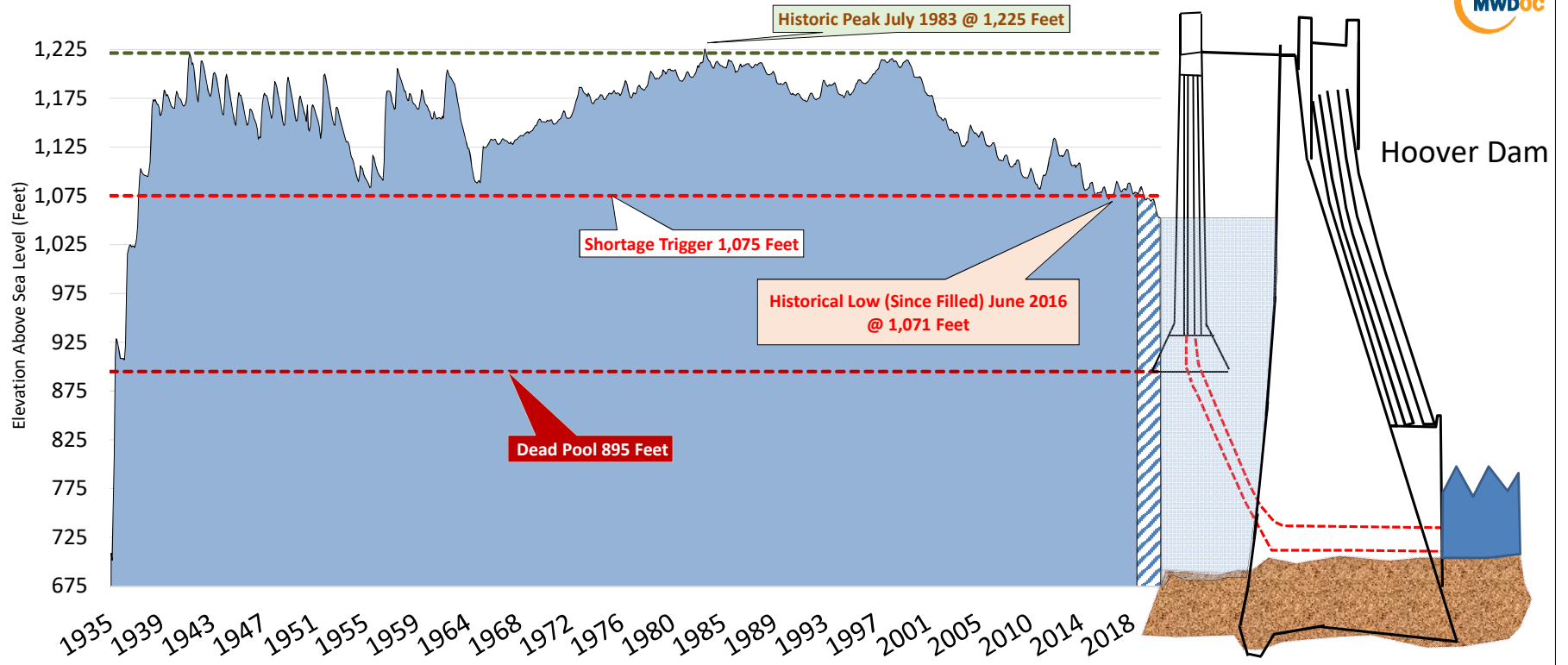


Lake Powell Levels: Historical and Projected projection per USBR 24-Month Study

■ Historical □ Projected



Lake Mead Historical Water Elevation Level



WILL SERVE REQUEST STATUS REPORT

(November 2018)

**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
11/14/17	Laguna Hills Investment Company	Oakbrook Village Bldg. D	ND	24231 Ave. de la Carlota	Issued	12/19/17
1/3/18	PS Business Parks, L.P.	GameCraft Brewing	TI	23301 Ave. de la Carlota	Issued	3/6/18
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

ND = New Development

TI = Tenant Improvement

**EL TORO WATER DISTRICT
UNAUTHORIZED DISCHARGE SUMMARY
YEAR OF 2018**

DATE	PUBLIC /	SPILL TYPE	LOCATION	REASON	IMMEDIATE CORRECTIVE MEASURES	PREVIOUS MAINTENANCE		POST-INCIDENT PREVENTIVE MEASURES	RWQCB	DISCHARGED TO	SPILL VOLUME (PUBLIC) Gallons		SPILL VOLUME (PRIVATE) Gallons		REGULATORY NOTIFICATION AND RESPONSE
	PRIVATE					CLEANING	TV				CONTAINED	SPILLED	CONTAINED	SPILLED	
January 29, 2018	Private	Sewer	23875 Syacmore Mission Viejo	Lateral Blockage	Ran Clean out in front yard, broke stoppage	N/A	N/A	Collections returned 1/30/18 to TV line	9	Yard			18		Notified OCEH, RWQCB-9, City of Mission Viejo
February	No		Spill		to			Report							
March 24, 2018	Private	Sewer	23632 El Toro Rd Lake Forest	Lateral Blockage	Vactored spill, cleaned up parking lot, turned AMS off to two restaurants to help stop spill.	N/A	N/A	Plumbers broke stoppage the next morning. Turned water on to two business's	9	Parking lot Storm Drain			15	55	Notified OCEH, RWQCB-9, City of Lake Forest
April 5, 2018	Private	Sewer	24400 Muirlands Blvd. Lake Forest	Grease Blockage	Vactored spill, ran the line and broke up stoppage Notified Agencies	N/A	N/A	Crew used 100 gallons of potable water to clean up area	8	Private Parking lot, storm drain			20	80	Notified OCEH, RWQCB-8, City of Lake Forest
April 28, 2018	Private	Sewer	84 Calle Argon Laguna Woods	Lateral Blockage / Roots	Put out sand bags to contain spill. Vactor was brought in to jet the line and break up blockage	N/A	N/A	Used about 200 gallons of potable water to wash down spill and vactored it up Informed cust. to TV the line	9	Private Parking lot			60	60	Notified OCEH, RWQCB-9, City of Laguna Woods
May	No		Spill		to			Report							
June 28, 2018	Private	Sewer	23645 El Toro Rd. Lake Forest	Clean out broken	Collections Crew Vacuummed up standing water	N/A	NA	Collections Crew Vacuummed up standing water	9	Private Parking Lot			2	2	None
July	No		Spill		to			Report							
August	No		Spill		to			Report							
September	No		Spill		to			Report							
October	No		Spill		to			Report							
November	No		Spill		to			Report							
LEGEND											0	0	115	197	

S.DC = San Diego Creek	RES. = Residential	R.S. = Rocks
S.D. = Storm Drain	C. = Commercial	C.W.D. = Calcium Water Deposits
A.C. = Aliso Creek	S.B. = Siphon	B.P. = Broken Pipe
G.B. = Grease Blockage	P.F. = Power Failure	U.W. = Untreated Water

**EI Toro Water District
SWRCB Emergency Drought Regulations
Monthly Urban Water Supplier Reporting/ Tracking**

Month	Total Purchases 2013 (AF)	ET 2013	Total Purchases 2015-2018 (AF)	ET 2015-2018	Delta (AF)	Delta %	Residential % of Total 2015-2018	Residential Usage 2015-2018 (AF)	GPCD 2015-2018	RW 2013 (AF)	RW 2015-2018 (AF)
Jun-15	996.66	6.00	773.57	5.73	-223.09	-22%	61.75%	477.68	107	62.62	55.65
Jul-15	1,016.80	5.80	723.00	5.95	-293.8	-29%	60.26%	435.68	94	56.51	87.87
Aug-15	1,042.70	6.55	790.17	6.24	-252.53	-24%	61.06%	482.48	104	49.34	124.29
Sep-15	963.00	5.26	663.40	4.96	-299.6	-31%	63.32%	420.06	94	46.06	101.44
Oct-15	811.60	3.92	613.70	3.86	-197.9	-24%	61.46%	377.18	82	25.45	90.39
Nov-15	684.20	2.51	528.90	3.26	-155.3	-23%	64.97%	343.63	77	16.87	58.30
Dec-15	593.20	2.49	430.70	2.36	-162.5	-27%	67.92%	292.53	63	15.55	32.44
Jan-16	543.15	2.53	417.00	1.89	-126.15	-23%	75.41%	314.46	68	13.00	23.43
Feb-16	502.41	2.89	455.20	3.83	-47.21	-9%	74.80%	340.50	79	18.35	55.08
Mar-16	736.34	4.06	474.45	3.99	-261.89	-36%	70.86%	336.20	73	35.55	52.33
Apr-16	825.00	4.82	526.00	5.15	-299	-36%	71.43%	375.72	84	53.97	105.24
May-16	874.56	5.97	621.70	4.65	-252.86	-29%	67.21%	417.84	90	62.80	133.64
Jun-16	996.66	6.00	731.50	5.81	-265.16	-27%	66.57%	486.96	109	62.62	172.45
Jul-16	1,016.80	5.80	770.10	6.78	-246.7	-24%	67.21%	517.56	112	56.51	195.68
Aug-16	1,042.70	6.55	753.50	5.96	-289.2	-28%	64.76%	488.00	105	49.34	198.34
Sep-16	963.00	5.26	672.80	4.50	-290.2	-30%	65.56%	441.09	99	46.06	160.69
Oct-16	811.60	3.92	600.30	3.23	-211.3	-26%	65.59%	393.77	85	25.45	110.38
Nov-16	684.20	2.51	524.60	2.76	-159.6	-23%	69.16%	362.81	81	16.87	80.81
Dec-16	593.20	2.49	429.60	1.91	-163.6	-28%	71.19%	305.82	66	15.55	49.90
Jan-17	543.15	2.53	357.22	1.99	-185.93	-34%	78.25%	279.51	60	13.00	27.75
Feb-17	502.41	2.89	341.84	1.77	-160.57	-32%	79.10%	270.39	65	18.35	21.00
Mar-17	736.34	4.06	544.19	4.27	-192.15	-26%	77.34%	420.88	91	35.55	88.91
Apr-17	825.00	4.82	634.95	5.17	-190.05	-23%	69.72%	442.66	99	53.97	146.88
May-17	874.56	5.97	669.86	4.70	-204.7	-23%	67.16%	449.91	97	62.80	170.35
Jun-17	996.66	6.00	734.87	5.25	-261.79	-26%	67.01%	492.44	110	62.62	168.67
Jul-17	1,016.80	5.80	849.65	6.34	-167.15	-16%	65.31%	554.91	120	56.51	206.55
Aug-17	1,042.70	6.55	829.15	6.13	-213.55	-20%	64.21%	532.43	115	49.34	201.74
Sep-17	963.00	5.26	684.25	4.80	-278.75	-29%	64.06%	438.35	98	46.06	157.58
Oct-17	811.60	3.92	731.30	3.57	(80.30)	-10%	66.20%	484.11	105	25.45	144.70
Nov-17	684.20	2.51	548.66	2.36	-135.54	-20%	66.12%	362.75	81	16.87	79.64
Dec-17	593.20	2.49	646.24	3.26	53.04	9%	69.45%	448.82	97	15.55	105.69
Jan-18	543.15	2.53	481.56	2.38	-61.59	-11%	71.74%	345.48	75	13.00	59.07
Feb-18	502.41	2.89	529.34	3.12	26.93	5%	71.59%	378.95	91	18.35	92.01
Mar-18	736.34	4.06	526.15	3.72	(210.19)	-29%	71.90%	378.33	82	35.55	43.98
Apr-18	825.00	4.82	638.39	4.82	(186.61)	-23%	72.66%	463.88	104	53.97	140.30
May-18	874.56	5.97	630.76	3.80	(243.80)	-28%	66.48%	419.30	91	62.80	129.23
Jun-18	996.66	6.00	778.62	6.29	(218.04)	-22%	66.04%	514.17	115	62.62	180.46
Jul-18	1,016.80	5.80	847.99	7.42	(168.81)	-17%	66.13%	560.76	121	56.51	215.87
Aug-17	1,042.70	6.55	834.68	6.85	(208.02)	-20%	63.16%	527.21	114	49.34	233.30
Sep-18	963.00	5.26	724.38	5.21	(238.62)	-25%	63.93%	463.07	103	46.06	171.40
Oct-18	811.60	3.92	670.25	4.04	(141.35)	-17%	62.97%	422.09	91	25.45	105.58
Nov-18	684.20	2.51	528.64	3.17	(155.56)	-23%	65.60%	346.77	77	16.87	86.52
Total	34,283.82	188.44	26,263.13	183.25	-8020.69	-23%	67.78%	17,607.15	92	1,625.06	4,865.52

Bob Hill

From: SWRCB Office Research, Planning & Performance <drinc@waterboards.ca.gov>
Sent: Wednesday, December 12, 2018 10:59 AM
To: Bob Hill
Subject: Monitoring Report Acknowledgement for November 2018

Hello Robert Hill

Thank you for your Monitoring Report. Below is the information you have submitted for the month of November 2018. If this information is incorrect, you can edit the report or re-submit your report for the month with the corrected information. We use your most recently submitted monthly report in our calculations.

Reporter	Robert Hill
Urban Water Supplier(Number)	El Toro Water District (562)
Reporting Month	1118
Stage/Mandatory	None No
Days Outside Irrigation	
Total Potable Water Production	528.64 AF
2013 Same Month Production	684.20 AF
CII Water	67.84 AF
Commercial Agricultural Water	0 AF
Commercial Agricultural Water 2013	AF
Recycled Water	86.52 AF
Non-revenue Water	AF
Residential Use Percentage	65.6 %
Population	48628
Estimated R-GPCD	77
Number Complaints	0
Number Follow-ups	0

Number Warnings	0
Rate Penalties	0
Other Penalties	0
Enforcement Actions	
Actions Taken	
Implementation Comments	
Qualification	

To edit your report click [HERE](#) (After logging in, select the report to edit, click on “Edit”, make your corrections, and click on “Update” when finished)

State Water Resources Control Board Office of Research, Planning & Performance

(WRP) Tertiary Treatment Plant

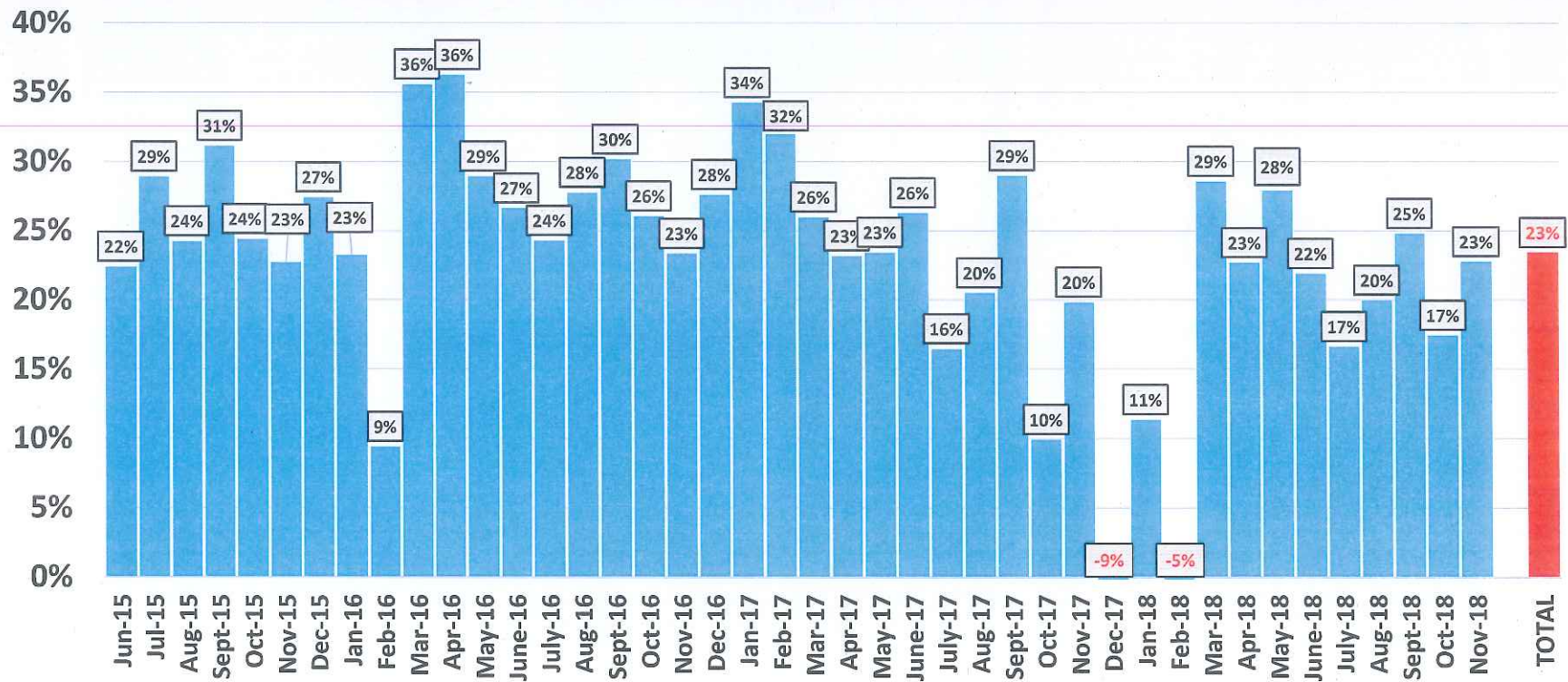
Nov-18

Total Recycled Water Production

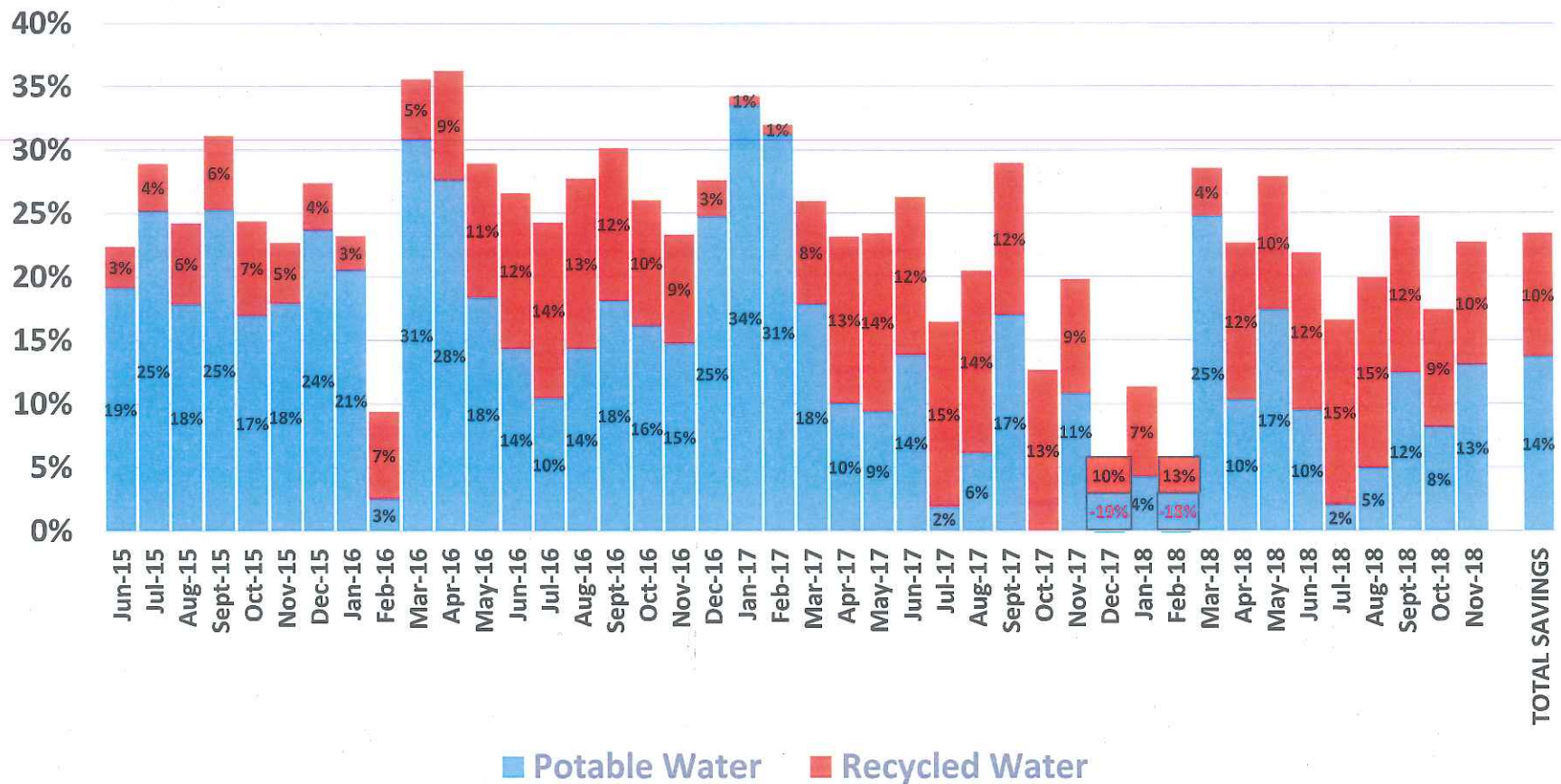
Flow, Units	G.C. Irrigation	Main Distribution	WRP Irrigation/Utility	Total, Production
Avg. Daily Q MGD	0.159	0.717	0.063	0.939
Total Q MG	4.756	21.519	1.900	28.175
Total Acre Feet	14.596	66.093	5.831	86.520

* 1,552,100 Gallons of Potable Water Was Used to Supplement the Recycled Water Total Production

ETWD WATER SAVINGS COMPARED TO 2013



ETWD WATER SAVINGS COMPARED TO 2013



JAMES C. BARKER, PC
ATTORNEY AND COUNSELOR AT LAW
FIFTH FLOOR
1050 THOMAS JEFFERSON STREET, NW
WASHINGTON, DC 20007
(202) 293-4064
jimbarker@jcbdc.com

Nicholas Crockett
Allison Leavitt

Municipal Water District of Orange County, California
Washington Update
December 11, 2018

At press time, there is a major effort in Washington to find a path to pass the seven remaining appropriations bills for this fiscal year. One of these bills has a direct bearing on MWDOC, the Interior and EPA Funding Bill—the bill that might possibly contain the Waterfix language.

At issue in this end of year funding dispute is the funding level for the Southern Border Wall. President Trump has been insisting on \$5 Billion for the “Wall” and the House and the Senate have prepared a bill with \$1.6 Billion for border wall funding for this coming fiscal year.

Earlier today in the White House, in a meeting with the two Democratic Congressional Leaders, President Donald Trump threatened to shut down large parts of the federal government over funding for his proposed border wall and openly disagreed with the Senate Minority Leader and the House Minority Leader in an open press availability before the media in the Oval Office.

President Trump criticized congressional Democrats for not agreeing to his request for \$5 billion for a border wall, and asserted that "one way or another it is going to be built" and that he would have "no other choice" but to shut down the government if he doesn't get enough funding for the wall.

This is the backdrop behind the negotiations to fund the seven appropriations bills that have yet to pass this year. The time is tight. The current funding authority, the Continuing Resolution will keep the federal government agencies running until Friday, December 21, the weekend before Christmas.

The current thinking laid out by top appropriations staffers that we visit with believe there are likely four scenarios: 1) a final Omnibus Bill passes with the remaining bills contained within the package intact and some accord is reached on Border Wall Funding; 2) Six bills pass as a

package and the Homeland Security Department funding bill is either passed as a yearlong funding bill or its funding is pushed into the new year—and note this is the bill that would specifically include border wall funding; or, 3) a new Continuing Resolution (Funding Bill or CR) is passed until sometime during the first quarter of 2019; or, 4) a long term CR is passed that funds all seven bills until September 30, 2019. We are hoping that the Interior Appropriations Bill can pass in some capacity before the end of this year. Key leadership offices are still not certain if the Waterfix Language will be included in the final Interior Bill. We are working on this and monitoring the situation closely. Other issues in play that affect the State of California are: Wildfire Funding, the Colorado River Drought Contingency legislative language, and WIIN Act extensions.

Wildfire Funding:

Another related issue for the end of the year funding process deals with wildfire related funding.

In a November 29th letter to Senate leadership, Senators Feinstein and Harris requested \$9.054 billion be included in the anticipated disaster supplemental funding package to address the historic and catastrophic California wildfires. Senators Feinstein and Harris based the amount they requested on a November 28th letter to congressional leadership from California Governor's Office that outlined a request for the same amount. The California Governor's Office \$9 billion request includes funding beyond the costs of fire suppression and immediate disaster relief: it also includes early estimated costs of recovery and rebuilding.

In a subsequent December 1st letter to House leadership, all fifty-three California members of the House of Representatives signed a letter requesting \$4.4 billion in disaster relief funding for California. The House request is roughly half the amount requested by the California Governor's Office, but importantly, reflects an amount negotiated between House Democrats and Republicans and is believed to be a more realistic amount to be included in an emergency supplemental to address this year's California wildfire disasters.

The timing of the emergency supplemental is unclear given the unrelated, yet all-consuming, FY19 spending negotiations between Congress and the White House that remain ongoing. We are monitoring this closely. See the attached letters on this Wildfire issue.

Election shake out:

The Senate will be 53R-47D and the House will be approximately 235D-200R in the new year. One out of every five Members in the House is "new" with some 90 new Members.

The practice of Congressionally Directed Spending or “Earmarks” continues to be discussed widely here in the halls of Congress but no official directives have been provided to Member Offices or Congressional Committees at this time. Decisions regarding “earmarks” are likely to be made by the first part of February, if not before, so that an orderly appropriations process can take place in the new year.

Infrastructure Bill in the New Congress:

Congressman Peter DeFazio (D-Ore.), who will become the House Transportation and Infrastructure Committee Chairman, has made many positive comments about an infrastructure bill in the new year—with a section on water infrastructure. "Welcome to the day after the election," he told reporters after the election. "This is the day we begin planning to deliver a major infrastructure package."

He is in the process of meeting with White House Officials and he's hopeful he can work with the White House on a bipartisan infrastructure plan with "real investment" — not "pretend stuff". Meanwhile, his counterpart in the Senate was quoted this past week as saying perhaps the best way to move infrastructure projects is to pass traditional funding bills and use existing funding programs. The dust is still settling on all of this. Even if Congressman DeFazio wants to pass a major infrastructure bill with a water component in it—he needs to find a funding stream to pay for the infrastructure—something that has been very difficult to do. This is an issue we will be watching closely in the new year and will continually update you on.

See two Wildfire Attachments

JCB 12/11/18

Congress of the United States
Washington, DC 20515

December 1, 2017

The Honorable Rodney Frelinghuysen
Chairman
House Committee on Appropriations
United States Capitol, Room H-305
Washington, D.C. 20515

The Honorable Nita Lowey
Ranking Member
House Committee on Appropriations
United States Capitol, Room H-305
Washington, D.C. 20515

Dear Chairman Frelinghuysen and Ranking Member Lowey:

Thank you for your efforts to secure emergency relief funds this year, including vital funds for hurricane relief and wildfire suppression.

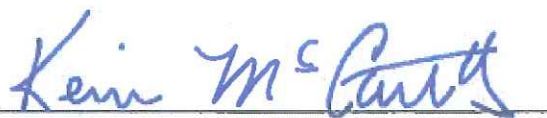
As you work to develop supplemental disaster relief legislation, we strongly support the State of California's current request for \$4.4 billion in wildfire relief funds and respectfully request it be included in the bill. We also ask that targeted tax relief for wildfire survivors be included.

This October, California experienced the worst fires in our state's history. These fires, which started on October 8th, burned more than 240,000 acres and destroyed 8,800 structures. They forced 10,000 people to evacuate and left many families with nothing. Tragically, 44 people lost their lives. On October 10, 2017, the President approved a major disaster declaration for these fires.

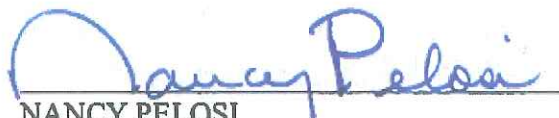
While Congress has approved much-needed support for the Federal Emergency Management Agency's (FEMA) Disaster Relief Fund and wildfire suppression efforts this year, additional Federal resources are critical to putting our fire-impacted communities on the road to recovery.

Thank you for your consideration of this important request. A swift Federal response is vital, and we appreciate your dedication to helping our communities recover and rebuild.

Sincerely,



KEVIN MCCARTHY
House Majority Leader



NANCY PELOSI
House Democratic Leader



KEN CALVERT
Member of Congress



MIKE THOMPSON
Member of Congress



COL. PAUL COOK (RET.)
Member of Congress



JEFF DORNHAM
Member of Congress



JOHN GARAMENDI
Member of Congress



JARED HUFFMAN
Member of Congress



DUNCAN HUNTER
Member of Congress




RO KHANNA
Member of Congress



DOUG LAMALFA
Member of Congress



TOM McCLINTOCK
Member of Congress



JERRY McNERNEY
Member of Congress



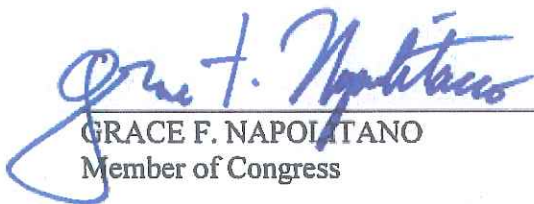
EDWARD R. ROYCE
Member of Congress



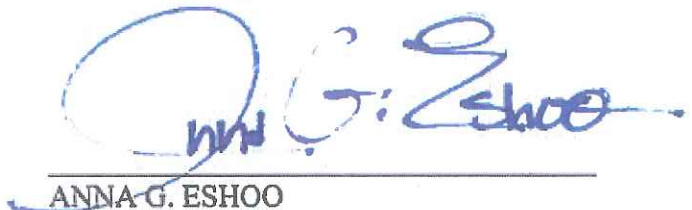
MIMI WALTERS
Member of Congress



AMI BERA, M.D.
Member of Congress



GRACE F. NAPOKITANO
Member of Congress



ANNA G. ESHOO
Member of Congress

Doris Matsui

DORIS MATSUI
Member of Congress

Jim A

JIM COSTA
Member of Congress

Mark Desaulnier

MARK DESAULNIER
Member of Congress

Salud O. Carbal

SALUD O. CARBAJAL
Member of Congress

Susan A. Davis

SUSAN A. DAVIS
Member of Congress

Julia Brownley

JULIA BROWNLEY
Member of Congress

Luis Correa

LUIS CORREA
Member of Congress

Judy Chu

JUDY CHU
Member of Congress

Pete Aguilar

PETE AGUILAR
Member of Congress

Nanette Diaz Barragan

NANETTE DIAZ BARRAGAN
Member of Congress

Juan Vargas

JUAN VARGAS
Member of Congress

Maxine Waters

MAXINE WATERS
Member of Congress

Raul Ruiz

RAUL RUIZ, M.D.
Member of Congress

Jimmy Panetta

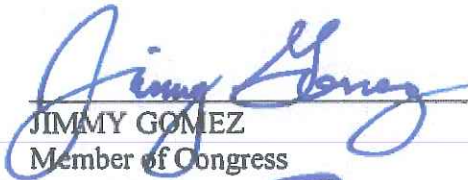
JIMMY PANETTA
Member of Congress



ADAM B. SCHIFF
Member of Congress



TONY CARDENAS
Member of Congress



JIMMY GOMEZ
Member of Congress



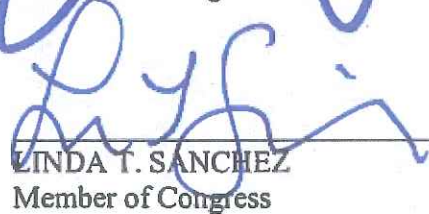
LUCILLE ROYBAL ALLARD
Member of Congress



ZOE LOFGREN
Member of Congress



ERIC SWALWELL
Member of Congress



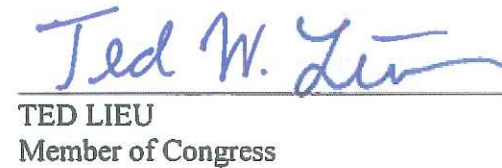
LINDA T. SANCHEZ
Member of Congress



DEVIN NUNES
Member of Congress



STEPHEN KNIGHT
Member of Congress



TED LIEU
Member of Congress



DAVID G. VALADAO
Member of Congress



KAREN BASS
Member of Congress



ALAN S. LOWENTHAL
Member of Congress



BARBARA LEE
Member of Congress



DARRELL E. ISSA
Member of Congress



JACKIE SPEIER
Member of Congress



NORMA J. TORRES
Member of Congress



SCOTT H. PETERS
Member of Congress



DANA ROHRABACHER
Member of Congress



BRAD SHERMAN
Member of Congress



MARK TAKANO
Member of Congress

United States Senate

WASHINGTON, DC 20510

November 29, 2018

The Honorable Mitch McConnell
Senate Majority Leader
317 Russell Senate Office Building
Washington, DC 20510

The Honorable Chuck Schumer
Democratic Leader
322 Hart Senate Office Building
Washington, DC 20510

The Honorable Richard Shelby
Chairman
Senate Appropriations Committee
Room S-128, The Capitol
Washington, DC 20510

The Honorable Patrick Leahy
Vice Chairman
Senate Appropriations Committee
Room S-146, The Capitol
Washington, DC 20510

Dear Senators McConnell, Schumer, Shelby, and Leahy:

As you develop a disaster supplemental funding package, we ask that you include \$9.054 billion and disaster-related tax relief, as requested by the California Governor's Office, to help California recover from this year's devastating wildfires.

The scale of the destruction from this month's wildfires is unprecedented. Now the deadliest wildfire in California history, the Camp Fire in Butte County has killed at least 88 people, destroyed almost 14,000 homes, burned 153,000 acres and destroyed the entire Town of Paradise. At the same time resources were stretched thin fighting the Camp Fire in northern California, the Woolsey and Hill Fires raging in southern California killed three people, destroyed nearly 400 homes, and burned 100,000 acres.

State and local governments in California are still in the early stages of recovery from this disaster and are still assessing damages and impacts. However, the Governor's Office has worked with the affected counties and communities to determine that \$9.054 billion in federal funding is needed as of November 28, 2018 to help California recover.

Thank you for your consideration of our request. As you work to determine disaster supplemental funding levels and the inclusion of tax relief for disaster-affected communities, we look forward to working with you to ensure that all Americans who have been severely impacted by recent natural disasters across the United States receive the federal support they need and deserve.

Sincerely,



Dianne Feinstein
United States Senator



Kamala D. Harris
United States Senator

Enclosure: November 28, 2018 letter from the California Governor's Office of Emergency Services

EDMUND G. BROWN JR.
GOVERNOR

MARK S. GHILARDUCCI
DIRECTOR



November 28, 2018

The Honorable Mitch McConnell
Majority Leader
United States Senate
Washington, DC 20510

The Honorable Chuck Schumer
Minority Leader
United States Senate
Washington, DC 20510

The Honorable Richard Shelby
Chairman

The Honorable Patrick Leahy
Ranking Member
Committee on Appropriations
United States Senate
Washington, DC 20510

Committee on Appropriations
United States Senate
Washington, DC 20510

Dear Mr. Speaker, Minority Leader Pelosi, Chairman Frelinghuysen and Ranking Member Lowey,

The State of California respectfully requests a Supplemental Appropriation for disaster funding in order to support California's recovery from the 2018 Wildfires. In Butte County, the Camp Fire alone has once again broken records for the deadliest and most destructive fire in the state's history. This disaster has literally destroyed the entire Town of Paradise. Simultaneously, in Southern California, the Hill and Woolsey Fires have caused immense destruction in both Ventura and Los Angeles counties.

Together, the Camp, Hill, and Woolsey fires have burned more than 247,000 acres, and at their peak, required the deployment of over 9,000 firefighters, 1,246 fire engines, 500 law enforcement personnel and over 1000 National Guard troops. Between all fires, over 20,000 structures have been destroyed, with over 18,000 in the Town of Paradise alone, and more than 1,000 have been damaged. Thus far, the fires have claimed 91 lives, and have destroyed significant infrastructure systems. While it will take years for these communities to fully recover, the funding identified in this request is essential to support our immediate efforts to recover from these catastrophic events.

On November 16, California submitted a request to the White House requesting 100 percent cost share waiver for the first 90 days of these wildfires for Categories A (Debris Removal) and B (Emergency Protective Measures). The state has not yet received a determination regarding this request.

Thank you for your consideration of this supplemental appropriation request. These recent events have been both tragic and overwhelmingly impactful. I look forward to working with you and the members of our delegation to ensure that the communities affected by these devastating wildfires have all of the necessary and available resources to help them recover.

Sincerely,

MARK S. GHILARDUCCI
Director

Mark Ghilarducci
November 28, 2018
Page 2

Enclosure: Supplemental Funding Request by Federal Agency

cc: The Honorable Dianne Feinstein
The Honorable Kamala Harris

On November 8, a series of destructive wildfires erupted across California during a Red Flag wind event that spanned most of the state. The Camp Fire, now the most destructive fire in California history, the Woolsey Fire, and the Hill Fire destroyed over 20,000 structures and damaged over 1,000 structures. Subsequent evacuations displaced hundreds of thousands during the holiday season and, at its peak, 2,070 individuals and families found themselves in shelters while waiting to hear if their homes and businesses survived the still-raging infernos. There are still 893 survivors living in six different shelters, and there are 289 survivors living in hotels under the Federal Emergency Management Agency's Transitional Sheltering Assistance Program. California is still in the response phase for these disasters, and is entering the initial stages of the recovery phase.

California state agencies have been working to calculate very preliminary estimates of damages and costs for this event. The following cost estimates are inclusive of the latest data available and could rise significantly depending on a number of variables that will impact the recovery of affected communities, including insurance coverage, complications and damage from expected future storms, and other factors.

Federal Emergency Management Agency: \$4 billion

The Federal Emergency Management Agency (FEMA) partnered with the state and local governments starting November 8, the day the fires began, and has continuously disbursed Individual Assistance programs to the affected communities and provided Public Assistance Emergency Work (Categories A and B). FEMA will assist in hazardous household waste and debris removal in Butte, Ventura, and Los Angeles counties, which will allow these communities to begin rebuilding homes, businesses, and schools. California also received a federal declaration allowing for Permanent Work (Categories C through G), which provides funding for roads and bridges, water control facilities, public buildings and contents, public utilities, parks, and recreational and other facilities.

This supplemental request takes into account an initial estimate of \$3.5 billion for household hazardous waste and debris removal. This cost may increase based on weather delays, landfill availability and locations, and other programmatic increases. The initial request for Categories C through G specifically is \$80 million; however this is a very early, preliminary estimate. California and the local communities affected by these disasters are in the process of transitioning from response to recovery, and the affected communities are still evaluating costs that are eligible under insurance versus those that are eligible under the Stafford Act Program.

These funds are critical for the schools and students impacted by the fires. At their peak, the wildfires closed over 1,000 public and private schools, destroyed six schools, and damaged ten, and displaced over 1,000,000 students. Relief is needed for school districts to address school expenses, which include infrastructure needs, extended and/or emergency staffing, temporary school facilities, student counseling services, and lost supplies (textbooks, technology, and student materials). The majority of these costs can be funded through FEMA programs and insurance, so the full impact of necessary funding will take additional time to determine.

This appropriation is requested to robustly fund FEMA's Hazard Mitigation program, which provides essential assistance to the state and local communities in reducing the risk of damage to people, property, and infrastructure in future disasters. Additional funding for FEMA's Disaster

Relief and Community Development funds is imperative to ensure that FEMA can continue to meet its obligations from previous natural disasters without jeopardizing its ability to respond to future events.

U.S. Department of Housing and Urban Development: \$4.2 billion for 2018 Wildfires / \$2.4 billion in Unmet Needs from 2017

As a result of the November 2018 wildfires, over 20,000 structures were destroyed, including an estimated 15,000 homes. Six schools have been destroyed, and an additional ten schools have been damaged. Community Disaster Block Grant Disaster Recovery (CDBG-DR) funds are only available through a Congressional appropriation and must be used for specific disaster recovery-related purposes. This funding is required to meet the projected need to recover and reconstruct destroyed homes, communities, and infrastructure due to the recent wildfires in Butte, Los Angeles, and Ventura counties.

This appropriation is requested to robustly fund the U.S. Department of Housing and Urban Development's (HUD) Disaster Mitigation program for California statewide. Though the Federal Register notice is expected in December 2018, the program is purported to provide essential assistance to the state and local communities in reducing the risk of damage to people, property, and infrastructure in future disasters. This funding is imperative to ensure that impacted communities can continue to carry out and refine resilience and mitigation priorities to reduce the occurrence and impacts of future disasters.

Additionally, the state is requesting an additional appropriation to fund ongoing recovery following significant disasters in 2017. In April 2018, HUD announced that California would receive \$212 million in CDBG-DR funding to support long-term recovery efforts following the devastation of the 2017 Wildfires (DR-4344) and the 2017 Wildfires, Flooding, Mudflows, and Debris Flows (DR-4353). However, the recovery needs – particularly the economic recovery needs – in the affected areas far exceed the available resources. The state continues to coordinate with local and federal partners with respect to ongoing data collection efforts, identifying resources, and understanding how unmet needs evolve over time. The 2017 disasters have had a substantial impact on local businesses, employees, and key industries, including the agricultural and tourism industries. Therefore, the state is requesting this additional appropriation of CDBG-DR funding to allow the creation of programs to assist in continuing to address housing, infrastructure, and economic recovery of the impacted areas.

U.S. Department of Labor: \$50 million

The impact of the fires has resulted in the loss of jobs, and displaced workers. In order to respond to the immediate and short-term employment needs of displaced workers in the impacted areas, the California Employment Development Department is pursuing a National Dislocated Worker Grant to implement a temporary jobs program. National Dislocated Worker Grants are discretionary grants awarded by the U.S. Department of Labor under the Workforce Innovation and Opportunity Act. The National Dislocated Worker Grant funding is distributed by the California Employment Development Department to Local Workforce Development Areas and/or Project Operators in the impacted areas.

Workers fill temporary jobs that not only assist various cleanup and repair projects on public and tribal lands, but also enhance their employability and earnings. The grant funds will provide short-

term employment for individuals in Butte, Los Angeles, and Ventura counties. The Employment Development Department will be seeking flexibility in the funding authorization to allow for projects on both public and private lands.

U.S. Department of Agriculture: \$80 million

Funding of \$10 million is requested for the U.S. Department of Agriculture (USDA) to address significant damage to farmland and dairies, rangeland, and watersheds. This number is a preliminary estimate, as the state is still in the response phase of these disasters. Because the state is so early in the process of recovery, this number is expected to change. These wildfires have necessitated not only the evacuation and sheltering of survivors, but also of pets and livestock. At the peak of the fires, over 2,500 animals were sheltered by local communities with support from the California Department of Food and Agriculture.

Farm Service

Funding for the USDA Emergency Watershed Protection Program and Farm Service Agency Disaster Assistance Programs will provide post-fire restoration work on agricultural land in California, in addition to critical watershed restoration and repairs. The program is essential to rehabilitate farmland and reduce longer-term agricultural production declines associated with the catastrophic fires. Overall, a supplemental appropriation would allow the USDA to fund current requested crop loss funding for California agricultural communities. However, with the significant losses associated with agriculture, farm, and dairy businesses, future funding needs are anticipated.

Natural Resources Conservation Service

A significant appropriation is requested to restore the U.S. Forest Service funding. At the peak of this event, the counties included in the President's Major Disaster Declaration experienced three major fires burning simultaneously, which destroyed over 247,000 acres. At the peak, there were 8,900 firefighters working on extinguishing the Camp, Hill, and Woolsey fires, with 1,246 engines deployed.

California also requests additional funding for local watershed projects administered by the National Resources Conservation Service, such as the Emergency Watershed Protection Program, the Watershed and Flood Prevention Operations Program, and Environmental Quality Incentives Program. These will assist in efforts to effect on-the-ground recovery through local resource conservation and district partners as future weather poses a significant threat to the watershed in the local communities.

U.S. Department of Transportation: \$64 million for 2018 Wildfires / \$1.1 billion in Unmet Needs from 2017 Wildfires

Additional funding towards the U.S. Department of Transportation's Emergency Relief Program, the Public Transportation Emergency Relief Program, and other programs that can provide immediate assistance and resources to repair and rebuild California's federal-aid highways and roads impacted by the wildfire events in Butte, Los Angeles, and Ventura counties are at \$64 million and are subject to increase.

California also requests additional funding of \$1.1 billion for current damage estimates under the above programs for damage that occurred to the state's highways and local roads prior to the November 2018 wildfires.

U.S. Department of Commerce: \$600 million

The U.S. Department of Commerce's Economic Development Administration plays a crucial role in facilitating the delivery of economic assistance to local governments for long-term recovery planning, reconstruction, and resiliency in response to Presidential Major Disaster Declarations. The Economic Development Administration grants emphasize disaster resiliency to help mitigate the potential of economic hardship as a result of future wildfires. The 2018 wildfires had a devastating impact on California's local communities, at a time when the state is still recovering from the 2017 wildfires.

Funding an additional \$600 million in economic assistance will allow each of the impacted counties to complete projects to support the long-term recovery planning, reconstruction, and resiliency of California's businesses, nonprofit organizations, and agricultural, tourism, and other industries, as well as assist in rebuilding the entire community of Paradise, in Butte County.

U.S. Small Business Administration

This program provides low-interest loans to businesses, private non-profit organizations, homeowners, and renters. These Small Business Administration benefits will greatly assist businesses and the local economies affected by the November 2018 wildfires by allowing for repair or replacement of damaged or destroyed real estate, personal property, machinery, equipment, inventory, and business assets. The U.S. Small Business Administration was previously funded to cover loans associated with the 2017 wildfires without the need of a supplemental appropriation. At this time, no supplemental funding is being requested for this program.

U.S. Department of Education: \$70 million

California requests an appropriation to the U.S. Department of Education of \$20 million for the Immediate Aid to Restart School Operations Program (RESTART), and \$50 million for the Temporary Emergency Impact Aid for Displaced Students Program (Impact Aid). The purpose of these programs is to assist local educational agencies and non-public schools with expenses related to the restart of elementary and secondary schools, and to make impact aid payments for the cost of displaced students in areas where a major disaster has been declared. At the height of the fires, over 1,000 schools were closed, and over 1,000,000 students were displaced. As mentioned above, ten schools were damaged, and six schools were destroyed by the November 2018 wildfires. This funding will be essential in helping students return to school and restore and regain a critical part of their community.

Last year, California received RESTART funding in response to the 2017 wildfires. \$8 million of that funding is still available from the U.S. Department of Education for costs that were covered by FEMA. California requests that this funding be reallocated to address the 2018 wildfires.

Tax Relief

As was granted after the 2017 wildfires, targeted tax relief will directly aid Californians in rebuilding their homes and communities in Butte, Los Angeles, and Ventura counties. We support language that will help Californians receive tax relief for non-itemized deductions for casualty losses waiving the current-law requirement that losses exceed 10 percent of adjusted gross income; penalty-free access to retirement funds; disaster-related employment relief; earned income tax credit reporting-year flexibility; and enhancement of charitable giving incentives.

United States Senate

WASHINGTON, DC 20510

November 29, 2018

The Honorable Mitch McConnell
Senate Majority Leader
317 Russell Senate Office Building
Washington, DC 20510

The Honorable Chuck Schumer
Democratic Leader
322 Hart Senate Office Building
Washington, DC 20510

The Honorable Richard Shelby
Chairman
Senate Appropriations Committee
Room S-128, The Capitol
Washington, DC 20510

The Honorable Patrick Leahy
Vice Chairman
Senate Appropriations Committee
Room S-146, The Capitol
Washington, DC 20510

Dear Senators McConnell, Schumer, Shelby, and Leahy:

As you develop a disaster supplemental funding package, we ask that you include \$9.054 billion and disaster-related tax relief, as requested by the California Governor's Office, to help California recover from this year's devastating wildfires.

The scale of the destruction from this month's wildfires is unprecedented. Now the deadliest wildfire in California history, the Camp Fire in Butte County has killed at least 88 people, destroyed almost 14,000 homes, burned 153,000 acres and destroyed the entire Town of Paradise. At the same time resources were stretched thin fighting the Camp Fire in northern California, the Woolsey and Hill Fires raging in southern California killed three people, destroyed nearly 400 homes, and burned 100,000 acres.

State and local governments in California are still in the early stages of recovery from this disaster and are still assessing damages and impacts. However, the Governor's Office has worked with the affected counties and communities to determine that \$9.054 billion in federal funding is needed as of November 28, 2018 to help California recover.

Thank you for your consideration of our request. As you work to determine disaster supplemental funding levels and the inclusion of tax relief for disaster-affected communities, we look forward to working with you to ensure that all Americans who have been severely impacted by recent natural disasters across the United States receive the federal support they need and deserve.

Sincerely,


Dianne Feinstein
United States Senator


Kamala D. Harris
United States Senator

Enclosure: November 28, 2018 letter from the California Governor's Office of Emergency Services



November 28, 2018

The Honorable Mitch McConnell
Majority Leader
United States Senate
Washington, DC 20510

The Honorable Chuck Schumer
Minority Leader
United States Senate
Washington, DC 20510

The Honorable Richard Shelby
Chairman

Committee on Appropriations
United States Senate
Washington, DC 20510

The Honorable Patrick Leahy
Ranking Member
Committee on Appropriations
United States Senate
Washington, DC 20510

Dear Mr. Speaker, Minority Leader Pelosi, Chairman Frelinghuysen and Ranking Member Lowey,

The State of California respectfully requests a Supplemental Appropriation for disaster funding in order to support California's recovery from the 2018 Wildfires. In Butte County, the Camp Fire alone has once again broken records for the deadliest and most destructive fire in the state's history. This disaster has literally destroyed the entire Town of Paradise. Simultaneously, in Southern California, the Hill and Woolsey Fires have caused immense destruction in both Ventura and Los Angeles counties.

Together, the Camp, Hill, and Woolsey fires have burned more than 247,000 acres, and at their peak, required the deployment of over 9,000 firefighters, 1,246 fire engines, 500 law enforcement personnel and over 1000 National Guard troops. Between all fires, over 20,000 structures have been destroyed, with over 18,000 in the Town of Paradise alone, and more than 1,000 have been damaged. Thus far, the fires have claimed 91 lives, and have destroyed significant infrastructure systems. While it will take years for these communities to fully recover, the funding identified in this request is essential to support our immediate efforts to recover from these catastrophic events.

On November 16, California submitted a request to the White House requesting 100 percent cost share waiver for the first 90 days of these wildfires for Categories A (Debris Removal) and B (Emergency Protective Measures). The state has not yet received a determination regarding this request.

Thank you for your consideration of this supplemental appropriation request. These recent events have been both tragic and overwhelmingly impactful. I look forward to working with you and the members of our delegation to ensure that the communities affected by these devastating wildfires have all of the necessary and available resources to help them recover.

Sincerely,

MARK S. GHILARDUCCI
Director

Mark Ghilarducci
November 28, 2018
Page 2

Enclosure: Supplemental Funding Request by Federal Agency

cc: The Honorable Dianne Feinstein
The Honorable Kamala Harris

On November 8, a series of destructive wildfires erupted across California during a Red Flag wind event that spanned most of the state. The Camp Fire, now the most destructive fire in California history, the Woolsey Fire, and the Hill Fire destroyed over 20,000 structures and damaged over 1,000 structures. Subsequent evacuations displaced hundreds of thousands during the holiday season and, at its peak, 2,070 individuals and families found themselves in shelters while waiting to hear if their homes and businesses survived the still-raging infernos. There are still 893 survivors living in six different shelters, and there are 289 survivors living in hotels under the Federal Emergency Management Agency's Transitional Sheltering Assistance Program. California is still in the response phase for these disasters, and is entering the initial stages of the recovery phase.

California state agencies have been working to calculate very preliminary estimates of damages and costs for this event. The following cost estimates are inclusive of the latest data available and could rise significantly depending on a number of variables that will impact the recovery of affected communities, including insurance coverage, complications and damage from expected future storms, and other factors.

Federal Emergency Management Agency: \$4 billion

The Federal Emergency Management Agency (FEMA) partnered with the state and local governments starting November 8, the day the fires began, and has continuously disbursed Individual Assistance programs to the affected communities and provided Public Assistance Emergency Work (Categories A and B). FEMA will assist in hazardous household waste and debris removal in Butte, Ventura, and Los Angeles counties, which will allow these communities to begin rebuilding homes, businesses, and schools. California also received a federal declaration allowing for Permanent Work (Categories C through G), which provides funding for roads and bridges, water control facilities, public buildings and contents, public utilities, parks, and recreational and other facilities.

This supplemental request takes into account an initial estimate of \$3.5 billion for household hazardous waste and debris removal. This cost may increase based on weather delays, landfill availability and locations, and other programmatic increases. The initial request for Categories C through G specifically is \$80 million; however this is a very early, preliminary estimate. California and the local communities affected by these disasters are in the process of transitioning from response to recovery, and the effected communities are still evaluating costs that are eligible under insurance versus those that are eligible under the Stafford Act Program.

These funds are critical for the schools and students impacted by the fires. At their peak, the wildfires closed over 1,000 public and private schools, destroyed six schools, and damaged ten, and displaced over 1,000,000 students. Relief is needed for school districts to address school expenses, which include infrastructure needs, extended and/or emergency staffing, temporary school facilities, student counseling services, and lost supplies (textbooks, technology, and student materials). The majority of these costs can be funded through FEMA programs and insurance, so the full impact of necessary funding will take additional time to determine.

This appropriation is requested to robustly fund FEMA's Hazard Mitigation program, which provides essential assistance to the state and local communities in reducing the risk of damage to people, property, and infrastructure in future disasters. Additional funding for FEMA's Disaster

Relief and Community Development funds is imperative to ensure that FEMA can continue to meet its obligations from previous natural disasters without jeopardizing its ability to respond to future events.

U.S. Department of Housing and Urban Development: \$4.2 billion for 2018 Wildfires / \$2.4 billion in Unmet Needs from 2017

As a result of the November 2018 wildfires, over 20,000 structures were destroyed, including an estimated 15,000 homes. Six schools have been destroyed, and an additional ten schools have been damaged. Community Disaster Block Grant Disaster Recovery (CDBG-DR) funds are only available through a Congressional appropriation and must be used for specific disaster recovery-related purposes. This funding is required to meet the projected need to recover and reconstruct destroyed homes, communities, and infrastructure due to the recent wildfires in Butte, Los Angeles, and Ventura counties.

This appropriation is requested to robustly fund the U.S. Department of Housing and Urban Development's (HUD) Disaster Mitigation program for California statewide. Though the Federal Register notice is expected in December 2018, the program is purported to provide essential assistance to the state and local communities in reducing the risk of damage to people, property, and infrastructure in future disasters. This funding is imperative to ensure that impacted communities can continue to carry out and refine resilience and mitigation priorities to reduce the occurrence and impacts of future disasters.

Additionally, the state is requesting an additional appropriation to fund ongoing recovery following significant disasters in 2017. In April 2018, HUD announced that California would receive \$212 million in CDBG-DR funding to support long-term recovery efforts following the devastation of the 2017 Wildfires (DR-4344) and the 2017 Wildfires, Flooding, Mudflows, and Debris Flows (DR-4353). However, the recovery needs – particularly the economic recovery needs – in the affected areas far exceed the available resources. The state continues to coordinate with local and federal partners with respect to ongoing data collection efforts, identifying resources, and understanding how unmet needs evolve over time. The 2017 disasters have had a substantial impact on local businesses, employees, and key industries, including the agricultural and tourism industries. Therefore, the state is requesting this additional appropriation of CDBG-DR funding to allow the creation of programs to assist in continuing to address housing, infrastructure, and economic recovery of the impacted areas.

U.S. Department of Labor: \$50 million

The impact of the fires has resulted in the loss of jobs, and displaced workers. In order to respond to the immediate and short-term employment needs of displaced workers in the impacted areas, the California Employment Development Department is pursuing a National Dislocated Worker Grant to implement a temporary jobs program. National Dislocated Worker Grants are discretionary grants awarded by the U.S. Department of Labor under the Workforce Innovation and Opportunity Act. The National Dislocated Worker Grant funding is distributed by the California Employment Development Department to Local Workforce Development Areas and/or Project Operators in the impacted areas.

Workers fill temporary jobs that not only assist various cleanup and repair projects on public and tribal lands, but also enhance their employability and earnings. The grant funds will provide short-

term employment for individuals in Butte, Los Angeles, and Ventura counties. The Employment Development Department will be seeking flexibility in the funding authorization to allow for projects on both public and private lands.

U.S. Department of Agriculture: \$80 million

Funding of \$10 million is requested for the U.S. Department of Agriculture (USDA) to address significant damage to farmland and dairies, rangeland, and watersheds. This number is a preliminary estimate, as the state is still in the response phase of these disasters. Because the state is so early in the process of recovery, this number is expected to change. These wildfires have necessitated not only the evacuation and sheltering of survivors, but also of pets and livestock. At the peak of the fires, over 2,500 animals were sheltered by local communities with support from the California Department of Food and Agriculture.

Farm Service

Funding for the USDA Emergency Watershed Protection Program and Farm Service Agency Disaster Assistance Programs will provide post-fire restoration work on agricultural land in California, in addition to critical watershed restoration and repairs. The program is essential to rehabilitate farmland and reduce longer-term agricultural production declines associated with the catastrophic fires. Overall, a supplemental appropriation would allow the USDA to fund current requested crop loss funding for California agricultural communities. However, with the significant losses associated with agriculture, farm, and dairy businesses, future funding needs are anticipated.

Natural Resources Conservation Service

A significant appropriation is requested to restore the U.S. Forest Service funding. At the peak of this event, the counties included in the President's Major Disaster Declaration experienced three major fires burning simultaneously, which destroyed over 247,000 acres. At the peak, there were 8,900 firefighters working on extinguishing the Camp, Hill, and Woolsey fires, with 1,246 engines deployed.

California also requests additional funding for local watershed projects administered by the National Resources Conservation Service, such as the Emergency Watershed Protection Program, the Watershed and Flood Prevention Operations Program, and Environmental Quality Incentives Program. These will assist in efforts to effect on-the-ground recovery through local resource conservation and district partners as future weather poses a significant threat to the watershed in the local communities.

U.S. Department of Transportation: \$64 million for 2018 Wildfires / \$1.1 billion in Unmet Needs from 2017 Wildfires

Additional funding towards the U.S. Department of Transportation's Emergency Relief Program, the Public Transportation Emergency Relief Program, and other programs that can provide immediate assistance and resources to repair and rebuild California's federal-aid highways and roads impacted by the wildfire events in Butte, Los Angeles, and Ventura counties are at \$64 million and are subject to increase.

California also requests additional funding of \$1.1 billion for current damage estimates under the above programs for damage that occurred to the state's highways and local roads prior to the November 2018 wildfires.

U.S. Department of Commerce: \$600 million

The U.S. Department of Commerce's Economic Development Administration plays a crucial role in facilitating the delivery of economic assistance to local governments for long-term recovery planning, reconstruction, and resiliency in response to Presidential Major Disaster Declarations. The Economic Development Administration grants emphasize disaster resiliency to help mitigate the potential of economic hardship as a result of future wildfires. The 2018 wildfires had a devastating impact on California's local communities, at a time when the state is still recovering from the 2017 wildfires.

Funding an additional \$600 million in economic assistance will allow each of the impacted counties to complete projects to support the long-term recovery planning, reconstruction, and resiliency of California's businesses, nonprofit organizations, and agricultural, tourism, and other industries, as well as assist in rebuilding the entire community of Paradise, in Butte County.

U.S. Small Business Administration

This program provides low-interest loans to businesses, private non-profit organizations, homeowners, and renters. These Small Business Administration benefits will greatly assist businesses and the local economies affected by the November 2018 wildfires by allowing for repair or replacement of damaged or destroyed real estate, personal property, machinery, equipment, inventory, and business assets. The U.S. Small Business Administration was previously funded to cover loans associated with the 2017 wildfires without the need of a supplemental appropriation. At this time, no supplemental funding is being requested for this program.

U.S. Department of Education: \$70 million

California requests an appropriation to the U.S. Department of Education of \$20 million for the Immediate Aid to Restart School Operations Program (RESTART), and \$50 million for the Temporary Emergency Impact Aid for Displaced Students Program (Impact Aid). The purpose of these programs is to assist local educational agencies and non-public schools with expenses related to the restart of elementary and secondary schools, and to make impact aid payments for the cost of displaced students in areas where a major disaster has been declared. At the height of the fires, over 1,000 schools were closed, and over 1,000,000 students were displaced. As mentioned above, ten schools were damaged, and six schools were destroyed by the November 2018 wildfires. This funding will be essential in helping students return to school and restore and regain a critical part of their community.

Last year, California received RESTART funding in response to the 2017 wildfires. \$8 million of that funding is still available from the U.S. Department of Education for costs that were covered by FEMA. California requests that this funding be reallocated to address the 2018 wildfires.

Tax Relief

As was granted after the 2017 wildfires, targeted tax relief will directly aid Californians in rebuilding their homes and communities in Butte, Los Angeles, and Ventura counties. We support language that will help Californians receive tax relief for non-itemized deductions for casualty losses waiving the current-law requirement that losses exceed 10 percent of adjusted gross income; penalty-free access to retirement funds; disaster-related employment relief; earned income tax credit reporting-year flexibility; and enhancement of charitable giving incentives.



BEST BEST & KRIEGER
ATTORNEYS AT LAW

Memorandum

To: Municipal Water District of Orange County
From: Syrus Devers, Best Best & Krieger
Date: December 17, 2018
Re: Monthly State Political Report

Legislative Report

Both houses of the Legislature met on December 3rd to swear in the 2019/2020 class and introduce new legislation. Over two hundred bills were put across the respective desks including AB 134 (Bloom), a spot bill on safe drinking water. Remember that Assembly Member Bloom chairs the budget subcommittee on Natural Resources. The first bill out of the Senate was authored by the Pro Tem Toni Atkins. It reintroduces a bill from last year to prevent changes in federal environmental laws from having any impact in California. That bill, along with several others, make it clear that California's opposition to Pres. Trump won't be ending anytime soon. It's hard to generalize about the Democrats legislative agenda by looking at the bills introduced on the first day, but liability for wildfires and housing were two of the predominant themes. Governor-Elect Newsom appears to be staking out education as his main issue. And then everyone went home.

The Third House in Sacramento is watching to see how the Assembly policy committees might be reorganized. Rumors abound that finding suitable postings for so many Democrats may cause some committees to be split up. New Senate committee assignments are due out anytime but were unavailable at the time of this report. BB&K will provide an update the PAL Committee meeting.

Administrative Report

WaterFix: The Department of Water Resources withdrew its Consistency Determination for the WaterFix from the Delate Stewardship Council (DSC), thereby avoiding a confrontation. The DSC staff report included criticisms of the environmental data and DWR decided to address the problems instead of picking a fight where it was unclear what they had to gain. Media statements of questionable accuracy leading up to the DSC hearing set the stage for what may have been one of the most contentious hearings ever. The Sacramento Bee, for example, all but said the DSC could possibly stop WaterFix with a single vote. That would likely have attracted the...more strident...opponents of the WaterFix.

The County of Orange Report

December 11, 2018
by Lewis Consulting Group

Orange County's **Changed** Political **Landscape**

4th Supervisor **Nelson/OPEN** → **Doug Chaffee**

Anticipate that Chaffee's four GOP colleagues will attempt to marginalize him as they will not enjoy the prospect of future challenges from Democrats.

Assemblyman **Matt Harper** → **Cottie Petrie-Norris**

State Senator **Janet Nguyen** → **Tom Umberg**

These two legislative losses in Orange County enhance the Democrats stronghold on the State Capitol. With the 2018 election results in, Democrats now outnumber Republicans 29-11 in the upper chamber; two more than the magic 2/3 Super Majority. In the Assembly, Republicans border on irrelevancy, holding 20 of 80 seats. The 20 Republicans represent a historic low in California.

Congressman **Dana Rohrbacher** → **Harley Rouda**

Congressman **Ed Royce/OPEN** → **Gil Cisneros**

Congresswoman **Mimi Walters** → **Katie Porter**

Congressman **Darrell Issa/OPEN** → **Mike Levin**

California Republicans entered the 2018 elections holding 14 of the state's 53 Congressional districts. Once the last of the late "blue wave" ballots were counted, Democrats secured 46 Congressional seats in California and Republicans clung to a mere 7. The Democrat seven seat gain in California helped pad the Democrat partisan advantage in the House 235-199 with one election under legal challenge. Only in the U.S. Senate did Republicans show signs of life increasing their majority to 53-47.

No Rest For the Weary

Special Election for 3rd District Supervisor Looms

Just when Orange Countians were again enjoying the ease of retrieving their daily mail, voters in Irvine, Orange, Yorba Linda and other parts of Eastern Orange County will soon be subjected to another round of political madness.

With the departure of Supervisor Todd Spitzer, a special election will be called [probably in March 2019] to fill that seat. At this time, there is no shortage of potential candidates. Among those considering a run are Democrats Loretta Sanchez and Andy Thorburn. On the GOP side, potential candidates include Mark Murphy, Steven Choi, Don Wagner, Kris Murray, Peggy Huang with others possibly waiting in the wings.

Look for the Democrats to employ the same successful ballot harvesting technique they rolled out for the November election. As for Republicans, to have a chance to win, they will need to whittle down the field of GOP candidates. The election will be “winner-take-all”, with no run off.



The December 12th LAFCO meeting has been cancelled and those who are waiting the fate of the San Juan Capistrano Water and Wastewater Utility will now wait until the January 9, 2019 meeting for possible resolution.

Tumult at Supervisors Meeting - ICE Provides Tension



The Tuesday, December 4th meeting of the Board of Supervisors had no shortage of excitement.

The Board was mandated under a new California law, California's Truth Act, to hold a public hearing regarding the County's and the County Sheriff's level of interaction and cooperation with the Federal Immigration and Customs Enforcement [ICE].

Dozens of immigration activists attended the regularly scheduled meeting and many chose to publicly testify their opposition to ICE tactics and the County's willingness to cooperate. As the meeting progressed, the activists became increasingly agitated that their testimony wasn't drawing rapt attention from the Board or hints of appreciation.

At the conclusion of public testimony, Board Chairman Andrew Do confirmed with Legal Counsel that the Board had complied with the "letter of the law". Legal Counsel confirmed by holding a public meeting and accepting public testimony that they had and no further action was required. The Supervisors issued no public comments and decided not to ask Sheriff Barnes to testify, which he was prepared to do. The Board closed the public meeting and went immediately into closed session. The activists hurled insults and left the hearing room chanting "we'll be back!"

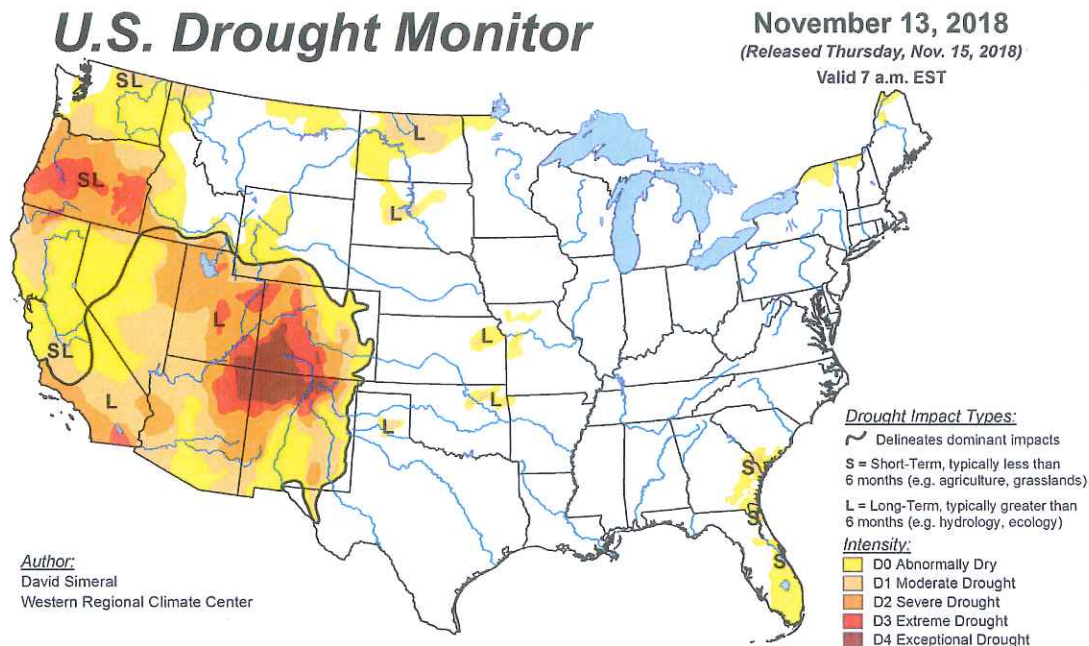
Veterans Will Have a New Cemetery

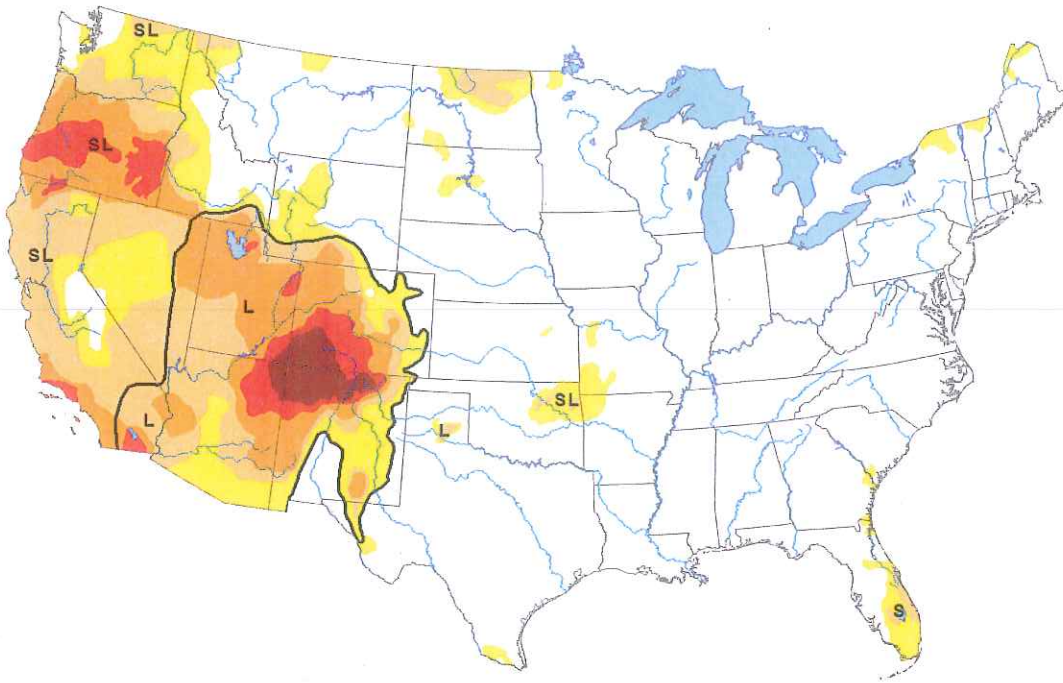
Also at the December 4th Board meeting, the Board ultimately voted 5-0 to transfer 283 acres of East Anaheim Hills property known as the Mountainview Park area to the Orange County Cemetery District. There is a shortage of public burial sites in Orange County. The property, which was part of a large gift of property to the County by businessman/philanthropist Donald Bren, will be built out slowly as it's planned to allocate 50% of burial sites for Orange County veterans. The project will require extensive grading and will be expensive. Two other alternative sites for an Orange County Veterans Cemetery are in the Irvine Great Park. So far political disagreement in Irvine has prevented a resolution for a site selection.

At the Board meeting, Supervisor Bartlett argued for a delay to give the City of Irvine more time to choose an appropriate location. An Irvine site would be less expensive to develop. Her plan for a delay fell on deaf ears and in spite of her impassioned opposition to an immediate vote, Bartlett voted with her colleagues to make it an unanimous vote.

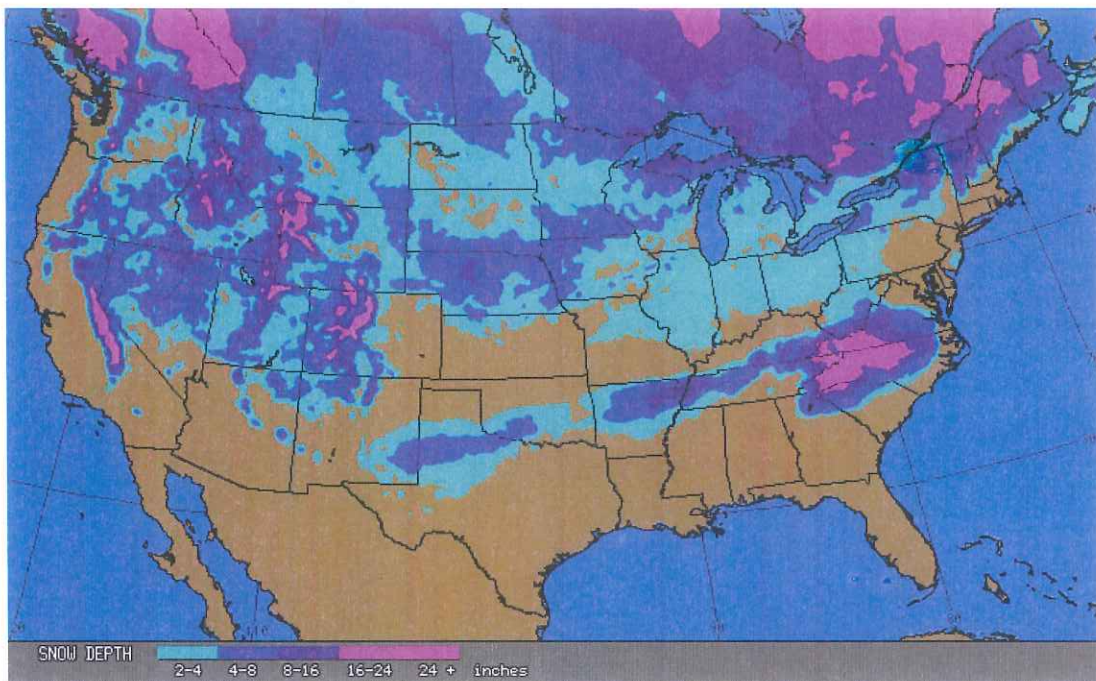


Mother Nature Loosens Grip on Western Drought





U.S. Drought Monitor December 6, 2018 - does not include December 6 rainfall



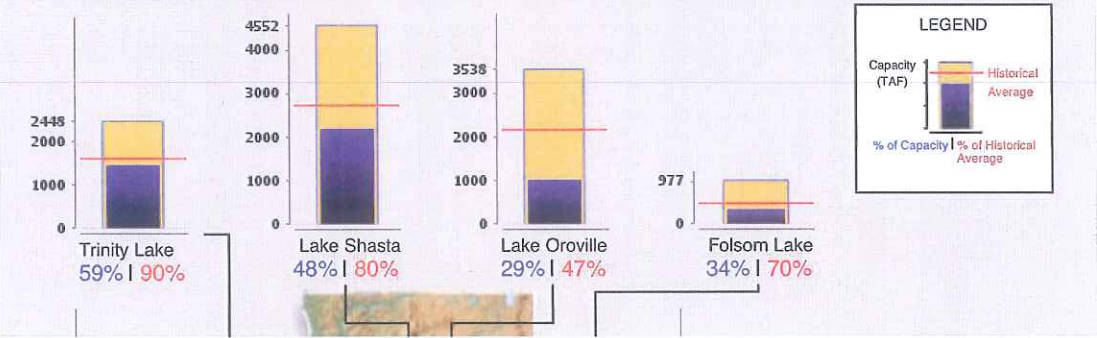
U.S. Snow Cover - December 9, 2018



Reservoir Conditions

Ending At Midnight - December 8, 2018

CURRENT RESERVOIR CONDITIONS



Reservoir Storage Northern Tier

The large Northern California reservoirs are below normal in storage. The Sierra's recent snow brings the snowpack at above normal. We will need every drop of spring run-off to help restore reservoirs.

ETWD Public Education and Outreach Report December 20, 2018

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

Drought Log

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

Messaging/Materials

The December bill message: Sign up for FREE periodic sprinkler adjustment reminder emails with optimal percentages for homeowners and businesses at www.csans.net. The California Sprinkler Adjustment Notification System is a free public service for those living in California and supports the "percent adjust" feature on your irrigation controller.

ETWD Website

Staff is working on updating the ETWD website information.

Newly Elected Officials

ETWD will be sending out congratulatory letters to all the newly elected officials that includes an invitation to learn more about the District and to tour a facility. We will provide more details at a later date.

High School Education Program

The "What About Water" El Toro High School program visits are scheduled for Wednesday, December 12 from 9:30 am – 10:30 am and December 14th from 8:55 am – 9:55 am. Unfortunately, ETWD received that information very late due to the school scheduling at the last minute.

Community Advisory Group

The next Community Advisory Group meeting is February 14, 2019.

Laguna Woods Village Television Channel 6

Channel 6 will not be scheduling interviews in December.

ETWD Community Outreach Schedule

December 15, 2018

Lake Forest Chamber of Commerce –2nd Annual Charity Event Elf Yourself 5K

ETWD staff will have the portable water trailer and a booth at the 5K from 9 a.m. to 11 a.m., located at the Lake Forest Sports Park, 28000 Rancho Parkway in Lake Forest. The District is a Gold Sponsor of the event by providing water for the runners/walkers. The ETWD logo will be on their event t-shirts, website, and banners.

Submitted by: Sherri Seitz 12/13/18

**EL TORO WATER DISTRICT
CONSERVATION PROGRAM
Monthly
Status Report
December 20, 2018**

REBATE PROGRAMS

The following tables are the current device rebate amounts for MET, MWDOC and ETWD for the fiscal year 2018/19 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/Landscape Transformation (up to 1,500 sq ft)*	\$1 sq. ft	\$0 - .50 sq. ft.	\$.50 – 1.00 sq. ft.	\$2 sq. ft.
Soil Moisture Sensor System <1 Acre >1 Acre	\$80 \$35/station		\$75	\$155 \$35/station
Rain Barrels – 1/1 – 6/30/17 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/Landscape Transformation (up to 10,000 sq ft)*	\$1 sq. ft.			\$1 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 November 2018 year-to-date sales, residential accounted for 56% of the overall Tier 3 usage and dedicated irrigation accounted for 63% 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 increased 26% from November 2017 when compared to November 2018. There was a 1% decrease in consumption reflected in November 2018.

Making Conservation A California Way Of Life

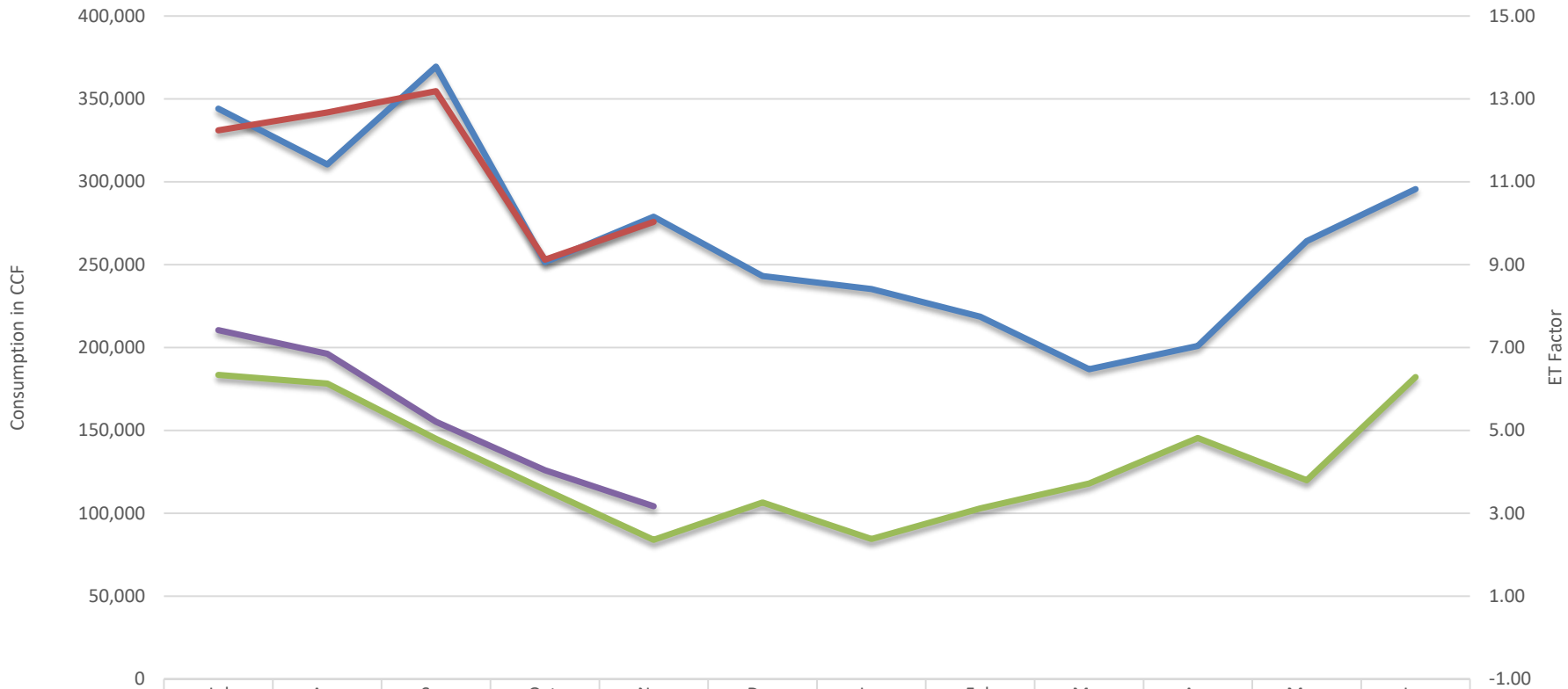
The final version of “MAKING WATER CONSERVATION A CALIFORNIA WAY OF LIFE” Primer of 2018 Legislation on Water Conservation and Drought Planning SB 606 and AB 1668 has been posted and distributed. Staff will review the document and get back to the board with highlights at a future date.

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: December 13, 2018

Total Consumption Comparison



	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
2017-2018	344,078	310,451	369,472	251,478	278,939	243,123	235,364	218,623	186,920	201,067	264,239	295,506
2018-2019	331,098	341,819	354,683	253,007	275,853							
17/18 ET	6.34	6.13	4.80	3.57	2.36	3.26	2.38	3.12	3.72	4.82	3.80	6.29
18/19 ET	7.42	6.85	5.21	4.04	3.17							
%	96%	110%	96%	101%	99%	0%	0%	0%	0%	0%	0%	0%

**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	13	47.1	15.3	\$44,279
High Efficiency Clothes Washers--Residential	2001	17	23.5	7.6	\$22,069
*SoCal Water Smart Commercial Plumbing Fixtures Rebate Program (ULFT's, HET's, Urinals, HECW, Cooling Tower Conductivity Controllers)	2002	16	46.9	15.3	\$44,119
SmarTimer Program--Irrigation Timers	2004	14	194.9	63.5	\$183,421
Rotating Nozzles Rebate Program	2007	11	124.9	40.7	\$117,562
Turf Removal Program	2010	8	53.4	17.4	\$50,208
**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			936.4	305.2	\$881,276

* 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 305.2 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	October-18	186	0.53	996	6.62	117,541	4,055	30,402
Smart Timer Program - Irrigation Timers	2004	October-18	170	4.41	1,045	42.73	23,758	8,286	54,890
Rotating Nozzles Rebate Program	2007	October-18	346	1.38	2,191	22.82	566,498	2,749	19,639
Commercial Plumbing Fixture Rebate Program	2002	October-18	45	0.14	3,128	13.07	96,901	5,006	49,366
Industrial Process/Water Savings Incentive Program (WSIP)	2006	October-18	0	0.00	2	4.88	33	673	3,281
Turf Removal Program ^[3]	2010	October-18	79,398	0.93	252,130	5.95	21,847,208	3,059	13,340
High Efficiency Toilet (HET) Program	2005	October-18	27	0.10	108	4.59	60,211	2,226	19,277
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			7	259,600	101	24,056,974	52,057	446,699	

⁽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	22	1,945	0.13	503.39	1,006
Buena Park	105	106	91	76	54	50	11	1,579	0.06	397.16	817
East Orange CWD RZ	10	8	8	8	3	1	1	194	0.01	53.75	100
El Toro WD	134	121	111	65	47	50	13	1,584	0.09	398.90	820
Fountain Valley	115	102	110	76	65	49	11	2,460	0.07	664.71	1,273
Garden Grove	190	162	165	251	127	87	27	3,677	0.16	948.08	1,903
Golden State WC	265	283	359	260	138	156	41	5,212	0.28	1,344.02	2,697
Huntington Beach	334	295	319	225	180	141	34	8,421	0.23	2,311.61	4,357
Irvine Ranch WD	1,763	1,664	1,882	1,521	1,373	1,203	304	26,173	1.99	6,413.89	13,543
La Habra	82	114	87	66	53	48	17	1,392	0.11	347.91	720
La Palma	34	25	34	29	10	14	3	475	0.02	120.38	246
Laguna Beach CWD	38	37	39	32	19	20	7	959	0.05	253.68	496
Mesa Water	114	86	89	113	80	54	14	2,586	0.11	708.11	1,338
Moulton Niguel WD	442	421	790	688	575	527	131	10,579	0.95	2,554.87	5,474
Newport Beach	116	92	95	66	61	51	19	2,694	0.12	750.12	1,394
Orange	218	163	160	124	80	74	24	3,996	0.16	1,101.49	2,068
Orange Park Acres					-	-	-	12	0.00	4.09	6
San Juan Capistrano	76	73	92	63	33	33	6	1,498	0.04	392.19	775
San Clemente	140	94	141	75	70	85	25	2,730	0.14	710.50	1,413
Santa Margarita WD	553	662	792	466	367	274	81	9,871	0.62	2,476.31	5,108
Seal Beach	31	29	38	23	9	17	3	622	0.01	163.03	322
Serrano WD	13	10	26	8	11	8	-	365	0.00	100.05	189
South Coast WD	89	79	68	43	44	36	12	1,632	0.06	423.87	844
Trabuco Canyon WD	30	45	47	34	28	22	1	821	0.01	211.93	425
Tustin	78	59	80	66	44	49	10	1,671	0.07	448.01	865
Westminster	121	82	109	149	84	65	15	2,666	0.08	696.29	1,379
Yorba Linda	181	167	156	123	56	67	17	3,836	0.13	1,056.13	1,985
MWDOC Totals	5,365	5,094	6,002	4,726	3,668	3,237	849	99,650	5.68	25,554.46	19,252
Anaheim	331	285	295	266	213	173	47	10,902	0.30	3,039.05	5,641
Fullerton	200	186	211	165	107	99	53	3,847	0.35	1,000.26	1,991
Santa Ana	163	131	132	259	141	124	47	3,142	0.29	807.80	1,626
Non-MWDOC Totals	694	602	638	690	461	396	147	17,891	0.93	4,847.12	3,456
Orange County Totals	6,059	5,696	6,640	5,416	4,129	3,633	996	117,541	6.62	30,401.57	22,708

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	15	0	178	80	584.33
Buena Park	3	0	0	0	4	10	7	4	10	7	15	3	11	4	57	48	184.05
East Orange CWD RZ	2	0	0	0	2	0	1	0	11	1	6	0	1	0	32	1	26.81
El Toro WD	7	2	11	0	8	9	9	17	33	8	29	4	17	0	161	359	2,728.64
Fountain Valley	3	2	4	0	7	10	13	1	33	12	28	12	15	1	134	53	228.37
Garden Grove	5	2	9	0	10	14	13	11	28	0	27	2	16	0	144	40	208.43
Golden State WC	9	49	9	25	39	12	35	16	56	37	88	6	36	13	349	211	976.48
Huntington Beach	18	33	20	35	19	2	42	12	88	94	70	30	49	0	391	298	1,300.84
Irvine Ranch WD	414	135	71	59	67	310	239	207	344	420	416	78	175	56	2,360	2,420	13,079.68
La Habra	4	7	2	0	4	7	3	1	12	7	8	0	8	2	52	46	235.19
La Palma	1	0	2	0	2	0	3	2	1	0	5	0	2	0	17	2	8.29
Laguna Beach CWD	76	2	71	0	86	0	86	1	27	0	11	0	3	0	511	20	272.36
Mesa Water	10	2	15	2	17	28	36	12	149	41	49	0	20	55	387	209	855.93
Moulton Niguel WD	51	74	40	45	46	95	163	100	236	129	284	33	134	55	1,332	889	4,261.73
Newport Beach	242	26	168	75	11	9	28	43	30	12	24	0	12	0	1,074	409	2,940.58
Orange	20	24	13	9	18	31	51	13	69	10	61	13	45	26	391	204	1,075.03
San Juan Capistrano	14	18	6	11	6	19	20	8	22	8	23	5	11	0	256	130	745.55
San Clemente	26	7	28	2	28	24	26	3	37	13	38	41	16	0	1,105	415	3,014.29
Santa Margarita WD	53	171	64	93	53	321	189	136	326	221	273	220	103	19	1,530	1,611	6,917.32
Santiago CWD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Seal Beach	1	0	1	36	1	12	2	2,446	2	4	5	0	1	0	13	2,502	6,804.34
Serrano WD	1	0	0	0	4	0	11	2	4	0	8	0	7	0	53	2	17.80
South Coast WD	13	16	8	4	104	73	9	11	7	0	15	2	2	2	295	216	1,307.18
Trabuco Canyon WD	6	0	2	0	6	1	16	50	13	3	20	0	12	0	135	157	1,062.61
Tustin	8	4	9	1	18	14	33	8	33	23	27	1	22	0	192	81	403.52
Westminster	1	1	2	0	13	17	7	1	17	12	22	0	13	0	100	44	231.71
Yorba Linda	20	0	12	5	32	2	61	27	72	71	68	10	37	0	443	193	985.15
MWDOC Totals	1,017	583	571	402	648	1,026	1,123	3,136	1,691	1,137	1,652	460	783	233	11,692	10,640	50,456.22

Anaheim	19	10	9	26	7	52	30	34	87	10	62	0	62	63	368	520	2,930.89
Fullerton	9	29	8	0	40	26	32	12	53	7	43	0	1	0	243	199	1,080.63
Santa Ana	8	19	7	8	9	27	22	26	15	3	11	0	1	0	94	100	422.18
Non-MWDOC Totals	36	58	24	34	56	105	84	72	155	20	116	0	64	63	705	819	4,433.70

Orange County Totals	1,053	641	595	436	704	1,131	1,207	3,208	1,846	1,157	1,768	460	847	296	12,397	11,459	54,890
-----------------------------	--------------	------------	------------	------------	------------	--------------	--------------	--------------	--------------	--------------	--------------	------------	------------	------------	---------------	---------------	---------------

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	61.57
Buena Park	53	0	0	248	0	0	45	98	0	0	0	0	0	0	0	0	0	0	509	173	2,535	815.14
East Orange	30	0	0	221	0	0	0	0	0	0	0	0	30	0	0	0	0	0	781	0	0	20.63
El Toro	56	3,288	0	1,741	28,714	0	730	4,457	0	55	242	0	36	0	0	0	0	0	3,260	43,348	890	1,374.09
Fountain Valley	0	0	0	107	0	0	222	0	0	0	0	0	85	0	0	0	283	0	919	2,874	0	20.48
Garden Grove	80	0	0	88	50	0	110	0	0	55	98	0	52	0	0	0	0	0	855	254	0	35.24
Golden State	192	0	0	583	1,741	0	1,088	0	0	207	6,008	0	161	-495	0	35	0	0	3,480	10,837	0	289.91
Huntington Beach	120	0	0	798	1,419	0	1,345	2,836	0	149	3,362	0	-37	0	0	0	0	0	4,001	9,135	2,681	1,351.83
Irvine Ranch	11,010	4,257	0	1,421	632	0	1,989	5,047	0	335	9,511	0	356	-215	0	0	0	0	46,498	43,325	2,004	4,986.44
La Habra	15	0	0	109	338	0	300	0	0	0	0	0	0	0	0	0	0	0	1,515	55,404	900	369.02
La Palma	0	0	0	0	0	0	46	505	0	0	2,385	0	33	0	0	0	0	0	89	3,163	0	38.08
Laguna Beach	2,948	878	0	2,879	1,971	0	1,390	0	0	0	0	0	0	0	0	0	0	0	11,948	2,896	0	355.81
Mesa Water	361	0	0	229	0	0	166	0	0	113	0	0	36	0	0	0	0	0	2,062	302	343	199.99
Moulton Niguel	361	227	0	1,596	4,587	0	5,492	1,441	0	153	5,872	0	893	0	0	306	38	0	12,728	20,598	2,945	1,783.40
Newport Beach	19,349	6,835	0	460	3,857	0	348	670	0	0	0	0	45	0	0	0	0	0	46,865	16,632	0	1,812.10
Orange	245	120	0	304	668	0	631	91	0	0	0	0	0	0	0	0	0	0	3,133	5,853	0	118.53
San Juan Capistrano	370	0	0	495	737	0	310	593	0	75	123	0	59	0	0	0	0	0	5,027	3,143	0	465.39
San Clemente	415	5,074	0	326	0	0	426	0	0	0	0	0	146	0	0	40	1,400	0	10,062	11,948	1,343	828.92
Santa Margarita	389	0	0	1,207	1,513	0	1,820	837	0	15	0	0	224	0	0	0	0	0	15,387	7,283	611	852.79
Seal Beach	0	0	0	40	5,261	0	0	2,300	0	0	0	0	0	0	0	0	0	0	155	7,561	0	157.83
Serrano	105	0	0	377	0	0	695	0	0	0	0	0	0	0	0	0	0	0	1,907	291	0	98.75
South Coast	70	0	0	4,993	13,717	0	1,421	2,889	0	16	0	0	0	0	0	0	0	0	9,628	18,870	0	566.88
Trabuco Canyon	0	0	0	56	0	0	130	0	0	0	4,339	0	0	0	0	0	0	0	729	4,339	0	149.82
Tustin	329	0	0	408	0	0	317	386	0	65	-341	0	30	0	0	0	0	0	4,444	1,849	0	127.30
Westminster	0	0	0	54	0	0	73	0	0	105	0	0	50	0	0	47	0	0	748	0	0	12.54
Yorba Linda	40	990	0	921	0	0	1,715	0	0	213	0	0	0	0	0	42	0	0	5,790	1,103	500	478.49
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	470	1,721	0	194,823	274,867	14,752	17,370.96

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	1,402.16
Fullerton	107	0	0	684	1,196	0	521	7,015	0	65	3,034	0	0	0	0	0	0	0	2,910	11,309	1,484	720.24
Santa Ana	86	2,533	0	310	0	0	0	1,420	0	0	1,106	0	0	0	0	140	0	0	859	5,752	0	146.67
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	7,789	66,860	1,589	2,269.07

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	610	1,721	0	202,612	341,727	16,341	19,640.04
-----------------------------	---------------	---------------	----------	---------------	---------------	----------	---------------	---------------	----------	--------------	---------------	----------	--------------	-------------	----------	------------	--------------	----------	----------------	----------------	---------------	------------------

COMMERCIAL PLUMBING FIXTURES REBATE PROGRAM^[1]
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	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	0	2,451	1,805
Golden State WC	0	1	0	1,008	53	93	0	2,958	2,278
Huntington Beach	104	144	7	783	641	10	0	2,964	1,942
Irvine Ranch WD	1,090	451	725	11,100	5,958	1,599	413	29,878	9,794
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	0	4,254	2,545
Moulton Niguel WD	0	0	3	413	281	506	1,013	2,796	1,069
Newport Beach	0	0	566	0	0	0	0	1,834	1,550
Orange	1	271	81	275	2,851	458	414	5,902	2,280
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	506	2,054	368
Santiago CWD	0	0	0	0	0	0	0	0	0
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	64	1,468	1,007
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	3,127	71,968	33,245
Anaheim	165	342	463	3,072	309	1,808	1	15,562	8,468
Fullerton	94	0	178	476	621	274	0	3,052	2,015
Santa Ana	16	17	5	1,293	238	582	0	6,319	5,637
Non-MWDOC Totals	275	359	646	4,841	1,168	2,664	1	24,933	16,120
Orange County Totals	1,869	1,531	2,807	22,116	14,997	8,494	3,128	96,901	49,366

^[1] 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	Overall Program Interventions	Annual Water Savings[1]	Cumulative Water Savings across all Fiscal Years[1]
Brea	0	0	0	0	0	0	0	0	0	0	0
Buena Park	0	0	0	0	1	0	0	0	2	54	532
East Orange	0	0	0	0	0	0	0	0	0	0	0
El Toro	0	0	0	0	0	0	1	0	1	9	1
Fountain Valley	0	0	0	0	0	1	0	0	1	23	38
Garden Grove	0	0	0	0	1	0	0	0	1	0	1
Golden State	0	0	0	0	0	0	0	0	1	3	31
Huntington Beach	0	2	0	1	2	0	1	0	6	180	671
Irvine Ranch	1	1	1	0	2	1	1	0	10	119	702
La Habra	0	0	0	0	1	0	0	0	1	0	1
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	1	21	83
Orange	0	0	0	0	1	2	1	0	5	97	553
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	2	134	224
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	0	0	0	0
Yorba Linda	0	0	0	0	0	0	0	1	1	20	3
MWDOC Totals	1	3	1	2	9	5	4	2	32	662	2842
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	1	11	439
OC Totals	1	3	1	2	10	5	4	2	33	673	3281

[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 12/13		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.	Res	Comm.	
Brea	7,605	0	5,697	0	71,981	30,617	118,930	404,411	8,354	479	9,853	27,234	3,180	0	228,997	472,207	406.07
Buena Park	0	0	0	0	11,670	1,626	77,127	16,490	3,741	0	4,586	0	1,230	0	98,354	18,116	64.76
East Orange	0	0	1,964	0	18,312	0	27,844	0	0	0	0	0	0	0	48,120	0	30.06
El Toro	4,680	72,718	4,582	0	27,046	221,612	63,546	162,548	13,139	48,019	7,273	42,510	5,263	5,797	130,252	553,204	426.83
Fountain Valley	682	7,524	4,252	0	45,583	5,279	65,232	0	3,679	0	8,631	0	2,849	27,679	132,208	40,482	93.44
Garden Grove	4,534	0	8,274	0	67,701	22,000	177,408	49,226	11,504	0	4,487	0	0	0	287,921	117,403	281.06
Golden State	31,813	3,200	32,725	8,424	164,507	190,738	310,264	112,937	0	0	0	0	0	0	581,902	346,272	636.92
Huntington Beach	9,219	12,437	20,642	0	165,600	58,942	305,420	270,303	9,560	21,534	14,236	6,032	7,937	0	561,045	421,737	629.23
Irvine Ranch	32,884	32,384	36,584	76,400	234,905	317,999	782,844	2,675,629	231,483	46,725	86,893	61,037	18,109	10,281	1,435,575	3,234,915	2,676.87
La Habra	0	0	0	0	14,014	1,818	49,691	72,164	0	0	3,003	0	1,504	0	68,212	90,019	99.42
La Palma	0	0	0	0	4,884	0	10,257	59,760	0	0	0	0	0	0	15,141	59,760	42.63
Laguna Beach	2,664	1,712	4,586	226	13,647	46,850	47,614	0	3,059	0	589	0	0	0	75,670	48,788	82.86
Mesa Water	10,667	0	22,246	0	131,675	33,620	220,815	106,896	4,173	77,033	17,373	77,785	1,360	0	415,086	295,334	396.89
Moulton Niguel	11,538	84,123	14,739	40,741	314,250	1,612,845	889,748	1,059,279	220,749	0	98,271	0	41,689	0	1,596,423	2,840,054	2,763.50
Newport Beach	3,548	2,346	894	0	33,995	65,277	76,675	375,404	2,924	0	5,938	6,499	0	25,000	127,428	474,526	341.25
Orange	15,951	8,723	11,244	0	120,093	281,402	289,990	106,487	12,847	2,366	11,956	0	10,320	1,798	485,372	400,776	562.65
San Clemente	16,062	13,165	18,471	13,908	90,349	1,137	215,249	438,963	4,267	0	33,083	7,098	5,134	0	404,117	474,271	524.07
San Juan Capistrano	29,544	27,156	12,106	0	101,195	32,366	197,290	143,315	2,624	40,748	0	0	0	0	365,415	347,277	509.68
Santa Margarita	10,151	11,600	17,778	48,180	211,198	514,198	534,048	550,420	17,010	28,094	62,706	25,000	19,624	23,198	878,962	1,217,651	1,268.89
Santiago	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-
Seal Beach	3,611	0	0	0	15,178	504	17,349	15,911	1,234	0	752	0	0	0	38,124	16,415	33.87
Serrano	0	0	2,971	0	41,247	0	127,877	4,403	5,450	0	555	0	4,000	0	182,100	4,403	108.45
South Coast	9,429	4,395	15,162	116,719	84,282	191,853	181,102	128,290	14,967	0	13,319	7,806	5,990	0	331,057	465,387	532.10
Trabuco Canyon	1,542	22,440	2,651	0	14,771	0	42,510	88,272	1,465	0	4,788	0	1,536	0	69,535	110,712	111.78
Tustin	9,980	0	1,410	0	71,285	14,137	232,697	33,362	11,173	0	16,926	0	5,941	6,894	349,412	54,393	230.98
Westminster	0	0	0	0	14,040	34,631	71,833	23,902	11,112	0	10,033	0	3,961	0	110,979	58,533	95.71
Yorba Linda	0	0	0	0	112,136	12,702	360,279	116,985	19,420	0	9,529	3,696	11,856	0	524,569	133,383	382.47
MWDOC Totals	216,104	303,923	238,978	304,598	2,195,544	3,692,153	5,493,639	7,015,357	613,934	264,998	424,780	264,697	151,483	100,647	9,541,976	12,296,018	13,332.42
Anaheim	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-
Fullerton	0	0	0	9,214	0	0	0	0	0	0	0	0	0	0	0	9,214	7.74
Santa Ana	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-
Non-MWDOC Totals	0	0	0	9,214	0	0	0	0	0	0	0	0	0	0	0	9,214	7.74
Orange County Totals	216,104	303,923	238,978	313,812	2,195,544	3,692,153	5,493,639	7,015,357	613,934	264,998	424,780	264,697	151,483	100,647	9,541,976	12,305,232	13,340

[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	0	456	116.31
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	5	2,048	611.66
Fountain Valley	0	41	132	220	7	9	1	833	278.76
Garden Grove	0	63	350	363	7	4	0	1,488	474.87
Golden State WC	2	142	794	512	9	11	1	2,802	877.53
Huntington Beach	0	163	1,190	628	4	3	0	2,904	821.99
Irvine Ranch WD	1,449	810	1,777	2,798	638	239	72	17,220	6,026.79
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	3	227	66.14
Mesa Water	0	147	162	162	7	3	0	1,621	650.09
Moulton Niguel WD	0	400	2,497	1,939	49	40	7	5,737	1,344.61
Newport Beach	0	49	168	243	11	6	0	731	208.28
Orange	1	142	978	416	17	10	3	2,192	608.94
San Juan Capistrano	0	35	140	202	3	9	2	534	139.85
San Clemente	0	72	225	246	11	6	2	880	255.95
Santa Margarita WD	0	528	997	1,152	114	34	0	3,343	793.90
Seal Beach	2	17	50	69	-1	0	0	857	421.72
Serrano WD	0	2	40	55	3	0	0	121	28.68
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	1	1,517	589.83
Westminster	0	35	161	359	3	4	0	1,335	460.36
Yorba Linda WD	0	40	280	379	12	8	0	1,259	388.69
MWDOC Totals	1,651	3,330	12,038	11,118	958	428	99	51,233	16,082.31

Anaheim	0	156	1,188	614	70	19	5	5,889	2,193.20
Fullerton	0	61	293	286	14	9	4	1,068	314.09
Santa Ana	0	33	602	293	20	0	0	2,021	687.54
Non-MWDOC Totals	0	250	2,083	1,193	104	28	9	8,978	3,194.82

Orange County Totals	1,651	3,580	14,121	12,311	1,062	456	108	60,211	19,277.13
-----------------------------	--------------	--------------	---------------	---------------	--------------	------------	------------	---------------	------------------

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

**November 30, 2018
8:30 a.m.**

NOTICE IS HEREBY GIVEN that a Special Meeting of the South Orange County Wastewater Authority (SOCWA) Finance Committee was called by the Chairman to be held on **November 30, 2018** 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 TWENTY-FOUR (24) HOURS PRIOR TO THE SCHEDULED MEETING. THIS AGENDA CAN BE OBTAINED IN ALTERNATE FORMAT UPON WRITTEN REQUEST TO THE SOUTH ORANGE COUNTY WASTEWATER AUTHORITY'S SECRETARY AT LEAST TWENTY-FOUR (24) HOURS PRIOR TO THE SCHEDULED MEETING.

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

AGENDA

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

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

NOTICE OF SPECIAL MEETING – FINANCE COMMITTEE

November 30, 2018

Page 2 of 2

4. Monthly Financial Report for October 2018

- a) Summary of Disbursements
 - October 2018 (Exhibit A)
- b) Schedule of Funds Available for Reinvestment (Exhibit B)
- c) Schedule of Cash and Investments (Exhibit C)
- d) Capital Schedule (Exhibit D)
 - Capital Projects – Graph (Exhibit D-1)
- e) Budget vs. Actual Expenses:
 - Operations and Environmental Summary (Exhibit E-1)
 - Environmental Safety Costs Summary (Exhibit E-1.2)
 - Engineering Budget vs. Actual (Exhibit E-2)
 - Administration Budget vs. Actual (Exhibit E-3)
 - Information Technology (IT) Budget vs. Actual (Exhibit E-4)

Recommendation:

Staff recommends that the Finance Committee recommends to the Board of Directors to ratify the Summary of Disbursements for October 2018 totaling \$2,317,205 and to receive and file the Financial Reports as submitted.

5. Pun Group Presentation of FY Ending June 30, 2018, SOCWA Audited Financial Statements

Recommendation:

1. Receive a report to the Finance Committee on Consideration of the FY Ended June 30, 2018 Audited Financial Statements;
2. Receive Presentation and Q&A with The Pun Group; and
3. Finance Committee to recommend to the Board of Directors to receive and file the Financial Statements and Independent Auditor's Report for the Year Ended June 30, 2018, including the Governance Letter as prepared by The Pun Group;

6. Finance Department – Update on Open Financial Items

Recommendation: Information, discussion and recommendation to the Board.

7. Adjournment

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

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

Dated this 21st day of November 2018.



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

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



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

AGENDA

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

December 6, 2018
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 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 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)

Board of Directors Meeting November 1, 2018 1

ACTION The Board will be requested to approve subject Minutes.

AGENDA
South Orange County Wastewater Authority
Board of Directors Meeting
December 6, 2018

B. Minutes of Finance Committee Meeting(s)

Finance Committee Meeting June 27, 2018	12
Finance Committee Meeting August 10, 2018	16
Finance Committee Meeting August 29, 2018	19
Finance Committee Meeting September 19, 2018.....	47

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

C. Financial Matters

1) <u>Monthly Financial Report for June 2018</u>	50
a) Summary of Disbursements for June 2018 – Exhibit A.....	51
b) Schedule of Funds Available for Reinvestment – Exhibit B	52
c) Schedule of Cash and Investments – Exhibit C	53
d) Preliminary Capital Project Summaries – Exhibit D	54
e) Year-to-Date Spending 6/30/18 – Graph.....	55
f) Preliminary O&M Budget vs. Actual Comparison by PC – Exhibit E1	56
g) Preliminary O&M Environmental Safety Costs Summary – Exhibit E1.2.....	62
h) Preliminary Budget vs. Actual Comparison Engineering – Exhibit E2.....	64
i) Preliminary Budget vs. Actual Comparison Administration – Exhibit E3.....	65
j) FY 2017-18 Actual General Fund Expenses – Exhibit E3.2.....	66
k) Preliminary Budget vs. Actual Comparison IT – Exhibit E4.....	67
l) FY 2017-18 Preliminary Actual Fringe Pool and Fringe Rate.....	68

ACTION The Finance Committee recommends to the Board of Directors to ratify the Summary of Disbursements for the period June 1, 2018, to June 30, 2018, totaling \$2,432,134 and receive and file the June 2018 Financial Reports as submitted.

2) <u>Monthly Financial Report for July 2018</u>	69
a) Summary of Disbursements for July 2018 – Exhibit A.....	70
b) Schedule of Funds Available for Reinvestment – Exhibit B	71
c) Schedule of Cash and Investments – Exhibit C.....	72

ACTION The Finance Committee recommends to the Board of Directors 1) Ratify the Summary of Disbursements for the period from July 1, 2018, through July 31, 2018, in the amount of \$3,303,774 (Exhibit A); and, 2) Receive and file the following as information items:

- Schedule of Funds Available for Reinvestment - Exhibit B
- Schedule of Cash and Investments - Exhibit C

AGENDA

South Orange County Wastewater Authority
Board of Directors Meeting
December 6, 2018

3) Monthly Financial Report for August 2018..... 73

a) Summary of Disbursements for August 2018 – Exhibit A 74

b) Schedule of Funds Available for Reinvestment – Exhibit B 75

c) Schedule of Cash and Investments – Exhibit C..... 76

ACTION The Finance Committee recommends to the Board of Directors to 1) Ratify the Summary of Disbursements for the period from August 1, 2018, through August 31, 2018, in the amount of \$1,721,877 (Exhibit A); and, 2) Receive and file the following as information items:

- Schedule of Funds Available for Reinvestment - Exhibit B
- Schedule of Cash and Investments - Exhibit C

4) Monthly Financial Report September 2018..... 77

a) Summary of Disbursements for September 2018 – Exhibit A..... 78

b) Schedule of Funds Available for Reinvestment – Exhibit B 79

c) Schedule of Cash and Investments – Exhibit C..... 80

ACTION The Finance Committee recommends to the Board of Directors to 1) Ratify the Summary of Disbursements for the period from September 1, 2018, through September 30, 2018, in the amount of \$2,192,852 (Exhibit A); and, 2) Receive and file the following as information items:

- Schedule of Funds Available for Reinvestment - Exhibit B
- Schedule of Cash and Investments - Exhibit C

5) Monthly Financial Report October 2018 81

a) Summary of Disbursements - October 2018 Exhibit A 82

b) Schedule of Funds Available for Reinvestment Exhibit B 83

c) Schedule of Cash and Investments Exhibit C..... 84

d) Capital Schedule Exhibit D..... 85

- Capital Projects – Graph Exhibit D1..... 86

e) Budget vs. Actual Expenses:

- Operations and Environmental Summary – Exhibit E1..... 89
- Environmental Safety Costs Summary – Exhibit E1.2..... 93
- Engineering Budget vs. Actual Exhibit – E2 95
- Administration Budget vs. Actual Exhibit – E3..... 96
- Information Technology (IT) Budget vs. Actual – Exhibit 4 97

ACTION The Finance Committee recommends to the Board of Directors to 1) Ratify the Summary of Disbursements for the period from October 1, 2018, through October 31, 2018, totaling \$2,317,205 (attached as Exhibit A); and, 2) Receive and File the October 2018 Financial Reports as submitted.

AGENDA

South Orange County Wastewater Authority
Board of Directors Meeting
December 6, 2018

6) Quarterly (Q1) Financial Reports July 1, 2018, thru September 30, 2018..... 98

- a) YTD Capital Summaries- Exhibit D 99
- b) YTD Capital Projects – Graph - Exhibit D1 100
- c) Operations and Environmental Summary - Exhibit E1..... 101
- d) Budget vs. Actual Comparison – Engineering - Exhibit E2..... 109
- e) Administration - Exhibit E3..... 110
- f) Information Technology (IT) - Exhibit E4..... 111
- g) PARS Retiree Health Trust Fund Ending Balance June 30, 2018 – Exhibit F..... 112
- h) LAIF Performance Report Quarter Ending September 30, 2018 – Exhibit G 113

ACTION The Finance Committee recommends to the Board of Directors to Receive and File the following as information items:

- YTD Capital Schedule - Exhibit D
- YTD Capital Projects Graph - Exhibit D-1

YTD Budget vs. Actual Expenses:

- Operations and Environmental Summary by Project Committee (Exhibit E1)
- O&M Environmental Safety Costs Summary (Exhibit E-1.2)
- Residual Engineering, after transfer to Capital (Exhibit E2)
- Administration (Exhibit E-3)
- Information Technology (IT) (Exhibit E4)
- PARS Retiree Health Trust Fund Ending Balance June 30, 2018 (Exhibit F)
- LAIF Performance Report Quarter Ending September 30, 2018 (Exhibit G)

7) Cash Roll Forward Fiscal Years Summary – June 30, 2016, through June 30, 2018, Ending September 30, 2018..... 114

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

C. Operational Reports

- 1) Monthly Operations Report – October 2018..... 117
- 2) Ocean Outfall Discharges..... 127
- 3) Beach/Ocean Monitoring Report..... 129
- 4) Recycled Water Report..... 150
- 5) Pretreatment Report..... 155

ACTION The Board will be requested to receive and file the *October 2018 Operations Report*.

AGENDA

South Orange County Wastewater Authority
Board of Directors Meeting
December 6, 2018

D. Capital Improvement Program

Status Report(s) 159

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

6. GENERAL MANAGER'S REPORTS

A. Government Accounting Standards Board Statement (GASB) 75 and GASB 68 Reporting for FY 2017-18 Financial Statements Audit 175

ACTION SOCWA staff recommends that the Board of Directors receive and file the Actuaries reports.

The Finance Committee recommends to the Board of Directors to:

- 1) Ask staff to present options with the FY 2019-2020 Budget preparation to restart collection of OPEB savings; and,
- 2) Ask staff to propose a savings mechanism for PERS liability with the FY 2019-2020 Budget preparation.

B. Pun Group FY Ending June 30, 2018, SOCWA Audited Financial Statements 228

ACTION The Finance Committee recommends to the Board of Directors to Receive and File the Financial Statements and Independent Auditor's Report for the Year Ended June 30, 2018, including the Governance Letter as prepared by The Pun Group.

C. Approval of FY 2017-18 Use Audit (Final)..... 229

ACTION The Finance Committee recommends to the Board of Director's approval of the 2017-18 Use Audit and collection from and payments to SOCWA member agencies consistent with the results of the Use Audit as presented.

D. Update on Open Financial Items..... 230

ACTION The Finance Committee recommends to the Board of Directors to modify the General Manager's goals as follows:

- 1. Provide a quarterly reporting of the Cash Roll Forward occurring in the second month following the close of the quarter; and
- 2. For the purpose of reporting on the Supplemental Schedules, the 2017-18 Supplemental Schedules will include the up to date distribution of unfunded

AGENDA

South Orange County Wastewater Authority
Board of Directors Meeting
December 6, 2018

liabilities in the percentages agreed upon by the Board staying current in each fiscal year going forward but forego producing the Supplemental Schedules for the past fiscal years 2015-16 and 2016-17.

E. IT Master Plan Update 2019 – Approval of the Proposal of SDI at a Not to Exceed Cost of \$68,000.....234

ACTION Staff recommends the Board of Directors approve the proposal by SDI in a not to exceed amount of \$68,000 for preparation of the IT Master Plan Update 2019.

F. Revised Substance Abuse Policy.....317

ACTION Staff recommends that the Board of Directors approve Resolution No. 2018-14, revising the Substance Abuse Policy.

G. General Manager’s Status Report346

ACTION Information item only.

H. Monthly Progress Report on State Audit Recommendations352

ACTION The Board will be requested to receive and file the *Monthly Progress Report on State Audit Recommendations* – State Audit Response Schedule.

7. CLOSED SESSION

A Closed Session will be conducted for the following matter:

Existing Litigation per paragraph (1) of Subdivision (d) of Government Code Section 54956.9, *Case of SOCWA et al. v. Moulton Niguel Water District* Case Number RIC 1721240.

8. REPORT OUT of CLOSED SESSION

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.]

AGENDA
South Orange County Wastewater Authority
Board of Directors Meeting
December 6, 2018

ADJOURNMENT

THE NEXT REGULAR SOCWA BOARD MEETING WILL BE HELD ON
January 4, 2018 at 8:30 a.m.

**NOTICE OF SPECIAL MEETING
OF THE
SOUTH ORANGE COUNTY WASTEWATER AUTHORITY
PROJECT COMMITTEE NO. 17**

**Monday, December 10, 2018
1:30 p.m.**

NOTICE IS HEREBY GIVEN that a Special Meeting of the South Orange County Wastewater Authority (SOCWA) Project Committee No. 17 has been called to be held on **Monday, December 10, 2018**, at **1:30 p.m.** at the SOCWA Administrative Office located at 34156 Del Obispo Street, Dana Point, California.

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

AGENDA EXHIBITS AND OTHER WRITINGS THAT ARE DISCLOSABLE PUBLIC RECORDS DISTRIBUTED TO ALL, OR A MAJORITY OF, THE MEMBERS OF THE SOUTH ORANGE COUNTY WASTEWATER AUTHORITY PROJECT COMMITTEE NO. 17 IN CONNECTION WITH A MATTER SUBJECT TO DISCUSSION OR CONSIDERATION AT AN OPEN MEETING OF THE PROJECT COMMITTEE NO. 17 ARE AVAILABLE FOR PUBLIC INSPECTION AT THE LOCATION OF THE MEETING. IF SUCH WRITINGS ARE DISTRIBUTED TO MEMBERS OF THE PROJECT COMMITTEE NO. 17 LESS THAN TWENTY-FOUR (24) PRIOR TO THE MEETING, THEY WILL BE AVAILABLE AT THE LOCATION OF THE MEETING AT THE SAME TIME AS THEY ARE DISTRIBUTED TO THE PROJECT COMMITTEE NO. 17 MEMBERS, EXCEPT THAT, IF SUCH WRITINGS ARE DISTRIBUTED IMMEDIATELY PRIOR TO, OR DURING, THE MEETING, THEY WILL BE AVAILABLE IN THE PROJECT COMMITTEE NO. 17 MEETING AT THE LOCATION OF THE MEETING.

AGENDA

- 1. Call Meeting to Order**
- 2. Public Comments**

*THOSE WISHING TO ADDRESS THE **PROJECT COMMITTEE NO. 17** ON ANY ITEM LISTED ON THE AGENDA SHOULD SUBMIT A "REQUEST TO BE HEARD" FORM TO THE CLERK OF THE BOARD BEFORE THE PRESIDING OFFICER ANNOUNCES THAT AGENDA ITEM. YOUR NAME WILL BE CALLED TO SPEAK AT THAT TIME.*

- 3. Welcome & Round Table Discussion - Regional Treatment Plant (RTP) Workshop**
 - Overflow Event of January 22, 2017
 - Attendee Input to Discussion
 - Geography of the area
 - Facts and Circumstances
 - Engineering constraints at the Regional Treatment Plant
 - Progression of flows into the Regional Treatment Plant

NOTICE OF SPECIAL MEETING – PROJECT COMMITTEE NO. 17

December 10, 2018

Page 2 of 2

- Timeline of failure events
- Impacted Equipment and Repairs
- Storm Water Flows from Off-site
- Regulatory Agency Notification and Response
- Water Quality Results
- Biological Assessment
- Follow-up Actions
- Discussion/Presentation of Stakeholder Concerns
 - Clean Water Now
 - Other Community Concerns

I hereby certify that the foregoing Notice was personally emailed or mailed to each member of the SOCWA Project Committee No. 17 at least 24 hours prior to the scheduled time of the Special Meeting referred to above.

I hereby certify that the foregoing Notice was posted at least 24 hours prior to the time of the above-referenced Project Committee No. 17 meeting at the usual agenda posting location of the South Orange County Wastewater Authority and at www.socwa.com.

Dated this 6th day of December 2018.



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

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

December 13, 2018

8:30 a.m.

NOTICE IS HEREBY GIVEN that a Regular Meeting of the South Orange County Wastewater Authority (SOCWA) Engineering has been scheduled to be held on **December 13, 2018, 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 BOARD 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 THE 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

December 13, 2018

Page 2 of 2

3. Review/Approval of Meeting Minutes (June '18 and October '18)
4. Operations Report
5. J. B. Latham Treatment Plant 1 Grit Basin Improvements Construction Status Update (Project Committee 2)
6. J. B. Latham Treatment Plant Package 'B' Improvements Project Status Update (Project Committee 2)
7. Coastal Treatment Plant Package Facility Improvements Project Status Update (Project Committee 15)
8. Review of Draft Request for Proposals for Construction Management Services for the J. B. Latham Treatment Plant Package 'B' Improvements and the Coastal Treatment Plant Facility Improvements Project (Project Committees 2 and 15)
9. AWMA Road Storm Repair Project Wrap-Up (Project Committee 15)
10. Regional Treatment Plant Draft Ten Year Plan Review (Project Committee 17)

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

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

Dated this 6th day of December 2018.

B. Burnett

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

December 3, 2018, 8:30 a.m.

Conference Room 101

P&O Committee:

Director Osborne, Chair
Director Tamaribuchi
Director Yoo Schneider

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

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>.

ACTION ITEM

1. 2018 WATER RELIABILITY FOLLOW-UP ANALYSES WITH CDM-SMITH
2. WATER LOSS CONTROL SHARED SERVICES BUSINESS PLAN

DISCUSSION ITEMS

3. PLANNING & RESOURCE DEVELOPMENT DEPARTMENT OVERVIEW
4. METROPOLITAN AND WATER ISSUES DEPARTMENT OVERVIEW
5. 2018 ORANGE COUNTY WATER RELIABILITY STUDY

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. MET SHUTDOWN SCHEDULE
7. STATUS REPORTS
 - a. Ongoing MWDOC Reliability and Engineering/Planning Projects
 - b. WEROC
 - c. Water Use Efficiency Projects
 - d. Water Use Efficiency Programs Savings and Implementation Report
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

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
December 5, 2018, 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. 2076)

• **OATHS OF OFFICE**

PRESENTATION/DISCUSSION/INFORMATION ITEMS

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

Recommendation: Receive input and discuss the information.

2. WATER SUPPLY CONDITION UPDATE

Recommendation: Review and discuss the information presented.

3. DISCUSSION OF A METROPOLITAN IN-LIEU DELIVERY PROGRAM

Recommendation: Review and discuss the information presented.

4. CALIFORNIA WATERFIX 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 by MET in the Doheny Desalination Project and in the Huntington Beach Ocean Desalination Project (Poseidon Desalination Project)
- f. Orange County Reliability Projects
- g. East Orange County Feeder No. 2
- h. South County Projects

Recommendation: Discuss and provide input on information relative to the MET items of critical interest to Orange County.

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

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

Recommendation: Review and discuss the information presented.

CLOSED SESSION

7. CONFERENCE WITH LABOR NEGOTIATORS

District Designated Representatives: Joseph Byrne, Legal Counsel
Unrepresented Employee: General Manager

RECONVENE INTO OPEN SESSION

8. CONSIDERATION OF AMENDMENTS TO GENERAL MANAGER CONTRACT

Recommendation: Discuss the General Manager’s Employment Agreement and take action as appropriate.

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 accommodation should make the request with adequate time before the meeting for the District to provide the requested accommodation.

SPECIAL MEETING OF THE
OF THE BOARD OF DIRECTORS
MUNICIPAL WATER DISTRICT OF ORANGE COUNTY
18700 Ward Street, Board Room, Fountain Valley, California
December 6, 2018, 6:00 p.m.

AGENDA

PLEDGE OF ALLEGIANCE

ROLL CALL

PUBLIC COMMENTS/PARTICIPATION

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

The Board requests that all members of the public who want to address the Board complete a "Request to be Heard" form available from the Board Secretary prior to the meeting.

- 1. DISCUSSION WITH REPRESENTATIVES FROM MWDOC'S MEMBER AGENCIES REGARDING KEY REGIONAL ISSUES AND KEY ORANGE COUNTY ISSUES, INCLUDING THE ORANGE COUNTY RELIABILITY STUDY UPDATE , WATER SUPPLY ISSUES, THE DROUGHT CONTINGENCY PLAN, AND THE ELECTION RESULTS.**

Recommendation: Receive information and discuss the various issues outlined.

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 contacting 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.

**MEETING OF THE
BOARD OF DIRECTORS OF THE
MUNICIPAL WATER DISTRICT OF ORANGE COUNTY**
Jointly with the
ADMINISTRATION & FINANCE COMMITTEE
December 12, 2018, 8:30 a.m.
MWDOC Conference Room 101

Committee

Director Thomas, Chair
Director Dick
Director Finnegan

Staff: R. Hunter, K. Seckel, C. Harris,
K. Davanaugh, H. Chumpitazi

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>.

PROPOSED BOARD CONSENT CALENDAR ITEMS

1. **TREASURER'S REPORT**
 - a. Revenue/Cash Receipt Report – November 2018
 - b. Disbursement Approval Report for the month of December 2018
 - c. Disbursement Ratification Report for the month of November 2018
 - d. GM Approved Disbursement Report for the month of November 2018
 - e. Water Use Efficiency Projects Cash Flow – November 30, 2018
 - f. Consolidated Summary of Cash and Investment – October 2018
 - g. OPEB and Pension Trust Fund monthly statement

2. FINANCIAL REPORT
 - a. Combined Financial Statements and Budget Comparative for the Period ending October 31, 2018

ACTION ITEMS

3. PRUDENT COMPANION POLICY
4. RESULTS OF MWDOC ADMINISTRATION BUILDING ELECTRICAL ASSESSMENT AND APPROVAL OF ELECTRICAL ENGINEERING SERVICES

DISCUSSION ITEMS

5. FY 2019-20 BUDGET
6. ADMINISTRATION DEPARTMENT OVERVIEW
7. FINANCE AND INFORMATION TECHNOLOGY (IT) DEPARTMENT OVERVIEW

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

8. DEPARTMENT ACTIVITIES REPORTS
 - a. Administration
 - b. Finance and Information Technology
9. MONTHLY WATER USAGE DATA, TIER 2 PROJECTION, AND WATER SUPPLY INFORMATION

OTHER ITEMS

10. 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.

MEETING OF THE
BOARD OF DIRECTORS OF THE
MUNICIPAL WATER DISTRICT OF ORANGE COUNTY
Jointly with the
PUBLIC AFFAIRS AND LEGISLATION COMMITTEE
December 17, 2018, 8:30 a.m.
Conference Room 101

Committee:

Director Dick, Chair
Director Thomas
Director Tamaribuchi

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

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 PARTICIPATION

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

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

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

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>.

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)
2. MWDOC LEGISLATIVE AND REGULATORY PRIORITIES FOR 2019
3. SOUTHERN CALIFORNIA WATER ISSUES CONGRESSIONAL DELEGATION BRIEFING LUNCHEON (DC)
4. GOVERNMENT AFFAIRS DEPARTMENT OVERVIEW

5. PUBLIC AFFAIRS DEPARTMENT OVERVIEW

ACTION ITEMS

6. MWDOC LEGISLATIVE AND REGULATORY POLICY PRINCIPLES ANNUAL UPDATE
7. EXTENSION OF LOCAL ADVOCACY CONTRACT WITH LEWIS CONSULTING GROUP
8. EXTENSION OF FEDERAL LEGISLATIVE ADVOCACY CONTRACT WITH JAMES C. BARKER, PC
9. EXTENSION OF STATE LEGISLATIVE ADVOCACY CONTRACT WITH BEST, BEST & KRIEGER

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.)

10. NEW LEGISLATOR INFORMATION PACKET
11. EDUCATION PROGRAMS UPDATE
12. GIRL SCOUTS OF ORANGE COUNTY WATER RESOURCES AND CONSERVATION PATCH PROGRAM
13. PUBLIC AFFAIRS ACTIVITIES REPORT

OTHER ITEMS

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

ADJOURNMENT

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

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.

REGULAR MEETING
OF THE BOARD OF DIRECTORS
MUNICIPAL WATER DISTRICT OF ORANGE COUNTY
18700 Ward Street, Board Room, Fountain Valley, California
December 19, 2018, 8:30 a.m.

AGENDA

PLEDGE OF ALLEGIANCE

ROLL CALL

PUBLIC COMMENTS/PARTICIPATION

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

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

ITEMS RECEIVED TOO LATE TO BE AGENDIZED

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

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

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. 2075

CONSENT CALENDAR (Items 1 to 8)

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

1. MINUTES

- a. November 7, 2018 Workshop Board Meeting
- b. November 21, 2018 Regular Board Meeting

Recommendation: Approve as presented.

2. COMMITTEE MEETING REPORTS

- a. Planning & Operations Committee Meeting: November 13, 2018
- b. Administration & Finance Committee Meeting: November 14, 2018
- c. Public Affairs & Legislation Committee Meeting: November 19, 2018
- d. Executive Committee Meeting: November 20, 2018

Recommendation: Receive and file as presented.

3. TREASURER'S REPORTS

- a. MWDOC Revenue/Cash Receipt Register as of November 30, 2018
- b. MWDOC Disbursement Registers (November/December)

Recommendation: Ratify and approve as presented.

- c. Summary of Cash and Investment and Portfolio Master Summary Report (Cash and Investment report) as of October 31, 2018
- d. PARS Monthly Statement (OPEB Trust)
- e. Water Use Efficiency Projects Cash Flow

Recommendation: Receive and file as presented.

4. FINANCIAL REPORT

- a. Combined Financial Statements and Budget Comparative for the Period ending October 31, 2018

Recommendation: Receive and file as presented.

5. NOVEMBER 2018 ELECTION CERTIFICATES

Recommendation: Receive and file Certificate of Election for Brett R. Barbre (Division 1), and the Certificates of Appointment In Lieu of Election for Larry D. Dick (Division 2) and Satoru "Sat" Tamaribuchi (Division 5).

6. 2018 WATER RELIABILITY FOLLOW-UP ANALYSES WITH CDM-SMITH

Recommendation: (1) acknowledge the nature of these two authorization requests as sole source requests for work by CDM-Smith because CDM-Smith has completed the prior work on the OC Water Reliability Study, (2) authorize the General Manager to enter into an Agreement with CDM-Smith for "As Needed Water Resources Planning Assistance" at a cost not to exceed \$65,000, and (3) acknowledge an additional authorization under the General Manager's authority for assistance from CDM-Smith to conduct additional work and provide assistance to MWDOC staff in developing recommended terms and conditions for the Strand Ranch Extraordinary Water Supply analysis at a cost not to exceed \$16,640, with such terms and conditions to be shared with the Board and the member agencies.

7. WATER LOSS CONTROL SHARED SERVICES BUSINESS PLAN

Recommendation: Adopt the Water Loss Control Shared Services Business Plan and authorize staff to plan for implementation of shared services in the Fiscal Year 2019-20 Budget, including (1) Two water loss control staff to be funded through a combination of core and choice services (approximately 0.54 and 1.46 FTE respectively), and (2) MWDOC funding of initial equipment cost of approximately \$85,400.

8. RESULTS OF MWDOC ADMINISTRATION BUILDING ELECTRICAL ASSESSMENT AND APPROVAL OF ELECTRICAL ENGINEERING SERVICES

Recommendation: Authorize the General Manager to enter into a contract with OMB Electrical Engineers, Inc. to provide electrical engineering services for the MWDOC Administration Building at a fixed fee cost of \$9,500 plus an additional contingency budget of \$5,000 for outside electrical analysis work for a combined total of \$14,500.

End Consent Calendar

ACTION ITEMS

9-1 REORGANIZATION OF THE MWDOC BOARD OF DIRECTORS; ELECTION OF PRESIDENT AND VICE PRESIDENT RES. NOS. _____ & _____

Recommendation: Nominate, and by Resolution(s), elect the President and Vice President of the Board.

9-2 APPOINTMENT OF SECRETARY, TREASURER(S), AND LEGAL COUNSEL RES. NO. _____

Recommendation: Adopt Resolution(s) appointing the Board Secretary, Treasurer, and Legal Counsel.

9-3 MWDOC LEGISLATIVE AND REGULATORY POLICY PRINCIPLES ANNUAL UPDATE

Recommendation: Adopt the updated legislative policy principles for 2019.

9-4 EXTENSION OF LOCAL ADVOCACY CONTRACT WITH LEWIS CONSULTING GROUP

Recommendation: Extend the local advocacy contract Lewis and Associates for 2019.

9-5 EXTENSION OF FEDERAL LEGISLATIVE ADVOCACY CONTRACT WITH JAMES C. BARKER, PC

Recommendation: Extend the federal advocacy contract with James C. Barker, PC for 2019.

9-6 EXTENSION OF STATE LEGISLATIVE ADVOCACY CONTRACT WITH BEST, BEST & KRIEGER

Recommendation: Extend the state advocacy contract with Best, Best & Krieger for 2019, effective January 1, 2019 at the current rate of \$7500 per month for a period of one year, with a recommended increase to \$8,000 per month, effective July 1, 2019.

9-7 FINAL DRAFT OF THE 2018 ORANGE COUNTY WATER RELIABILITY STUDY

Recommendation: Receive and file the final draft report for the 2018 Orange County Water Reliability Study. Staff will incorporate any non-substantive changes in the process of compiling the final report for distribution.

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

10. GENERAL MANAGER'S REPORT, NOVEMBER 2018 (ORAL AND WRITTEN)

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

11. MWDOC GENERAL INFORMATION ITEMS

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

Recommendation: Receive and file as presented.

CLOSED SESSION

12. PUBLIC EMPLOYEE PERFORMANCE EVALUATION

Title: General Manager
Government Code Section 54957

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 contacting 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.

GENERAL MANAGER'S REPORT OF STAFF ACTIVITIES DECEMBER 2018

<p>MWDOC Agencies Managers Meeting</p>	<p>MWDOC held its Member Agency Managers' meeting at its office in Fountain Valley on November 15, 2018.</p> <p>In attendance were: Bob Hill – El Toro WD, Mark Sprague – Fountain Valley, Cel Pasillas – Garden Grove, Brian Ragland – Huntington Beach, Paul Cook – IRWD, Steffen Catron – Newport Beach, John Kennedy & Adam Hutchinson – OCWD, Jose Diaz – Orange, David Spitz – Seal Beach, Jerry Vilander – Serrano WD, Joe McDivitt – South Coast WD, Michael Perea – Trabuco Canyon WD, Art Valenzuela – Tustin, Rosanne Weston – Yorba Linda WD and Mike Grisso – Buena Park</p> <p>MWDOC Staff: Harvey De La Torre, Melissa Baum-Haley, Charles Busslinger, Joe Berg, Kevin Hostert and Francisco Soto.</p> <p>Discussion Items:</p> <ul style="list-style-type: none"> • Water Supply Conditions Update • Annual Water Use Report • Provided at Mtg. • Revisions to MWDOC's 2019 Capacity Charge • Report Items: <ul style="list-style-type: none"> • March GM Report • Legislative Reports • WEROC Matrix • Grant Funding Opportunities • Delta Stewardship Council Staff Report <p>Next meeting will tentatively be held January 17, 2018.</p>
<p>Meetings</p>	<p>Karl Seckel presented on the California WaterFix at the ETWD Community Advisory Committee.</p> <p>Karl Seckel and Charles Busslinger met with SMWD staff, Dan Ferons, Rich Kisse and Daniel Peterson and MET staff Brent Yamasaki, Mark Bushyeager, Richard Ford and Ezekiel Montanez to discuss maintenance activities for the South County Pipeline. It is about 28 years old and is beginning to need attendance to cathodic protection, re-coating of valve vaults and is in need of its first full internal inspection. Due to the number of years of experience MET staff have accrued, they were invited to share their expertise. MET was very gracious to share staff from operations, corrosion, maintenance and repair and engineering to discuss the various activities with SMWD staff. The meeting was very informative and will lead to additional sharing of expertise.</p>

<p>Meetings – continued</p>	<p>Karl Seckel, MWDOC Director Sat Tamaribuchi, OC Coastkeeper Garry Brown and I participated in a phone discussion with Curt Schmutte on Bay-Delta issues relative to progress (or lack thereof) on habitat restoration activities. The discussions indicated that the primary factor being considered to help fish by the SWRCB and others is “more water flows”, which is not consistent with the bulk of science developed nor the Whitepaper prepared by Dr. Peter Moyle. The sense is that the environmentalists feel as if they have no other options to gravitate to other than water flows and they are not prepared to discuss alternatives other than flow reductions because of a lack trust. It was also observed that the lack of “kick-off” energy for Eco-Restore compared to the “kick-off” energy for the Tunnels is leading to further distrust.</p> <p>Charles Busslinger attended the Western Water Technology Approval Group (TAG) meeting on November 14, 2018 at MET. The TAG is a global innovation forum of water utilities looking at emerging technologies. The forum is facilitated by Isle Utilities which facilitates many collaborative projects through the trialing of emerging technologies and assessment of emerging technologies in the market.</p> <p>Charles Busslinger is participating in the South OC IRWM Project Review Ad Hoc Committee which will be reviewing projects being submitted in South OC for the Prop 1 IRWM Grant Call for Projects.</p>
------------------------------------	---

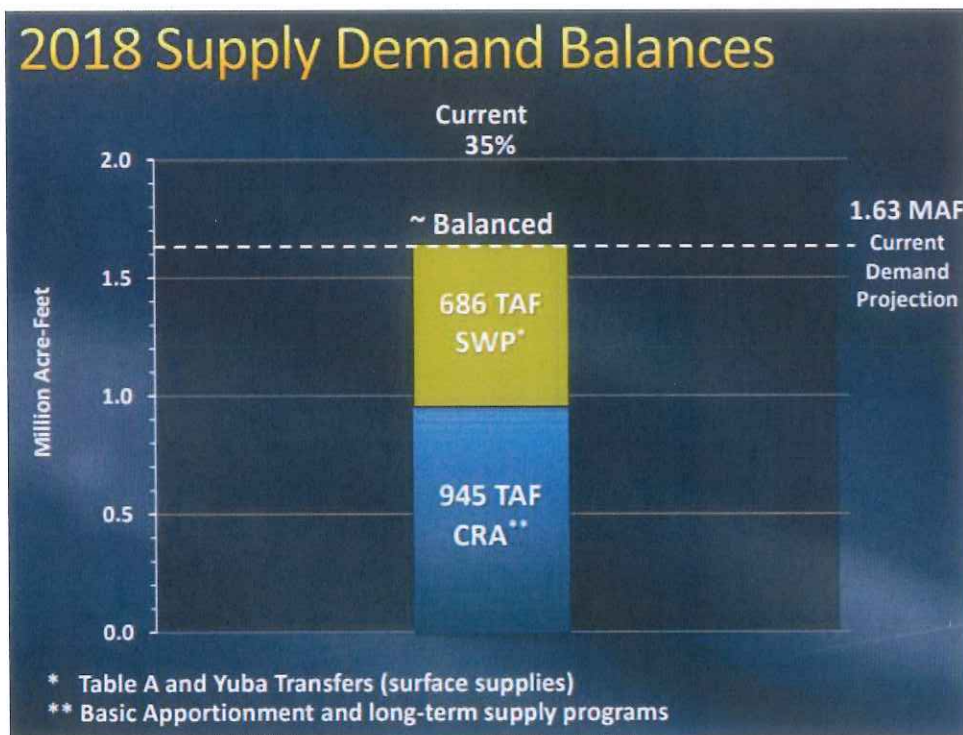
MET ITEMS CRITICAL TO ORANGE COUNTY

<p>MET’s Water Supply Conditions</p>	<p>The Northern California accumulated precipitation (8-Station Index) is reporting 5.13 inches or 61% of normal as of November 26. In the month of November 2018, accumulated precipitation reached 4.1 inches, which is 2.2 inches below normal compared to the historical average (As of November 25th). The Northern Sierra Snowpack peaked at 12.3 inches on April 1st, which is 43% of normal (California DWR has not updated Snowpack data for WY 2019). Lake Oroville storage is at 29% of total capacity and 49% of normal. The San Luis Reservoir has a current volume of 58% of the reservoirs total capacity and is 98% of normal.</p> <p>On November 30th, the Department of Water Resources (DWR) announced the initial State Water Project (SWP) “Table A” allocation at 10%, giving Metropolitan less than 200 thousand acre-feet (TAF) in SWP deliveries for 2019. The initial low allocation is mainly due to a dry start to the water year (which began in October 2018) and below average levels in key state reservoirs. It is important to note, initial allocations historically are low and gradually increase later in the year as the winter months approach. The initial allocation last year started at 15%.</p> <p>On the Colorado River system, snowpack is measured across four states in the Upper Colorado River Basin. As of November 25, 2018, snowpack measured at 107% of normal for that date. The ongoing decline in the Colorado River watershed has impacted storage levels in Lake Powell and Lake Mead, which in turn affects the likelihood of surplus or shortage conditions in the future. The Bureau of Reclamation</p>
---	--

MET’s Water Supply Conditions - continued

is projecting that there is a 0% chance of a shortage on the Colorado River in 2019, increasing to about 57% in 2020.

With estimated total demands and losses of 1.63 million acre-feet (MAF), Metropolitan is projecting that demands will equal supply levels in CY 2018. Based on this, estimated total dry-year storage for Metropolitan at the end of CY 2018 will go down to 2.5 MAF.



MET’s Finance and Rate Issues

As of September 30, the short-term portfolio balance is \$618.6 million and has returned 0.15%, which is equal to the benchmark. Since inceptions, the short-term portfolio have yielded of total return of 1.86%, which is an out performance of 0.54% compared to the benchmark.

The long-term portfolio balance is \$346.8 million, a \$1.1 million decline from last month, and thus returned -0.22%, however, approximately equal the benchmark. Since inceptions, the long-term portfolio have yielded of total return of 3.26%, which is an out performance of 0.29% compared to the benchmark.

Water transactions through September were 62.5 TAF (12%) lower than budget and 46.7 TAF (11%) higher than the 5-year average. At this early point in the year, Metropolitan is planning to end the year on budget.

Colorado River Issues

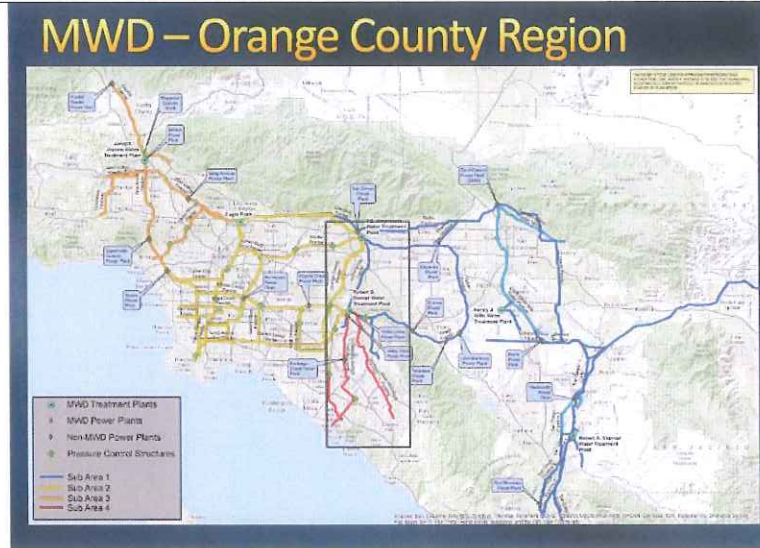
Drought Contingency Plan Development
 On October 10, the Bureau of Reclamation (Reclamation) posted a draft set of interstate Drought Contingency Plan (DCP) agreements that would implement DCPs in the Upper and Lower Basins. The agreements include both an Upper Basin DCP and a Lower Basin DCP. Reclamation’s notice explains that the Upper Basin DCP is designed to protect critical reservoir elevations at Lake Powell and help assure continued compliance with the Colorado River Compact, and authorize storage of

<p>Colorado River Issues - continued</p>	<p>conserved water in the Upper Basin that could help establish the foundation of a demand management program in the future. The Lower Basin DCP would require Arizona, California and Nevada to contribute additional water to Lake Mead storage at predetermined elevations and create additional flexibility to incentivize additional voluntary conservation of water to be stored in Lake Mead.</p> <p>Throughout October, representatives of the seven Basin States and contractors like Metropolitan have been meeting with boards and stakeholders to review the draft set of DCP agreements and receive input. At their meeting in September 2018, the seven Basin States Principals tentatively discussed offering the DCP package for their respective entities’ approval during November and early December of this year.</p> <p><u>Palo Verde Irrigation District Property Utilization Committee Meeting</u></p> <p>Following the October Palo Verde Irrigation District (PVID) Board meeting, Metropolitan Board Members and staff participated in a Property Utilization Committee meeting with PVID Board representatives to develop recommendations for managing Metropolitan’s lands. The discussions included potential refinements to lease terms, temporary management of Metropolitan’s lands until the leases are final, and the process of converting Metropolitan land into habitat for the Colorado River Multispecies Conservation Program. Metropolitan staff will consider the recommendations from the Committee when it makes future decisions about managing the lands it owns in Palo Verde Valley.</p> <p><u>Minute 323 Binational Work Group Meeting</u></p> <p>Following the adoption of Minute No. 323 to the United State International Water Treaty with Mexico, a number of workgroups were formed to assist in implementing the Minute’s provisions. The Binational Hydrology Work Group met on October 16. This Work Group is made up of representatives of the International Boundary and Water Commission (United States and Mexico, Reclamation, Comisión Nacional del Agua, the Upper Colorado River Commission), as well as representatives of various state entities and water providers, including Metropolitan. At this meeting, the draft Annual Report, describing 2018 activities including meetings held and information shared between the United States and Mexico, as well as next steps including recommendations for future activities were reviewed. The Work Group also reviewed the draft Communications Plan, which will help inform stakeholders about implementation activities. The Work Group expects to finalize its draft Annual Report in November 2018. The Work Group also reviewed proposed research and investigations to meet commitments in Minute No. 323.</p>
<p>Bay Delta/State Water Project Issues</p>	<p><u>Science Activities</u></p> <p>A scientific paper authored by Dr. James Peterson, of Oregon State University, was accepted for publication in the December issue of the San Francisco Estuary & Watershed Science journal. The article, entitled “An Evaluation of Three Fish Surveys in the Bay-Delta 1995 – 2015”, evaluates the potential bias in three fish surveys. The key finding of the scientific work is that a number of species in the Bay Delta system, including Delta Smelt and Longfin Smelt are not being detected by fish sampling gear as the water becomes clearer. This has likely led to significant distortions in past evaluations of fish abundance and distribution.</p>

<p>Bay Delta/State Water Project Issues - continued</p>	<p>Metropolitan staff is participating in the Central Valley Salmon Habitat Partnership, a multi-agency group made up of state and federal agencies, water districts, and non-profit organizations working together to advance recovery and maintenance of viable, self-sustaining salmon populations. At the most recent science meeting the group discussed the habitat criteria for juvenile salmon that will be included in the Implementation Plan. The Implementation Plan will rely on the best available science to identify priority restoration projects to support a variety of habitats for salmon and steelhead. The science group reviewed and discussed a draft proposal for the Delta Science Program proposal solicitation to support efforts to identify additional habitat restoration that could be implemented in the upper watershed to support juvenile and adult salmon. The Implementation Plan will help prioritize project implementation.</p> <p>Metropolitan staff met with the Centerville Schoolhouse Workgroup, a diverse group of stakeholders that are committed to ensuring the future of Butte Creek’s population of spring-run Chinook salmon, to discuss four scenarios that could occur if PG&E sells the DeSabra-Centerville Hydroelectric Project and the infrastructure, regulatory process, and economics that would be associated with each scenario. These scenarios range from keeping the project as-is to decommissioning options and will guide what may be needed once a decision on the project is made by PG&E. The group discussed how to best approach potential buyers of the facility, to share information and ideas on what could be done to support spring run under the different scenarios, and formed a subgroup to discuss what science studies are needed to better understand restoration actions that are most beneficial to supporting this population of salmon.</p> <p>Metropolitan staff is participating on the Interagency Ecological Program (IEP) Annual Workshop planning committee to identify what research should be presented at the 2019 Annual Workshop and to plan a session focused on predation on native species.</p> <p>Metropolitan staff met with DWR staff to share ideas for future science studies and discuss what scientific directed studies should be included in the IEP 2020 work plan. As the year progresses, Metropolitan staff will work closely with DWR to develop these studies.</p> <p>Metropolitan staff continued participating in the Collaborative Science and Adaptive Management Program (CSAMP), including participation on the Collaborative Adaptive Management Team (CAMT). In October, CAMT agreed on a process and participants to scope the development of a salmon science plan and develop a list of recommended salmon actions for CSAMP engagement. CAMT also reviewed and commented on a draft summary of the CAMT study evaluating factors that may affect catchability for Delta smelt surveys. On October 16, CAMT and CSAMP Policy Group members participated in a workshop facilitated by Compass consultants to identify key decisions related to Delta smelt that could be informed by a structured decision-making process.</p> <p><u>Delta Flood Emergency Management Plan</u></p> <p>A review of the Delta Flood Emergency Management Plan (DFEMP) was conducted in early October in preparation for publishing the final document. The DFEMP includes benefits of developing the Emergency Freshwater Pathway following a major earthquake event and flooding of multiple Delta islands, including</p>
--	---

<p>Bay Delta/State Water Project Issues - continued</p>	<p>significantly shorter export outage periods and export shortages than would be experienced without its development.</p> <p>The DFEMP includes an initial prioritization and deployment of resources for pathway development, and considers unique circumstances brought about by the emergency event and potential interim use of south of Delta storage. The DFEMP indicates state interest in the repair of levee breaches along the Emergency Freshwater Pathway route, including Middle River and Victoria Canal, as well as south Delta levees along Old River.</p>
<p>East Orange County Feeder No. 2</p>	<p><u>Use of East Orange County Feeder No. 2 for Conveyance of Groundwater and/or Poseidon Water</u></p> <p>MWDOC has been meeting with MET staff to discuss various aspects of using the EOCF#2 to convey other sources of local water. This concept can include ocean desalination projects, and/or other local projects such as the groundwater pump-in to the EOCF#2.</p> <p>On August 31, 2018, MWDOC hosted a Water System Operations and Integration Workshop attended by technical staff from: MET’s Water Quality team, MWDOC member agencies, and consultants. The workshop focused on the possible integration of multiple treated water sources into the OC water distribution system; particularly in the lower reaches of EOCF#2. The collaborative discussion identified a number of potential issues for follow-up. Staff and our consultant, Ed Means, are working through the workshop recommendations to develop a plan to address these issues.</p> <p>On October 17, 2018 MWDOC staff met with members of MET’s Facilities Planning team to discuss the capabilities of and experiences with MET’s water distribution system model (which is principally a hydraulic model). MWDOC staff began a discussion about the possibilities of leveraging the existing MET model data for inclusion into an OC water distribution model. The OC model concept is envisioned to include distribution pipelines in OC such as EOCF#2, AMP, Joint Regional Water Supply System (JWRSS), and South County Pipeline. The OC model concept would also include a water quality module to assist with the development of solutions to the issues identified during the Water Systems Operations and Integration Workshop. MET staff was generally favorable to the idea of sharing information, and are currently evaluating a number of possible alternatives that will be discussed with MET executive management.</p>

**East Orange
County
Feeder No. 2
- continued**



**South
Orange
County
Projects**

Doheny Desal Project

South Coast WD submitted a grant application for up to \$20 million for project construction through Bureau of Reclamation ‘Water SMART: Desalination Construction Projects under the WIIN Act’. Applications are currently being reviewed. MWDOC participated in a phone conference call with South Coast Water District to provide a briefing to the Deputy Commissioner Harrison and to make her aware of the grant application.

South Coast staff and consultants are in the process of responding to comments submitted regarding the EIR for the project. South Coast WD anticipates adopting the response to comments by the end of 2018.

SMWD Trampas Canyon Recycled Water Reservoir

This project involves the construction of a 5,000-acre-foot recycled water storage reservoir and the various complementary facilities to support this reservoir. The construction of the Trampas Canyon Recycled Water Seasonal Storage Reservoir consists of three main components:

- 1) Trampas Canyon Dam (Dam)
- 2) Conveyance facilities to transport recycled water into and out of the Reservoir (Pipelines)
- 3) Trampas Canyon Pump Station (Pump Station)

The construction of the facilities is being completed in three phases:

- 1) Preconstruction/Site Preparation for the Dam and Pump Station Construction
- 2) Dam and Pipelines
- 3) Pump Station

PROJECT STATUS

Preconstruction/Site Preparation

The work to relocate various facilities integral to the existing mining operation was completed in December 2017. The relocation of the high-tension power lines that

<p>South Orange County Projects – continued</p>	<p>feed an existing major communication facility was completed in April 2018. The final relocation of AT&T facilities was completed in May 2018, which was the final remaining activity for this phase.</p> <p><u>Dam and Pipelines</u> The \$81M Construction Contract was awarded in December 2017 and is approximately 32% complete.</p> <p><u>Pump Station</u> The preliminary design of this facility has been completed. Final design began on May 30, 2018 when the final hydraulic requirements for this facility were finalized. AECOM has recently provided a 30% Design package which the District reviewed. The design process is likely to continue thru the end of this year and we anticipate starting the construction bidding process in January 2019. Completion of the construction is expected to be in February 2020, about 2 months ahead of the Reservoir and Dam completion.</p> <p><u>San Juan Watershed Project</u> The Draft Environmental Impact Report (DEIR) public review period was closed for comments on February 23, 2018. Ultimately twenty-one comment letters were received with the major topics of concern being characterized as relating to:</p> <ul style="list-style-type: none"> • Steelhead trout migration including the provisions of fish passages • Impacts on San Juan Creek Lagoon • Aesthetics and impacts of the various structures that may be required as part of the project on the surrounding neighborhoods • Sediment transport <p>Legal review of the draft document has been completed. An approach for addressing the comments was developed amongst the team members with a new schedule also being developed. The additional technical studies of the issues listed above are being performed. The results will be incorporated into the Responses to Comments and brought to the Board for consideration of adopting the EIR.</p> <p><u>Other Information on South County Projects:</u> If any agencies would like to have updates included herein on any projects within your service area, please email the updates to Karl Seckel at kseckel@mwdoc.com.</p>
<p>ENGINEERING & PLANNING</p>	
<p>Orange County Reliability Study</p>	<p>Staff and CDM-Smith have been working on the final Reliability Study report which will be provided to the Board for a “receive and file” action on December 19. The report will not be available in time for the P&O Committee meeting on December 3.</p> <p>The detailed November P&O Committee report summarized all of the letters and comments on the report. To date there have been no new comments or letters received and no additional presentations have been made.</p>

<p>South Orange County Emergency Service Program</p>	<p>Dudek has continued to assist MWDOC and IRWD to determine if the existing IRWD South Orange County Interconnection capacity to provide emergency water to South Orange County can be expanded in capacity or extended beyond its current time horizon of 2030. Modeling and evaluation of a number of options on the IRWD system is required for the study effort. It appears that Dudek will be ready to share the report with the SOC agencies in January 2019.</p>
<p>Strand Ranch Project</p>	<p>MWDOC is using the modeling from the Orange County Reliability Study to evaluate how “extraordinary supplies” from the Strand Ranch Project can be utilized by the MWDOC agencies to provide drought protection over the next 7 to 11 years or longer. A cost-authorization was reviewed with the P&O Committee for this work.</p>
<p>MET Evaluation of Regional Storage Portfolio (ERSP)</p>	<p>MET Evaluation of Regional Storage Portfolio (ERSP).</p> <p>Metropolitan’s emergency water storage objective is based on the potential for major earthquake damage to the State Water Project and Colorado River aqueducts that transport imported water supplies to Southern California (following the San Andreas M7.8 ‘Great ShakeOut’ scenario developed by the US Geological Survey).</p> <p>MET has established a Member Agency Workgroup to consider updates to MET’s emergency storage objective, including:</p> <ol style="list-style-type: none"> 1. Updating emergency criteria, 2. Revising the framework for determining emergency storage volume. The new framework would shift from a traditional single equation for determining emergency storage volume, to an updated evaluation that considers various combinations of criteria to determine a storage amount that provides an envelope of alternatives for MET’s emergency storage that could provide reliability during the outage period. 3. Proposed periodic re-evaluation of emergency storage volume to coincide with completion of each new IRP (every 5 years). <p>MET released a White Paper on October 29, 2018 to member agencies for their review and feedback. The paper discusses a methodology for review and update of emergency criteria and re-evaluation of Metropolitan’s emergency storage.</p> <p>Included in the proposed outage period criteria is:</p> <ol style="list-style-type: none"> A. Recognition that an outage on the SWP could exceed previous estimates of six months (now one to two years), and B. Incorporation of increased operational flexibility of the MET system which was demonstrated during the last drought. Some areas in MET’s service area that normally receive SWP water from the East Branch could be served by delivering DVL water to Mills through the Inland Feeder/Lakeview Pipeline intertie. <p>These changes modify the Emergency Outage Criteria from a minimum/maximum outage criteria to an ‘effective outage’ duration which better represents conditions.</p> <p>A third Workgroup meeting was held November 1, 2018 which continued the discussion on updating emergency storage criteria and re-evaluation of Metropolitan’s Emergency Storage Requirements. Based on these discussions, it</p>

<p>MET Evaluation of Regional Storage Portfolio (ERSP) - continued</p>	<p>appears as if MET staff will only be making marginal changes in the existing emergency storage recommendations.</p>
<p>Poseidon Resources</p>	<p>Poseidon continues working with the Santa Ana Regional Water Quality Control Board (SARWQCB) to renew and update its existing National Pollution Discharge Elimination System permit and expects to be in front of the Regional Board in early 2019.</p>
<p>EMERGENCY PREPAREDNESS</p>	
<p>Coordination with WEROC Member Agencies</p>	<p>WEROC hosted its first Cyber and Information Security Symposium for its member agencies on Monday, October 29. The agenda included information on cyber insurance, free government support services, the interdependencies of IT and finance processes, and a presentation from OCTA on their lesson's learned from their cyberattack a few years ago. The group also participated in facilitated cyber related disaster exercises related to disaster policies and procedures in different circumstances.</p> <p>The WEROC Emergency Coordinator Quarterly meeting took place November 6, 2018. Topics discussed included: Hazard Mitigation Plan and Grants, Member Agency Fuel Survey, County Recovery Exercise, WEROC Cyber Security Symposium, the January County Exercise, Water Quality Notification Translations, Public Safety Power Shutoff Program, and Dam Planning.</p>
<p>Training and Programs</p>	<p>Kelly Hubbard hosted an EOC training for the Planning and Intelligence Section of the EOC. The training focused on reviewing the Situation Summary Report, identifying where to locate information, reviewing each positions role in the overall response, and how each position interacts with the others.</p> <p>Kelly and Francisco met with Public Affairs staff to review various components specific to the Public Information Officer's role during an EOC activation. Discussion topics included, the safe keeping of administrator passwords to various webpages, public outreach material design, and the design of the MWDOC dark page that can be used during emergencies.</p>
<p>Coordination with the County of Orange</p>	<p>Kelly attended the November OCEMO meeting at the Orange County Fire Authority Headquarters. Fred Selayandia from the Emergency Management Division provided an overview of the Terrorism Annex. Nicole Garcia from the Orange County Health Care Agency presented "A Look Inside Health Care Agency Behavioral Health Services Disaster Response." Nicole used her agency's response to the Aliso Bombing as an example of impacts to employees and the services that HCA Behavioral Health can provide to any agency following a traumatic event.</p>

<p>Coordination with the County of Orange - continued</p>	<p>WEROC staff reviewed and provided feedback on the following OA and County plans:</p> <ul style="list-style-type: none"> • OA Radio System Standard Operating Procedures • Joint Information System Plan – This plan provides • Mass Evacuation Annex • Mass Care and Shelter Annex • Holy Fire Debris Flow Plan • Canyon II Debris Flow Plan <p>Francisco attended the Urban Area Working Group at the North Net Training Center in Anaheim. This is the group that reviews and approves Urban Areas Security Initiative (UASI) Homeland Security grant funds. Discussion topics focused on potential funding opportunities, and presentations from the Orange County Sheriff’s Department and the City of Anaheim. WEROC is working with the group on potential funding for water distribution bags for disasters and emergency generators for key water utility facilities, including the WEROC EOCs.</p> <p>Francisco attended the Operational Area Executive Board Meeting in Santa Ana. As an ISDOC representative, WEROC staff provided input on various plans that were up for approval and provided the board with project highlights that ISDOC membership are currently working on.</p> <p>Francisco participated in a conference call that took place on November 21st for the activation of Phase 2 of the Holy Fire Debris Flow Plan due to projected incoming rain. The call detailed the current rain forecast and each agencies’ role to prepare for possible debris flows. Trabuco Canyon Water District has infrastructure that can be impacted by the debris flows. They participated in the call and WEROC staff are aware of their concerns and possible need for coordination should a debris flow occur.</p> <p>Ongoing: The Operational Area has started its review and update of the County of Orange and Orange County Operational Area Flood, Dam and Reservoir Annex. This update will combine what was two separate plans, as well as address planning requirement updates in Dam Emergency Action Planning that were implemented this year. Kelly attended the last OA Dam planning meeting to participate in reviewing the entire revision of plan. Kelly facilitated a discussion on planning concepts that Dam Owners should consider standardizing across the county. WEROC will host a Dam meeting for its member agencies in December and invite other OC Dam owners to participate.</p>
<p>EOC Readiness</p>	<p>Janine Schunk successfully participated in the OA and MET Radio Test and WebEOC tests for the month.</p> <p>Janine facilitated the monthly test of the WEROC Radio System.</p>
<p>Coordination with Outside Agencies</p>	<p>Kelly Hubbard and Karl Seckel attended and were guest speakers at the Chapman University Earthquake Forum. Karl spoke about Reliability planning for water infrastructure and Kelly provided information about how the water utilities prepare and coordinate in a disaster.</p> <p>Kelly was asked to sit on a national committee to review the joint agency American Water Works Association (AWWA) Water & Wastewater Mutual Aid & Assistance Resource Typing Manual. The process is a joint planning effort between FEMA and</p>

<p>Coordination with Outside Agencies - continued</p>	<p>AWWA that provides guidance to water and wastewater agencies when requesting and providing mutual aid resources. The current version was updated in 2008. All travel cost and accommodations associated with the trip will be reimbursed by AWWA.</p>
<p>WATER USE EFFICIENCY</p>	
<p>Metropolitan Water District of Southern California (MET) Water Use Efficiency Workgroup</p>	<p>On November 15, Rachel Davis attended Metropolitan’s Water Use Efficiency Workgroup meeting. Approximately 30 member agencies participated in the meeting. Agenda items included:</p> <ul style="list-style-type: none"> • November Board Report • Model Landscape Ordinance (MWEL) Workshops Update • Commercial Landscape Pre-Inspection Program Findings • Black Friday Social Media Campaign • Conservation in DAC • Member Agency Round-Table/Updates <p>The next workgroup meeting is scheduled for January 17th at Metropolitan.</p>
<p>Association of California Water Agencies Annual Fall Conference</p>	<p>On November 28, Joe Berg represented MWDOC on a panel at the Annual Fall Conference. The title of the panel was “Water Industry Trends: Regulating Urban Water System Leak Loss?” Other panel members included Ron Duncan, General Manager of Soquel Creek Water District, Max Gomberg, Climate and Conservation Manager at the State Water Resources Control Board, Marc Marcantonio, General Manager for Yorba Linda Water District, and Jim Peifer, Principal Engineer with the City of Sacramento. The panel discussed the policy and technical considerations which have been raised during the current stakeholder process, how “custom” performance standards for water loss will be used in establishing water use efficiency targets, and how these regulations can be crafted to support local water agency system reliability and cost-effectiveness needs.</p>
<p>Orange County Water Use Efficiency Coordinators Workgroup</p>	<p>On December 6, Joe, Steve Hedges, Beth Fahl, Rachel Davis, Rachel Waite, Jeannie Bui, and Bryce Roberto hosted the Orange County Water Use Efficiency Coordinators Workgroup meeting at MWDOC. Approximately 20 agencies participated in the meeting. Highlights on the agenda included:</p> <ul style="list-style-type: none"> • MWDOC Updates • Agency Roundtable/Problem Solving • Public Affairs/Marketing <ul style="list-style-type: none"> ○ Metropolitan’s Conservation Program Updates ○ Girl Scouts Program ○ Media Kits ○ MWDOC Social Media ○ Wyland Pocket Park ○ Be The Voice 4 Water Video Contest • SAWPA Outdoor Water Budget Tool Demonstration and Update • Native Plants in the Nursery Supply Chain Survey • Metropolitan Update

<p>Orange County Water Use Efficiency Coordinators Workgroup - continued</p>	<ul style="list-style-type: none"> ○ MWD Board Update ○ MWD Landscape Programs Update ○ DAC Update ● Water Use Efficiency Programs Update <ul style="list-style-type: none"> ○ Landscape Transformation Program ○ OC-Qualified Water Efficient Landscaper Training <ul style="list-style-type: none"> ▪ Upcoming Classes ▪ Marketing ○ CalWEP Update ● Future Agenda Items <p>The next meeting is scheduled for February 7th at MWDOC.</p>
<h2>PUBLIC/GOVERNMENT AFFAIRS</h2>	
<p>Member Agency Relations</p>	<p>Public Affairs Staff:</p> <ul style="list-style-type: none"> ● Provided a Public Affairs Activities update to the Water Use Efficiency Orange County Workgroup ● Met multiple times with Water Use Efficiency staff to discuss program(s) marketing needs and goals ● Participated in a Qualified Water Efficient Landscape (QWEL) conference call ● Provided content to Water Use Efficiency for California Sprinkler Adjustment Notification System (CSANS) updates ● Prepared the agenda, and lead the kickoff meeting with the City of Westminster, the Wyland Foundation, and Saddleback College for the Wyland/MWDOC Pocket Park award ● Provided Yorba Linda Water District the Request For Proposals (RFP) prepared for the mwdoc.com website redesign project <p>Governmental Affairs Staff:</p> <ul style="list-style-type: none"> ● Attended a meeting with MWDOC member agency government affairs staff to discuss and coordinate efforts for 2019
<p>Community Relations</p>	<p>Public Affairs Staff:</p> <ul style="list-style-type: none"> ● ... and Ricki the Raindrop participated in Metropolitan's 2018 Student Art Recognition Event and Mascot Raid ● Provided judges for Discovery Science Center's annual Gingerbread House Competition
<p>Education</p>	<p>Public Affairs Staff:</p> <ul style="list-style-type: none"> ● Shared information with Inside the Outdoors on Metropolitan's Colorado River Aqueduct Inspection Trips for Educators ● Continued administrative responsibilities for Girl Scouts Water Resources and Conservation Patch Program clinics ● Hosted November 17 Water Resources and Conservation Patch Clinic with Laguna Beach County Water District and Nix Nature Center

<p>Education - continued</p>	<ul style="list-style-type: none"> • Provided Metropolitan education team with Girl Scouts Patch Program write-up and clinic schedule • Provided City of Westminster with update on High School program • Participated in several conference calls with Inside the Outdoors to discuss Voice4Planet video contest promotions • Provided City of Seal Beach with materials for promoting Elementary School program • Provided South Coast Water District with High School program visit schedule • Provided City of Fountain Valley student target numbers for Elementary School program • Provided City of San Clemente with information on Girl Scout Patch Clinic • Provided El Toro Water District with High School program visit schedule • Updated participating member agencies with Elementary School program attendance reports and visit schedules • Participated on conference call with Metropolitan education team to discuss Girl Scouts Patch Program activities, and areas of responsibility
<p>Media Relations</p>	<p>Public Affairs Staff:</p> <ul style="list-style-type: none"> • Prepared and posted daily social media content across all platforms • Worked with Digital Communications contractor HashtagPinpoint several times throughout the month to discuss social media strategy, content, and opportunities
<p>Staff Training and Development</p>	<p>Public Affairs Staff:</p> <ul style="list-style-type: none"> • Participated in an Advancing One Water Through Arts and Culture webinar • Completed several trainings and have received Hootsuite Social Media Platform, and Social Marketing Certification(s)
<p>Special Projects - continued</p>	<p>Public Affairs Staff:</p> <ul style="list-style-type: none"> • Completed final version of MWDOC groundwater aquifer graphic • Met with Metropolitan inspection trip staff to review itineraries for upcoming trips • Are currently working on itineraries, trip logistics, guest and Director requirements for the following inspection trips: <ul style="list-style-type: none"> ○ January 11-12, Director Ackerman CRA ○ February 8, Director McKenney Infrastructure ○ February 22-23, Director Dick SWP/Ag • Participated in Water Emergency Response organization of Orange County radio training • Participated in an Orange County Water Summit committee meeting • Attended Orange County Business Council’s Turning Red Tape to Red Carpet Awards Ceremony – MWDOC was nominated in the Sustainable and Green Development category for the MWDOC-Wyland Pocket Park Project

	<ul style="list-style-type: none"> • Completed several District website updates • Prepared a draft letter of congratulations for re-elected and newly-elected officials • Participated on a conference call with West Basin Municipal Water District about our social media processes and strategy <p>Governmental Affairs Staff:</p> <ul style="list-style-type: none"> • Coordinated a meeting with MWDOC staff, MWDOC's state advocate Syrus Devers, MWDOC consultant Matt Thomas, and Katie Porter representing the California Urban Water Agencies to discuss efforts to assist chronically non-compliant water providers get back into compliance. • Attended the WACO Planning meeting and helped coordinate December guest speaker, Dave Eggerton, ACWA's new Executive Director. • Attended the ACWA Fall Conference in San Diego • Provided information on the ISDOC Secretary vacancy to the ISDOC Executive Committee and inquiring districts
<p>Legislative Affairs</p>	<p>Public Affairs Staff:</p> <ul style="list-style-type: none"> • Accompanied Director Barbre to Washington D.C. to attend a slate of meetings including strategy meetings for both the lame duck and new Congress and meetings with Representatives and staff from six different California Congressional Districts • Assisted with the preparation of slides for the December 6th Elected Officials Forum, and attended the meeting <p>Governmental Affairs Staff:</p> <ul style="list-style-type: none"> • Met with Lana Haddad of Long Beach Water Department • Attended ACWA's water tax alternative proposal/s working group meeting in Sacramento • Coordinated with MWDOC's federal, state, and local advocates on 2019 legislative priorities

AGENDA
SOUTH ORANGE COUNTY WATERSHED MANAGEMENT
AREA
MANAGEMENT COMMITTEE

AGENDA
December 3, 2018
1:30 – 3:30 p.m.

City of Laguna Hills, City Hall – Council Chambers
24035 El Toro Road
Laguna Hills, CA 92653

[Map](#)



Shaun Pelletier

City of Aliso Viejo

Lisa Zawaski

City of Dana Point

Mary Vondrak

City of Laguna Beach

Ken Rosenfield

City of Laguna Hills

Hal Ghafari

City of Laguna Niguel

Moy Yahya

City of Laguna Woods

Devin Slaven

City of Lake Forest

Joe Ames

City of Mission Viejo

Hazel McIntosh

City of Rancho Santa Margarita

David Rebensdorf

City of San Clemente

Joe Parco

City of San Juan Capistrano

Grant Sharp

County of Orange

Dennis Cafferty

El Toro Water District

Mark Tetteimer

Irvine Ranch Water District

Rodney Woods

Moulton Niguel Water District

Charles Busslinger

Municipal Water District of OC

Dan Ferons

Santa Margarita Water District

Rick Shintaku

South Coast Water District

Betty Burnett

South OC Wastewater Authority

Michael Perea

Trabuco Canyon Water District

David Youngblood

Laguna Beach County Water District

- 1. Welcome & Introductions**
Group

- 2. Proposition 1 IRWM Grant Planning & Schedule Update**
Jenna Voss, County of Orange

- 3. South OC Water Quality Improvement Plan (WQIP) – Comprehensive Human Waste Source Reduction Strategy Work Plan Development**
Cindy Rivers, County of Orange/Tetra Tech Consultant Team
 - a) Overview and Proposal for Work Plan Development**
 - b) Stakeholder Coordination**
 - c) Human Source Investigation**
 - d) Latest Science and Potential Indicators**
 - e) Next Steps and Schedule**

- 4. Updates on Current Activities & Projects (As Needed)**
Group Discussion

- 5. Next Executive Committee Meeting: March 7, 2019**
Next Management Committee Meeting: January 7, 2019 (If Needed)

- 6. Closing and Adjourn**



Executive Committee Meeting

Tuesday, December 4, 2018

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. Jim Fisler
Mesa Water District

1st Vice President

Hon. Sandra Jacobs
Santa Margarita Water District

2nd Vice President

Hon. Mark Monin
El Toro Water District

3rd Vice President

Hon. Mary Aileen Matheis
Irvine Ranch Water District

Secretary

Hon. Doug Davert
East Orange County Water District

Treasurer

Hon. Joan C. Finnegan
*Municipal Water District of
Orange County*

Past President

Hon. Mike Scheafer
Costa Mesa Sanitary District

Staff and Administration

Heather Baez

*Municipal Water District of Orange
County*

Sylvia Prado

*East Orange County Water
District*

I. Welcome

II. Approval of Minutes

- Consider approval of the minutes for the November 6, 2018 meeting

III. Public Comments

IV. Old Business

- Status of ISDOC Executive Committee Secretary Vacancy
 - Discussion and possible action on the Secretary vacancy.

V. New Business

- None

VI. Treasurer's Report – Joan Finnegan

- Receive, discuss and file December 4, 2018 Treasurer's Report.

VII. CSDA Report – Bill Nelson/Arlene Schafer

- Receive, discuss and file the CSDA report.

VIII. LAFCO Report – Doug Davert

- Receive, discuss and file the LAFCO report.

IX. ACWA Report – Sandra Jacobs

- Receive, discuss and file the ACWA report.

X. OCCOG Report – Mike Scheafer

- Receive, discuss and file OCCOG report.

XI. Subcommittee Reports

- **Program (Sandra Jacobs)**
 - Discuss programs and speakers for upcoming January 31, 2019 quarterly membership meeting
- **Membership (Mark Monin)**
- **Legislative (Mary Aileen Matheis)**
 - Discuss and consider taking action on proposed legislation of interest to Special Districts.

XII. President and Committee Member Announcements and Comments

XIII. Adjourn

Next Executive Committee Meeting: Tuesday, January 8, 2018
Next ISDOC Quarterly Meeting: January 31, 2019



ISDOC Executive Committee
November 6, 2018

Minutes

I. Welcome

President Jim Fisler called the meeting to order at 7:30 a.m.

Jim Fisler, President (Mesa Water/LAFCO)
Saundra Jacobs, 1st Vice President (SMWD)
Mark Monin, 2nd Vice President (ETWD)
Mary Aileen Matheis, 3rd Vice President (IRWD)
Doug Davert, Secretary (EOCWD/LAFCO)
Mike Schaefer, Past President (CMSD)

Committee Members Absent:

Joan Finnegan, Treasurer (MWDOC)

Others Present:

Arlene Schafer (CMSD/CSDA)
Heather Baez (MWDOC)
Christina Hernandez (MWDOC)
Alicia Dunkin (OCWD)
Stacy Taylor (Mesa Water)

II. Minutes

1. The minutes from the October 2, 2018, meeting of the Executive Committee were reviewed. Upon a motion by 1st Vice President Jacobs and second by 2nd Vice President Monin, the minutes were unanimously approved.

III. Public Comments:

1. None.

IV. Old Business:

1. Election Results:

President – Saundra Jacobs
Treasurer – Joan Finnegan
1st Vice President – Mark Monin
2nd Vice President – Arlene Shaefer
3rd Vice President – Mary Aileen Matheis

V. New Business:

1. ISDOC Secretary Vacancy – No applications were filed for the Secretary position. Jose Vergara of El Toro Water District has expressed interest in the position. In accordance with the By-Laws, a Notice of Vacancy will be sent to all special districts; an application/letter of interest will be due by December 14th. Appointment will be made at the January 8th meeting.
2. 2019 Calendar – Approval of the 2019 ISDOC Calendar was moved by 2nd Vice President Monin and seconded by 1st Vice President Jacobs; the motion was approved unanimously.

VI. Treasurer’s Report

1. As of November 6th, there is a balance of \$10,807.47 in the ISDOC account.

VII. California Special Districts Association (CSDA) Report – Arlene Schafer

1. CSDA is working to identify issues of importance to special districts; results will be reported at the next CSDA Board Meeting on November 15th.
2. Over 60 people applied for the Legislative Committee, however only 40 positions were available; the Board will make a determination on the appointments by the November 15th Board Meeting.
3. The CSDA Board held a Professional Development Committee meeting and undertook a review of the September annual conference.

VIII. Local Agency Formation Commission (LAFCO) Report – Commissioner Doug Davert

LAFCO Commissioner Davert noted the following:

1. Next meeting is November 14th at 8:15 a.m. in the Planning Commission room at County Hall of Administration
2. Annual audit will be reviewed and subject to approval by the Commission.
3. Approval of the revised proposed policies and procedures and FY 2018/19 Workplan will be considered by the Commission; the special districts group that reviewed both items has submitted a letter indicating their concurrence with the proposed documents.

IX. Association of California Water Agencies (ACWA) – 1st Vice President Sandra Jacobs

1. Region 10 held their “Removing Barriers to Innovations in Water” seminar at Lake Mission Viejo; it was a great setting and well attended. The Lake ultra-purification project was among the projects discussed; DWR staff also gave a presentation.
2. Dave Eggerton, the new Executive Director of ACWA was introduced.
3. ACWA Conference will take place in San Diego starting Nov. 27-30.
4. ACWA JPIA will be holding an informational meeting on their proposed Captive Insurance Plan on November 6th at OCWD.

X. OCCOG Report – Mike Schaefer

1. OCCOG is forming a Strategic Planning & Budget Committee and is looking for members.
2. Solar options for low income areas were presented.
3. Southern California Water Committee Executive Director Charley Wilson gave a presentation on the California WaterFix and the importance of keeping the issue moving forward.
4. Dave Kiff of ACC-OC gave an update on homeless issues.
5. Community Action Partnership (CAP) gave a presentation on the assistance they provide to low income seniors.
6. South Coast Air Quality Management District representatives gave a presentation on possible “no burn” rules.
7. John Withers has requested to be appointed as the ISDOC alternate to OCCOG if current alternate Joan Finnegan desires it.

XI. Subcommittee Reports

- Program (1st Vice President Sandra Jacobs) – Susan Price, Orange County's Homelessness Expert, gave an excellent presentation at the meeting. A request for speaker suggestions for the January meeting was made.

- Membership (2nd Vice President Mark Monin) – Working on two new members who may join after the first of the year.

- Legislative (Stacy Taylor on behalf of 3rd Vice President Mary Aileen Matheis) –

1. The legislature will be back in session on December 3rd.
2. The Water Tax will likely be reintroduced.
3. Cleanup/Clarification legislation on the water use efficiency legislation is expected.
4. Annual reports will be made electronically to the state.

XII. President and Committee Member Announcements and Comments:

1. None.

XIII. Adjournment

The meeting was adjourned at 8:35 a.m. and the next meeting will be held on Tuesday, December 4, 2018, at 7:30 a.m.



AGENDA

Friday, December 7, 2018
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. Jose Vergara
El Toro Water District


Vice Chair
Hon. Jim Atkinson
Mesa Water District

Staff Contacts


Alicia Dunkin
Orange County Water District

Heather Baez
Municipal Water District of Orange County

Stay Connected with WACO on
Facebook, Twitter, and YouTube!

 /orangecountywater

 @waco_h2o

 /orangecountywater

Pledge of Allegiance

Announcements & Introductions

- Jose Vergara, El Toro Water District

WACO Officer Elections

- Larry Dick, Municipal Water District of Orange County
- Bruce Whitaker, Orange County Water District

Reports

- Metropolitan Water District of Southern California Report – Linda Ackerman, Metropolitan Water District of Southern California

Program: Meet ACWA’s New Executive Director and Learn What’s in Store for 2019

- Dave Eggerton, Executive Director, Association of California Water Agencies (ACWA)

Adjourn

.....
Next WACO Meeting

Friday, January 4, 7:30 a.m. @ OCWD/MWDOC Joint Boardroom

Next WACO Planning Committee Meeting

Tuesday, December 18, 7:30 a.m. @ MWDOC 101



AGENDA
Quarterly Utility Coordination Meeting
Wednesday, November 28, 2018 – 10:00 A.M. - 11:00 A.M.
City of Lake Forest City Hall
El Toro Conference Room (1st Floor)

1. Introductions
2. City Projects (Taylor Abernathy)
 - a. Santiago Canyon Road Safety Improvements
 - Current Status – County Lead Project, Anticipate Construction Summer 2019
 - b. Traffic Signal Civic Center and Commercentre Drive
 - Current Status – Design Finalized, Anticipate Construction Spring 2019
 - c. Ridge Route Landscaping Phase 3
 - Current Status – Pre-Con 12/5/2018
 - d. Portola Park
 - Current Status – Finalizing Design, Anticipate bidding in November 2018
 - e. I-5 Interchange Signs
 - Current Status – In Design, Anticipate Construction end of 2018
 - f. Raised Median Improvements and Repairs
 - Current Status – In Design, Anticipate Construction end of 2018
 - g. Bake Parkway Trabuco/ Irvine (Ultimate)
 - Current Status – In Design, Anticipate Design and R/W by end of FY18/19; Construction TBD
 - h. El Toro Road and Portola/ Santa Margarita
 - Current Status – Receiving Proposals from Consultants, Anticipate Design and R/W by end of FY18/19; Construction TBD
 - i. 7 Year Street Overlay / Slurry Program - (Taylor Abernathy)
 - Next Slurry Seal Zones:
 - Zone C (FY19-20)
 - Zone G (FY20-21)
 - Zone F (FY21-22)
 - j. 7 Year Street Overlay / Slurry Program - (Taylor Abernathy)
 - Resurfacing Project Locations:
 - i. Slurry Seal Zone B – NTP issued, begin no later than 12/3/2018
 - Upcoming Resurfacing Project Locations:
 - i. Portola Parkway (within Caltrans R/W @ SR-241) (Spring 2019)
 - ii. Dimension Drive (Bake to Lake Forest) (Spring 2019) – Finalizing Design
 - iii. Civic Center Drive (Commercentre to New City Hall) (Spring 2019)
 - k. Civic Center Planning (Taylor Abernathy)
 - Rough Grading complete

- Parking Deck complete
 - Civic Center Drive Improvements – In construction
 - Buildings - In construction
3. Development Activity in Lake Forest (Doug Erdman)
- a. Portola Center (930 total homes)
 - Northwest – (81 Lots) – Grading, Streets, Model Homes
 - South – (626 Lots) - Grading, home building
 - Northeast – (223 Lots) - Grading
 - Street Improvements – Sidewalks, Curb/Gutter, GRR Medians
 - b. Shea Baker (2,392 homes total) –Six tracts under construction
 - c. Parkside – Under Construction of three tracts (Arlington – 64 homes, Madison – 53 homes, and Lexington – 70 homes)
 - d. Encanto (Commercentre and Alton) – substantially complete
 - e. Serrano Summit – Phase 1 Rough Grading under construction
 - f. Peachwood is now called Teresina – Mass Grading underway
4. Blanket/Annual Permits (Doug Erdman) The City still requires notification if you are doing work, even if it is under the blank or annual permits.
- a. Notification Forms
 - b. 24 hour minimum notice required
 - c. Job tracking not provided
5. Traffic Control Requirements related to Encroachment Permits (Dave Rogers)
- a. Use of WATCH Manual or Joint Utilities Manual requires submitting location map and plan number(s) to be used
6. Sidewalk Inspection / Utility Lids (Matt Reagan)
- a. Damaged utility lids identified in sidewalk hazard inspection.
Public Works Inspector to coordinate with utilities on replacements
7. Pavement Moratorium (Taylor Abernathy)
- a. City's Pavement Moratorium is included in all Encroachment Permits
 - b. A list of streets that are under moratorium are:
 - Slurry Seals
 - i. Zones A (8/2016),
 - ii. Zone D (11/2017), and
 - iii. Zone E (4/5/2018)

➤ Arterial Streets

- i. Alton Parkway (Portola to Rancho South) (8/2017)
- ii. Portola Parkway (Alton to El Toro Road) (7/2017)
- iii. Bake Parkway (Portola to Lake Forest) (12/2014)
- iv. Los Alisos (I-5 to easterly City Limit) (FY 2014)
- v. El Toro Road (Bridger to I-5) (FY 2014)
- vi. Rockfield (El Toro to Lake Forest) (11/2013)
- vii. Lake Forest Drive (Dimension to Rancho) (11/2013)

8. Status reports on projects from utility companies; new projects/project updates

a. **AT&T –**

b. **COX Communications –**

c. **El Toro Water District –**

d. **Irvine Ranch Water District –**

e. **Southern California Gas Company –**

f. **Southern Calif. Edison Company –**

g. **Trabuco Canyon Water District –**

6. Next Meeting (02/27/19) at 10:00 a.m.

**2019
SCHEDULE OF APPEARANCES
LAGUNA WOODS VILLAGE TV – CHANNEL 6
JANUARY THROUGH DECEMBER 2019
LAST FRIDAY OF EACH MONTH
8:00 a.m.
VMS
24351 El Toro Road
Laguna Hills, CA 92653**

<u>MONTH AND DATE</u>	<u>DIRECTOR</u>
January 25	Vergara
February 22	Monin
March 29	Gaskins
April 26	Freshley
May 31	Goldman
June 28	Vergara
July 26	Monin
August 30	Gaskins
September 27	Freshley
October 25	Goldman
November 29*	Vergara
December 27*	Monin

***May change or be canceled, due to Thanksgiving and Christmas Holidays.**

If for any reason you are unable to appear on your scheduled date, please notify Polly Welsch (837-7050, ext. 225) at your earliest convenience.

DATES TO REMEMBER
DECEMBER 2018/JANUARY 2019

1. Dec 20 – 11:30 a.m. – WaterReuse Meeting (ETWD Field Office)
2. Dec 21 – DISTRICT OFFICE CLOSED
3. Dec 25 – Christmas – DISTRICT OFFICE CLOSED
4. Dec 28 – 11:30 a.m. – Chair/GM Meeting
5. Jan 1 – New Years Day – DISTRICT OFFICE CLOSED
6. Jan 2 – 8:30 a.m. – MWDOC/MET Directors Workshop
7. Jan 4 – 7:30 a.m. – WACO
8. Jan 4 – DISTRICT OFFICE CLOSED
9. Jan 5 – 8:30 a.m. – MWDOC Special Board Meeting
10. Jan 7 – 8:30 a.m. – MWDOC Planning/Operations Meeting
11. Jan 7 – 1:30 p.m. – SOCWMA Management Committee Meeting (LH Council)
12. Jan 8 – 7:30 a.m. – RRC Meeting
13. Jan 8 – 7:30 a.m. – ISDOC Executive Committee Meeting
14. Jan 9 – 8:00 a.m. – LAFCO Meeting
15. Jan 9 – 8:30 a.m. – MWDOC Admin/Finance Committee Meeting
16. Jan 10 – 8:30 a.m. – SOCWA Board Meeting
17. Jan 11 – 11:30 a.m. – Chair/GM Meeting
18. Jan 15 – 7:30 a.m. – Agenda Review
19. Jan 15 – 7:30 a.m. – WACO Planning Committee Meeting
20. Jan 16 – 8:30 a.m. – MWDOC Board Meeting
21. Jan 18 – DISTRICT OFFICE CLOSED
22. Jan 21 – 7:30 a.m. – Regular Engineering & Finance Committee Meetings*
23. Jan 21 – 8:30 a.m. – MWDOC Public Affairs & Legislation Meeting
24. Jan 22 – 7:30 a.m. – Regular Board Meeting*
25. Jan 23-25 – CASA Winter Conference (Indian Wells)

26. Jan 25 – 11:30 a.m. – Chair/GM Meeting
27. Jan 25 – 12:00 noon – SCWC Quarterly Luncheon (IRWD)
28. Jan 31 – 11:30 a.m. – ISDOC Quarterly Luncheon

- **NOTE: Date Changes**

Carry-Over Pending Matters

1. Cyber Security
2. System Vulnerability
3. Equipment Maintenance
4. Update District policies for contracting and purchasing. The goal is to document defensible, transparent, justifiable contracting and purchasing practices that are practical to implement.

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.